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1 our goods that he biggest value le to obtain

ITED Engines are World's Standard, an pay more, but an't buy a better
our Big Catalogue ABOLO Separators, ED Gasoline EnPump Jacks, Water ure Systems, Goverulleys and the CalfMilker Systems.
ted Engine \& paratar Co. anada, Limited Welling ton St. West
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AN ARISTOGRAT AMONG GAS Rivginis

The GILSON PAPEC ENSILAGE CUTTTERS AND GILSON ENGINES ato First." He recognizes that Gilson "Goes Lilke Sixty" Engines is "Satop Gutters represent the final beat in engine and ensilage cutter cond Ensilaction 1F The Gilson Papec Ensilage Cutter with a Gilson Engine is the most sensation combination in silo fillers that has ever been placed on the market for the individen farmer, syndicate or jobber. WE GUARANTEE ANY GILSON ENGINE
H.P. OR MORE, TO THROW AND BLOW ENSILAGE PERPNDD ULARLY WITH A GILSON PAPEC RNSILAGE CUTTRR TO THi
HEIGHT OF ANY SILO, PROVIDING THE SPEED OF THE CMW WHTEEL DOES NOT FALL BELON GO R. P: M. Furthermore WE GUAR ANTEE EVERY GILSON PAPEC ENSILAGE GUThermore WE GUAR.
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outfit for the individual farmer. Besides the engine will A 6 or 8 H.-P. Gilson Engine and a Gilson Papec Ensilage Cutter make the ideal out
do.all your feed grinding, wood sawing, feed cutting and other work all the year round.

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e buyer, whose motto is "Safet Like Sirty "Engines and Ensiloty e and ensilage cutter conntructlogo Gilson Engine is the mots dNTEE ANY GILSO for ENGivido
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 B. Price \(\$ 3.00\) per acre. Dutiec- each of three yeare cultrint
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and erect a house worth \(\$ 300\). area of cultivation is subject to reductin may be su
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 Delivered
to Nearett
Railrogd Station in Ontario 28-inch and 3 -inch din:
meter, 4 -inch by \(\%\)-inch
 NORMAN S. KNOX

DOG DISEASES And How to Feed H. GLAY GLOVER, 7. s.

GEPTEMBER 2, 1915

\section*{His house has 9 rooms-yes, but he can live in only one !}

Can your neighbors say that about you in the winter months? Is it true that you and your women folk get old before your time and lose your health, to say nothing of comfort, because your HOME is a cheerless, dreary, wintrycold place for five months in the year ?

You want to stop and think about your health. Remember, a cold house away hired help, it sends the young folk away hired help, it sends the young forn away to the city, in strong man

You can't heat a farm house by out-of-date methods. You may get one or two roms toler
able" for a few hours sut of the twenty-four, while with HOT WATER heating you certainly will get every room, every hall, every corner from attic to
cellar warm, cozy and absolutely comfortable. Why is every good city home now equipped with
HOT WATER heating? Only one answer. Hot water delivers more heat of the right kind and delivers more comfort, more efficiency and more

And why is the GURNEY OXFORD Hot Water System by far the biggest seller in Canada?
Because our patented system of boiler construction

\author{
and temperature control through our "Economize"
has never been equalled. \\ We want you to consider putting a GURNEY
OXFORD Hot Water
} OXFORD Hot Water system in your home.
Don't make up your mind that you can't afford it. Wait until you find out what it costs. It
costs NOTHING to know that.

A GURNEY OXFORD Hot Water Heating System can be installed with astonishingly little in the cellar that will burn either coal or boilen 40 -inch wood, as you prefer. Radiators are put into every room you want them in, and pipes A few buckets of water last all winter. The boiler keeps the hot water circulating all through the house. One fire only does all the work - no carryMeans a warm, snug dining-room, kitchen, bedall over the house

We have just published a booklet, "City Comfort for Country Homes," that tells all about the GURNEY OXFORD Hot Water Heating System. Shows how it is installed. Pictures and letters from farm homes now using it. Answers pretty We want you to write to-day for your copy. Now is the time to plan for GURNEY OXFORD Hot water comfort.

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\section*{FARM BOYS}

\section*{GRAND PRIZE}

PANAMA-PACIFIC EXPOSITION

\author{
What are Your Plans For the Future?
}

Do you intend to run your own farm; to practice the best farm methods; to raise better crops and better stock; to keep your farm in the highest state of fertity, you do, what satisfaction is there in farming ? NW work; to learn something of soils, fertilizers, drainage, plant and animal diseases, insect pests, varieties of grains, roots and fruits, breeds and types of animals, marketing of farm produce, methods of cultimation, carpentry, blacksmithing, etc. Get an in sight into the innumerable problems that every farmer has to face and should know about.

HOW?
By taking the Two-year Course at

\section*{THE ONTARIO AGRICULTURAL COLLEGE GUELPH}

This course is designed to meet the requirements our country boys.
You can come to College for two years
BECAUSE ordinary public school education is sufficient for admission to the course
The College year begins September 17th, and ends April 15th, so that boys from the farm may return to their homes to assist in the spring and summer work. During this period many boys can earn suffi-
cient funds to defray College expenses for the followcient fund
ing year.
Tuition fee for Ontario students is only \(\$ 20.00\) per year, while board and room in residence is obtained at the rate of \(\$ 4.00\) per week.
A portion of the cost during the first year is defrayed by work on the farm and at the various departments of the College
N. B.-If you wish to continue to the work of the Third and four Students are accepted for this course if their standing on Second Year examinations warrants it.

\section*{College Opens September 17}

For further particulars write for regular course calendar
G.C.CREELMAN, B.S.A., LL.D., President

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as the Highest Award has been at every International Exposition since the invention of the Centrifugal Cream Separator in 1878.

And likewise as at all previous expositions, all higher dairy product awards at San Francisco have been made to users of the De Laval machines.

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MONTREAL PETERBORO WINNIPEG VANCOUVER 50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

\section*{CAN YOU IGNORE FACTS?}

\section*{Do you know that out of 1,000 physically perfect men} 35 years old-men who have passed the severest kind of medical examination- 5 die within one year and 42 within

This stat
You have an equal chance with each of the other 999 of being one of the 5 or one of the 42 .

Can you afford to take this chance? Should you not do everything possible to protect your family, to safeguard our estate, against accident or the ravages of disease ? The only sure way to accomplish this is to provide for a heavy payment at your death-to insure your life in ther words.
Negligence and procrastination on your part may result in much hardship or even misery for those you leave behind-the home you have struggled so hard to pay for nay be swallowed up by the mortgage
A suitable insurance policy would absolutely prevent Insurance is kind.
In

\section*{hadow of a doubt, and the}

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would like to supply your needs. It offers the very highest type of security, and is one of LONDON'S leading

POLICIES of all kinds are sold at rates suited to ever rise. The Head Office is in the

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has been at every n since the invention Separator in 1878.
previous expositions, uct awards at San made to users of 1 machines

\section*{SUPPLY CO, Ltd.}

\author{
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\section*{YOU \\ FACTS?}

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OF CANADA
s. It offers the very high-
sold at rates suited to every
BUILDING.
er \(\$ 2,500,000\)

\section*{i' armers Advocâte Home Magazine}

\author{
Voit. L.
}

LONDON, ONTARIO, SEPTEMBER 2, 1915

\section*{EDITORIAL。}

\section*{Meet us at the Fair}

This is truly a patriotic year.
New Ontario is a big country ready for the settler. Read about it in this 1ssue.

It is late in the season, but a weedy root field should be cleaned if at all posstbl
That field of rank, poorly-flowered clover may be worth more for hay than for seed

If you are at the Exhibition study the stock; if not study the types depicted in this issue.

With the call for men for the army and for the farm, valid
difficult to find.

Can anyone outside of a dyed-in-the-woo politician produce any solid reason why an elec tion should be held this fall
Attending the fair is a holiday, but time and attention enough should be given that something of real value is carried away

Do not let your patriotic spirit vanish with the subsiding of the cheering and hat-swinging at the fair. Everyone can continue to help in some way.
\({ }^{4}\) Some of the Eastern buyers of horses for army purposes seem to have been working on the basis of wearing out the old, the halt and the blind first.

We draw the attention of all our readers to the special articles dealing with timely topics in this, our annual Exhibition Number. Pead every one of them.
We are pleased to note that the live-stock entry at Toronto is larger. Our live-stock breeders play an important role in the destiny of Can adian agriculture

Uncle Bije says instead of rushing hot foot for the doctor to cure him when he gets down
sick he engages a capable family physician to keep himgages

The people have shown that they are not in avor of mergers. Evidently "The Farmer's Ad teceiving stand on banking and big business is \(\underset{\text { harvest }}{\text { A wet harvest does not mean that after- }}\) conserve , inge should be neglected. Plan to fom one "xtrome to the other.
Many farmers whose wheat sprouted in the
tields wer. pleaud with olds wer. pleaved with the information given in feeding valk Department lașt week regarding the f sprouted wheat.
Let the iny attend the nearest big exhibition
and your owr county fair as well
and your ow county fair as well. He will work more for the rest of the fall, and will think more of fa ince as an occupation. And let him

The Security of the Farm. In time of crisis the fact is brought out that larming, production of the necessaries of life is mics of the world. When everything is running smoothly and hoom times are in evidence every where, there is a tendency to forget the farm and all that it stands for and turn all energies to ward money making by what then appears to be the easier and quicker route of city employment and urban investment. A change comes when the slump appears. An American magazine, which pays special attention to investment announcements, in a recent issue had no less than two dozen advertisements, some of them full page, and all appealing to those having money to invest to play safe and put it in farm lands und farm mortgages. City and town real estate booming has received a set back. The man with all his money in town lots is having a hard time to make ends meet. The man who chose the safer investment-farm property-is doing as well as, if not better than, ever.
There is another point of safety in the farm, there is always work there for the willing an compctent. ing charitable soup kitchens in the country. Th arm, properly worked, looks after all those who ttend to their duties.
The farmer's business is built on a much better foundation than many city enterprises. There s always a good living in it, and generally
little besides. Dull times and world crises come and go, but the farm goes on forever. Cit business may flourish for a time and then dwindle into bankruptcy because of conditions beyond the control of those engaged in it, but the farmer works along and his fields pay his way through it all. All this should be a good lesson to young men. The farm may seem slow, but it is sure and safe. It stands secure through'all the ups and downs of finance, and the bulls and bears of Wall Street never make farmers millionaires o paupers. Farm land is the best security always.

Why Thousands Read "The Farm

> er's Advocate.'

If the large clientele of readers could be ques tioned as to why they read "The Farmer's Advo cate" no doubt a great variety of answers woul we dran for form pape they find so many features whicn appeal to read ers in a farm home and directly interested agriculture that has his and sental work is never done, and such in mental work is never done, and such is the cas not. Things are done the same, or dilferently because some practical experience, either by the farmer himself, or his neighbor, or some othe farmer, or experiment station has found certai practice most profitable. It has been demon strated time and again that individual experience s not enough and that the findings of others ar valuable. It is here that "The F'armer's Advo ate" proves a helpful medium. Its columns carry information regarding practical experience from one farmer to another-from thousands of farmers to thousands of other farmers. A farm is operated in connection with the paper, and the results of practical experience gained thereon is passed on to readers. The twentieth century farmer cannot farm unto himself. He must know what others are doing, and how they do it
readable forn, and he inds it protitable and pleasant reading
There is a reason for everything in farming and the most interesting part of the occupation after the "knowing how" has been mastered is the "knowing why." Perhaps this order should be reversed, but at any rate the up-to-date, get ting-on farmer must know. "why" farming opera tions are carried on as they are. "'Ihe rarmer's Advocate" tells him why.

As time goes on the problems confronting trie farmer become increasingly ditticult. F'arnting today is much more of a technical occupation than it was years ago when the land was new and only needed, its back scratched to prodice alsun dantly. "The Farmer's Advocate" informs its readers on the technique of agriculture as ar vancement is made.

The home must be supplied with instructive, and wholesome literature. The Home Magazine Department of "The Farmer's Advocate" is read and prized by men, women and children alike every home to which it goes. There is more in life than work, worry and money.
The wormer and his money
breast of the times and make the most, to keep abreast of the times and make the most or thind literature, particularly that dealing with the literature, particularly that dealing with the Farmer's Advocate", is the oldest and best, so they read it.

\section*{Over-Worked Royal Commission,}

Under fair pretentions the public is led to expect from the almost endless succession of Royal Commissions large and beneficial results which too often do not accrue. In some cases the inten tions are well meaning but needless. Other phear to all plan of bestowing compliments and compensations for political ends. The Railway Commission of Canada, a permanent, quasi-judicial body, entirely different. exercises fin scope of a govern fled fis axishery situation lately cumstances hom developed the mission with ample power the proper means to administration, is lo light and clean up a bad brint rascality to light and clean up a
political mess. The proof of the elliciency of the work of the two commissions in that province was evident when the people went to the poll and throwing old party tie's to the winds swept one crowd away and authorized another to com plete the job of giving decent governmeat. A Ottawa a parliamentary committee proved futile in handling the gang of war contract graiters and the probe of Sir Chas. Davidson as a com missioner soon resulted in the resignation of an M.P. and the refunding of a lot or loot to the Dominion treasury. When Pasteur evolved his treatment for rabies, at his request the govern ment of France very properiy appointed a com mission to report upon the nation and the Wis splendid achieve ment.
What was probably the first Royal Commission n record ended in a disastrous fizzle. Twelve spies were commissioned by Moses to report on the Promised Land which was found rich beyond all conjecture but the courage of ten of them oozed out and precipitated a panic among the people who went back to die on a forty years'

The Farmer's Advocate

\section*{AND HOME MAGAZINE.}
the leading agricultural journal in tiie

Agents tor "The Farmer's Advocate and Home Journal,"
THE FARMER'S ADVOCATE AND HOME MAGAZINE
published every published every Thursday.
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handoomely illustrated with original engravings, and fur-
 home-makers, of any pubilication in Canada.
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United States, \(\$ 2.50\) per year; all other countries, 128.; ADVERTISNING RATES,-SSingle insertion, 25 cents per line,
agate.
Contract rates furnished on application. agate. Contract rates furnished on application.
THE FARMER'S ADVOOATE is sent to subserbers until
an explict order is recelved for its discontinuance. All
 THE LAW IS, that all subseribers to newspapers are held
responsible until all arrearages are pald, and their paper
ordered to be ditcontinued. ordered to be ditcontinued.
REMITTANCES
Money Ohould be REMTTTANCES should be made direct to us, elther by
Mones Oreder Pootal Note Exprese Order or Rerlitered
Letter, which will be ateo
we will not be reeponsthe. risk. When made otherwise we will not be responsible.
THE DATE ON YOUR LABE
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subseription is paid. LABEL shows to what time your
ANOYYOCS communicatlons ANONYMOSS communications will recelve no attention. In
every case the "Full Name and Post-ofice Address Must
be Given."
 LETTERS Intended for publicatlon should be
one side of the paper only. one side of the paper only.
CHANGE OF ADDRESS.
change of address shoribers when ordid give the old as well as the a P. O. address.
INVITE FARMERS to write us on any agricultural


 ce our columns.
ceipt of postage.
A. ADRESESES OF CORRESPONDENTS ARE CONSIDERED
 THE WILLIAM WEED FARMOCATE, or
tramp in the desert Under the
tramp in the desert. Under the guise of wanting of politicians to gain time and avoid trouble'some issues. When the anti-alcohol movement was
yathering strength in this country Prohibition Commission was sent out. The result was a dual report. The majority like the ten sples were unfavorable but probably made just
about the brand of a report that The proposal of some old-time commi-sions would provoke a smile now-a-days. A gilt-edged
tribunal once perambulated (ntario to nd dehorning was not too painful for this cows and had not better be stopped. The commission t agriculture over thirty years ago gathpred a vast storehouse of information of historical use and a
guide to the then legilators. might be recallßd a live officer from a department of agriculture could bring to light just as much the expense. A good deal of the knowledetenth ported is oftern already well known through the troublesome hecause of reasons for which several responsible, a couple of our most caprable publi-
cists were forthwith commissioned to tour the have fallon into a Rip-Tan Winkle sleop fro Eurly in July the outline of another elaborate
tional commission was amnounced to器位con farmer now he is to handle what he he has
data with carefully worked out recommendations
to give the report effect. Unfortunately one government began the undertaking and their successors would not touch it with a forty-foot pole but shoved the volumes into dusty pigeon holos doom.

\section*{Seriously, this Royal Commissions idea, usual-} ly on "behalf of the farmer," has been worked to death and as the country comes iace to fage with the appalling responsibilities and burdens of the government which public men are now recommending the commpn people to practice. In federal stipends amopies drawing with assistants as thick as horn ihics in August. Suppose they tackle the work themselves instiead so turning it over to Royal Commissioners with so much official fireworks. Then if political partizans will cease setting the people by the ears this country will probably weather the gale.

\section*{Pasteur Versus Kaiser.}

Louis Pasteur, Kaiser Wilhelm II.-These two
men are cited representing humanity at its best and at its worst. Benefactor and Destroyer One becomes immortal as the alleviator of suffering and a savior from loss, whose spiritual life Was no less admirable than his scientific career. The other has drenched the world with blood and agony. These two types are the product of two distinct ideas of life which as worked out either ennoble or curse. The kaiser maed not be held wholly responsible for the Worid conflict, other culpablue. Science and philosophy are relatively harnessed sees in German ethics a mere shell with now thing cast out that will not warrant force and Pasteur resolved to exalt his country in beneficiunt
science. This would be his triumph and he achieved it. Out of the lators of this peerless Frenchman grew the diphtheriaantitoxin which up to a year ago had saved over
a quarter of a million lives. As an achievemen contrast this with all the past year's destructiont, in Europe and the butchery of Lusitania innorabies. Pasteur gave the world the triatment for "highly honorable to French science and conferring upon him a new title to the gratitude of
humanity." By his discovery of the cause and
course of the silk worm dist great industry from ruin and brought it bock prosperity. His work with anthrax, chicken
cholera and rouget (swine disease) gave results of cholera and rouget (swine disease) gave results of
incalculable benefit to farmers and stockmen the elso is due. To Pasteur more than to anyone veterinary science and the levelling up of of study and treatment of animal diseases with the
study of human di eaces. All natiors are to dav grateful to this eminent savant ever whose vaul in France are four great white angels, Faith,
Hope. Charity and Science, a tribute to one who brought blessings to mankind. Though dead shackle all in a deadly bond of blood and iron-
After which After which model will the young men of Canada
pattern their careers.-Pastiur or Kaiser ?

\section*{A Cold Water Douche.}
 cannot tell him anything else. This sort of jibe
is occasionally levelled at the school man, know that colleges worthy the name do not instil capacity and character. It was lil without proved youngest of us, At this time of year
as young people of the farm here and
there sot Where set out ton the shools it is best
to pive them a horening word and later the cold water douche. If used at all save with
head hor
husterers. The chilling ax erimen ot stern life will come soon enough. Nothing is more dis-
couraging than cheap sneers at youthful ardor. If the young man would achieve something new
and worth while on the farm let hime have a fair
and encouraging trial. We have

The Future of Canadian Agriculture after the war-what?
By Dr. G. C. Creelman, B.S.A., L.L. There is food for thought in the plain \(f\) spending millions every day Canada peon at War most important possession, has scarcely felt the "pinch" at all. Merchants in many towns in . and that even real estate transaction lust year, on, not as usual-for real money is being golng transfer. Our banks are sound and have plent of money. No sane person doubts for a moment
that the Empire will win out in the that the Empire will win out in the long run, , OUR NEED. When things have settled down (1) CApyTAi need four things at least.sources will surely attract money. Our our to lands, great waterways, healthy climate our cheap resources, and manufacturing possibillties, wimber of the most astounding things about this me one the tremendous financial resources of Great Britain. With a daily expenditure of fifteen mil-
lions of dollars she still has money to loan to her allied nations. This wealth will later turn to new countri,s for reinvestment and ours should prove an attractive field.
(2) 1 MMIGRATION
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\begin{aligned}
& \text { (2) } 1 \text { MMIGRATION-As Eurore supplies the } \\
& \text { great bulk of our newcomers, then easy transpor. } \\
& \text { tation facilities and cheap rates gye }
\end{aligned}
\] tation facilities and cheap rates easy transporgreat advantage. Australia, New Zealand a vouth Africa are all handlicapped in this regard, and ahove you add the natural resources enumerated light. We will certainly stands out in the lime learn something during this lull Peraaps we may affairs that will help us to assimilate our forein emigrants better and quicker. We easy-ging
Canadians are apt to forget that while "Candg for the Canadians" is spiendid in sentiment and theory yet we are becoming more and more derendent on foreign labor. Let each of us stop
now and think of our duty towards the individual foreigner admitted to Canada by our Imillintalia Authorities. If they are to become as good Canadians as our fathers did, then we must quit calling them "Dagos" and "tramps" and instand extend a sympathetic hand of real friendship, try as early as possible to make them feel so to leat home that they will one and all desire important our ways and our language and become (3) MARKETS-This question must receive our very best attention. Our Governments appre
ciate the importance of an economic study of markets. The Ontario Department of Agriculture has a Burcau of Markets which is gathering Province, while studying the question inside the appointed a " "Market Comnission" with a wide
scope. We may scope. We may soon expect, therefore, to know tions and our need for better market facilities. It is a crying shame that our own West is not Provinces. It is a crime that from the Eastern thousands of barrels of crime that thousands and year because the ground in Ontario nearly every into a scientific or exhaustive not propose to go on the subject. I do hope, however, that the awful war will bring us closer torether the armers, in the best interests of everybody. We neem to bo waiting for all the neighbors to get actual practice what we nearly WHAT 20 MFN CAN DO.-I believe that 20 put their heads together could do almost anyning. They could -(1) Unite the diffenent churches in the neighstrong, virile, forceful, influential Preacher in (2) They could build a mile of first-class road (3) They could get Bank credit for any rea(4). They could handle the entire fruit crop of
(5) They could explain the drainage act, and of all low land in the neighborhood. 'encorage draininf (6) They could stand behind buying and sell", (7) They could back up the District Reprosentatives and demand short courses in the study of
agriculture, demonstrations of spraying, school agriculture, demonstrations of spraying, school
fairs. school gardens and a thousand other good things.
(8) They could build up a new sontiment in
school affairs, engage the best teachers and atter of fulfiling the requirements of the Department of

\section*{of Canadian Agriculture.} ir the war-what? c. Creelman, b.s.A., L.L. for thought in the plain facu
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siness is better than isiness is better than last year, - for real money is being ysoing anlis are sound and have plent ane person doubts for a moment. will win out in the long run,
must think of its must think of its future. When things have settled down 11 need four things at least.ely attract money. natural ie erways, healthy climate, cheap manufacturing possibililties, wimber ondinen of wealth. To me oill financial resource this War il daily expenditure of Great she still has money to loan to for This wealth will later turn ive field. ATION-As Eurore supplies the newcomers, then easy transporAustralia, New Zealand, Sourt andicapped in this regard, and ertainly stands out in the limeet immigration. Pleriaps we may during this lull in immigration and quicker. We easy-going
to forget that while "Caing \(\mathrm{s}^{\prime \prime}\) is splendid in sentiment and are becoming more and moreign labor. Let each of us atop do Canada by our Immilipration they are to become as good fathers did, then we must quit chetic hand tramps" and instoded vay of living and farming, and possible to make them foel so at they will one and all desire s and our language and become
in our body politic S-This question must receive ention. Our Governments appreario Department of Agriculture Markets which is gathering Ie Dominion Guestion inside the ket Comnission" with a wide oon expect, therefore, to know regarding our present limita.
ind for better ame that our own West is not ied with fruit from the Eastern els of good apples are allowid round in Ontario nearly every TION-I do not propose to go exhaustive economic dnscussion I do hope, however, that the
bring us closer together, as est interests of everyloody. We g for all the neighbors to get ne of inind before we put linto CAN DO.-I believe that 20 ogether could do almost would
different churches in the neighe one meeting-place with a , influential Preacher in build a mile of first-class road get Bank credit for any reaof money for developing thei handle the entire fruit crop o explain the drainage act, and precept, 'encourage the draining stand behind buying and sell and so ensure "fair dealings." back up the District Represen-
d short courses in the study of strations of spraying, school ns and a thousand other good build up a new sentiment in ee the best teachers and after ave every boy Department the rudi-

SEPTEMBER 2, 1:15
ГHE FARMER'S ADVOCATE

\section*{Some Former Champions.}


Sir Spencer.


Ichnobat


Proportion


Rosador.


Castle Belle.


Kanaille


Rokeby Hald


Uhlan.

THE FARMER'S ADVOCATE.
ments of agriculture, and every girl the practic Household scienc
Ontario, for twenty good men in every section in together. They could control the Political, \(/\) Re ligious, Economic and Educational affairs and nder such conditions, weeds and insects would bo fought intelligently and to a standstill; only purereuld be tolerated. "A fair square deal merit very man' should be the watchword, and a social awakening would bring farmers to a sense of their power and influence, that would shake Wyole social fabris
suffering and tribulations of these through the ays we may all be brought to see the folly of each farmer trying to stand alone, and the many many benefitis that may arise from standing back to back forgetting local jealousies and former
differences and looking forward to the grander differences and looking forward to the grander
Province in that greater Canada that is to be

\section*{Nature's Diary}

\section*{A. B. Klugh, M.A}

It is now moulting time for a great many of our birds. Some species moult in July, and some in September, but the

The process of moulting is a very interesting erent families of birds. AII birds und the difcomplete moult in the late summer on early autumn each year, but a large number of specie atr
In the great majority of our birds the feather or by feather gain that they do not losensated the power of flight or the protection of ,ueir plumage. The plan on which a moult proceed is a perfectly deinite one. Old feathers or rows of feathers tend to remain until the new feathers their function, when the old ones fall out and their places are taken by the new ones which de velop from the same papilfae. This systemati replacement of feathers shows most plainly in the wings where not only do the flight-feathers fal out one after another in definite sequence and
almost synchronously from each wing, but the greater coverts are regularly replaced before th fall of the secondaries beneath them, and the un der wing coverts are usually replaced after th moult of the upper surface of the wings is com-
pleted. On the body the protective sequence is pleted. On the body the protective sequence 1 s
less obvious, but the moult regularly begins at less obvious, but the moult regularly begins at
fairly definite points in the feather tracts and radiates from them in such a manner that the outer raws of feathers where the tracts are widest are the last to be replaced. To under stand the moult as it occurs on the body one
must study the way in which feathers grow on a must study the way in which feathers grow on a
bird. Though a bird appears to be feathered all over, we find on careful examination that the feathers really grow only on definite tracts, and that letween these tracts are liare suaces which are covered by the feathers which overlay from
the feather tracts. There is for instance feather tract down the middle of the back and the feathers of this tract overhang the sides of the back, there is another tract on each side o overlap the centre of the breast. This is the rea-
son why a bird appears to be moulting at i regular spots all over, because mould starts at the same In most of our small birđs, such as the
Sparrows, Finches, Isuntings, Vireos, Wartlars, etc., the longest quill-feathers of the wings,
(known as the primaries) are nine in number. At the beginning of the moult the ninth primary is the first to fall out, and this feather falls from each wing at the same time. As soon as this
primary falls the follicle or envelope containing the new-forming feather preshes into containing reaching one-quarter the length of the old feather
before the fea'her its If theals from the apex of the sheath. Before this has happened the next
primary (the eighth) falls out, by the time that primary (the eighth) falls out, by the time that
the next adjacent primary (the seventh; falls the the next adjacent primary (the seventh; falls the
ninth is about half grown. 'Thus th) moult of the main flight-frathers mroceeds, so that at no
time is a gap left of more than one or two whole creds, so that at no
than one or two whole
partially grown, and
ut Iittle hampered in
the primarins proceed-
incorat of tiont turtle They pass their incapable of wist ase pass their margins of high reeds. margins of high reeds. of much interest which comes up is the way in which some species, in fact most species, change the color of some parts of their plumage without a moult. It has been frequencly asserted But we know that a fully-developed feather is a dead structure, and that the only change which can take place in its color is in the nature of loss of color or fading, so that such brightening as takes place cannot be due to re-pigmentation. develop have edgings of a different color from that of the main portion of the feather, and that as these edges only show the portion of the plumage on which such feathers are found appears to be the color of the edgings. In course of time
these edges wear off, due to abrasion against these edges wear off, due to abrasion against
other objects and against other fcathers, and reveal the main body of the feather. Thus many birds which appear dull-colored in the fall become much brighter by spring entirely because of


At the Fair

\section*{Saved to the Farm}

One of the greatest works that a District Rep esentative of the Department of Agriculture can the farm to stay on the land and make farming their life work. There recently came to our no who the case of a particularly bright farm boy age, rather unsettled as to his future. He was raised on a good farm, knew farm work well be-
cause he had grown up with it, but no particular
interest being displayed and eflorts put forth keep him on the farm, he decided to try banking bank when a District Representative came to his home county and began his work in interesting Course was put on one winter in his home town live stock, and for a young man, a fairly good
judge of the different classes and breeds of stock ept in this country. From advice given at the tion work, and at the present time he is back on Tmplovment dispellod and thoroughty convince sides this, he learned to do a little public speak ing through the Short Course work, and has
ing the past winter, to no less than three out side points to take part in debates.
Among the young men he is now best live-stock judges in his section one of the try. He is producing more and better counchrough the inspiration received at the shom ourse; but, best of all, he is a farmer and no a bank clerk. It is work liie this that woll nake the Distrlct Representative solid in his efforts are not so much in the direction of His turn to the land as in saving the boys to the farm. Canada cannot afford to allow hor rumal. raised young men all to drift cityward when they would be of far more use to therisel es and to case simply on the farm. We mention this one District-Representative can do and ts that the profitable work in this particular, and thait, with the young men alone, the work is invaluable Every such boy saved to the farm means inereased production, more satisfied farmers, a big ger, better and richer Canada. What are you do-
ing to encourage the farm boy ? Has he a call, a pig, a lamb or a colt of his own"? Has he o few bred-to-lay chickens? Has he a littie expermental grain or potato plot upon which he is improving the seed? If not, why not? If the boy is only a chore Fathers anid mothers can halp a satisfied farmer. Fathers and mothers can holp. School teachers can help and District Representa-
tives do help. Which would you rather your
boy would be, a good farmer or a ban's clerk?

\section*{THE HORSE.}

How to Show Horses.
The exhibition of high-class horses at "highclass" horse shows is practically a business in
itself, and is conducted, in most cases, by those who thoroughly understand the game, hence to exhibitors of this class we do not presume to dictate, as they are better posted on "the tridcs of the trade" than we are. but a few hints to the ordinary horse owner, farmer or farmer's boy
who exhibits only at small fairs may be seasonwho
able.
It would probably have been more correct to have entitled this article "How to Prepare Horges
for Show Purposes." The showing of a horse is comparatively fan easy matter if \(h_{e}\) has been properly, prepared. Horses of all classes should
receive sufficient education before being taken into the showring to enable them to perform the functions demanded from animals of their class in selves and their attendants. The exhibitor should place to train or educet his exhibit whether be place to train or educate his exhibit whether be. Good manners on the part of both the animal and the exhibitor are necessary for success. The judge knows (or is supposed to know) how a horse or any class should act on the halter, in harness, or
under saddle, and other things being equal, the animal that most nearly comes up to his tideal in this respect is the one that will win the best
Unfortunately there is often seen an evident want of training or education of any kind, and
this is especially noticed in the classes of young horses shown on the halter. Many exhibitors
cvidently think that so long as their colts can ee got into the ring in any way it is all right and nothing further should be asked for. Ther are not even taught to stand to allow the judge to look
them over carefully, and whion the attendant is them over carefully, and whin the attendant is
asked to walk or trot his entry, the colt often rcfuses to move without urging (often rather and plunge in all directions, or in some cases will run around in a circle, the extent of which
depends upon the length of the lead rein, but pesitively refuses to go in a straight line either
from or toward the judge at eithpre a walk or a rot. Others go sideways or hackwards, while
some can with difficulty be induced to move at all. This is provoking to the judge, aggravathing
to the audinnce, and disappointing to the exhibi* o the audionce, and disappointing to the exhior a hetter animal than the hetter-fitted and better-
trained colt that wins. The iudee in such cases with often very severely criticised and credited He knows that the awards have not pone to the world prohahly have more favorable conditions of the fact that a little trourle is necessary to animal must show his action and gaits to enable ny person to judge correctiv of his relative the fact that his judpment of the animals before time. must be influenced by what they are at the different, conditions. The general anrer rance of e unfitted and untrained colt may indicata that

\section*{} SEPTEMBERE 2, 1915

\section*{Former Champions in Beef and Sheep.}


Southdown
Shropshire.
Hampshire.


Gainford Marquis.


Bonnie Brae 21st


Black Abbot Prince.


Lincoln.


Refiner. osed to tor success. The judge act on the halter in harnese or id other things being equal, the s the one that will win the best there is often seen an evident
or education of any kind, and noticed in the classes of young on the halter. Many exhibitors
hat so long as their colts can he ould be asked for. Thev are not and to allow the judge to look trot his entry, the colt often without urging (often rather directions, or in some cases length of the lead rein, but jodin a straight line either sideways or backwards, while aning to the judge, a agravating case whore \(h: s\) to the extry is really than the hetter-fitted and bettersevercty criticisod and credited ompetency or dishonesty. He
awards have not gone to the nder more favorable conditions ve won, but he is alco aware
little trouthle is necessary to for exhlrition and that each lge correctly of his relative judgment of the animals before uenced by what thev are at the
they prohahly would be under The general anrer rance of that nert he would be a better onimal
and have better action than those that he selec for the awards. At the same time the colt is knows that a colt of good conformation, and all indications of showing good action is sometimes a great disappointment when moved, and as he is judging entirely by what he sees, not from what he problably would see under give the prizes to he id crectically compelled to give the prizes then, again. the exhibitor who has spent time and money in training and fitting his exhibit so that he may appear at his best before the judge, deserves some recognition over him who has taken no pains or expense to drain from the pasture field to the show ground. Such an exhibitor takes no pride in his horses, but simply exhibits for the money he may win, and his winnings seldom noflect -glery upon either himsolf or the
exhibition. Even sucking colts-should be taught xhibition. Even well before being taken into the ring. When this is done there is less danger of accidents, it gives the judge a much better opportunity to judge correctly, and the exhivit a better opportunity to show just how good it is. that are trained to the halter generally win over those that are running loose. In horses of all ages and all classes action is a most important correctly judge action he must see the animal go rom him come towards him in a straight person who expects to show colts or hors?s of any age on the line should teach them to go well
in this way before taking them to the exhibition. in this way before taking them to the exhibition. Colts or older animals of the heavy classes should be taught to stand wellet and should be taught to walk and trot well. Of course where conventent it is well to have two or more colts take lessons at the same time in order to get them accustomed to company, but this is not has been taucht to perform well when alone seldom causes much trouble in company. The too common practice of teaching a colt to go around in a circle is no use for show, or we might say. or any other purpose. He should

Colts of the lighter classes should of course be ught to show the peculiarity of action demand Tapecially class to as great an extent asiage clas Especially in the heavy harness or carriage class
shoeing helps action; and it may often be noticed that the colts that are shod win over those that
are not, even though their gencral appearance does not indicate that they should.
In fitting and training horses to show in harness or saddle the 昂隹e remarks apply to the order that when the animal or animals are taken efore the judge in the ring he or they may be the heavy classes, in best that is in them. In harness a good walker is essential, hence they should be taught to walk well and to go at slow trot, to stand well and back well. Mrobably out-look all others in the ring) have such a poor way of going at all gaits (in many cases due largely to want of education) t
Proper classification of heavy hossee should be classes, viz. draft and agricultural. The general
type and characteristics of the two clas ies is dentical, the difference being only in weight. Some Agricultural Societies make 1,600 1bs. and and 1,300 or 1,350 ths. the minimum for an agricultural horse. The horse of a draft 'type horse has no class for show purposes. He may "a show horse." Many claim that he is "a general purpose horse" but this is a mistake, a
general purpose horse is a clean-iimbed fillow, easonably active that will give reasonable service and not look particularly out of place hitched to a plow, hinder or other farm machine, a heavy
> of the heavy carriace, hesvy road or heavy saddle good but is good for general work. inder no
bred
process of reasoning con an andursizat inse of



general conformation in classifying between the particularly noticeable in some Standard-breds, which of course are by breeding and should be by
conformation, light harness or road horses, buc they have the excessive action both fore and rear that is demanded in the heavy harness horse and undesirable in the roadster, hence for show purposes they must go in the carriage class. Some certain the desirable actions of each class an extreme extent hence the owner is at a loss to know how to classify them. Horses of this in either class. Hence it is necessary for the prospective exhibitor to study the desirable characteristics both as reyards general conformahim and action of the different classes to enable poses and then he must be careful to intensify the action to as a great dugree as possiule welore the day of the show. He must also remember that
in these classes manners count for a great deal in these classes manners count for a great deal, is eisentially a pleasure horse. He must have good manners and act well under all conditions. He must stand well, back well and show tlash and high, straight action both fore and rear, and the faster he can go the better, provided he retains the quality of action. The light narness
horse or roadster also should have good manners. Like the carriage horse he should be a good walker and when trotting should go straight and reasonably high, but the excessive action of the carriage horse is objectionablip. He must go fast, not necessarily at a racing gait, but the faster or protection of any kind of this nature. The saddlie horse should lue largely of the Thorough-
bred type, with good nanners, the gat.s iequired being the walk, trot and canter, all of tread and rather close to the ground, but not low enough to cause danger of stumbling. Many judges now want more Cash and height of action than the Thoroughbred shows, but this must not
ve too well marked. As regards the hunter the nearer he approaches the Thoroughbred in type and action the better and in addition he must be able to carry weight according to whether he be
a light, middle or heary-weight fellow and be able and willing to negotiate obstacles of different kinds and like other classes have good manners. wishes of his rider whether they tety oxpey the word, heels, kners or reins and no horse of any at the same time go with a reasonably tight rein. In a few words to sum up what should be knowing what is required in horses of different classes, teaching them to pertorm the functions of their class in the highest possible degree, and
when in the show-ring avoid getting them rattled or excited in order that they may then perform

\section*{LIVE STOCK}

The Live Stock Outlook on Prince Edward Island.

The rearing of high-grade live stock was fost-
ered by the early settlers of Irince Ldward Island, and carried on so successfully that only
a few years ago much healthy rivalry existed among the large breeders. Var.ous influences ing of the enthusiasm resilted. However, there
are several fine herd*, still upon the Island, and scattered throughout are to be found individuals,
or the descendants of the earlior noted herds; these will ald in forming the foundation in the ally followed by an awakening and Prince Edward gressive movement in livestocer \(r\) i. ing; arricul-
tural education has had its influence but it is tural education has had its influence, but it is
largely due to tho realization that th re is money
to be made when live stock are pronerly cared Isolation, due to improner communication with
the mainland, everts an incalculatle influence upon the activities of tha Ir ed ed ris simply because
markets upon a proper basis are rot available at any time, and at cortain seasons there are none
but the home market. Cattle and shoep chip-


o react favorably on the industry as a whole Co-operative marketing, which is becoming popil.
lar will be fostered; already one saction solls ali the lambs to a firm in Boston at enhanced prices and cannot supply considering . Several secsuch a method and there is every indication the more than lamfer will be included in the selling list.
The markets for live stock are all comparativey near-Boston, Halifax, St. J ohn, Sydney and quantities of meats from other districts are arge nually sent to the Maritime Provinces are ansold in direct competition with Island produce: several reasons other than lack of production at home will account for this situation. The demands on the several markets make it possible to
dispose of all the output, sometimes regardle of the quality, which is a decided advantage til the industry can be so built that inferior ma. terial is of small import. However, any who have the opportunity to visit Charlottetown narfind meat which compares favorably with any will Climatic conditions are during with any. Chths somewhat like those in Great Britain Diseases, however, appear to be more easily controlled; no outbreaks of contagious diseases occur, which impossibilthy of carrying them in cars and bedding, but in the near future. The fly season is short and not so intense as in most sections. Frecuent showers assure good pasturace during the grazing season, and in conjunction with a very responsiv̌e root crops.
The population is largely agricultural. During per cent. was noted many going to U. S. A per cent. was noted, many going to U. S. A., assume that most of them came from the farms. the same period witnessed a large decrease in the sheep population but ar increase in other
classes of live stock as shown by the following

Class of
stock
in 1900
 \(\begin{array}{llllll}\text { Cattle } & \text {....112,779 } & 120,396 & \square & 7,617 & 6.7\end{array}\) Swine …. 48,007 56,377 —— 8,370 17.43
The tendency to keep more stock is very
marked under a decreasing population. Many very fine animals are being imported by individual breeders, and the Dominion Department of Agriculture has during the past two years
placed many pure-bred sires in several localities. placed many pure-bred sires in several localities.
Everywhere the demand for quality is becoming verywhere the demand for quality is becoming operatively, are securing sires independent of the Government.
Probably in no other part of Canada is the
ight horse appreciated as on the Island; everylight horse appreciated as on the 1sland; every-
ne loves a good horse and the maiority own ex-
cellent horses. Prominence is given to speed rials on the track and ice whenever the seasons permit. The interest is so acute, and the quality likely to wane under the present generation, Draft horses are represented principally by
Clydesdales, but there have been of late some Clydesdales, but there have been of late some
very fine importations of Percherons. Type. weight, scale and quality are frequently found as the result of years of carefully breeding or good Beef cattle were monarchs in the olden days. but since the dairy industry has made such rapid The dispersing of herdis gave the beef industry a
check, but many have been started of late and give promise of excellent development, and ailready the mainland show circuit is fami 'lar with Island live stock. A few very good Angus cattle
are to be found but the Shorthorn is the favorite.
Dairying is of more recent years, but it is now very creditahly represented by some noted Ayrvery creditably represented by some noted Ae A
shires. Holcteins and Jerseys. Records have been
made that have given the breeders world-wide disinction. Small herds of pure-hred animals are oming into prominence, particularly in the districts where creameries are situated. Quality is
being emphasized very stronglv. The beef and
lairy industries for many vears suffered from ross breeding but this will, due to educational ctivity and to the infurnce of cow testing as and grain is the greatest drawlock in some parts;
surnlus but when eattle come out in the spring
\(\substack{\text { samit } \\ \text { andmen }}\)

\section*{FOUNDED 18}
eting industry as a whole d; already one section sells ali m in 'Boston at enhanced prices ly considering the adoption secly considering the adoption of will be included in the selling
ind live stock are all comparative Halifax, St. John, Sydney and Tarket reports show that large ts from other districts are anmpetition with Island and aroduce, her than lack of production at \(t\) for this situation. The deral markets make it porsible to output, sometimes regardless
ich is a decided advantage unin' be so built that infertor ma import. However, any who ity to visit tharlottetown narcially at the Eiaster season, will ions are, during the warme ions are, during the warmer
like those in Great Britain appear to be more easily con aks of contagious diseases oc accountable to the impossibil hem in cars and bedding, but
hich must be carefully guarded - The fly season is short and most sections. Frerquen junction with during the grazing wing of large hay, graiñ is largely agricultural, Durin od 1911 , a decrease of 9. ed, many going to U. S. A., of them came from the farms. witnessed a large decrease in on but an increase in other
ock as shown by the following

 \(\begin{array}{rrr}35,985 & - \\ 120,396 & \text { 2,204 } \\ 7,617 & 6.5\end{array}\) 56,377 - 8,370 17.43 to keep more stock is very decreasing population, Man and the Dominion Department s during the past two years bred sires in several localities, emand for quality is becoming maring sires independent of th
other part of Canada is the iated as on the 1sland; every orse and the maiority own exrominence is gien to speens est is so acute, and the quality high, that this industry is not nder the present generation. there have been of late s. tions of Percherons. Type quality are frequently found as of carefully breeding or good monarchs in the olden days. industry has made such rapid
has to remain within bounds. has to remain wef industry a heras gave the beef of late and excellent development, and al 1 show circuit is fam 'liar with A few very good Angue cattle
but the Shorthorn is the ore recent years, but it is now presented by some noted Ayr ad Jerseys. Records have been erds of pure-hred animals are many grade heids are rapidly nence, particularly in the dis: eries are situated. Quality is many years suffered from \(t\) this will, due to educational lly die out. Selling of hay eatest drawback in some parts cattle come farmers have alk, then feed cannot prefitahly the greatect and most difficult Denartmont of Agrirulture: i Fortunately this extreme


THE FARMER'S ADVOCATE

\section*{Past Winners in Dairy and Swine.}


Artis Mercedes Posch


Hobsland Masterpiece.


Sultan's Raleigh.



Snowdrop

Twylish II.


Tamworth.
ever growing dairy herds and will likely attain much greater proportion as the markets improve, bacon and hams are on the Island in goodly numbers.

Sheep husbandry declined very fast for a time, but the retrógrade movement seems to be checked New markets and new methods of marketing are responsible in many cases. Freedom from disease the increasing of the existing flocks. All breeds well known in Canada, and some that are not so well known are represented.

\section*{The Sheep Industry in War Time.}

\section*{By H. S. Arkell.}

It lis announced that the Minister of Agriculture or France has agreed to the importation refrigerated meat for the period of the war or represents an amount equal to fully twice the quantity of mpat which would be rendered available by the immediate slaughter of all the sheep in Canada. Spuaking conseprvatively, it reprebents at least four times the quantity of mutton and latter statement is arrived at by calculation based upon the following facts,-
Totel killings, mutton and lamb,

\section*{inspected houses-1914 \\ 453,618 head} Mutton, representing 75 per cent.
averaging 75 Its. per carcass yields Lamb, representing 25 per cent.

Total \(\frac{3,969,140 \mathrm{Ibs} \text {. }}{29,485,190}\) slaughte mutton and lamb slaughtered in other manner
than through inspected
houses, representing, it is believed two-thirds that amount .........7 \(4,178,908\) Ibs.
Mutton and lamb
Balance available Canadian
consumption ...........
Sheep imported, 1914
Sheep exported, 1914 ,931 head
Halance available
Canadian

Estimate yie

\section*{Total consumed \(57,656,614 \mathrm{~ms}\)}

In order to avoid any misunderstanding should be made clear' at once that mutton and lamb are not used at all extensively for army supplies.
This fact is substantiated by inquiries, addressed by Australia to the British Government, which and all mutton and lamb from New Zealand, then on the market for sale, was for the civilian popu+ lation. It was also stated that part of the mutton from Australia would probably go in the
same direction." As is well known, all mutton and lamb forwarded overseas must loe supplied in a frozen state and as, when take out of refrigerated storage, it deteriorates very rapidly, much
more rapidly than in the case of beef, the explanmore rapidly than in the case of beef, the explan-
ation of its non-suitalility for army use is sufficiently obvious.
The effiect of the war, therefore, upon the consumption of mutton and lamb is indirect. Its
use and its market status is dependent upon tho
utilization of other meats for the commissarlat and upon the extent to which a shortage may occur through the diversion of the normal meat war. The sltuation in this regard tis "efected in part at least by the following table of statistics
resnecting market prices in Canada and (ircat respectin
Britain.

\section*{The situation, as regards the use and supply} of meat, whica has developed as a direct result rant any extended statement here. One illustration will serve the purpose. Take the case of France. In times of peace the consumption in
France was about \(2,068,000\) tons per year. France was about \(2,068,000\) tons per year
Owing to the large rations distributed to the soldiers and the quantity of foodstuffis supplied to refugees, the increase in consumption to August to 1915, amounted approximately to 286,000 period amounted to something like 125,000 tons the country is obliged to make up a deficit of about 411,000 tons. It is estimated that this shortage has already reduced, by one-fifth, the number of head in the national herd. Moreover and of Belcium Will have to be replenished Faced with this situation France has been obliged to resort to importation. Orders have been given by the French Government in England, covering
240,000 tons of frozen meat, to be delivered between February 1915 and February 1916. This supply is exclusively reserved for the army. In has authorized the importation annually, for a period of five years, of 120,000 tons of irozen meat. have been exported to France from the port of Montreal practically within the last month, in the neighborhood of 8,000 head of
cattle. More are yet to go forward.
cattle. More are yct to go forward.
These facts illustrate, and without exaggeration, the direction which is being given by the be argued, of course, that the demand is for bef and not for mutton and that, therefore, our ut-
most effort should be directed to the development of cattle production. Such a view of the situaparticularly short-sighted one. It has already keen shown and it is widely recognized that small meats fully share with beef the increase in demand and the rise in price immediately resulting from the war. argis fact alone should be admitted as ever, with which the farmer is able to increase his flock, particularly as compared with cattle, pointedly suggests the profit and advantage to
Canada of a definite but intelligent increase of Canada of a definite but intelligent increase of
its sheep supply. Bearing in mind the resources its sheep supply. Bearing in mind the resources should never be transgressed, every farmer may do "his bit" a little bit better by keeping or
adding to his flock. This, no less than shells for adding to his flock. This, no less than shells for
the guns, represents munitions of war. II know thriftily ways by which the country may mor crease the product of its farms than by adding to its supply of sheep.
It must be remembered that shefe farming as People of every class have been led during the of wool months to realize the value and the use difficult to obtain in any quantity and yarn has increased in price from 75 cents to \(\$ 1.25\) a pound. the same manner as the Roldiers' coats much in Canada use the sheep skin to fashion Western which they wear as protection against our, northcountry winters. Wool is used to such an extent
5 n manufacturing underwear for manufacturing undermear and khaki garments keep abreast of war office orders and in Canada
wool has increased in value, within a year, by 12 to 13 cents a 1 tb . At the price now realized. won

\section*{avtrage market pricfs-canada}


\section*{Some Western Champions in 1915.}


Oakland Star


Sir Fayne of Golden West.


Elm Park Ringleader 7th.


Morton Mains Planet


Opportunity


Count Tensen A


Beau Fairy.


Shorthorn Line-up at Brandon

Weeks of August were fom such chores. Then just into horse and cow stables, turnip bin and pigg
the loo.s of the stables will repay one let alone pens and has nine windows. the smill. It doesnit take half the time one saulus, if you naven \(t\) already done so, and y ing the boards, in about six hours or less and UNE WHO HAS TRIED. ing the boards, in about six hours or less and
our barn wall is 34 feet by 50 feet and is divided
The Story of the Live-stock Records. By J. w. Brant. 1t would indeed have been strange if, consider ing the struss under, which the Miorld is striving at the present time, the registration of pure-bred live stuck had continued this year in the same even and progressite sway tiat had characterized it since the organization of the Canadian Na.iunal Live Stock Records System. Yet the disturbance has not been so noticeable as might have been expected. In fact, while the aggregate is rathe less than in some former years, on the whule the doficiency is anything but striking, except in one or two instances. Indeed, the result can be said to show the stability boin of the system and of the live stock interests of the country. bvery year there are naturally variations, and lifferent different from any other, lmportations have been fewer, but that can be traced rather to the dis
turbed etate of affairs in Europe than to any disruption in Canada. As far as the refistrations are concerned, statistics compiled up to as lute discrepancy in the work. Indesd, the two leatling temf brecds, the shorthorus and the Herefords each show a slight incrense fom January to
August th:s year compared with a similar period in 1914. Of the leading dairy Lrceds the Ayıshire, in the first instance, shows an increase, but the Jerseys exhilit a decline. This latt \(r\), however
is nothing remariable, for it mi cht mean, as in other years, that records are a little late in com ing in. In other breeds the Galloway and Aber-deen-Angus, on the one hand, and Frenci Cattle
and Red Polled, on the other, there is a decrease but Guernscys show a slight improvement. A noteworthy feature is that for the first time, Brown Swiss this year make an appearance on the records, the number being 22.
Swine and sheep both exhihit a decrease, the
former to a mar'eef extent duo undoubtadly to the rush to market that characterized the latte part of last year and the early l'art of this. Turning to horses we find that while Clydes-
dales, Shirrs, Belgians, Standard-lrods, Thoroughbreds and Ponies have fallen off this ycar as comshown variation from year to year, Percherons which feil away in 1914 and the French Horses To make
To make a lony story short hene are the figures of the reconds from January to August of this
\begin{tabular}{|c|c|c|}
\hline cattle & 1914 & 191 \\
\hline Shorthorn & 7,117 & 7,157 \\
\hline Hereford & 1,000 & 1,14 \\
\hline Ayrshire & 2,133 & 2,33 \\
\hline J ersev & 763 & 50 \\
\hline Aherdeen-Angus .... & 842 & 69 \\
\hline French Cattle ....... & 128 & 108 \\
\hline Red Polled ...... & 63 & \\
\hline Gal'oway ........ ... & 74 & \\
\hline Guernsey & 61 & \\
\hline Brown Swiss & & \\
\hline \multicolumn{3}{|l|}{\multirow[t]{8}{*}{\begin{tabular}{l}
The numlers for sheep were 1,824 for the first seven months of 1914 as compared with 1,578 in 1915. Of swine the numbers for the same period in 1914 were 8,294 acainst 5,198 th s year, a deficiency of upwards of 3,000. Both sheep and swine mav pick up before the year is out. \\
of horses the records from January to August in the two years stand:-
\end{tabular}}} \\
\hline & & \\
\hline & & \\
\hline & & \\
\hline & & \\
\hline & & \\
\hline & & \\
\hline & & \\
\hline TYPE & 1914 & 1915 \\
\hline Clydesdale & 2,045 & 1,819 \\
\hline Percheron & 332 & 3 \\
\hline Shire & 99 & 47 \\
\hline Belgian & 70 & \\
\hline \multirow[t]{2}{*}{Suffol' Punch
Hacknoy} & 18 & \\
\hline & 55 & \\
\hline \(\xrightarrow{\text { Hacknoy }}\) Stand ra Mr.... & 276 & 178 \\
\hline & 110 & \\
\hline Pony & 202 & \\
\hline & 6 & \\
\hline French Coach
French Horses & 17 & \\
\hline \multicolumn{3}{|l|}{The total of all live stoc' records from} \\
\hline \multicolumn{3}{|l|}{January to August this year is 21,598 acainst} \\
\hline \multicolumn{3}{|l|}{of which swine and sheep are resoonsible. \({ }^{\text {a }}\)} \\
\hline \multicolumn{3}{|l|}{The transfers for the same periods, indicating
they do to some extent the volume of husiness.} \\
\hline \multicolumn{3}{|l|}{\multirow[t]{2}{*}{as they do to some extent the volume of busines will also he found interesting. From lanuary}} \\
\hline & & \\
\hline \multicolumn{3}{|l|}{gust in 1914 they totallud 10.741 agai} \\
\hline & & \\
\hline
\end{tabular}


English Live Stock News and Views.

\section*{all kinds of breeds are the chief events of the} Down ram. Jrite. For the hire of a Hampsiire has paid 105 guineas and that has been an averhave been paid for rams bought outright.
At Totnes, the South Devon sheep have been
solling freely and when a ram ownud Sendy, Lis eard, went for 60 guineas, that breed
l'ody Suffol: shee; are in universal request and are admirable crosses for mutton purposes. At the
Suft \(1 /\) Soci ty's she p s.le in Ipswich, 90 gu neas Were paid for Herbert Smith's ram that was
second at the Roval Show. A neighbor hat and Smith bought his neighbor's test ram-a sort Onford Down rams are selling at 61 guineas The 792 head of Hampshire Down shezp owned by the late Lord Rothschild at Tring Park realized
\(\dot{\Sigma}, 183\), or an average for the lot of \(£ 4\). The 66 Beef Shorthorns are selling well at public auction. Thirty-one head of Glloucest at pubhire-hred
ones, owned hy F. A. Beauchamp, at Bath, ones, owned hy F. A. Beauchamp, at Bath,
reali et \(£ 1.588^{\circ}\) or \(£ 51\) apiece. Eirnty-three
Ch-sire.
opular in that the dual-purpose Shorthorn 240 guineas given by sir Giluert preaid was bartington Constance, full of cranford whod 10 r Farmers in many of our sport-luving counties have \({ }^{1 \text { rotereited loudly against the stupyage of }}\) they are lusing money upon the Thoroughbred 1 hese are rendered useless on aicount of racin sto.jfing. Tne Government has bien urged to ma. e purchases of young stock or to induce in private hands, by olfering urizs to retain then shows. As ii the Government hasn't a its own worries ahead
In the purent Aberdeen-Angus Cattle Societs there are now 542 members and a ban \& beleze the new . Captain Claud Ralston, Glamis, is To the K. A. S. E. fund that is to help the French farmers in the stricken lands 'twixt Marne Couthdown Me. M. King Geor:e has given five of that breed \(\mu\) iven by lovers of the Southdown re heing urwently shipped to Franc
George Leigh, a one time big buyer of the
Hercford when the game boomed on two continents, has begun to get busy again, consequen upon our councry being declared free of toat and mouth disease. He has just sicure.l for a Kenthirte'n cows and their thir een calvcs. and ten heifers. The Royal Show winning hull Renown,
and the 1915 Royal Show Chamnion cow, Olive and the 1915 Royal Show Chamnion conf, Olive One of the very few s.ows left in the Old at 13.uc.Lura, in the heart of an industrial fine all-round exhibition. The Shorchorn bull champinship fell to C. W. Kellock's Jack Tar,
a while, thic \(1 y\)-fleshed, and fill of character Ere a bull can win a championsh'p at this exhibition, he must be shown pad retained by his
br edr. This dive; the rch man who buys evervthing he se s a rare knock. J. C: Toppin's and her dam, Briyht Jewel was reserve. Th champion dairy cow was lord rucas' Charity heroino. Char'ty 23 rd gave 41 Ths. 9 the Royal The nremior Shire mare was .J. G. Williams
Halstead Duchess VII, which headed a ring full of brond mares with foals at foot, making ne of Fnrland. Trift gel lings made a fine array and the Shires of immense proportions. One pelding sinwn was a Totton-bred one that cost his original huyers at that sale \(£ 2.000\). He turned out usolrss as a stal'ion and was "al'ernd" to
wor'k in the shafts of a farnuer's c•rt! Anters arain came out strong hut hreefing Hactneys were mi sing from the hreeding cl-ss s but there a nowenmer frnm Aylesbury was loaded with W. Mar'in-Mnore, a Cumber'and hraeder. has
renn elocted Pr-sident of the En 1 'sh Shorthorn The Tondon Smithfield Show is to be held as Clatm For canadian Cattlife tv fingland. An a itation is taking place, all over England
and Contland. as I write, in favor of Canada being al'owed to send store cattlo to Rritain, snon he a shortace of heef sunnlirs keenly felt. far as to ants for Canadian cattle ha e gone so parlev. In the House and he hos sonctioned the parlev. In the House of Commons ton, the sub-
iect has henn rrised and Mr. Acland re lying on
hiehalf of the fovernment Prosident was not. at the moment, prenard to intron"co the legtislation that would re nocessary cattlo admitted from o'er the seas. and that was in regard to tho improtation for slaughtrr at the port of landing of fat cattle was Canada. Mr. Acland derlaren that ther carofullv considering what arrancernents could be wharves for the meception of such cot \({ }^{\circ}+1 \mathrm{le}\), this rerent years. having practically ceased durd Tho suhient. of cattle dicease is the homey at nodiurend stnck are afraid that cintaminn may be Trnicht owre. The conticuitv of ranada to the At a hie farmera' meating held in Norwich
produce is to be met consistently with the de seasonal trade that its success is contingent upon great difficulty in getting forward their raw
proasing supplly of agricultural labor. At present weather conditions, and that neither Nature nor the British farmer is being placed upon the horns of an agricultural dilemma. sthe Governmen," as Lord Kitcher puts it, and the farmer asing soundly rated because there is a suspicion
abroad that the agricultural element have not enlisted in anything like the same proportions as other sections of the commen to grow more food for man and beast. He is told plainly enough that he must do much more than he is doing. His answer is sometimes difficult to counter. "I
cannot do both things that you demand. I cancannot do both things that you demand. I cannot let my sons and my servants enlist, and at
the same time grow the increased crops that you demand, I cannot do both: whic' must I leave undone?", A doctrinaire . finds the answer easy.
But he usually forgets that agriculture is a
the Weather pay much attention to the ups-anddowns in the labor marnet. Agricuiture largely a. man needs to serve a long apprenticeship in order to plough and sow and reap and mow, but it dues mean that he cannot do these things without being taught how to do them. Labor-
saving inuplements of all kinds are in keen request, yet experience does not show that such implements should be taken up suddenly. Trials are much more uscful than examinations of motors or other machinery at rest, and th9 proposal to hold such trials of motor tractors in cordial upprobation. Implement miakers as a rule are just as careless about attending and exnibiting at showis as
any other class of the community. They have
great difficulty in getting forward their raw
material and oftener greater difficulty in getting away their finished article, and always grave reach their distination and waen. It was really this question of transport which cast a glom
over the proposal to hold the H. and A. S. Show. o er the proposal to hold the H. and A. S. Show.-
It might lue all right, but it could just as easily it might le all right, but it could just as easily
be all wrong. No one could tell what might have happened had there been a great battle and trains conveying wounded men been hurrying over the rowds would have cot scant consideration under these conditions, and therefore it was perhaps being wise aftcr the event, but that sort of wis dom is not available while the events to which it applies are still future. SCOTLAND YET,

\section*{When the Herd Comes Home from the Show.}

Feeders' problems are many; fitters' problems centage of barren females and impotent males is and forcie it to remain in the pasture through are more It is one thing to get the herd ready found amongst animals whicia have been fittopd cold, protracted rainy spells such as are more or
for the exhibition; it is another to fead and und refitted and after each fitt:ng let down less frequent after the shows are over. manage it from one exhibition to the next. With rapidly in flesh. A great deal deppends upon the quality of feed plenty of feed and judicious care, it is not a We are discussing particularly the influence of given as to whether or not show animals become difficult process to put flesh and finish on a beef care and attention after the show season upon regular breeders. A very dry ration is unfavorable animal of the right type. True there is a the breeding propensities of the herd. Any herd to impregnation. The breeding animals of the certain amount of what stockmen call the fine art of stock of show calihre should be more valuable herd, after they have returned from the show and in getting that extra quality of finish by which as sbreeding stock than as exhibition or advertis- after grass is gone for the season, should get a
champions are known, but, as a g ner al thing, a ing stock. It is from this kind of topnors of d'et containing sufficient succulence and one which man with average intelligence and a love for live their respective: breeds that the stockman hopes to tends to keep the digestive system in good order. stock can soon learn to feed animals fat. It is improve those breads. One of the main thincs, There is a very close relition between nutrition not so easv to let these animals down in flesh then, especially with the younger stre'r, but also and reproduction. Of course, care must be taken and still preserve their general health
and fecundity. Analyses show us that in actual constituents the ani-
mal is very little different from the mal is very little different from the
plants upon which it feeds. Wach has its comt,ustible and incombusti',le materlals differing very little the on
from the other. Nature has pre pared the complex feed which the ani mal renuires and in letting the show stock down in fesh after the exhibi tions are over the first thing to re
member is to follow nature and fee member is to follow nature and fee
the stock as closely as possille t the manner in which under natura conditions they would feed them
selves-milk for the young stock and grass for the older animals. A good mizture of pasture grasses affords basis of the fond material usod, bringing the animal back to field condition. There is a point also in the fact that mixed grasses are bet ter than one grass alone. Thi
should be remembered when com pounding rations during the winter season of dry feeding, and variet and mirturps should be depended up single plants.
reached the climax fitting, which ha flesh when the animal enters th show-ring, some change must come
when the fight is over and the vic when the fight is over and the vic
tory won, otherwise the breeding value of the herd will deteriorate Feeding young or older animals con tinuously as heavily as they are gen erally fed in preparation for competi tion in our larger show-rings wo"ld
soon force them into a plethoric con dition. Overloading with flesh, and is practicly is this the case where it to cause diminithed year, is bound must be counteracted fecundity, which exercise, even though it is necesary to orce the animals to move about A smaller diet is also required lighter feeding must be made gradu
ally. Male or female animals which ally. Male or fentale animals which ren being prepared for show purposes
year after year, may sometimes be restored to normal condition through
a judicious letting down in tlesh, and
 not to feed so much succulent feed tion of the bowels is produced. Avoid, after the animals have been
let down in flesh, feeds rich in carbonaceous materials and fats, and encourage the development of muscle and tissue by the use of plenty of sired ture they may be let down in condition to very good advantage by the use of soiling crops fed either
inside or in a raddock. If this system is followed each animal should run loose in a box stall and have at least five or six hours outdoor exercise in a large padock. During be
time, this outside exercise could be given to best advantage at night. Kept inside in this manner the caltle may get a little better attention keep their coats in good condition by currying and rubhing down. This
will heln in the chance from show feading to ordinary feeding for breeding purposes. fed and if the stock have been getting the heavier grains such as corn stimulative feeding of proprietary feeds or certain fatty by-products these should be gradually dropped and their place taken by some of the
coarser grains, particularly oats. There is no better grain feed for cattle than oats. Esuecially is this true of the younger stock. An that wheat l,ran, clover hay, and cut oats is one of the best combias
tions he has ever tried and this tions he has ever tried and good
should be the basis of a very gor ration in changing from show-yard feeding to ordinary breeding-herd feeding. Of course, pasture grass
will very easily take the place of the clover hay and the oats could he cut sheaves. As winter comes on,
roots or silage or roots and silage roots or silage or roots and silage
should form the bulk of the ration,
tocether with clover hay all they will eat, and the necessary grain
feeds compozed mainly of oats to
mape thereafter, provided they are not again fitted to with the older animals, is to see to it that the high state, go on as regular and fre quent re- get sullicient exercise when they return to their it it is necessary for the stockman to know his
producers of their kind. \(\Lambda\) ny changes which are home farms. The animals, while being fitted, are cattle thoroughly and to study the re uirements
 not good practice with a highly fitted, well-cared this show time arrives. After the shows they are animal will not be enough for another and yet
for show herd to return from the shows, and be inclined to be lazy and may not move about too much for and and the season. It is not conducive to increasion As a general thing, however, if they are given so. cattle actually gain in flesh on a heevy feeding of fecundaty to malio such violnt chan res, and ani- free run of a pasture ficld they will tak. suffic ent cattle were not, in the beginning, in show-yard a pasture feld they will takn suffic'ent cattle were not, in the beginning, in show-yard
are should be taken in turning them condition. We have seen other cattle that would
have not been throughout the summer ma'se very little gain on a heavy feeding of roots
to feding make very little gain on a heavy feeding of roots great deal depends upon the animals, but we wish

oãer a prize for any but registered male animals in the breeding ciasses. Boards of lirectors are argently reyuisted to cards only for such lireeds o live stock and other lines of furm prodicis as are best suited to the locali tos in whin fairs are betd. This Ydea of specialt ing is a most important one. If a/fair is huld in a iairy sec ivn, one oatsarmer in that locality shou d teep ad other than that particular treed. Great fethony \(w\) buld accrue from adop ing \(t\) is \(m\) thot, especially in the use and exchance of male ani dals. The same is true of grain and potatoes particularly. When a section bertain lines of stock and tield crois, in re buyers will congregate for the reason that car toout lots can be purchasid at a mininum expenditure of time and effort.
Marked improvement has be n seen in recen years in the grounds and buildings, and here it might be noted that exhibition nothin; should meet his eye that would be offensive in any Par-
ticular: The grounds and bun in bright, clean and attractive, ample s`ating acommodation houd with little children tugging at their rown, ond for t
A few years ago the gambler and thimble riger were regular visitors at the fairs of Ontario and thousands of dollars were fle ed from the pockets of unwary farmer boys who could and thriongh the hearty co-operat on of the direc orsi of arairs in their crookedn sc, and will no longer be allowed to work unchre an in larious gambling devices. No Government grants will be given to exhinitions, the cirectos or whic within 300 yards thereof

Surprise is frequently expressed by visitors at and exhibtions, especially in in allu, that the old-time splendid exhiwis of agricuitural maindeed, were they in the past when they were con tinually surrounded by large cronds of in erested pear to any extent at Clanadian exhi icicn, there has scarcely been a show of any im, o tance in Great Britain or on the continent in recint jears, at which there have not been targe exhins of
Canadian farm implements. How s a lanadian farmer to select the best machine if he is no opportunity of comparing one mase with ano her at the mercy of glib-tongued agents, and the on who can put his case hest is genera ly the one who makes the sale, and this at a whe every are requi ins of industry before purchasing The implement man facturers of Canada should not, as in this connection, be found turning back the hands of the clock.
In recent. years imprurement is taling place in the putting up of grain dind lince. Ne:er nelore in the history of Ontario bace e.hi i'ors at fairs a exhin in having e ery department particularly incide the maln halls, nuatly and tastefully arranged
At fairs and exhibitions oppo tunitiss are given to complare difierent classes of stoc: farm
products and improved machinery, also many pur chases of stock and, particularl, of ure seed grain are effected. The preparat on of li e stock
and other agricultural products for exnl.tion is itself of educational value, and watc ing the warding of prizes by expert judges is if decine ment of children's exhihits of school work chickens, grain, roots and flowers has a end nny to develop a pride in farming and is vaided endeavors. beriefis that accrue from the ass m'liny to gether at exhais:ions of frients and o heres enonged in the same work who seidom mert a
other times and who thre Evchan e ideas and
experiences. These all have an ele experie
dency.
Never before in the history of this country

\section*{Agriculture in Timiskaming District.}

\author{
Betwen parallols 42 and 46 lies practically of the Prairie Provinces. Furthermore, a settler
} all of what is known as Old Ontario. Here for can eat his supper in his shack at home, take the many years man has been pling his trade in all tranc and arrive in the capital city of the Proorganizaus wavs that comprise the sistive grown are sullicient to link New to Uld Ontarto and nto villames, viliages into towns and towns into dissipate the erroneous conception regarding the cieties, and such has been the developmunt since location of that part of the Pro ince which ofters that the Province of Ontario with its 407,262 in return. and vields immense revenues to the square miles is known ly the proportinnately colntry throuith its mills and mines. we of the small area which lies between the ia'ludes older-setrind fictricrs have 1 s'en-d wisn wurder already mantionen. have endeavored on the platform and through the and battles for existence. The rioneer is fighting


An Up-to-date Barn in Timiskaming.
This barn, under construction, was photographed on the farm of A. J. K marvelous anfl, as yet, uncomprehend d possibili- eler, thire are still Sudtury Alsoma, and northwest of Iake the great contry orth Inunder hay, kerth of hem tho District of Patricla lakes. Northern or New intarin, as it is fre- large enough to be a Province in itself. This quently calldi, has an area of \(\mathbf{3 3 0} \mathbf{1 0}, 1100\) square article is mot intended to discuss at length the 20,00 ), oon arras of firm iand areas, and the richest silver and nickel mines in trict of Timiskaming.
the world. Adrled to this is the nower, of the FARMING ON THE GREAT (LAY BELLI making the a wrurces and makin The exnressinns "Hinterlnnc" and "creat North Land," which have been usiful in bursts of

the is imerated on on f the cloyn limits the T. \& N. O. Rethway, a ind around cially to the nerth, are some of the best farins to be tario. The coumiry is still very young n a the settlers y well to establish themselves as they ave, but as years tendency to keep and maintain the fertilicy of the soil. The writer is cog
nizant of all the front such a systeul of farming in tis
Timiskauing \(D\) is \(-~\)
rict, but farmo
now ten or fitteea years of age are
in favor oridence argument. The best crops can nut be obtained argument. The best crops can not be althougb price for his products when f \(\epsilon\) d to live stock, y
the increased yields procured where manure is used, if only in small quantities, will more than balance the vearly operations in favor of the There is a difference between the settler and the farmer. The tormer is clearin' h's land. selling pulnwood, and growing what cro s he ma ind consistent with his work of making a living

\section*{} to the fal developed
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their
located \begin{tabular}{l} 
located \\
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\hline
\end{tabular} in this of cance of
ultiinatel \begin{tabular}{l} 
Belt was \\
It is \\
\hline
\end{tabular}

SEPTEMBER 2, 1915
THE FARMER'S ADVOCATE.

\(\qquad\) It is stated that hallf a minhon bushels of oats trict. Consider aloo the demand for hay that
would correspond with this amount oi grain, and the reader will realize at once the tumpta ion to
dispose of farm products directiy. Furth rmore,
there is no organization of buyers and shippers to handle live stock as we have in (HA un ario, two li, e-stock, associahuns have veen organized,
and. they are using a pure-bred s allion, tull and ernments. These organizations should in time cooperative manner. making it pos ible for the would require considerable capital, but beef cactle
and sheep could he housid whith reasona. le expense, and counery. Alhough we cannot ad ocate a
to the coul adoption of stock farming in the dis-
universal trict at present, yet we look fo"ward to the day is established on a sane basis

inces. Furthermore, a settler
in his h \(\begin{array}{ll}\text { in his shack at home, take the } & \text { "bushmand who prefers clearing and br-a ing to } \\ \text { a the capital city of the Pro- } & \text { the routine of accuas farming, ue is che une who } \\ \text { breakiast. These two facts } & \text { goes before. Next wil somecimes come the spucu- }\end{array}\) breakiast.
ink New to Old Ontarito and
eous conception regarding the
rt of the Pro ince which ofters rt of the Pro ince which ofters
man who will give his eforts
lds immense revenues to the
a mills and mines. We of the ir parents when they recalled
vs and told of the hardships
tence. The rioncer is fighting
\(\square\)Onta"io, b
which to procure seed that would be hardy writer never witnessed such alfalfa seed as the crop showea on this farm The greater part of the secd was treated with nitro-culture, int a without being liocut be, could fail io not.ce the ifference in favor of the treated seed. This set tler of early Timiskaming days has now a large farm to show for his qourteen years of labor in he pioneer country, labor that was not lightene by the advantages available to the present-da mer.
bout twenty years ago E. F. Stephenson moored his bark canoe near the mouth of the Wabie River, and with two men and a fetr of the
mest necessary utens.Is set out to hew his way into the forest. Last year the spring whea scoring highest in the Field Crop Competilion een reclaimed from the will and brought under ultivation. Seventy-five acres are now arable, and thirty more acres are cleared and used for pasture. Some years ago Mr. Stephenson erccted plank-frame barn 36 feet by 46 from a plan which appeared in For the purlin plates sticks of timber 8 inchcs by 8 inches were used instead of plan'ss nailed to gether, which he considers materially strengthen the building. On a southern slope four acres o four years it has heen cut twice annual'y. This crop has been considered a success on the farm解d this year a westerly slope has boen sepded somewhat as an experument. an occupation in town so thettle and six horse are maintained to keep up the fertility. The ac companying illustration indicatrs the quality of a crop of spring wheat seen growing on the place, which for length of s

THE DEMONSTRATIUN FAAKM
In order to test varieties of farm crops and ecure information relative to all the various phases of agriculture as applied to the district demonstration farm is being operated at Mon eith, wh . He . Clemens as superintenden ditions are fully tested, and any varietics strains that do well at Montelth should prove hardy throughout Timiskaming where farming is eing carried are be cases perhaps the results will be of a uera tive character, but these are quite as valuahle many times as those of a favorahle nature. I is important to determine what crops an methods are not sulta nate them, giving plaed grains grown on th plots are sold at a nominal price to seitlers Pure-bred stock is also maintained, and the oft pring sold in the same manner. In ad vition this an excellent bull is rept in connection wit vicinity. More acres are heing constantly adde 0 , the clearance, and rarords of all the rosta clearing, stumping, hreaking and tilling are ta'ucan be disnensed regarding the opera'ions connected with farming. A ten-acre feld of red lover grown this year was exemrlary of the Where live stock is not kent in large numbers the armer cannot overionk the imporcance of thi wonderful plant, for upon it derer.ds tho stren.rth t bees for Ontario wos one of the smoll aniary ent at the Montei'h farm. Throurhout the season these husy bpes patherell 147 rounds of honey, and from Juna 28
hive gathered 102 pounds.

Those engaged in acricintural work have the Nixon is nnw in chnreg of the wort in that conumry orcanizing carrving ideas from one-farmer uited to the district and how they should be handled.

\section*{THE DAIRY.}

Cleanliness the First Consideration in Mechanical Milking.
During the past forty years something or 200 patents, representing different types of milis ing machines, have been taken out, but it is onl a little over two or three decades aso cos by the public generally, and dairymen in particular. The milling machine, as we know it, is very recent invention, and it is only during th past four or five yoars that its installation in up to-date dairy stables has been at all common.
There are four types of mainines now in use which Prof. Archibald, of the Central Exper mental Farm, Ottawa, classifies as: (A) Those having intermittent suction, no squecte to ta teat and no vacuum in the can; (B) those having those having suction, pulsation, and downward squeeze, with the squeeze caused by the vacuum and (D) those ha ling suction, pulsation and no squeeze to the reat. It is not our purrose discuss these different types in this article. so w leave the ich is the better method of mechaniaul ly drawing milk from the cow.
A well-known English writer gives six condstions which must be summed up to determine the real value of the milking machine. These are simnlicity of construction, durarinty of rart intensity, and cleanliness, Readers will notic that cleanliness is pluced inst. W'e brliere that the order should be reversed, particularly in view
 Canadian Ayrshires sanitary milk and milk products is increasing rapidly in this country. Clean:iness should be cepting the mil ing machine. We have recently beard of a few complaints regarding the milk de-
livered at cheese factories from herds where mechanical milkers wire used. in se eral cases the off-flavor was traced directly to the miling these but when more care was ta en to teap these machines sweet and clean the objectionable
flavor disappeared immediately. We wish to make it plain that it was no fault of the machine, but was due to carelessaess or a misunderchine. The fact that the milk was all risht as Soon as better methods were followed in caring
for the different parts of the milker demonstrates conclusively that good milk can re surp li d from sanitary operation of hand milling. Those dairymen who miling duction of the cream senarator ha e mo difficulty in reealling instances where a similir troutle occurred in those davs. A great deal of the diffi-
culty was then directly due to the misleading teaching of agents to sell the machine. Natural h. one of the first aluestions asked hy a farmer or
his wife contemplating the purchase of a cream
separator, was, "is it hard
if in the harn
horourh washy;
and gterillaling the
utensils which come
n con act wilh the
here cl:anlineas
with the mechankeal
has boen found that machine with enl water and af erwards water the bacterial count in the \(m 11\) l will be trom 200 to 500 times as greal ul hand mill caro pranticed, mil whereas he r e the muchine parts which solue inmilk are carefully and then washed with hot water containing
good wathing soda and this followed by
as possford for the washing and did it, as littl same trouble 'with the mechani al niliser io this able to the same cause. Every ag nt or machin man who handles any ma,e of n:il ing machiue that it is absolutely nucassary thit the ho the machine which come in contact in karts of with the inilk must be kept sweet and clean way all times in order that the highest quality of milk may be produced. lt must be remembered certified milk with machine milking sanitary or certified milk with machine milking than by hand
milking. Tests with this have been mate Ottawa, and where the washing and sterili ing machines was practic d to the lest of expert know ledge, against the most sani ary method of hand milking there was, as a rule, less than one-thing produced milk as in that \(p\) oduced the hands milking. Sometimes when the machine was not thoroughly cared for the bacterial count in the milk ran up as high as ten imes the number in hand milking. it must be remeribered, however that the hand milk producrd was murh better
than that turned out on the average farm, cause all precautions were taken with the hand milking. We cite this case, not to make a poin against the milling marhine, for with care there is no difficulty in producing high-class milk for cheese factory, creamery or city sale from a herd home to readers the importance of thoroubs cleansing their machines earh dav, in order tha offeravors and hich bactertal content may not be found in the milk
There are several factors which must be co sidered in proclucing good mil!, namelv: claanij ness of the cows; purity of 'ho rir in the harn,
thorough cleansing and the sterilizing of all rubber paris in a 10 per per cent. formalin solution, Ifine-water :olution, 5 72 lhs., salt 10 lbs., and chlos a..e of lime \(\frac{1 t}{}\) it, will give far more satisfactory results; and wial
the other general precautions the bacterial count of real good hand milking. Where chloride of
lime is used it must be added freaus 15 . It is this point of washing and sterilizing the parts of the machine which come in coniact wilh the milk that we wish to emt hasive more s rongly than any other. We have vi se er sal farmis pon which the various types of mil ing ma-
chines are in operation, and we found on these farms no complaints regarding the machines, and, on three visited in one day, where three different makes of machines were uscd the \(o\) inion expressed by the owners was that if they had to
do without the machine they would do without the cows. Most milking-machine operators give the parts of the machine coming in contact with the nillk only one or two thorough washings a weokome wash thoroughly once each dav; none that, but all rince the parts out and keep them in water or in some solution. At one rlace we
found the parts in a wooden bucket containing salt-water solution, hut care had nont reen taken onds of several of the tubes protrud d. Besides, dairy authorities tell us that a wood n :nall or dairy authorities tell us that a wood most sani-
wooden bucket of any kind is nnt the marts in a
tary place to keep mil'ing machine pat mor

FOUNDED 1866
SEPTEMBER 2, 1915
depends on rinsing the remainder of the time.
The parts are kept in a large wooden tub, fresh
beliere the mechani al nilacr is trace-
cause. Hivery ag nt or machine any ma, of nilling machine h come in contact in unv of way
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ing good nil , namelv: clanlipurity of the sir in the harn;
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and sterillaing the andensils which come
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milk, and \(t h i s\) is milk, and
where with the mechanical has been found that machine with cold
water and af erwards
with luke-warm water the bacterial
count in the m 11 k will be trom 200 to
500 times as great
as where good, careas where good, care-
ful hand milling is
whereas, where the machine
parts which some into contact wi \(h\) the
\(m\) ilk are carefully and then washed with a good washing soda, thorough cleansing
with the brushes If
Ine-water : olution, \(4 \xi\) of lime \(t \mathbb{t}\)., s; and with chloride of the parts of 8 rongly
ral farms of mil ing mar machines, and, o inion exdo without the parts a week.
 them in 3
3
3
3
3
3 containing een taken The water
sterilizing material is used in this water. At
third farm we found the parts in a proprietary
solution in a large galvanized tub the solution,
according to the dairyman, being changed every
two days, but it had a distinct odor and did not
seem, to be at all suitable for keeping down bad
flavors in milk. The parts themselves conveyed a distinct odor. However, no complaints had
been made about any trouble with the milk. We
wish to point out that it is, in the ppinion of
those who have gperated machines, necessary to
the of the
milking machine which come in contact with the
milk twice class of milk is to be produced. Even
the best
where this is followed there should be from the machine a saving of at least 50 per cent. in car-
labor necessary when milking the cows and car involved in keeping the machine clean that in-
dudes the dairyman to do as little washing as
possible. All producers of milk may not be
anxious to put on the market certified milk or
milk approaching the cer:itied standard, buc, we
believe that every man producing milk for a fac-
tory or for city use is anxious that his milk be
a high-grade article. This being so, doss it seem
reasonable that a thorough washing once a week
is enough, coupled with rinsing after each milk-
ing? It would seem that more frequent washing
is necessary, and, in keeping the parts in solu-
tion, always be sure that they are all covered
with the solution, and be careful to change this
sterilizing material frequently. Even clean
water, kept standing for several days in a vesssl,
will absorb odors and become bad. Any milk
partieles adhering to the machine parts tend to
increase this trouble. Care must also be taken
to keep the cows' udders clean and prevent the
teat cups from dropping to the floor. In this
connection it is alwavs well to have the stables thoroughly clean before milking commences. Good
ventilation is necessary that the air in the barn may be as pure as possible, and the s irring up
of dust while the cows are being milked or just previous to their being brought to the stable
should be avoided. Wi'h these precautions, care taken, with the miľ after it has been removed
from the units, a thorough washing and cl-ansing in the sterilizing solution, there should be no
difficulty and no complaints about the milk from the milking machine. This, in the opinion of
dairymen who have been following closely the dairymen who have one of the most important
milking machine, is one
considerations in connection with this operation. Of course, the first consideration the darrygives to the proiect is in connection with the
economy of it. If it will save 50 per cent. of the labor, even where the greatest care is exerbe little complaint in this direction. We have we visited a short time ago to prove that the
machine is considered by those who use it economical and efficient. On no one of these
farms would they do without the mechanical milker. On one of them no stripping whatever is
done after the machine. The night before we saw in a belated harvest, his wife brought in the herself without any of the hand work well known ing. This in itself proves that the machine is
simple in construction, and, as no stripping i simple in construction, and, as no stripping is
done after its work more than to work the teat
cups a little at the finish, its efficiency is uncups a little at the finish, its efficiency is, un-
questionable. The cows are not falling off in
their milk flow a nervous cow, which could not well be milked ryy
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THE FARMER'S ADVOCATE.
 tle so far for repairs
While point out that old rubber tubing, rough. and again, however, emphasize cleaniness in its tively smooth, is used. There is a point in this tubing which is worn out an \(\qquad\) is used for other purposes as well. Some do the all such odd jobs in the household and around efticient service, than in any othir achivity in
the barn with this engine. This helps cut lown polint of view. There may be carried into agrithe actual expense of installation.
By mentioning the fact that a woman or a cuiture the same selfish principles that have made
commerce synonymous with greed and Wall Street

\(\qquad\)
\(\qquad\) machine included in
 In the fields he sees
 than anywhere else
the unalterable laws
of nature working for of nature working for
the benefit of human-
ity. In the forest he can sit with the
trees and God as his auditors a nd dis-
course upon life as he can do in no other ing of che s un inering of the st or m
awes him, the beauty of nature charms
him, the joy of life
consoles him. I cannot get it out of my tur a 1 must in all
cases be superior to
the artificial. I canthe artificial. I can-
not escape from
man who lives in in any operation, and the milking machine is no the belief that the man who lives in
exception to the rule. Ihe operator must be closest touch with nature, other things being
thoughtful, intelligent, and must understand the equal, will, be the best man and have the
machine, and particularly the means of keeping it broadest view of human life, human activity and
 ing machine standing in the favor it does so have tried to express, will be the leader of ing districts, we believe that the greater part of and the conserver of wholesome politics for the the milk produced, will, in the very near future,
be drawn from the cow by the jmechanical milker. Like the automobile the milking machine is here which will come to it, increase in efficiency and popularity. There seems to be no doubt in the thin, half-staryed condition Moay seem to think of machine worked and have talked with those that the dairy calf must not be fed very much years, but that the machine is efficiont and is cive to heavy milik production. Fead the calves production of this counitry. Many owners of ma- well and do not worry if the young heifers get a
chines state that, with no after stripping what- lith. If they have milking breeding then ever, the machine mills the cows drier than fhe they will soon milk down when they freshen and to strip after the machine in order to keep a heifers raised on scant rations with poor care.


\section*{POULTRY.}

Poultry Housing and Poultry House Construction.

\section*{By F. N. Marcellus, B.S}

The housing of poultry is no doubt better understood now than it was a few years ago, yet much remains to be done. It is not necessary impressed with the fact that bad housing and environmental conditions existing on many farms are responsible for the poor returns many people are get
ons.
It is altogether too common a sight to visit Winter months, and find the droppings of th preceding year still in the pen. This, coupled with the presence of a heavy coating of frost on the pen, certainly presents conditions far from boing sanitary, heatthful and conducive to the best returns from the flock. It is often difficult to understand why many people clean their regularly once or twice de the poultry house once or possfbly twice a year The best-bred birds obtainable, will not produce under such conditions. The droppings should be removed at least once every two weeks, and if
dropping boards are used under rooets they should dropping boards are used under roosts they should thoroughly cleaned and white-washed with lime white-wash containing ten per cent. of some disinfectant as crude carbolic-acid, and applied pre
ferably with a force spray ferably with a force spray
receive sunfiticint attention as this is possibly the most important factor to be considered in the housing of the birds. The presence of frost on the walls of the pen during late fall and winter
is one of the surest indications of poor ventila tion. The moisture-laden air must be carried of from the pen and replaced with dry, fresh air, thereby keeping the pen in a mone sanitary conwithout cousing interchange of air must take place Without causing drafts in the house as drafts are
highly conducive to the development of colds and roup, just as is dark, damp, comparatively warm quarters ideal for the development if tuberculosis. We should, therefore, aim in constructing houses for poultry to have them as bright and airy as drafts.

In the accompanying illustrations are shown plans of two poultry houses. It will be noticed that the houses are both along the lines of the open, coor type ance house embodying these features is undoubtedly best, as the returns which are secured from the birds in one similar, have beon better in numbers of eggs, health of stnck and hatching power of egrg in the spring, than where
birds were housed in the warm closed house. It has allo been further noted that frostIng of combs of the hirds is not nearly so comwarmer, damp, woorly-ventililated house as in the temperature goes below freezing.





Ground Plan.
Fig. 2-House for 50 Hens.
Fig. 1 gives the working plans of a house hundred hens. This house is 20 feet by 20 feet, 4 feet 6 inches high at the back and 3 feet high
in It is built of single-ply boards 8 inches or 1 inches in width, dressed on one side, but no tongued and groved, and 3 inch battens over the cracks. The roof is first sheathed with a good roofing paper. The paper is preferable to goo shingles as it is more durable on the flat rood The house is built on a concrete foundation and has a floor of the same material which is raised highest point. The filling for the flopr at coarse stone which prevents moisture risin feet by 5 feet floor by capillarity. A window 4 house and feet is placed in the west end of the east end. These reet fleet 6 inches in the spring and summer when they are opened for greater circulation of air in hot weather. The radting is of 2 inch by 4 inch material; the a ridge 2 inch by 6 inch and are supported by sumported by a post in the centre of the pen. It will he noticed that the front is only covered
by 1 -inch mesh wire netting 2 feet in width while an 8 -inch board at the foor and 4 in h by 4 inch
plate take up the balance of the 3 -foot front. the talance of the 3 -foot front.
"mesh
 The roosts are placed along the north side of the
house and the nests in the spaces vetween the
roosts and the window, and door. The ncsts mas be in one tier or built in two tiers, one above the other. The large opening in the front whene a line east and west throurh the town of Barrie may be covered with a drop curtain which should In fif, 2 is given the plan of a house 12 feet is built with a double pitch roof, 6 feet 6 inches
from foundation to eave and 9 fent 6 nches from



East End
foundation to top of roof. The foundation and Loor are of concrete and the walls of singlepeph glass windows cotton curtain of the same size are placed on the soulh side. A pair of duors are also placed on tne souch side and can be opened wide in warm or mild weather thereby converting the house into
an open shed. The doors open outward inside is covered with wire netting as is also the space outside the curtain, the latter being on a ward and hingee at tho lop so as to open inwhich is used in tending the tlock the east end are put in above the plates, co.ered with boarde or poles about 4 inches apart and a foot or more of scraw is placed on the top of these. The stram oft assists in keeping the house dry, especially dropping board is shown in the are opened. A dropping board is shown in the plan and may be
used or not as desired, but if used must be cleaned daily. Roosts are made of 2 inch by 4 nch material placed at 12 -inch centres. If dropping board is used it should be 30 inches from dropping board. If no dropping board is from aw roosts should be 30 inches from floor and In constructing a house for a flock of twenty five to thirty birds one much similar to the one just described would answer quite satisfactorily 14 feet with double doors on the front and a and shown in side of these as described above ments for a flock of this suld meet the reguire house might be turned with the longer measure. ment from front to back which would enable one to
In the reosts farthen from the front. sides should be perfectly draft proof. This is especially important where tip house is of the open-front or curtain-front type. It must also be ne nusted that where using either type of house the house at the one time, as two windows, two doors, window and door, or two curtains, as draft develo manipulation there is bound to be a kent free from dust else they will lose their

The Last Great Fight.
she wa'kes ! and the clang of arming echoes The ring of warrior's weapon; stern music of In the world there be many nations and there gather round every Throne
The strength of earth-born armies, but the sea is As she ruland's own, she still shail rule nt, from As Plymouth to Esquimault. As long as the winds are tameless, as long as This may be our Armageddon
Seas may purnle with blood and flame
. What a matters there have heen none like us nor If we any to tame our pride we shail fall as they fell, die as our fathers died,
- seas that bred us shall reck If we sink with the Jac's still floating nailed to
the Nation's mast. The Sea Queen Wakes," hy Cant. verses anillipps. Wolley, in "The Colonist," British Columbla.

\section*{The British Farmers' Chance.} . This is the hour in which the farmer should come to his own. What he needs is not more pacaction, but the opportunity to take out ory gre
land all that it can possibly produce. Every
on land that can be utiliived to that end, The game repeorer should cive wav to the shepherd, and an effort be mado
to put sheep and kine on every acre of lind that
will will carrv them. Foxes shorld ro, and every facility he afforded for the extended production of

them the game it would only fix it in their minds chairman; Mr. Justice McDonald and Sir Hugl and from past experience I knew that the guns John Macdonald asked to fix a broken gun and I decided that it ould course. While it well to let the war game run had a visitor and I was delighted to sec that they soon dessrted the guns and went bac's to
their automobile. The visitor seemed much more their automobile. The visitor seemed nuch more noon the automobile raced around the place with
a two-boy power engine, and kept at it until it a two-boy power engine, and
was too dark for them to see
of course a moral attached story like this should have would not want to deny the children toys but
Ithimk the most important thing of all is to let them have odds and ends with which they can could show that make believe game dovelop the imagination and would teach the
children to make practical things as they grow chindren to make practical things as they grow
up. Anway, I am convinced that they get more
real fun out, rearthing eut of their male-believe than out of
and this allso they are not so very

The Manitoba Scandal Report Perhaps the most unsavory page in the
political history of Canade is that containing the unanimous report of the Royal Commission Parliament Buildingss scandal. The charges madp were found to be true and disclose a colossal
and brazen plundering of the treasury and the worst was perhaps all uncovered. The total amount raudulently over-paid by the late govern-
ment to the contractors was \(\$ 822,963.64\). It was Yound that contractor Thos. Kelly was shown or
told the amount of a tender from Montreal and was given a day to submit his own a few payments on the caissons and steel contract, and agent (now in France) set the amounts to be with an clection tocontracts for campaign funds of the late goction immediately pending. Members keeping a material witness, Mr. Sred thense, out of the
jurisciction of the Come names of Sir Rodmond Roblin, Mr. Howden, Mr. Coldweil and Mr. Armstrong, the commissioners
report that "none of these minister compissioners \({ }^{\text {none }}\) any these ministers gave your
assistance in shortage which they assistance in proving the the to exist, but Sir Rod
know moni was in common cause with the contractors to ressist the discovery and took an active part the purposs. Messrs. Coldwell and Howden were equally reticent about dislosing information were
fuil to our investivation." The Commissioners close their report with a recommendation that the Governmant Auditor be made inclependent of the which has been perpetrated in conncection with the
 Toront

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} EDUCATIONN: of

\section*{Autumn Magic. \\ By Louise Imogen Guine}

Soon as divine September, fushing froin Peers from the whole wide upland into eternity,
Soft as an exhalation, ghosts of the Never a poet saw them but ached in wh a poet saw
baflled heart.
Oh, what a nameless urging through
 - everywhere :

Sonse of a feared
to be won
arma to teed upon

Flame is lying in heaven, the down on Earth the cool hillside
- conceal the Bride.

Cheap and Convenient Summer Dwellings
A friend of mine, who is a back-to-the lander, though not a regular lake in
lives on the shore of one of the lakes the highlands of Ontario much frequented by tourists. He and his wife profitable occupation in summer in cater of summer people in rather a unique Pashion. That is, they do not run a
conventional summer hotel or boardingconventional summer hotel or boardinghouse, where most of the guests sleep number of what they call "camps," which are really a compromise between a tent and a cottage. All the guests take their meals at the house, but spend much of their time and sleep in their
several camps.
Originally, they proseveral camps. Originally, they pro-
vided tents, but gave these up for various reasons, such as their heat in the ous reasons, short life, necessity for re-
day-time, shor and atorage at end of each sea-
moval and stan moval and storage at end of each sea-
son, entailing the same trouble with son, entailing the same trouble with
bedsteads and mattresses, occasional leaky roofs, and difficulty of giving suffi-
cient ventilation at night without letting in mosquitoes, etc. The substitutes give satisfaction. The first is a sexagonal structure, each side being six feet six inches. Height from
floor to sill six feet six inches. Roor (o pitch) is composed of one of the
composition materials now on the marcomposition materials now on the mar-
ket. Sides are all of hemlock slabs, ket. Sides are all of hemlock slabs,
cut with the bark on, six inches wide. Floor is 'of inch boards. Three sides opens upwards on hinges. There is no glass. One side is left for a doorway. Across this are hung curtains made of
heavy, brown duck. The inside of door heavy, brown duck. The inside of door
and windows is protected with cotton mosquito - netting. As for cost, if he was putting one up for anyone else, he
would charge \(\$ 100\) to cover material would charge \(\$ 100\) to cover material
and labor, and his own trouble. of and labor, and his own trouble. OP
course, a handy man putting one up for course, a handy man putting one up for
himself, could do it for much less.
sides
real. These tent houses are set by themselves It is true that I have not always met ear the lake shore, so quiet and pri- but if I bad, what should I have more vacy can be obtained, yet, when the oc- to look for at other turnings and other cupant wishes, be can emerge from his hilltops
solitude to mingle with the merry throng The afternoon of my purchase was one Such methods could be adopted by When Horace put me down at my gate many farmers located near lakes. They I did not go at once to the house; I many farmers lacated near lakes. save to the owner and his wife, did not wish, then, to talk with Harriet. and are full of the next-to-nature idea The things I had with myself were to


The Camp.
compromise between a tent and a cottage.
so dear to the heart of the city-dweller. important. I skulked toward my barn And sometimes the farmer, who has no compelling myself to walk slowly until
time for much reading, only needs the I reached the corner, where I broke into suggestion of the tourist to set him to an eager run as though the old Nick

Browsings Among the Books.
THE JOY OF POSSESSION
[From David Grayson's delightful brook,
Adventures in Contentment," publishe


Cool Spot for a Hot Day.
might swell with dignity and impor So I started at the fence corner thet through the pasture, keeping close to my boundaries, that I might not miss single rod of my acres. And, oh, it was a prime afternoon! The Lord and red trees-and yellow fields- hd the distances above the far-away town And the air had a tang which got fato And man's blood and set him chanting all

\section*{I climb that was a clod,}

I run whose steps were slow.
reap the very wheat of God
That once had none to sow
So I walked up the margin of my presently I began to examine my fences MY fences-with a critical eye. I considered the quality of the soil, though in truth I was not much of a judge of such matters. I gloated over my plowed
land, lying there open and passive in land, lying there open and passive in
the sunshine. I said of this tree: \({ }_{4} I_{t}\) is mine," and of its companion beyond the fences: "It is my neighbor's." Deeply and sharply within myself I dreis the line between meum and tuum: for
only thus, by comparing ourselves with. only thus, by comparing ourselves with
our neighbors, can we came to the true realization of property. Occasionally I stopped to pick up a stone and cast it over the fence, thinking with some tructlence that my neighbor would probably
throw it back again. Never mind, har it out of my field. Never mind, 1 once, with
had eager surplusage of energy. I pulled down a dead and partly-rotten oak stub, long an eye-sore, with an important feeling of proprietorship.
anything
I
liked.
ifarm mine. How sweet an emotion is possession ।
What charm is inherent in ownership ! What a foundation for vanity; even for the greater quality of self-respect, lies
in a little property of the excellent wording of the old books in which land is called "real property" or "real estate." Money we may possess, or goods or chattels, but they
give no such impression give no such impression of mineness as the reeling that one's feet rest upon soth
that is his: that part of the deep earth is his, with all the water upon it, all small animals that creep or crawl in the holes of it, all birds or insects that fy in the air above it, all trees, shrubs,
flowers, and grass that grow upon it, all houses, barns and fences-all, his. As I strode along that afternoon I fed upon possession. I rolled the swoet morsel of ownership under my tongue.
I seemed to set my feet down more
firmily on irmly on the good earth. I straight
ened my shoulders: this land was mine. I picked up a clod of earth and let it crumble and drop through my fingers:-
it gave me a peculiar and poignant feelit gave me a peculiar and poignand soand
ing of possession. I can understand
why why the miser enjoys the very physical
contact of his gold. Every sense possessed, sight, hearing, smell, touch, At one corner of my upper field the
lence crosses an abrupt ravine upon eggy stilts. My line skirts the slope half-way up. My neighbor owns ene
crown of the hill, which he has shorn until it resembles the tonsured pate of a monk. Every rain brings the light
soil down the ravine and lays it like a soil down the ravine and lays it like a hand of infertility upon my farm.
had always bothered me, this wastage;
and as I looked across my fence I thought to myself:
'I must have that hill. I will buy "I must have that hill. I will buy
it. I will set the fence farther up. I
will plant the stope. will plant the slope. It is no age of


\(\qquad\) tisappointed. He did not say, "you they were as much his as mine. And
he spoke in his own world, knowing that he spoke in his own world, knowing that
if I could enter I would, but that if I could not, no stooping to me would avail either of us.
"It has been a good autumn for flowers, I said inanely, for so many things
were ayying through my mind that I could not at once think mind that I particular wörds which should bring us cogether. At first I thought my chance had passed, but he seemed to see some thing in me after all, for he said: "Here is a peculiarly large specimen of
Observe the deep purple the rudbeckia. Observe the deep purple
of the cone, and the bright yellow of of petals. Here is another that grew
the ondy
handy two feet away, in the grass near handly two feet away, in the grass newr
the fence where the rails and the blackberry bushes have sha
and undeveloped it is.
"They crowd up to the plowed land," observed.
"Yes, they reach out for a better
chance in life like men. With more room, better food, freer air, you see how
much finer they It was curious to \(m\)
barely ubserved the cone-fowers along my fences, save as a color of beauty, how simply we fell to talking of them as though in truth they were people like
ourselves, having our desires and possessed of our capabilitites. It gave me
then, for the first time, the feeling which then, for the first time, the feeling which has since meant such varied enjoyment
of the peopling of the woods. "See here," he said, "how different the character of these individuals. They are
all of the same species. They all grow all of the same species. They all grow
along this fence within two or three but observe the difference, the petals, in the roportions of the cone. What does it all mean? Why,
nature trying one of her endless experiments. She sows here broadly, trying to produce better conealowers. A lew she plants on the edge of the field in the hope that they may escape the plow.
If they grow, better food and more sunshine produce more and larger flowers." So we talked, or rather he talked,
finding in me an eager listener. And finding in me an eager listener. And
what he called botany seented to me to ductio. of birth, of growth, of repro flowers became sentient creatures under \(m y\) eyes.
And thus the sun went down and the distant low spots, and all the great, great mysteries came and stood before me beckoning and questioning. They
came and they stood, and out of the cone-flower, as the old professor spoke, I seemed to catch a glimmer of the true
light. I reflected how truly everything light.
is in reflectied
anything. in truly everything anderstand a cone-flower he could underroad toward the Explanation.
Always I hope that some traveller may
have more news of the way than \(I\), and sooner or later, 1 find 1 must make in-
quiry of the direction of every thoughtful man I meet. And 1 have always
had especial hope of those who study the sciences: they ask such intimate a vain-gloriousness which places its faith in human theorles; but science, at its
best, is humble belore nature herself. It kneel upon the earth, in the way of my simplest questions, hoping for some true
reply. thought, after his years of work, of the
Mystery; and finally, not without conusion, I asked him. He listened, fo the first time ceasing to dig, shake out
and arrange his specimens. When I had stopped speaking he remained for a mo-
ment silent, then he looked at me with new regard. Finally he quoted quiet y, but with a deep note in his voice : "Canst thou by searching find God?
Canst thou find out the Almighty unte
\(\qquad\) that there was no God. I dismissed
Him from the Universe. I believed only In what I could see, or hear, or feel. I talked about Nature and Reality."
He paused, the smile still lighting his He paused, the smile still lighting his
face, evidently recalling to himself the race, evidently recalling to himself the
old days. I did not interrupt him. Finally ebruptly
"And now-it seems to me-ohere is As he said this he lifted his arm with a peculiar gesture that seemed to take
in the whole world. For a time we were both silent. When I left him I offered my band and told him I hoped I might become his friend.
So I turned my face toward home. So I turned my face toward home.
Evening was fallinge and as I walked I
heard the crows calling, and the air wis heard the crows calling, and the air was
keen and cool, and I thought deep thoughts.
And so
stepped into the darkened And so I stepped into the darkened place so well I could easily get about. place so well I could easily get about. soft, expectant whinny. I smelled the smell of milk, the musty, sharp odor of
dry hay, the pungent smell of manure not unpleasant. And the stable was warm after the cool of the fields with a
sort of animal warmth that struck into sort of animal warmth that struck into
me soothingly. 1 spoke in a low voice me soothingly. I spoke in a low voice
and laid my hand on the horse's flank. The flesh quivered and shrunk away from my touch - coming back confidently, warmly. It ran my hand along his back and up nose in my hand. "You shall have your oats," I said, and I gave him to eat. Then \(T\) spoke as gently to the cow,
and she stood aside to be milked.


University of Leiden, Holland.
 milk into the house, and Harriet said in cousin Jau van Hol, asking him to be "You are late : have kept the biscuits warin."
And that night my sleep was sound.

Our Serial Story "THE CHAPERON". By C. N. and A. M. M,
hapter XII
RUbOLPH BREDEROUE'S POINT OF
(Continued.)
My mother sent me to oxtord, because
Leiden, and for the five after-years the rooms have been lent to a cousin, studying lor his degree as a learned doctor the time for him to take his degree and I hoped that I might be able to show my friends (and one Enềmy) a few things in my old University town which

The tea-things had been washed up, Miss Van Buren managed to exclude me) had ended in no definite conclusion, when umerable green canals in Leiden.

None of you seem to know what you want to do first, last, or in the middls,"
ventured to remark; "so, to save time, perhaps you'll let me offer a few sugestions. 'I've told Hendrik to !etch a
cab, and he's gone. When your carriage cab, and he's gone. When your carriage
comes. engage rooms at the Levedag Homes. engage rooms at the Levedag glance at the churches, and go to the Stadhuis. You'll like the spire and the century, when we were prosperous artistic; and over the north-side entrance there's a chronogram inscription concerning the siege. I can't go, because I hope will be a success, But I'll meet you in the Archive Room at the Stadhuis, where you can admire the paneling till I come. I won't keep you
waiting long; and then I'll take you waiting long; and then I'll take you over the Cniversity Buildings.
there, you know, as a student."
By the time this plan was arranged
hat of the person of everybody except
that of the person I wished to pl ase,
Hendrik had arrived w/th a cab, and five

\section*{he thought that she could take no in-}
plans. His Promotie dinner, the ing off of it, would be in the roundwith various ceremonics in would last from now until two or thrd what I mad wanted, However, I told hime dinner at his diggings for a surprise from "Lorelei,"" with him to arranty details while I played guide, and to ake the part of host for us at elght
Could he surgest would look after the thing in hise who Van Rhonda or Douw, for instance? But van Rhonda and Douw, it seemed, But the Paranymphs, or supporters of the ewly-made Doctor, and their time would All my gld friends who were left would be at the Promotie dinner, but Jan was entrusted to the biness might be safely get flowers, go to the the would get fowers, go to the hotel to order
whatever I wished, and even superintend With this. With this 1 had to be satisfied, for in the midst of the discussion appeared the ept Jan, and the hero to know what uthlessly carried off between them was had to do the best I could; my old land lady had not forgotten me, and I was When I had scribbled a depend upon her. of some rather odd dish m, s, sketched ing. idea for the table decoration, and an a few other hasty instructions, I dashed off to keep my appointment at the stadhuis. On the way I consoled mywind which blows nobody good. I had en bereaved of Jan as a prop, but 1解 of him and his friends of Leiden, and I would take advantage of my knould take of the usual program on such fes
tive nights as this for the benefit of my friends. I arrived at the Stadhuis as
the others took their firs the others took their first
look at the oak Archive Room. There was just one other room
in this most excellent and his. toric building that I wanted was a Tapestry Room, among other Tapestry Rooms, of n
importunce; but I remembered her fantastic desire to "live in the stained-glass country," try garden in which I felt
sure she would long to wan-
der. There sor. There was a meal of it, and I had ben conscious in
other days of a desire other days of a desire to be a
tapestry man and sit with the merry tapestry lady smiling there. All tapestry p.ople look
incredibly happy for in tapestry etiquette it's bad form to be tragic. Eve Even their battles are
comedy beat can see by the faces of the war-horses that they have a strong sense of humor?
but these particular tapestry friends of mine were the gayest I ever met, and I
wanted Miss Van Buren to make thelr acquainta make their To reach the room, through another also representing a tapestry world, we had to perform a dreadful surgical
operation on the abdomen of emperor by opening a door in the milddle of it, and, as the mariner said, the size of the next room gave the same sort of shock that Jonah must have had when he arrived in the whale.
If I had shown her that tapestry gar-
den, Miss Van Buren would have feigned den, Miss Van Buren would have feigned
indifference; but I left her to Starr, and from a distance had the chastened pleasure of hearing her say to him the
things I should have liked her to sey
```

to me.

```

Afterwards I swept the party away to the University, preparing their minds to
expect no architectural splendors. "Leiden is our most famous unt
versity" versity". I said. "But we have no
streets of beautiful old colleges, ne love ly gardens. You see, oxford and Cam ly gardens. You see, Oxford and Cam-
bridge are universities around whlch
towns have gathered, wherpas Leiden was a city long before william the Silent gave its people choice, as a re
ward for their heroic defense, of free

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Hope's Quiet Hour.

\section*{Hymn for Airmen.} Lord, guard and guide the men who a,
Through the great spaces of the Be with them treaversing the air
aly, In darkening storm or sunshime fair.
Thou Who dost keen with thender Thou Who oost keep with tender migat
The balanced birds in all their flight Thou of the tempered winds be neif,
That, having Thee, they know no That, having Thee, they know no foar.
Control their minds, with instinct Control their minds, with instinct att.
What time, adventuring, they routt. The firm security of land Grant. steanfinast eye and skilful handi: Aloft in solitudes of space
Uphold them with Thy saving Griace o God, protect the men who fry
O Through lonely ways beneath the elky.
M. C. D.
H.

Thine Is the Kingdom. Thine is the kingdom, amd the power,
and the glory, for ever. Amen, - \({ }^{\text {Thine }}\) is the kingdom, Lord |

In glad subjection at Thy feet wo bow.
Our rightul Sovereign Thou, and only our rightuul Sovereign Thou, and only Thine is the kingdom, Lord \({ }^{\prime \prime}\)

Let us steady our trembling hearts, in
these days of world-wide distrees these days of world-wide distress, by ro-
membering that the familiar worde membering that the familiar worderesa
have said so many times-otten cartes ly, perhaps-are true. It is TRUE that God is the Almighty Ruler over all the kingdoms of the earth. An emperor
may feel himself very invinotible, as he
me looks at his armies and guns, his submarines and airships, but he is only a man like other men. At any moment
the angel of doath may touch mim and the angel of death may touch hitm and
whisper authoritatively: "Thy houl is Whisper authoritatively "Mhy soul lad
required of thee." Then he must atand alone-weak as any other man-to give
account of his stewardship. account of his stewardship.
'The Lord is our King;
.Till save us," said a Jowish prophet; and if Ho
was the King of the Jews, much more may we claim His Royal proteotion, for
through His wondrous Incarnation-th King has become near of kin to ws. KESUS declared that all power in heaven and earth was His; and those who call themselves Christians bring diabonor on
His cause when they talk hopetesily His cause when they talk hopelessiry
about the present condition of affarr. The kingdom and the power belong to our Father. We may be bewildered by
His silence when the helploss and tinocent are tortured and killed. So the
Holy One on the Cross looked ng through the darkness and asked why He had been Yorsaken. That in goes up.
tortured children of God still
Wouthut We do not know the answer-yet-but
our duty is to follow our Master and commend ourselves trustrully into our conthr's hands. He did not wait until
Fthe pain over. until God had thown
then the pain was over, until God had ghown
His Face. In the darkness he groped for the Heart of God and rested there sulfering, yet peaceful.
It
is absolutely that the thost High rules in this world, in groat mat-
ters and in small.
Perhaps trouble thas ters and in small. Perhapp troubt tho
has come into your life through the
wrong and injustice of men, and sou
 and He has permitted the trouble to
come upon you. In the story of Job we are taken beinde the scenees of a
drama of earthly life. There we see Satan permitted to do his very worth against a faithful servant of God. Job passed through the furnace of affliotion
 heard of God, now his eyes were opened to the Vision of His Face, so that his
own righteousness of life seemed paltry and contemptible as compared with the
awful Holiness of God. it have heard awful Holiness of God. "I have heard
of Thee by the hearing of the ear: but
 prosperity had been sumdenly swept away





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us be real-not sham-Christians. us be real-not sham-Christians.
"'There are very many who, professing
full belief of all that can give worth and hope and seriousness to a man's life, yet yield their joyless hearts to sloth or sullenness, as though the love
of God had brought no call to strive, of God had brough no
no strength for victory, no hope o
glory among the trials of this life." DORA FARNCOMB.

News of the Week

Six thousand two hundred harvesters left Ontario for the West to help in har-
vesting on Aug. 24th.

The Western wheat crop is estimated at \(275,000,000\) bushels.

Orillia, Ont., during one week, raised \(\$ 15,000\) to buy ten machine guns and three motor ambulances.

Maj.-Gen. Sam Hughes was knighted b the King, as Sir Sam Hughes, K.C.B.

The Russians have stripped the cou plies that might be of any use to the plies that

French aviators are continuing their
raids upon German cities. where poisonous gas is manufactured, was one of the points attacked during
the week. the week.
Shrapnel, so called after their inven tor, the British General Shrapnel, are
thin cases of tough steel containing a large number of bullets-in the British artillery 263 and in the French and Ger-
man 300 .


The Farmer's Best HelperHis Wife's as Well! Mr. David Linton, Ransom, III. says: The Cushman is the best engine for all work on the farm.
My wife uses it as much as My wife uses it as much as I do.
Have never put hand to washer or Have never put hand to washer or
separator since I got it." The
Farm Cushman
AII-Purpose Engine
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\hline \multirow[t]{3}{*}{\begin{tabular}{l}
Is on the Job the year around for any power worls anywhere, any time, and operates any binder. The
Original Binder Engine. Light welght and com. pact. Weight without base, 168 lbs . Delivers full Bconomy Tube in Schebler Carburetor gives pit. 2-cylinder \(6-H_{1}\) P. up to \(\delta 0-H\). P. Engines. \\
Don't buy an engine of any size till you have seen our catalog Cushman Motor Works of Canada,Ltd. 283 Princess St., Winninns. Man.
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\author{
hon. W. H. HEARST, Premier
}

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She will
Lay
All risht

Don't wònder whether your hens will lay. Decide that they shall lay Eggs come naturally in winter, if you supply the food hens get on range in summer.
Remember, in summer your hens eat meat in the form of grubs and insects You must supply them, then, with meat in winter then, with meat in winter
 Britain are at work making shells in in the
and ammunition shops. In the rural dis-
tricts children of twelve and over have been drafted to help to take the places of the 150,000 tarm laborers who have joined the colors.
According to a writer in the Milan Secolo, one of the reasons why Bulgaria
has so long hung in the balance, in a
as so way as puzzling os irrilating to the war-
ring nations, has been the curious fact
that her ofticiol

Lying Grain Lifters For Binders

entirely Germanophil, while her rural population has been so Russophil as to
place substantial hindrance ag inst their
marthing naginst the torces of the then Tace substantias hindrance ag anst their
marhing aganst the forces of the TTsar.
tpon the whole, while the officials have been bargaining in regard to possiblo
gains, especially the coveted possession If Macedonia, the mass of the people, to a fell years ago, have been averse Mrs. Ellen G. White, who, with her ventist Church, died recently at Battle Creek, Michigan, at the age of eighty-
eight. The church was Instituted in
1853 . and now ching 1853, and now claims thirty-seven pub-
lishing houses, seventy collegee, and

© "The Chaperon."
(Continuad trom page 1406.) THEE good tor us, I sid. "Helpe bod sproed with me, and it was mise Van Burcen's optriton that nono eeve The Sonato Boom, which Nieourr wrote at, foumd favor in beer eyses; but efter the Univerity, and it was only six 0 'clook. There were two hours befora the surprise dinner; soi, without gllinag moy merot amaty \(I\) suid that, it wo put
 sunsot.
The Laeckennaile and the Burg wer merer namees to them, as lew serraps are Arome to olthor pinco by the gulde books, but so dalighted were hhey whot Spimert;s Guild and the martibe in the courryerad that I could harraly get then nosido. Once within, Starr mate Misa to haver reapectod and linger belore ithe thinge if hadn't intended to point out. But 1 was not thocked at her fippant solight in a guiant repreanetation o orture th heil, nor was 1 stirred bis van det wert oftering, his arm ae: tood or the otarving poople, rather then sur
 here didatate tor the the paintug, howevor, she would not haer mo doecry van dider
vert in tavor of em opsures. engineert, ataly discocereced eas the trie hero of the diege. Van der werf should not be smatched trom her by a man ahe chane crocheryty during the whole time spent among the relics of the siege. She Elired at the eacuepan retriveved from The Spanith camp as it ahe would have apanhe of denying authenticity to the
 the dykee when a worm made Holland
tremble as
Philip of
Spain could never do: nor whould she forgive me van der
 mean, and children worked their fingers ond debonved reatorng theoping the wirm their doors. I never yiolded her opint, all the hhating Starr ot her. But in the trrt. \(y\) Hengitst, \(I\) and \(m y\) mounions zere \(t .\). goten. She wented to bo let cllone
 roots of the ctity, through the itiles
reat of the sunset. fur the feet if 1 nesul \({ }^{1} \mathrm{mg}\) bargea.
Noveritheles, ahe did delegn to aak how. It the way had been opened for the sea
 me as she had looked at starr. while I told how the thing had been done: how the water that hooted wham theor tor
 wouth at the tight time sent the waters
 Schiodam north as far as Lleten; and
how no sooner was the city naved than bow no ooner was the city saved than
the wind changed, calling bock the the

THE FARMER'S ADVOCATE:


Cownis
Perfection
Outflanks allothers.

The real joy of having good bread is realized by those who use

> PURITY fLOUR

> More Bread and Better Bread

FOUNDED 1866 Re walls of the fortress mo sai ascendant
and then, with Star
auiet ain, we stron quiet streets, crossing strole
nals spread with solts groe
bridee . But we were not gren carpets asked if they would carout dim a bribe that oliver hant to ited there and coliver Goldsmitith eager to climb the steen to make with a my opening the door as anduad them to wondering; bying to an oak-walted room, dim lured hing to instructions, no lamp of
had been lighted, but me a large screan wrapped round to trusted gorn, and I knew that
good old Mervrou I struck a match from my ows ox, and as the flame fared up
number one was scored. It tashioned Dutch tamp-lighter oof
to which I touched

 \begin{tabular}{l} 
tick, the first notes rose to \\
what a loyely room ! Wha \\
\hline
\end{tabular} easts, what a wondert Add-white nalls to h. Id on ty is you soond
armed yourselt armed yourself! Whyou 8 ood
nests of drawer,. What chairs Biden underg were a typuate, theal room
aduates to explain that it it man.
call it typicali; that
 till, the lodgings were typical of Che tadies had exhausted thefir
es, they grew curious concersin ent, because this the that the man ht of his Pronistie diappened to be
was free to do the honer, but
Im TM sick with enty of the fel)
 ists and hrasses, We we beetter go needn't go inner." way," said I, jerkscreen aside. Behind it, was
had hoped would be theros id for five, with plenty of nice
hd silver, and banked with plat roses. And Aanked with plaris
the sightody ex. two waiters from the L.evo
had been biding their time for lack magic," said Aunt Fay. ". Lamp in your pochet. \(\begin{aligned} & \text { How } 1 . \\ & \text { hadn't left Tibe at the }\end{aligned}\) hotel. or is served sir," announced ond any arm.
t can't be for us," objected Monon

\section*{C \\ }
nd bags eight.

SEPTEMBER 2, 1915
"Te's for no one else," said I. when he's never se. nus, and we've n. ve, son hin \(?^{\prime \prime}\) Miss Van Buren appeal.d.
But it was I who answercd. You see him now," I confessed. chese are my rooms. I lend them to
cousin, but I've kept the right to cousiu, As for the dinner, it s my aner, and it will be a huiniliation to , if you refuse to eat it." These words were meant for her, and here could be no mistake. Red spoke, so her cbecks. She bit her lip, and hat she would have answered or done left to herself 1 shall never know, for thin the arm of her arm coaxinyly d, with a laugh, to make it seem at ail three were jesting-
"Why, of course she won't one of us would forgive her for spoil别 our pleasure. Come along, Nell." and sensible girl she really is hen she has not been driven to \(d\) fance blundering young men; and we sa own to eat the best dinner that Leiden whe truly Dutch had been Norgot n, but the most brilliant success wa ot the plat on which the chef would have staked his reputation. ng. more nor less than the dish iversary of blessed memory. add was, three hundred and thirt yously home from a flying visit ran Syously home from a flying visit to arrots and potatoes mixed togethir in
otch-potch therefore with hotch-potch does Leiden to this hour celebrate th
Great Relief, eating with thanks? And my guests ate with compliments. njoying the idea if not the food, as if whad grilled herrings with mustard, on oasted bread, a quaint conceit which and distributed to the poor, because was with herrings and bread that the
Dutch, boats. coming to the relief o 1 managed to keep the party long a ho table, and when the Chaperon pro-
posed going, I looked at my watch "If you'll wait," fur half an hour. you something rather special, on the
way home-something that can't be seen Then I tonld as his greut day, and how, without be ng invited, we could share the fun. Paranymphs had donned evening dress, mart carriages (the horses' heads nod (ing with plumes) to the railway sta onther, sisters their principal's father he party had thand pretty cousins: hin here Jan had received them, ha lot long before we arrived at the Un arsity, Jan had gone through his to ore the examiners with his relative present; how the ladies, after seing the
own, had been ungallantly Jome, before the best fun began. How
Jan had returned to cast away his ovening things at the time when most
people think of putting them on, and
uash to the sum add mow him, and at a bigy and fri. nd soon to be covered a with round tally the University) had handed the new
Doctor his officin! appointment, in re dinner had hegun in speech-making the ansic, with an adiournment aftrr the had been cleared and cisears when the ta 1 ody had marched li, leark to risk th it
liven by eating have had to ing his friends mal.. his "palaver," thankhonor; and how, "hile he was spealing
the waiters woull napkiin at the
napkin, but

THE FARMER'S ADVOCATE:
415


Not smooth city boulevards, but rough country roads settle all doubts of which tire is best

That's why Goodyear Tires have won with the farmers.
For they're built in perfect balance." The All-Weather Tread is made double thick and the "carcass" beneath extra-strong to support it.

And the beauty of Goodyears has made them the favorites on boulevards, too.
Top-Place In Four Years
These five features are all controlled by \(\mathrm{us}-\mathrm{no}\)
ival tire They protect against all troubles except mishap
and misuse. Four years ago we began in a
hese tires at B,wmmanville, Ont

Prices Reduced 37\%
At first some ran a Goodyear with a rival tire on \(\quad\) Yet Goodyear Tires cost 37 per cent less today than
the opposite wheel. Those early Goodyears, by their
ear-when men bought as
many Goodyear Made-IaCanada Tires as there are cars in the Dominion.
Yet the Goodvears of today excel those earlier ones. For we have added betterments new methods.
Protect in 5 Ways

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With All-Weather Treads or Smooth we did not make so many. As our output multiplied reaucing factory cost per ing to Goodyear users. We gave a third reduction in spite of the war tax on al our raw material.
Some makes cost less because of cheaper methods
and materials. Some cost more because of small out into Goodyear Fortifitd T'ires. They guard against put. But tigured on cost per mile Goodyear Tires he worst attacks a tire en Aysinst Loose Jreads Ants, Against Brand Against Punctures aud Skidding. Any dealer can supply you. Ask at once for our THE GOODYEAR TIRE \& RUBBER CO. OF CANADA, LIMITED Makers of Truck, Motorcycle, Carriage and Bicycle Tires and Rubber Belts, Hose and Packing:

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all "arlington collars" are good but our Challenge brand is the besi

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This is one of our most popular styles-in fact Range. It is made with high warming closet as illustrated, or with Persian Cluset or Tea Shelf. Here it is shown with a capacious Reser-
voir at the back for use where there is no voir at the ba
running water

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ends. The ventilated, thoroughly insulated oven bakes food to a turn, with sur, risingly little fire. The whole front section lifis for convenience in toasting, bro ling or adding coal. Taking it all round. the "Premier" Leader is
a source of pride and pleasure to every woman a source of pride and pleasure to every woman
who has one.

The "STERLIIG" Washing Machine Will Last a Lie-time
because therè is nothing about it to play out. Except for the wo rden handles and wrinzer board, the body is
made throughout of heavy, rust-proof Galvanized Iron,
 hile the less are bla.k japanned steel, well brac-
ed and ri id. The body cannot shrink and leak,
nor the legs work loose and wobbly, like others made of wood. There are
no gears, no dolle, agitano gears, no doll e, agita-
tor or moving part ins.de tor or moving part ins.de
to wear and tear the
clothes clothes The whole body rocks rubbing the clothes over terior, and setting up a powerful suction that
forces the suds through the garments and cleans
them surprisingly quick.


Premier " Ranges have earned a great reputation on these four most important points : saving fuel baking perfectly ; being easy to work with and regulate ; and standing long, hard service.
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Riding-Fishing-Motor Riding-Fishing-Motor
ing-Drivins-ShootingCamping out-there nothing ilike a plentiful apply of the Dainty
riesh Mint-flavored resh Mint-flavore \(\mathfrak{C b i c l e t s}\)
hen Building-Specify MILTON BRICK milton pressed brick Company
as to the necesity of four wetrewar.


 To Joh Paterson, of Li reaparirements
Sconts,
Scond, is
 a Flemish stallion on Scottititor maing
and producing the foundation
taterat


 Tarmer preterred pertiction in thot teat
and logg to a heavy, compact



 Stat argely on account of a sentimem
that will live long where the blood


 Iound on any dratt horse than on thion
Percheron."
The obsi ruations upo which the statement is hased mere oporb
ably made in France and the Untee



 The Cydasalal leads in Canade, the
Percheron in the Unitud Statesi whit

 body and ability 10 move extramely
heavy loads. The Bolrin ia
 Fiven apace, and though somewhat tlow
\(n\) naction its
great weikht and gtrentit make tor it many friends. Canadiand
have staked a mood deal on onallys the have staked a good deal on quallyy the
breed that can show that attributo the best advantage has a promithnis

> beef cattle.

Cattle are kept for milk or bet while
some bread are renuted to be bervice some breeds are reputed to bo eerrice
able tor both.
Reel and dairy bread are numerous, and here again it might
semm strange that so many diferat
 the same eumanal
some peculiartites of type se, some charac terisicic, some prodominating teaturo ion
oach that recommends it to to the stodid each that recommends it to the tithody
man.
The great number of Shorthore or Shorthorn grades throughout Cam-
ada is the best recommenation \(\&\) hroed Can posibiby have. So thorough, of ferr
seeing and so correct in juggement were
 Amos. Cruick khank in thir roveding
Nothods and aims that we have in the breed that tendenccy to flesh that feed
ers admire, end the name of Bates ich still coupled with the miliking propenstht ties of the Shorthorn which eleanak then to an unchatenged postion among
other beef breeds in this regard. Thef
 ties or geraizang purposs the shorthom
dam is still in ingh repute.


 ity and unitiornity of color. in theer

 siteration. Feeders also admire
whito-acace steer for the thentil or teding

 horn blend well for this purpose.
Aberdeen-Angus cattle are fast growia


 Angus bull as head of a herd of goon
grade or purebred Shorthorn cows on many forms. The Angus in the pure is
also used for this purpose because od
ald



FOUNDED 1866
the necessity of four wellretab
breeds of heavy horsses． breeds of heavy horses．whilestab
draft horse a di． prefer one breed to horse？Whather to to measure up to all bread ior tap supe and，iaterson，of Lanarirementits Counts roducing the on found contish for nsing
 der the breed has in the bern bexinning r preferred pure，for the mainnained o us has coneavy，componet boed the modern Clydy
with trapome the quality trapy action，cl an bornen an an was found in
al mber other breeds of（＂ydesdale argely on account a avy horses sotia flows in where the bllod in uite distinctive＂The legs sand the shapely and well－developed feet draft horse than on the
．＂The obs rvation
statement e in Frant is based ware ond orob
but western and rench breed thesentative of pros Arafty animer the Percheron is recommends on the legs，a feature
reed to eron in the leads in Canada，thi orily explain．Many preler the
Lither bee wh．
Mase of the hen d ability the heavy framer and a maximum of weight wepthint th its great weight and strength
it many friends．Canadin Canadians advantage has a promising

beef Cattle
\(\qquad\) breeds are reputed to be service
for both．Beef and dairy breedi umerous，and here again it might
strange that so many
are are required to supply practically
ame demand．Howeve the peculiarities．of type，some charac－
ic，some predomine recommends it to the stoch The great number of Shorthorn．
thorn grades throughout bly have．So thorough a hreed． dling correct in judgement were rics．，Bates，the Booths，
俗 aims that we have in the
ndency to flesh that and the name of Bates is with the milking propensi－
Shorthorn which elevate． challenged position among eeds in this regard．The解斯 for early maturing quali－

\author{
，quality of flesh，and
} a place in the sun．＂Johy the early Engtish bretdery－ iformity of color．In these
breed ranks high，but ITere－
specially desired on the ranch
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\) －Angus cat tle are fast growing
Sine the onty－beef in－
avor．
passed through the period might be terined the ind
and has become an estantished有 is able to see an Abordeen－ as head of a herd of good
purebred Shorthorn cow on on
s．The Angus in the pure is Tor Angus in the pure is
for this pose because of
of ring qualities，superiorty
reputation
as goed
ennually bring bring more brod

SEPTEMMBER 2， 1915
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meet
numerous charpionships won at the rmances in the show－ring elsewher have placed then in a position In their native country the Galloway looked upon with considerable favor： are hardy and good beef makers． Canada，and other representatives in b breed came over in 1881．Although ey have heen maintained and bred in country for over h＇all a century hibitions，unfitted and represented by aly one herd．We are not prepared to
ay that they are not suited to Can－ magrieulfure hut it does not sp＂el ch little pr a，but in all that time they have
developed enough or become well Angus，Shorthorn or Hereford． jatry cattle． of the dairy breeds there are sour a place，the Guernsey is bred more tensively in Eastern Canada than in ntario or in the West，but they have ther the IIolstein，Ayrshire or Jers ther the Inistein，Ayrshire or Jersey sein－Friesian，originatid on the plams Holland．The country is generally they are still the great producers cee are alinost beyond belief the saaxi－
um is not yet reached，for their whil dairyman with a fertile farm who is repared ey are especially suited．The calves urposes make estimatired for breedin ace，yet they were in ability to pro－ ore severe conditions．Grazing on the A to a more rigorous climate and les
beral rations．They will thrive wher ive＇good returns and satisfactor roits．In the early days considerable
aress was laid upan the conformation o houdder，and the efforts of former bree he Ayrshire breed，for no other in lith quarters so near so correctly placed his feature of the breed is still impor ant，while the breeders are striving io On the Island nf．Tersny in the Channe ept pure for prohahly a century and alf．These cattle bear the name of the 8,000 acres on an area of a little ove s the Ayrshire or such great producer milk as the Holstein，they are reputed abive gond financial renturns with les
abor．In quality of milk they haps supreme．In ability to reproduce
they rank among the best，and a breeder as little troulle with them at the time
of parturition．For the man with wall farm or for the man who only popular hreed，yet as a recognized and
standard breed of cattle for the dairy husiness they have a widespread patron－
\(\qquad\) trains of dairy cattle they still con－
linue to many of the other not show the uniformity of type exhiblted at our larrer fairs they are
popplar with the habitant，and Many of the differences and qualifica also in the shepenfold．However，a sheer hes a dual function to perform which
divides that clasy nf live stock into two categories，viz，mutton and wool breeds
with some that both renuirements．As a mutton type Wigh Athdown now ranks pre－eminently
ARPedthonish individuals of the

THE FARMER＇S ADVOCATE

\section*{Here＇s the load for DUCKS}

It＇s a fast，hard－hitting load that gets what it goes after And it＇s a dependable load always．
Anin Shells are primed with the new＂ 3 B＂primer，the Drest and me sensitive；the powder used is the best that can bo ， inspection and testing are thorough．

Every element that enters into the making of a perfect shell is to be found in

\section*{the＂Canuck＂}
the best load for every kind of shooting that requires a speedy shell．
Made by the makers of the old relinales－Resel，Sovereign
Canadg as all other makes combined． Your dealer ean supply you，Sen ommon Cartridce CO．Iimited 858 Transpertation Bidsc，Montrenal．

5
2

\section*{Ideallabeñe}

The Extra－Value Fence Your scales will tell you that rod for rence you style，Ideal That extra weigh means extra strength，extra service and durability an extra value for your money． ＂Ideal＂has that snappy，springy，hard steel fuil gauge No． 9 wire that you want your Fence－that heavy but even coating of and every spacing，is as represented in

tension so that when erected it goes up straigh and true－no slack wires to bas－no tight wires to brealc．It＇s a pleasure to stretch it．It＇s the same Fence that has enclosed for many years the thou－ sand head of unruly buftalo at Wainwright，Aberta， or the Canadian Government．Isn＇t that tes enough
Don＇t experiment，but buy＂Ideal．＂A postal with your name and address will bring you our Fatalogue No．and Steel Fence Posta
The McGregor Banwell Fence Coı，Limited

\section*{度 PREMIER QUALITY} Owl Brand Cotton Seed Meal
 F．W．BRODE \＆CO．，Memphis，Tenn．

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\section*{WAR!}

\section*{The Farmers' Opportunity}

Newer before have circumstances combined so favorably to make money for the farmers of Canada. HIGH PRICES on all kinds of stock will be the rule from now on. Be prepared for it, condition and fatten your stock by feeding

\section*{Wodehouse's Animal Invigorator}

Thousands of farmers exceedingly profitable. For raising swine and calves and fattening beef cattle there is nothing in the world like it.

The wise farmer should take warning from the above
feed Wodehouse's Animal In igorator and receive and feed Wodehouse's Animal In inigorator and receive

\section*{POULTRYMEN!}

If you are not using WODEHOUSE S POULTRY INVIGORATOR you are not getting the best results and making the money you should rom your flock You.
You will find in almost every town and city a merchant who is Wodehouse's Animal Invigorator-Unequalled for all kinds of Wodehouse's Poultry Invigorator-The chicken fanciers' best
friend.
Vodehouse's Creameal-The perfect food for calves and pigs.
Wodehouse's Lice Killer-Sure death to all vermin.
Wodehouse's Baby Chick Food-The purest of all Baby Chick Feed
The Wodehouse Invigorator Limited
Hamilton, Ontario


Ontario Wind Engine \& Pump Co., Limited Atlantic Avenue, Toront


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Are Famous All Over Canada For Their Durability and Economy
If you are about to build a new barn or repair an old one, you will do well to post yourself on the superior value of "Metallic" materials. We have a reputation of over 30 years successful business with Canadian farmers. "Eastake" Steel Shingles "Empire "Corrugated Iron; roof lights; ventilators; siding, ceiling and wall plates-all "Metalic" goods have a wonderful
reputation for honest materials, careful, accurate reputation for honest materials,
manufacture and sterling durability

We have all the information ready to mail you in book form, waiting your request.
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STEEL SHINGLE

Our line of Sheet Metal products is very complete. Get our
prices and booklet. You'll lbe glad you did.
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Get Your Horses in Condition to Command the Top Prices \(H^{\text {ORSES }} \begin{gathered}\text { never have been so } \\ \text { much in demand as they are }\end{gathered}\) much in d demand as they are interested in in sound horses-sound horses bring good money. It will be money in your pocket to keep your
horses in good condition, and if any are lame or blemished get them sound NOW!
My booklet, "How to Remove Blemishes," is free for the asking. It recommends ABSORBINE, of course, because this is the famous
preparation that I have been making for about a quarter of a century, and
 I believe it is the safest and most ABSORBINE is at blister or remove the hair-horse to use-it is made of herbs, and does addition to being a liniment it is a powerful antiseptic being treated. In doubles its efficiency and uses. Applied to sores, cuts and boot chafes it prevents infection, kills the germs and promotes rapid healing.
ABSORBINE is economical, as only a few drops are required at each ap plication. One ounce of ABSORBINE added to a quart of water or witch hazel makes a good antiseptic, general purpose liniment.

\section*{Use ABSORBINE}
to reduce Bursal Enlargements, Bog Spavins, Thoroughpins, Puffs, Shoe Boils, Capped Hocks, Swollen Glands, Infiltrated Parts, Thicken ed Tissues, Rheumatic Deposits, Enlarged Veins, Painful Swellinge and Affections; to reduce any strain or lameness; to repair strained, or rup
tured tendons, ligaments or muscles, to strengthen any part that needs it. Your druggist can supply you with Absorbine or I will send you a bottle postpaid for \(\$ 2.00\). Write me if you have a case requiring special directions or about which you would like information.
W. F. YOUNG, P.D.F., 258 Lyman's Bldg. Montreal, Can.

Questions and Answers. Miscellaneous.

Diseased Cow. chased the cow from C. B only pur-
 months atter A buyght the cow he was
compelled to kill it, because of tuberumlosis, about a year or eighteen months
 beaause of the same trouble, but never
had the reset tested
nat
 \(\underset{\substack{\text { 3. Who } \\ \text { Ontario. }}}{\text { 3. }}\)


 ment, Under Thie Aninuals Contacious

The New "Brown Lankford"


Price, \(\$ 1.75\) each
Express paid on two or more collars

Lankford Collars
increase horse power. They relieve orse shoulders at work like slippers Open throat principle, and oily, springy cotton fibre filling that holds no heat, and the closely-woven army
duck-like a surgical bandage, give duck-like a surgical bandage, give

A Collar That Can't Fail
to remove Lumps-and cure Galls or horse working in a stiff-throat collar needs a Lankford for relief, to keep shoulders in good repair.
Order size smaller than in leather
collars.
Ask your dealer for them, or write T. I. THOMSON, LTD.
owen Sound, Ont.





THE DICK Lover Attachment


 plowman Write for full particulara and i-
digk agricultural works Bolton. Ontario


The Glengore Angus
Some choice bulls from 7 to 15 months for sale.
particulars write GEO. DAVIS \& SONS
Angus Cattle For SALE-If you
J. W. Burt, Prop. \begin{tabular}{l} 
Aberdeen Farm \\
Hillsburg, R.R. No. 1 \\
\hline
\end{tabular}

1854 "MAPLE LODGE STOCK FARM" 1915
We have for sale one Shearling Rama sired by Con-
naught Royal (imp) Also 10 ram lants and a few
ewe lambs of good
Me lambs of good quality and choicely bred.
MISS. C. SMITH. Clandeboye R.R. No.
Long distance Phone. Farm ond mile wost of Lucan
Crussin.
Spring Valley Shorthorns
 fore it could be harvested. Information
regarding the value of spreuted wheat regarding the value of sprouted wheat
for seed purposes is important. In each of two years when winter wheat was of the grain were made. The following results show the average percentages of germination from each selection: skin over germ, unbroken, 94; skin over germ
broken, 76 ; sprouts onequarter inch long, 30; and sprouts one inch long, 18 ,
Not only were the sprouted seeds low in germination but the plants produced were very uneven in size.
RESULTS OF CO-OPERATIVE EXThree hundred armers throughout Ontario conducted experiments with autumn-sown crops during
the past year. Reports have been re ceived from thirty-seven counties and sending the greatest number of reports were Nipissing, Simcoe, Ontario, Hastings, Huron and Parry Sound. The greatest number of good reports were
furnished by Simcoe, Ontario, Welland Lambton, and Haliburton. Wolland Five varieties of winter wheat were distributed last autumn to those farmers who wished to test some of the
leading varieties on their own farms leading varieties on their own farms.
The average results of the carefully conducted co-operative experiments with these ive varieties showed the foiowing
yields per acre:
bushels; American Amber, 35.8
Banner, 32.5 buslfels; Banatka, 80.8 busheis; Crimean Red, In another coPetkus winter rye surpassed the Im perial Amber winter wheat by an average of 380 pounds per acre.
The
co-operative
experiments with The co-operative experiments forder production show prop acre were as fol lows: hairy vetches 11.1 in 1915, and 11.4 in the average of four years; and
winter rye 8.7 in 1915, and 8 in the average of four years. DISTRIBUTION OF MATERIAL
EXPERIMENTS IN 1915. As long as the supply lasts, material will -r in which free of charge in the ceived from Ontario farmers wishing experiment and to report the results of
any one of the following tests: varieties of winter wheat; 2 , one variety
of winter rye and one of winter wheat, of winter rye and one of winter wheat
3, spring applications of five fertilizer with winter wheat; 4 , autumn and spring applications of nitrate of soda and common sait withr winter wheat; 5, winter
emmer and winter barley; 6, hairy vetches and winter rye as fodder crops. The size of each plot is to be one rod
wide by two rods long. Fertilizers will
be be sent by express for Number 4 this autumn and for Number 3 next spring.
\(\qquad\)
Gossip
HORN OF SHORT-
\(\qquad\)
\(\qquad\)
of high - class Scotch Shorthorns was
'Pettit' prominently before the breeders
of Canada as a name aynonymous with hee highest standard of excellence
reached in the breeding of Scotch Short
high-class herds at present on both tho
\(\qquad\)
\(\qquad\)
\(\qquad\)


Shorthorns of Show Ring Quality We have this year the best lot of young bulls we ever bred from the famous sire Mand and Emilines, they are all Toronto show.

GEO. GIER \& SON, Waldemar P. O. \& Station, R. M. D. FLETCHER'S SHORTHORNS Young bul for sale, Roan Sailor \((=100457=\) ). A choice dark roan, 15 months old. Roan Lady
bull from imported dam. Our shorthorn herd, imported or direct from imported stock consisiting of Orange Blossoms, Duchess of Glosters, Matchless Clementines, Missies, Mysies, Butterfyy, etc, i,
headed by the choicely bred show buil, Victor Stamford \(=95959\).

GEO. D. FLETCHER
R. R. No. 1, ERIN, ONT

The Auld Herd

SHORTHORNS_- Weare making an exhibit at Toronto Western Fairs. Breeders should see our cattle as we are offering several young bulls of OUR OWN BREEDING for sale A. F. \& G. AULD, R. R. No. 2, GUELPH, ONT

Maple Grange Shorthorns frex miduais R. J. DOYLE \(\qquad\)
Northlynd R. O. P. Shorthorns and Jerseys


\section*{Shorthorns}

Pure Scotch and Scotch topped-Booth. Also five ( \()\)
young bulls from ten to twenty montho old, of the ow down, thick kind, good colora-reds and roome.
Prices reasonable. G. E. Morden \& Son, Oakville, Ontario Meadow Lawn Shorthorns \(\begin{gathered}\text { Five Scotch bulls, } 16 \text { monht } \\ \text { oldd } \text { from good milking } \\ \text { Low-set, thick, } \\ \text { deepp } \\ \text { mell }\end{gathered}\) formed, growthy fellows, showing breeding, quality and scale. You are invited to inspect thil
offering. Bell Telephone.

Willow Bank Stock Farm Shorthorn and hateote sinkex
 James Douglas, Caledonia, Ont.
Shorthorn Cattle and Lincoln Sheep



SHROPSHI AND
WM. D. DYER, R.R No. 3, Oshawa,
lambs and a few ewe lambs. Come and see theod

T. W, DOUGL AS Strathroy, Ontari

RVINEDALE SHORTHORNS
of the very best quality. Sired by Gainford Select
great sons of the celebrated Gainford Marquis). JOHN WATT \& SON, R. R. No. 3, Elora, Ont

v Ring Quality
we ever bred from the famous siid
ind Emmilines, they are all of up at Toronto show
. O. \& Station, R. M. D ORTHORNS
 R. R. No. 1, ERIN, ONT Station, C.P.R. are making an exhibit at Poronion hen
L London on their return from the ould see our cattle as we are offereR. No. 2, GUELPH, ont.

\section*{orns n Sound, mossy heifers.} thorns and Jerseys
 ch and Scotch topped- Booth. Also five (5)
lis from ten to twenty month old, of the Ms irom
thick \(k\)
thick Iorden \& Son, Oakvilie, Ontart orns
 rm Shorthornand Liteoneat sime
 es Douglas, Caled onia, Ont Lincoln Sheep
 Weetor, onaturio



 HORTHORNS



SEPTEMBER 2, 1915

Potato Diseases Editor "The Farmer's Advocate"'
From time to time the Potato Blight, called generally "Late Blight of Potato" (Phytophthera infestans) recurs doing untold destruction to potato crops. It appears in this district in tungous disease which arfects leave staks and tubers. On dry seasons rarely appears at all, and when it doesse unnoticed. Damp weather is very favor able to the development of this fungus and also to infection. It is called "Late Blight" because it usually oc curs late in the season-about the miaregularly sprayed with Bordeaux there will be little, or no, infection in any season. Spraying of prevention of the trouble method of prevention of the troubl
But one difitculty of spraying is tha
on met seasons, when the potato to on wet seasons, when the potato tops are straggling all over the ground, fre-
quent and thorough applications of of the spray mixture are necessary, and this is asp diffocult matter.
However, when the blight does sitack
the crop seriously enough to be noticed, the crop seriously enough to be noticed,
there is no remedy but to dig the potacoos. This should be done, no matter
how green the tops may be, because in about ten days after infection is first
noticed on the leaves, mencee to turn black. When the tubers
become infected it is too late. To save the crop, dig the potatoes and let them and then spread them out on the barn air-slaked lime or fould be wering. A little the potatoes while on the floor. After this they may be placed in the cellar,
but care should be taken to see that any showing signs of infection are culis that the disease can not infect a dry dug before infection, it is reasonably

Potatoes are not of the best quality
when dug green they improve and how well they keep time for digging, ninety per cent. will be By attending to the crop in
time, then, would save the country Another potato trouble which occurre
here and there this year is a disease of the roots and stems caused by a fungus,
very possibly Fusarium. This has been
noticed in ly, and also in Ontario. Wet common very favorable to the disease; and plant dind Infection is not nearly so gen parison. Potatoes should not be planted after potatoes; and heavy land is more likely
0 harbor the disease than light land Whars from an infected field may infec He crop the following year unless the
seed" be treated with a fungicide. In

P

\section*{GLENGOW SHORTHORNS \\ or this season's trade we have the best lot of young bulls, we ever bred. Wedding} These are a thick, mellow, well-bred lot. Heifers from calves up. COLUMBUS, ontario
WM. SMITHI \& SON,
The Salem Shorthorns to par.

Blairoowrie Shorthorns herds puts me in a position to have Cows, heifers John Miller, Ashburn, Ont C. P. R. and all who want to buy. Cows, heifers John Miller, Ashburn, Ont. G. T. R.
and bulls all fashionable bred.

\section*{Shorthorns}
breed in pure Scotch, as well as the greatest milking biood strains. Visit the herd. Also some right
choice Yorkshires, both sexes. A.J.Howden,Myrte,C.P.R.; Brooklin,G.T.R.; Columbus,R.M.D.
 rill be found at their new home "SPRUCEDALE STOCK FARM," instead of Janeniel Farm, always be welcome as heretofore. Ourvilla Holstein Herd - The first hera in canada eovelop 27 two-year-olds averag. days. If you want a bull backed by ourvilla reputation and records, sired by a
LAIDLAW BROS.,

Robt. Miller Still Pays The Freight




at Toronto last fall. Visit our farm, see Right Sort and our this years show herd 12 head all by him,
BURLINGTON, P.O. ONT.
\(\qquad\) HAY P.O., ONT.
21 SHORTHN ou know the Harry Smith Standard.
Shorthorns and Clydesdales \({ }^{-1 \text { We have five young bulls of gerviceable ald }}\) dales we have eight imported mares with foals. We can spare oneme of these, and wall have a two.

descriptions, pullished, has been re
orted from to or three places in On
on
\(\qquad\)

\(\qquad\)
\(\qquad\)
\(\qquad\)

Where so many have dealt with satisfaction and profit you cannot fail.


THE FARMER'S ADVOCATE
42b

OMTAPIO VETERIMARY COLLEEE
Under the Control of the Department of Agriculture Established 1882.
AFFILIATED WITH THE UNI
College will reopen \({ }^{\text {of }}\) on on Friday, the
Calendar " \(A\) " on Application.
Calendar "A" on Application.
e. A. A. GRANGE, V.S., Mris.

\section*{SHORTHORNS}

 and steers that will be marke
the prices are so low it witl pay your
to buy. Come and see them. Stewart M. Graham - Lindsay, Ont

Oakland-61 Shorthorns

 Ino. Elder \& Sons, Hensall, Ontario

SHORTHORNS Three bulle 11 months, a number of younger comm
with their calves, cows in calf and y yearimg


 StortiorNs, buls, female, rede. rons, pize


1426


Mixing concrete with this 1915 Model Hand
Mixer savee you time, labor and money. You
get a better mix with less cement. a better mix with less cemen
Write for catalogues. WETTLAAUER BROS.



\section*{DATENTS \({ }^{\text {TrRDE }}\) MaRRs} \(\underset{\text { PROCURED IN ALL }}{\text { DESIGNS }}\) COUNTRIES Ramiluain
Ridout \& Maybee
\(\frac{\text { Coown Lur sumberc. Torowno. orr }}{\text { Maple Grove Holsteins }}\)
 H. Bollert, R.R. Mo. 1, Tavistock HOLSTEINS
 oplicate, whose dam is a g. daughter
of King Segis; 18 bulls unde a year
old, one from a \(29-1 \mathrm{lb}\). cow and dyke. Females any age.
R. M. HOLTBY, R. R. 4, Port Perry, Ont. Pioneer \(\underset{\text { form Holsteins-Bulls nearry ready }}{\text { Fare from diughters of Prince }}\)



\section*{Business Methods in} Horse Breeding. Business men have many customs in
Anser
heir ways of doing thinge in orfer to

 open when they have an opportunity to
come in touch with the most up-to-date and prosperous firms.
A short time ago the telegraph companies were running their offices all night
and doing very little business, yet they had practically the same expense
night as during the day. One of t large companies saw an opening for mure
business, and by a reduced rate, business, and by a reduced rate, or,
rather, giving more for the same monev,
induce telegraph at night, allowing them fifty words for the same price as they had
formerly asked for ten. The result was formerly asked for ten. The result was
an enormous increase in the business after business hours.
Another business practice that is lowed very extensively, and which, when
properly worked, is very profitable, but properly worked, is very profitable, but
requires skill and training or poor results are hikely to Pollow, I refer to
the circular letter. Probably the most effective work along this line has beon done by the book publishers. Some of
their letters are simply wonderful in their persuasive power. They have, of
course, regular methods in the hands of course, regular methods in the hands
trained men for writing these letters, and they are not of hap-hazard construc-
tion or form, but well worded and well-built-up in appearance, color of paper and style of letter-head. Everything
must be the best, for every letter they send out is going to cost about five io to run away with a few dollars, and it
then and they get no results it is an expensive
venture. The only way to guard against
failure is to mater failure is The letter say whit
it should. Training it sho
do tha
read. I was pleased the other day to see
these two ideas being worked into a rancher's business. He has a very valu-
able Hackney sire able Hackney sire, and his spring term
is just over. He, in anticipation of the
fin fall, tried to work up a fall term for
the horse and had some letters printed the horse and had some letters printed
at the local printers, and is mailing one
to is a very fair letter, and should get nim
results. he will.
Here are some of the points in n is letter: He makes the statement that a
fall colt can be raised more cheaply and
will have the backs up his statement by adding:
"Your mare will have light work, probably no work belore and after foaling-
time. Spring colts come, and you must lete. Spring colts come, and you must
let your mare off, and that's no time to have to let her off,either." "A spring colt "A spring colt must be weaned on to
dry feed, but the fall colt goes on grass
and gets a full six months of pasture, and never stops growing."
\(\qquad\)
\(\qquad\) ence who claimed that mares he never
could get to catch would conceive at a
fall service
\(\qquad\)
\(\qquad\) stylish, and fast enough for any man
He put his fees down \$5 below the
usual sprine rates to makin it more at
\(\qquad\)
\(\qquad\)
\(\qquad\)

\section*{DISPERSION SALE PUREBRED HOLSTEIIS}

Wednesday, September 15th, 1915 GLENESCOTT FARM

Cows with fine official butter and milk records. Heifers and young builis of the highest official backing. A rare opportunity for anyone wishing to improve their herd to secure an animal cheap. (The buyer names the price.)

Richmond street car runs to the farm
Sale commences 1.30 p.m., rain or shine
WRITE FOR 〔CATALOGUE
T. B. ESCOTT

LONDON, ONT.

\section*{Holsteins by Auction}

100-lbs.-a-day-bred. No better bred alive.
. KINGSTON, OF GAMPBELLFORD, ONT., to whom applica tions must be made for catalogues, has sold his farm, and at the
farm, five miles from Stirling Station, on the Belleville-

Tuesday, September 21st, 1915
sell by auction his entire herd of 23 Holsteins, 17 females, none over 3 years of age, and 6 young bulls. Without doubt, this is one of the best bred lots Echo Keyes, May Echo Sylvia, Lula Keyes, etc. They are full of the blood that has produced from 100 to 131 lbs . of milk a day. For full particulars write for catalogue. Conveyances will meet morning trains at Stirling Sta., Madoc branch line
TERMS-Six months on bankable paper with \(6 \%\). Send for catalogue to: \(\underset{\substack{\text { norman montgomery } \\ \text { Brighton, Auctioneer }}}{\text { G. A. Kingston, Prop., Campbellford, Ont. }}\)

HOLSTEIN GATTLE


\section*{66 Head Must Be Sold}

Having disposed of my two stock farms. Come and make your selection. . . nice working shape, not forced or fitted for
HAMILTOM FARMS, Southandp.
Telegraph and 'phone Niagara Falls.
Farms 10 minutes trolley from Niagara Falls.
King Segis Walker vimose dam, granddam and great grandam hame transmitting family of the breed. I have for Sale some of his Sons combining bulls obtainable. King Segis Walker's oldest daughter with her first calf has just completed a record of 24 lbs butter in 7 days. A. A. FAREWELL

OSHAWA, ONTARIO
FIOLstein Óattle
Canary Mercedes Pietertie Hariog 7 th heads our herd. His dam gave 116 lbs. milk
in one day and 6197 in sixty days and made 34.60 ls. butter in 7 days. There are more cows in our herd giving over one hundred lbs. of milk a day than any
other in Ontario. We have both bulls and heifers
D. C. FLATT \& SON, R. R. No. 2, HAMILTON, ONTARIO

LAKEVIEW STOCK FARM, Bronte, Ont., \(\begin{gathered}\text { Breeders of high } \\ c \text { a } \\ \text { s } \\ \text { Holstelin. }\end{gathered}\)
 Price and particulars on application.



\section*{N SALE \\ HOLSTEIIIS}
ber 15th, 1915
T FARM
milk records. Heifers and acking. A rare opportunity
e farm.

TALOGUE:
LONDON, ONT.

\section*{y Auction \\ better bred alive}

RD, ONT., to whom applicas sold his farm, and at
ation, on the Belleville-
er 21st, 1915
ins, 17 females, none over 3 years
its
this is one of the best bred lots ddaughters, sisters, etc., to May
etc. They are full of the blood , etc. They are full of the blood
milk a day. For full particulurs t morning trains at Stirling Sta.,
nd West Huntingdon Sta. on the
with \(6 \%\). Send for catalogue to:
on, Prop., Campbellford, Ont.

\section*{CATTLE}

66 Head Must Be Sold
ng disposed of my two stock farms. erms to suit. Cattle will be in good
ing shape, not forced or fitted for
ILTOM FARMS, Sout tonedp. legraph and 'phone Niagara Falls.
anddam and great granddam have lbs., the greatest producing and King Walker, the greatest trio of
aughter with her first calf has just

OSHAWA, ONTARIO

\section*{Cattle}

 2, haMILTON, ontario
ronte, Ont., R. Rutaid ibid
 LER, Prop. T. A. Manaser
o you want a young herd header backed ut
us
generations of record-makers, g. ocomo of
an (-world champion?
ter White Sine.
aville P.O., On

SEPTEMBER 2, 1915

\section*{THE}

Western Fair
London, Sept. 10 to 18
The Live Stock Prize List. this
year is the best evel offered. year is the best evet offered Parade of prizewinners before Increased prize list Increased prize list in Dairy,
Agriculture and Horticulture Departments.
Buttermaking competition daily. Excellent programme twice daily. A change
Machine guns, shells, etc., on chibition.

All Soldiers Admiltted
Entries close Sept. 9th
Dog entries close Sept. 7th
Prize Lists and all information
from the Secretary,
Single fare over all railroads west
W. J. REID A. M. HUNT

President A. Mecretary


Rebuilt Portable and Traction Engines and Threshers All sizes, for sale cheap. Complete
threshing outfit, traction engine with cab, separator, wind stacker, \(\$ 875\) The Robt. Bell Engine \& Thresher Company, Limited

Ask your dealer for
"LACTOLIN"
and increase your milk pro duction by 30 per cent. 50 cents per five pounds box, or write for it to
The National Stock Food Co. Ltd.


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"Sepoy Special"Wheelbarrows FARM and GARDEN Varieties
 FARM and SLOOP Sleighs
 WGLEWOOD ARESHIRES AND CHESTER

forf: Southdowns and Oxfords 8. Lemon, Poth sexes; all ages,
}

THE FARMER'S ADVOCATE

British \({ }^{\text {Live Stock Breed- }}\)
ing Schemes. Editor "The Farmor's Advocate" The British Government is thorouglily
determined that now is the time when ive-stock breeding, by farmers, large und small, shall be carried on to the fullust
extent. extent. They are out with a number of sthemes that are helptul in attaining
this object, and, believing that their ideas may be helpful to you in Canadr,
I send you a summary of what they are
do doing. In order to impress upon tarin-
ers the advantages of cooperation in securing the services of good sires, will be mavie only to clions and boars
ties. The same procedure socieOllowed wherever possible in the case of
bulls, but in the districts societies cannot be formed, grants will be mad
willing
disposal
will be Wisposal of their approved bulls at the will be given in the assistance offered, to xceed 100 acres in extent, or, if exceeding 100 acres, are of an annual value
for purposes of income tax not exceuding \(£ 100\).

BULLS.
Grants for the provision of bulls will 1) No grant exceeding \(£ 12\) per annum : is to be made to any individual bull
owner, or exceeding \(\mathcal{L 1 5}\) per annum o any society in respect of any one bull. (2) Not more than four annual grants of \(£ 12\) are to be made to any
individual; and not more than five aneach approved bull provided by it.
Grants are only to Grants are only to be made to ind
viduals when the live-stock officer that area is satisfied, after full inquiry,
that it is not possible to form a bull
lub for a district in which the provision of a good bull is necessary. (4)
No grant is to be made to any individual in respect of a bull previously
owned by him unless the live-stock oflicer
for the district is satisfied that in return for the grant the bull can and will
be made available for an appreciably greater number of cows belonging
small farmers than it now serves. A society may provide a bull for thie
use of its members-(a) By purchasing a bull and placing it in the custody of one of its members; or (b) By arranging
with an owner of a bull-whether he to with an owner of a bull-whether he ho
a member of the society or not to place a bull at the disposal of the society in terms agreed between them.
If a society arrange to purchase a
bull, it will be necessary to provide by means of contributions from members or
donations to the society, sufficient capidonations to the society, sufficient capi-
tal to defray the cost of the purchase of
the bull, and also an annual income sufficient to cover the insurance and keep
of the bull, the salary of the secretary of the society, the general expenses of
the management, and sinking-funi charges in respect of the depreciation of the bull sufficient to provide for the re-
placement of the bull when necessary placement of the bull when necessary. If
a society arrange with an owner of a
bull to place a bull at their disposinl
\(\qquad\)
\(\qquad\) entitled under these circumstances (1)
to payment from the society of a sum to payment from the society of a sum
not exceeding \(£ 12\) as may be agreed
an 6d. for each cow served, a a dis (3) to have
not more than fifteen of his own cows
served by the bull: If a society arrange
\(\qquad\)
\(\qquad\) penses, as the owner of the bull and nnt
the society will be responsible for the
keep, insurance, and care, etc., of the

\section*{heavy horse societies.}
\(\qquad\) Conditions to heavy horse stallion socio-
ties which hire stallions. will be given to societies which hire
stallions to travel at a lee exceading 3 s . (2) In no case will the grant to
a society exceed \(£ 80\) for each approved stallion provided by it, of which not
more than \(£ 40\) may be a direct rant,

\section*{HINMAN The Universal Milker}


On the L. McLeod Dairy Farm, Thamesford, Ontario MADE IN CANADA
Intending Purchasers of Mechanical Milkers and Others: It will be of INTEREST for you to know that the HINMAN MEDALSAL THE PANAMA PACIFIC EXPOSITION over ALL OTHER makes of Milking Machines, foreign and EFFICIENCY, DURABILITY, SIMPLICITY and ECONOMY See the HINMAN in the Model Barn at Toronto Exhibition. Price \(\$ 50\) per unit
H. F. BAILEY \& SON, \({ }^{\text {sole manufacturers }}\)
alt, ontario, canada
 B. H. BULL \& SON BRAMIPTON, ONTARIO Don Jemeseys Special Offering-A few choice yearling bulls fit for service also heifer calves six months
old sired by Eminent Royal Fern. Write for what
 remales, whych we offer at
good value for
Guick sale. Alex. Hume, \& Co., Campbellford,Ont.,R.No. 3
 James Benning, Williamstown, Ont.
 Hector Gordon, Howick, Que. Write or pronone your wants to stonehouve
 AYRSHIRES F. H. Harris, Mt. Elgin, orford Co.. Gladalem yinilyyynilyes LAURIE BROS.
\(\qquad\) MALVERN, ONTARIO alloway lodge stock farm| Angus, Southdowns, Follies

\(\qquad\) SUMMER HILL OXFORDS
 PETER ARKELL \&. . CO. Prop.
Teeswater P.O., C.P.R., Box 454. Forster Farm Dorsets
 Forster Farm,

Oakville, Ont.




If you could purchase a machine to grind the grain and feed your hogs, with no
trouble to yourself, you would be willing
to pay \(\$ 42.50\) for it
THE HOG MOTOR
has, the past six years, done this for hundreds of farmers, and not one has been trill do the same for your hogs. For full

The Canadian llog Motor Co., Ltd. Listowel, ont.

IMPROVED

\section*{Yorkshires}

FOR SALE - Young sows just being bred, also a few choice pigs,
both sexes, 12 weeks old (only a bow sextes, All weeks old (only a
few le registered.
WELDWOOD FARM
FARMER'S ADVOCATE
London, Ontario

\section*{HIDES, WOOL, \&c. \\ JOHN HALLAM, LIMITE}

SUNNYSIDE STOCK FARM Chester White Swine Champion herd at don Fairs also Dorset Horn Sheep, young stock
of both
W. E. Wres for sile shat. For many years my herd has won the highest For many years my herd has won the highest
hoonor at Toroto, London, Ottawa and Guelph.
For sale are both, sexes of any desired D. DeCoursey, R. R. No. 5, Mitchell, Ont.

\section*{Tamworth \(\begin{gathered}\text { Buy your hogs now, as the } \\ \text { will hey vever searect this fal }\end{gathered}\)} and sows four to five months old; prices reasonable
Herbert German, St. George, Ontario Poland-China Swine Buroc Jerseys


Tamworths \(\begin{gathered}\text { Young sows bred for fall } \\ \text { farrow and some choice }\end{gathered}\) Before buying write for prices
JOHN W. TODD, R. R. No. 1, Corinth, Ont. Morriston TAMWORTHS \& SHORTHORNS
 ne Clydesdale colt twoyer-old bred from imp
tock. CHAS CURRIF. Morriston, Ontario Elmfield Yorkshires Four young sow


Por "assisted nominations." (3) EX
cept in the case of "assisted nominn
tions," no reduction tions," no recuction in the amount of
the service fee usually charged is to be the service fee usually charged is to be
made by the societies receiving grants. (4) The stallions hired by societies re-
ceiving grants must be registered with the Government through its Board o
Agriculture; and the mares for which Agriculture; and the mares for which
assisted nominations are given must apsisted nominations are given must be
by the society as suitable for the purpose. The value of an assisted nomimation is not to ex
amount of the service fee.

BOARS.
Grants will be made to societies only
The amount of the grant be E3 per annum. A society may provide a boar for the use of its members
(i) By purchasing a boar and (i) By purohasing a boar and placing
it in the custody of one of its members or (b) by arranging with an owner a. boar-whether he be a member of the
society or not-to place the boar at the disposal of the society on terms agreed Bot If a society arrange to purchase a means of contributions from members, or capital to to to the society, sufficient chase of the boar, and also of the rur income suffcient to cover the insurance
and keep of the boar, the salary secretary of the society, the salary of the penses of mazagement, and sinkingel excharges in respect of the depreciation placement of the boar when necessary a boar to place a boar at their disposial, less than twenty sows belonging to thei members. The owner of a boar will be
entitled, under these entitled, under these
to a payment from the to a payment from the
not exceeding \(£ 3\) per
agreed agreed upon; (2) to annum, as may be than one shilling for a fee of not less and (3) to have not more tha served; society arrangee for by the boar. If a boar in this manner, the grant made to
them by the Government, together with a nominal subscription of, say, 6 d . per member, would probably suffice to defray
all expenses, as the owner of the boar and not the society will be responsible for the keep,
of the animal

MILK-RECORDING SOCIETIES
\(\qquad\) of their dairy cows not less frequently than a week, and who employ a at least once every six weeks, the rec will be hall the expenses of the society recorder employed for every twenty hime in the \(p\)
ciety.

\section*{Gossip}
blatrgowrie shorthorns 1915 is surely expansion year in the Jr., of Ashburn, Ont., for just now exceptionally choice lot of two-year-oly heifers whose remarkable thickness and
balance of flesh is up to a standard
selden
\(\qquad\)
\(\qquad\)
 two Toronto prizewinners, and two of
the best individuals and the best individuals and breeding bulls
in Canada. On blood lines these heli
ors represent the Village Girls. Orance ers represent the Village Girls. Orange
Mhossoms, Roan Ladys, Iady Anis,
Jilts, (ranberrys, Minas Lovelys,


Tower Farm Oxford Down Sheep


We are offering a choice lot of ram and ewe lambs, a few shearlings and two shear rams, and a choice lot of shearling ewes, some fit for show James T Hab Maisey Hamp. ton, Fairford, England, a winner at the Royal. See our Exhibit at Toronto National and other leading exhibitions. L.D.-Phone E. BARBOUR, Hillsburg, Ont., R.R. No. 2. Erin and Hillsburg Statione


Farnham Farm Oxford and Hampshire Downs We are offering a splendid lot of yearling rams and ram lambe for flod
headers or show purposes. We ourselves have retired from the show ring hold nothing back. We are ealso offfering a fcw superior Hampshire yearinge
nd ram ram lambs. HENRY ARKELL \& SON, Route 2, GUELPH, ONT
Guelph, GT R

\section*{Maple Shade Shropshires}

A few shearling rams and ram lambs are for sale. They are the right kind and our WILL A. DRYDEN,

Brooklin, Ontario Shropshires and Cotswolds \(\begin{aligned} & \text { for Sale-Yearling rams and yearlug eveet } \\ & \text { few } \\ & \text { imported } \\ & 3 \text {-shear ewes, an extra } \\ & \text { good }\end{aligned}\) ram lambs from imported ewes. I expect an importation of rams of both breeds from Engaril
lst of August.


SHROPSHIRES AND SHORTHORNS
 2. \(\sim \begin{aligned} & \text { Spruce Lodge Stock Farm - Shorthorns and Leicesters Sheep } \\ & \text { Have always on harid a few choice heifers and bulls from good milking families. . } \\ & \text { Leecesters we have the best lot we ever oftered in shearlings and ram lambs and ewe } \\ & \text { ewe lambs, and ont by choice imported rams. }\end{aligned}\)

DUROC JERSEY SWINE, JERSEY CATTLE In Duroc Jerseys we have either sex of any desired age, bred from winners and champions for
generations back. In Jerseys we have young cows in calf and young bulls, high in quality and MAC. CAMPBELL \& SONS - NORTHWOOD, ONT Poland-Chinas \({ }^{- \text {Buy the right }}\) kind of Poland-China Swine from Canada's champiad T \(\rightarrow\) ELMHURST LARGE ENGLISH BERKSHIRES
our recent importation of sows, together with the stock boar, Suddon Torredo
upply select brceding stock, all ages. Satisfaction and safe delivery guarantee
H. M. Yin ERLIP Breeder and Importer, CAINSVILILE ONTARIO
ngord Station on Brantford \& Hamilton Radial.
Sunnybrook Yorkshires and Shropshires
 Newcastle Tamworths and Shorthorns Boars ready for service Sor Sowe dver



rd Down Sheep
are offering a choice lot of ram d ewe lambs, a few shearlings and
0 shear rams, and a choice lot shearling ewes, some fit for show rposes, sired. by a ram bred by nes T. Hobbs, Maisey Hamp; the Royal. See our Exhibit at ronto National and other lead-
exhibitions. L.D.-Phone
\(\qquad\)
 of yearling rams and ram lambs for flack
Je ourselves have retired from the show ring 80
so offering a fcw superior Hampshire yearlingi ered, prices reasonable. GUELPH, ONT.
ON, Route 2,
rkell, C.P.R. Telegraph Guelph.
Shropshires
sale. They are the right kind and out
"Buttar" ram. You may order any
Brooklin, Ontario
 JOHN MILLER, Claremont, Ont.
7 miles.
Greenburn, C.N.R., 4 miles.
SHORTHORNS an extra lot, well grown, well covered and
king bred Shorthorns, young bulls, cows and
IE \& SON, Manchester, Station and P.0. horthorns and Leicesters Sheep
ers and bulls from good milking families. In
\(\qquad\)
, JERSEY CATTLE
blood. Poland-China Swine from Canada's champion
any age, imported and Canadian bred, includ-
Also choice young stock in Chester whites and
hrifty condition. Moderate Prices. See my ENGLISH BERKSHIRES Satisfaction and safe delivery guaranteed.
Importer, CAINSVILLE ONTARIO s and Shropshires \begin{tabular}{l} 
IPION hog which is winner of twelve firsts and \\
never been beaten. Are offering choce rams \\
Wm. Manning \& Sons, Woodville, Ont. \\
\hline Boars ready for service. Sows due
\end{tabular} Boars ready for service. Sows due
ne farrow in August and September.
res ready to wean. Descendants of imp, and
s and heifer calves, recently dropped; grand
reasonable prices.


Empire Mechanical Milker in circular barn


Empire Mechanical Milker in óperation in the model dairy barn

The Solution of the Milking Problem
How Large and Small Dairies in All Parts of the Country Are Doing Away With the Drudgery of Milking - Cutting Down the Cost-Increasing the Milk Yield - and Insuring Their Patrons Healthy, Sanitary Milk

CINCE the beginning of time milk has played a most important part in the world's diet. It
stands with wheat as one of the world's most important foods.
Yet, while in every form of agriculture there has been a distinct advance in the method of har-
vesting the crop, until a few years ago milking was done in much the same way that it was in the earliest ages of which we have any record.

A Big Step Forward
This announcement of the advent of the Empire Mechanical Milker, therefore, seems to us to be one that should be of the utmost importance,
not only to the practical dairymen, for whom it will save many hundreds of dollars in a year, but

In recent years it has been proved that much to is traceable directly to impure and insanitary milk. The Empire Milker corrects this evil wherever The Empire Milker corrects this evil wherever
installed. It keeps the milk absolutely free from dirt, disease germs and contaminating stable odors.

More Important Than the Harvesting Machine
What the harvesting machine was to the wheat farmer the Empire Milker is to the dairyman.
Just as the harvester enabled the wheat farmer to extend his acreage - garner his crop in less time, with less help and at less expense - so the Empire Mechanical Milker permits the dairyman to milk
more cows in quicker time, with less expense.

Thus the advent of the Empire Mechanical dairy milk is removed the public will learn to depend more upon this most naturally healthful of all dairying are eliminated there will be more incen. tive to the farmer to keep a fine herd of dairy cows. Even a comparison of the milker with the harvesting machine, however, does not indicate the
importance of the advent of the Empire Mechanical Milker-for even the harvester, with all its advantages, did not increase the yield per acre nor the quality of the crop, whereas the Empire
Mechanical Milker does, in many cases, increase the yield per cow, and in every case produces
more sanitary milk.

ww Empire Mechanical Milker

The Empire Achievement For years past the attention of experts who had to do with the dairy perfection of a machine of this character, but it remained for the engineers and experts of the Empire Company -studying all that had been done in own experience - to perfect this machine which has, at the present time,
on thousands of dairy farms, under varying conditions, solved the problem in a thoroughly practical and economical manner.
The Empire machine not only insures milk free from bacteria and
germs, removes the drudgery, cuts germs, removes the drudgery, cuts
down the time and expense of milking, but it is easier on the cow than the fact, over and over again, that the cows take to it readily-stand more quietly-let down the milk more the machine is used.
For the Small Dairy Too The Empire Milker is a practical,
milking problem-not alone for the big dairyman, but for
with ten or more cows.
Its construction and operation are parison with the amount the in comOne man with an Empire Me chanical Milker can milk 20 to 30 cows per hour, at the same time doing
the stripping and carrying the milk. Thus a dairyman can keep more cows with his present help or milk the be relieved forever from the drudg-
Briefly-How It Works An Empire Mechanical Milker installation consists of a pump,
actuated by any suitable power, a vacuum tank, necessary piping and the milker units.
In operation the pump draws the created is transmitted by means of the piping to the milker unit, which complete with rubber connections
for air and milk and a pulsator for air and milk and a pulsator. By
means of this pulsator, vacuum and
THE EMPIRE CREAM SEPARATOR CO.
atmospheric pressure are alternately teat cup, causing a collapsing and expanding of this lining so as to massage the teat at the time the milk-
ing is being done, by means of the vacuum.
This, very briefly, explains the A full description, complete information about the maEmpire Mechanical Milker Book, which will be sent to interested parties upon request.

Users All Satisfied As to proof of the satisfaction Empire Milker, space does not per- It is not a long book but you will find mit us to print the numerous letters have yet to hear of one installation of the thousands we have already in operation.


We made sure of this machine by
long-time tests before we put it in the hands of the practical dairymen;
and now that it has been in use by them for over a year our judgment has been so vindicated that we are edge of what the machine will do is cow owner that it is to his best

Send for This Book We have prepared a book telling Milker, and we want to send a a cony
Mit to every pracicial man who has his own and the best interests of the
dairy business of the country at heart. it well worth reading. It tells simply
and fully all about the Empire Milker - what it is, what it does, and how it does it -and then gives proof of
the saving it effects for its users. Send for your copy today. Use the coupon Long-Distance Telephose
*
\(\qquad\) A queer question? Well, perhaps-but It adequate provision for your family in the event of your sudden death? pleasant one is that the wife and little ones you love pendent upon the charity of friends. But by investing a few dollars a year in an Imperial be comfortably provided for even though you should on your part-don't they? Estate." You never know when you may be uninsurable. THE IMPERIAL LIFE Assurance Company of Canada relo OnO ranches and Agents in all important centres Live Stock a Strong Fea ture at Edmonton Fair. From August 9 to 14 the city of Edmonton gloried in fine weather. This
period of sunshine was opportune, for during
being held. Rural patronage was
city turned out in a liberal manner to
make the Fair a success financially. Th
grounds were a pleasing sight. A good
display of the country's resources were
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\(\qquad\) showing of horses, especially in the heavy, being featured by'strong competi tion. Many were the difficult decisions
made, and the Horse Department as a whole, in fact, recorded the highest tion. This was partly due to the inno-
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Ontario Maple Syrup Makers


56 and 58 Wellington Street, MONTRELL
\$1,000
\(\$ 100\) DOWN, \(\$ 10\) A MONTH, buys 5 -acre garden plot in
easily obtained, first-class facilities for getting to city (a few
tation rates given to city; six miles to city. Come in and let
them. Hundreds of farms on our lists for sale and exchange.
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There is less danger from overfeeding Linseed Oil Cake For years and years graziers and live-stock men in Britain have been feeding this Linseed Oil Cake Meal Many of our Ontario farmers are now realizing the money there is to be made out of the summer feeding of their live stock on pasture.
menting the pasture feed with the feed of Maple Leaf Oil Cake once a day.
It means your beef cattle, sheep and milch cows by being fed throughout the summer with the proper amount
of Maple Leaf Linseed Oil Cake mixed with grain or meal will be gaining all the time and making money for meal will be gaining all the time and making money for their own, and milch cows often go back very rapidly. With stockers and beef cattle the Maple Leaf Oil Cake
should be nutted and fed to the stock in troughs in the
LINSEED OIL CAKE

aberneen-angus. ur The Edmonton Exhirition had a \(\mathrm{gr}_{\mathrm{c}}\) at ircuit. Again Evreux of Harviestoun. he grand championship in wulls, while hcGregor, received the female champion-
ship. Among the exhibitors wirn Bowman, Guelph, Ont.; W. R. Stewart Duhamel, Alta.; and J. D. McGregor,
Brandon.
Bowman won first place in Wizard 3rd, first and with Elm Park
enior-bull-calf class on in thes in the Unior-call Park kelso; also first in the
class En Elin I'ark Wizard Crio herd in addition to some the Onenior and iunior championships on ivreux of Harviestoun and Enioiner of
ilencarnoch, with himhest honors going

Questions and Answers.






Veterinary.
Unthrifty Mare.
Mare showed symptoms of heaves in the spring. In June, after being drivan, she suffered from laminitis, for whioh my veterinarian treated her successfully.
Since then the symptoms of heaves lare Since then the symptoms of heeases bave
not been noticed except a cough, bat flesh and is getting very weak and has little appetite. Kidneys and bonels
normal. She is hide-bound and tucked Ans.-Mix four ounce J. S. s. dered sulphate of iron, gentian, ginger, and two ounces of digitalis. Give her a tablespoonful three times daily, and

Sequel to Distemper.
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Dr. B. J. Lloyd, a surgeon in the
Dr. B. J. Lloyd, a surgeon in the
United States Health Service, regards
the rat-proofing of buildings as an eco-
the rat-proofing of buildings as an eld
nomic as well as a sanitary iueasure.
in this
He is quoted as saying that in this
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