## PUBLISHED EVERY WEEK. \$1.50 PER YEAR.

ABID

* *GRiculture, Stock, Dairy, Poultry, Horticulture, Veterinary, Home Circle.*


## Four Fold Increase In Ten Years What Is The Answer?

After all other arguments are exhausted regarding the real merit of wire fence, there still remains this proof. "The actual amount sold." Frost Fence must be right, otherwise, the demand from year to year would not go on increasing at the rate this ten year Chart shows.

Our products absolutely satisfy and will continue to do so. The more that farmers know of wire fence: the more farmers there will be buying Frost Fence. It gets the confidence of the buying public and you can see for yourself by the increased business from year to year that it holds that confidence.

## Frost Fence First

The accompanying Sales Chart shows how the demand for Frost Fence increases each season as compared with the previous year. Our sales during the years from 1905 to 1908 , although substantial, show only a small increase. It was throughout this period that we saw the necessity of equipping to make our own wire, giving Wire Mill and it is
Fence something better. We, therefore, built and equipped our own especially interesting to note the wonderful increase in the number of especially interesting to note the work of Frost goods marketed each year commencing with 1910. The year of 1014 was generally considered a lean one-not so with Frost Fence, as evidenced by our Chart.
We guarantee a full gauge wire and not only that, a well galvanized wire with
the right strength and hardness. Frost Fence wire is all drawn and galvanized in the the right strength and hardness. Frost Fence wire is all drawn and gal
Frost Mills. That's why we know the kind of material that we weave
into our woven fences. It is good from the start and the lock and into our woven fences. It is good from the start and the lock and
method of weaving are both as practical as can be. We manufacture
a better fence because we have the right material and know how. a better fence because we have the right materi
That is why we can take care of your wants.

Frost Wire Fence Co. Ltd.
HAMILTON,


| 1906 | 1907 |
| :--- | :--- |



10 Years" Sales Chart "Frost Fence"

\section*{Clover Seeds <br> Government Standard <br> 1 Red Clover $\$ 13.00$ per bus. No. 1 Aliike ". $\quad 12.00$ <br> No. 1 Alfalfa <br> | No. 2 Timothy | (.). | 12.00 |
| :--- | :--- | :--- | (Grades No. 1 for purity and germination)

No. 3 Timothy 84.25 per bus. Terms cach with onder Bags extra, at $2 \overline{5} \mathrm{c}$. each. On all orders pay the freight. We guarantee
seeds to satisfy or ship back at our seeds to <br> for samples if necessary <br> TODD \& COOK <br> Stouffiville Merchants Ontario}

## Apple Trees



WAR POST CARDS
$\square$
Essex Grown RR: mane

SEED CORN


ESSEX FARM SEED CORN
iden. Thery a reason and the reason is this
Corn with vitility does the \&rowing.
Corn with breding does the sieldin?
and

WALKLR SOM, $\quad$ WALKERVIILE, ONT
mproved Serd. O. A. C. No. 72 Oats


Government Standard
 clay belt in County of Havy fertile where a great deal if "Clover Seed is
grown. Our aim in grown. Our aim is th twy direct from
farmers, and sell direet to the farmer
who sows. We mail ton who sows. We mail you sampleser of
our seeds on request. linu send cash
with order, and if see. with order, and if seed- do not entiredy
satisfy you on arrival you ship them
back at our expens? back at our expense, and we refund
money. Bags are 25 c , ach. money. Bags a
Red Clover -

 First Prize at Ontario Winter Fair
Guelph. Grades No I for Purity.. 11, TIMOTHY - Very bright and clean:
ALFALes - 1 for Purity........ 8.m
 ALFALFA - Northern- So wn here
quite a lot and entirely suited to SEED OATS - Silver Mine and Regen. 112.0 O.A.C. No. 21 BARLEY-A. All prices are per bushel and are good untll
next issue of this paper.

The Caledonia Milling Co. Ltt.
Caledonia, Ont

febreit


It's the Roof that Makes or Mars Your Barn
 leaky roof will \{quickly ruin anything you may have stored under it. A Pedlarized " froof of "George" Galvanized Steel Shingles is the best roofing that 53 years' experience has taught us how to make. Not only is such a roof absolutely watertight, but the fluting gives it exceptional strength as well as making it

## Pedlar's "GEORGE" Shingle

is guaranteed rainproof on any roof having a fall of 3 inches or more, to the foot. Each shingle has a hook-like flange along the top and bottom edges. The top flange is on the outside, and the bottom flange underneath the shingle. As the shingles are laid, these flanges intermesh, and
 No rain can get in between the
shingles, because the side-locks are sealed top and bottom, as shown by the illustrations inset below. Note the top Hanue whic seals up the gutter and the lo nailing flange which extends to the bottom of the shingle. These features render the roof absolutely proof against driving snow or rain. sell-draning side locks scan the "George" "Shingle is 24 in . x the side se mss. making the roof one Eacch "George shinge is 24 in. x watershed 100 square feet of surface

## arem inmpe coro

THE PEDLAR PEOPLE Limited

## Ideal Green Feed Silo PRIZE COMPETITION

Open to every Canadian Farm Owner. It costs nothing to enter.
The on Cana If the winner of the prize preferen sit

Here is a chance to get a silo free
competition is open to any Cara If thew ser will be given credit filo
dian farm owner or to any member of his family living on the farm with him. It isn't necessary to spend a cent to enter this contest. There are no entrance fees. The prize will be awarded to the one whe give theuld ber best reasons why a silo on every farm.
The "reasons" should be written plainy in pen and ink, or typewriter, on one Peterboro address, as given below.
The prize will be one of our $10 \times 20$ The prize will roof, having a silage capacity sufficient roof, having a silage cap
for seven or eight cows.
DE LAVAL DAIRY SUPPLY CO, Limited
115 Park Street, Peterboro, Ont of larger size, he will be given credit for of larger size, he will
the list price of a 10 x 20 silo toward the payment of a larger size silo.
Should the winner of the prize purchase an Ideal Green Feed Silo before June 1st 1915, the date this contest closes, credit will be given him for the list price of prize silo toward payment on whatever size silo he may have ordered
The contest will close June 1st, 1915, and no entries will be considered after that date.
Our new silo bonk, containing a great deal of cilo and silage information, will UPPLY CO., Limited


Bro
The Aylmer
5aver $=$ SPRAYER NO. 2.-OUTFIT D SPRAYER A. hee with couplings attached,


The Aylmer Pump \& Scale Company, Limited ovtarlo
mimer.

LONDON, ONTARIO, FEBRUARY is, 1915

EDITORIAL.

The wors
Do not former "The Pollar ('hain." The money urgently needed
are you ready to prodluce the most your farm capable of irr 1915
What have the war lorde accomplished for the
mefit of the Cierman Fatherland
six morths of war cost $\$ 8,575,000,000$, to
-ay nothing of death and destruction beyond conception.
war how many of our farms have been yielding
$\qquad$
$\qquad$
theep" and less "dog let us hope profitable,
his is a pleasant, and let us hope proftanke. maginaty
We are glad that it is admited that the luction himself. The farmer knew this long ago and all he asks is a litule aid to secture the labor. will he get
The farmer is urgeel to work hand in hand wh other intarasts. He has been doing this ong enouglr. The ot ther interests have held to
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The Dominion Minister of Agriculture promises
steater assistace to live stock at the larger
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$\qquad$
and

The Contented Unemployed


## Know, Then Talk


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$\qquad$Much has beetl said and much has been writ-(en by farmers and their friends regarding gencrat, are not any too well acquainted with the cubject they make bold to discuss. The same is
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$\qquad$At ine time was the need of avalable monesham it is at present. If farmers are to producelatore and momes, amd sat up th the time of
which one would inct to be put to is use. It is largely the ccumulations of farmers who are now retired and (1) lack the ambition to invest it elsewhere, and , stand hehind th nk.
The advice is sound that people should talk Now they urderstand, but it is oloment of Canada acquaint themselves with financial matters and draft some scheme whereby Gomics mas brocured with which to finance agricultural oprations. Thes need the money in agriculturat ore
their busimes.

An Important Parliament.
On first thought it appears rather far fetched (1) think of the meetings of the dicastack arlia ment But that terin was applied to their de liberations with considerable appropriateness, and in normal times their actuai significance and im portarce would compare favorably with many sessions conducted under more pomp and show and whose doings are recorded in Mansard to be stored away irr fire-proor wars and carefolly suarded in order to reveal to future generation the wisdom of their progenitors. The nation is first of all dependant upon its field crops and the There must be some governimg body to control the dusting of the purebred stock industry, for upon it depents the entire enterprise which furmishes our tables with food or provides us with amimals to do our work, and this body of legislators may well the termed the Live-stock Parliament The simile is all the more fitting when we consider the function of the Camadian National Live-stock Record Board, which consists of representatives from all the various breed associations. It is in fact the cabinet of the farmer's parliament. Their duty is to protect the live stock of the country and keep it pure. All the large breed assoctations an eatran exe copt one are combined under a juristhetion cothe
 whinct of admiration for the entire world. It at time when the Empire requires food no masomable efforts should be spared to enhance the tition hus auplied to Canada for the last half fithon has ap with more aloquence at hene, Canada is tarticularly adapted to stock raring, yet we have only one sheen and three cattle to every four of a population, and two swine to every five. sherp and 6,000.000 cattle. Roughly, Canada possesses 1-63 of the world's cattle, 1-47 of the corld's horses, 1-28 of the strep, and 1-58 of the wine. The United states hoasts of a come and the jer capita number of amimals in the Owightoring vepublic exceeds, the Camadian figures. thas been said that the Province of Qutelec sustains fewer sherp than it did forty years ago, and the same may be sald of Camada as a whole nowere, Ilg off in all limes. In maty casts sheep have bewn mpaced by heef and dairs catte, but the

The Farmer's Advocate AND HOME MAGAZINE

the leading agricultural

the wil

> Pablished weekly by LIAM WELD COMPANY JOHN WELD, Manager.
agbinta for "The Farmer's Advocat
THE FARMER'S
pubblished every
Thurseat
It if impartial and independent of all and
 tion tor farmere, dairymen. gardeners,
home-makera, of any publlcation in Canada.

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United States, $\$ 2.50$ per year; all other countries 12 and
Stan - ADVERTISING RATES,-SIngle insertion, 25 cents per line, d. TEE FARMER'S ADVOCATE is sent to subseribere until payments of arrearagee must be made as required by law. - THE LAW IS, that all subseribers to newspapers are held responstole to nth all arrearagee are paila, and their papen
ordered to be discontinued.
 Letter, which will bet at ret renible.
THE DATE $\begin{aligned} & \text { ebecription is paild. }\end{aligned}$
 every caen
benven
wHen
. Leterinary or Legal Eqquiries, $\$ 1.00$ Requat be to tollosed.
-. LETTERS intended for puble

13. OBANGE OF ADDRESS.-Sukgerlbers when ordering a
change of addrees should glve the old as well as the new

10 WE




ca. ADDRESSES OF CORRESPONDENTS ARE CONSIDERE 14. ALL OOMMUNICATINSS in reference to any mater con $\begin{gathered}\text { neoted with this paper hhould be ddresed as below, and } \\ \text { not }\end{gathered}$

$\qquad$
True it is, only matters pertaining chiefly to pure-bred stock are dealt win at the annual influence on the entire live-stock industry. Ever those farmers or breeders who are not rearime pure-bred stock should trave a registered sire a the head of the herd or flock, and he should be looking forward to that day when his entli tional Live-stock Records of Canada. It pres of the hogs, and less than 1 per cent. Of Ontarlo mas present more favorabio percentaget ada. Now that we, have some of the liest bloon lons from the foumation herds of the old com improved sirws and dams, and aspired to bette
things in their herds and flocks. It is mot meces
 for the murrouse of test ine curtain straims, and orn

foundation stock the breeders of this country will the associations having the destiny of the arious breeds under their control have been are the pure and in their pure state before the binds of stock should bok to their deliberations for council and advice and aspire to better things through the assist the I ive-Stock Parliament.


Nature's Diary
A sparrow which is common throughout Can-
ada, wherever there are fields or open country, is
he lesper Sparrow. It may he readily disthe vesper Sparrow. It may be readily dis-
tinguished from all other sparrows hy the fact that it has write outer tail fathers, which
show very conspicuously when the bird is flying away from one. Its name is derived from its ter of fact it sings at all times of the day, as far Is in the early morning as in the eveninge Its sparrow, tom instead of starting on thee high
notos its first throe notes ate much likn "wheMot at all hard to distinguish iromy that of the pear very simitar, for when combucting classes in 1 fobmy ereat dillicults in wettinge some students
(1) discriminate lot ween the sones of these two
 comberal of prass stoms sul pootlets on the commenell of pratestems and montens on the consist of sids nine per cont whathe mattery
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that the Vesper Sparrow is a very beneficial species. dent of the dooryard and garden is the Chipping sparrow this little bird was the commonest species about dwellings, and this fact has given
it the scientific name of Spizella socialis it the scientific name of Spizella socialis, "the
ociable little sparrow." The name, Chipping ociable little sparrow, The name, Chipping
Sparrow, comes from its song which is a higb
trill, and which is usually renderetl in syllables trill, and which is usually renderedi in a sllables
as andery-chippy-chippy-chippy-chippy." This species may be hown by its chestrut crown and
plain grey breast. It builds its nest in bushes and vines, constructing it of grasses and lining it with hair. I have sometimes heard it termed
the "Hair-hird" from this well-lined nest which t makes. The egrs are from four to five is number, and are a pale blue in color, spotted The Chipping sparrow ranges throughou Canada, from the Atlantic to the Pacific. As in and all other species which have a wide range the ('hipping sparrous from different regions
thow slight differences. When the birds of certain species show these slight hut constan difterences they are termed a sub-species. In the
case of some of these sub-species the difference be tween them are 'wite marked, so marked indeed
that when they were first discovered they were described as distinct species, but as more careful study was made of bird-life right across the congradually was mound into one another, so that thes were not distinct species. So they are called sul-spectes, or geographical races of the species.
Thus, in the case of the songs Sparrows of the prairie region they are mouch palere than those of the east, while those of yot there is no sudden much charger as one goes across the continent, and all are arces of one species. In the case of the Chipping Sparrow the Western birds lack the red-
dish-brown on the back which is characteristic of Chipping Sparrow is highly heneficial, as it fueds almost exclusively on from three to five young in a season, and these hipuir sustmence. Dr. C. M. Weed has seen a young in twelve hours. The adults themselves eat great numbers of insects. among them being
some of the most injurious forms, such as canker worms, tent caterpillars, army worms, and
weevils. Its fotd. while with us, is nearly ali weevils. Its ford. while with us, is nearly all
insects, as most of the weed seed is consumed in

The Need of Fruitgrowing
Although cold-storage or ordinary storage necessary that more storage plants be estabusished colterings on the market. The season of 1914 and 1915 will demonstrate this necessity very price at the beerinnine of the season will be followed tw more handsome figures during the closimg of the selling smason for fruit. High prices people will mot stare to consume, and prices doop Wuit is sure to go on the market, and it has the Thect of weakening prices. It may be claimed
that people are willing to pay the price of good Find tend to moduce the value of the better aticle. "ith sone system of storage more ex. ut more cllicinntly than is now being done.

A Chiance for the Banks. I

 Tnment should require the banks to provide bety
?

## (PRUARY 18, 1915

Time Record for Horses

## THE HORSE.

## The Actual Cost of Horse Labor

Editor "The Farmer's Advocate":
In our cost accounting on our farm here, w the this year andopted a system which we be dieved would enable us to determine the cost on
lied a horse-hour during our year. We have completed
the year and have now worked out this cost, and you may be interested to know how we figure it. oi the hours spent by the hrorses on various crops on which they work, so that we know at the end if the year absolutely the total number of hours that our horses have been out of the stable work-
ing, and we also know the number of hours that ing, and we various crops to make up that total. was put onn the cost of the feed, as practically
We also kno the year was boucht. Cur proposiall the feed this year was bought. Our proposi-
tion is an orchard proposition, and up to the tion is an orchard wow fruit and vegetable crops
present we have grown fros. present we he tees, and bought our horses' feed.
between the we were not buying the horse feed, it
Even it would be easy to know accurately what we are
and teeding the horses, and what it cost us for black-
feed. We also know smith bills, to keep our horses shod, and have the cost on the value of our horsces
We know the value of our horses, and can
iture interest and depreciation, which is figured ofyure the valuation of the horses at the beginning of the year, and another valuation at the end of the year. Then, we have a feeder, who does
nothing but feed the horses and look after the born cleaning stathes, etc. This goes as a part
oi harse cost. Added to this we have a foreman or harse cost. Added to this we have a and the
whose duty to took after the horses and the men driving them, and whose time is not charged agis, consequently, his trops as the teamster's time the and cossequent in order to enable us to cover the
horses cost in
cotire cost of the horses Now I think you will entree with me, that if we add these items, together and divide into it the total number of
hours the horses worked during the year, we get the exact rate per hour our horses have cosy
tor this year, which is figured from January 1914, to December 31,1914 .
The following is a statement showing the way we have figured it:
Actual value of 29 horses. $\$ 5,935,00$
interest on same Oats and concentrates, including molasses $\$ 356.10$ meal
Hay and
 Depreciation on ho

This is the same form of time shect that wh $r$ in this case of the horses, for one week, and These various totals are tabuiated in a separate incs the year, and we have all the results tabu lated in columns in a separate books ANGIE

Do_Stallion Owners Receive Fair Treatment?
Editor "The Farmer's Advocate":
Dew that the season will soon be on it is worth while comparing the methods in use in good horses has never been so badly needed as it is at the present time. It now lavs with Canadian horsemen whether they are qoing to take a grip of the world's markets or not. The breeders
of this country may be classed in two kinds of this country may namely, first, the farmer who watches his mares, and if they come back he promptly returns them
to the horse until he is satisfied hi has done his to the horse until he is satisfied he has done his utmost towards doing himself and tren stancon
owner justice; then second, the indiferent breeder who never gives the business a secord thought on the plea that if he qets no colts he does not
need to pay ans insurance. In Scotland when a need to pay any insurance. In scotland when a

Horses Kicking in the Stable. In our issue of Feb. 4 a subscriber writes ask
ng for information regarding horses kicking in the stable. A few readers have been good enough to give their experience, and accompany it with some advice regarding breaking horses of this
troublesome hatit. Edit or "'The Farmer's Advocate"
I see in Wor issue of February 4 regues for a means of making a horse stop kicking the partitions in the stable. The cure which I sug gest may be looked on as a joke, or many may
consider it too stringent.
However, the plan proved successful in the case of a mare which stood in our own stable and wore out the better part of a six-inch-square oak post which was the end of her stall partition. A strong bag was nice kicking distance. This bay was filled with straw as padding, and, in our case, weighted with boat ballast, which consisted of lead sewed the middle of the packing so that the mare could not possibly be injured. When the animal comwenced kicking she set the bar swinging, and the return swing, which allowed the bag, which the quarter, soon tired her of kicking in the


Editor " "The Farmer's Edtor ate,":
Advarmer s
In reference to your inquiry for remedy for horses kicking in the
stall, I may say have a heavy mare which gave me a great
deal of trouble fr deal of trouble from
kicking in the stall Having tried both short and long stall
wit ${ }^{\text {no }}$, surcess,
then Chen strapped below
her fetlock a piece of

 wems I had this mare
completery cured, with
no iniury to her lepa
 Exitur "The Farmer's Advocate"
I herewith give you a reninedy for horses
kicking in the stabe,
as I have had experience with it and $\begin{aligned} & \text { and } \\ & \text { ha e e used it for a } \\ & \text { number of years. Geet }\end{aligned}$
 put a mame st a ap
throuth it and buckle
ard if it and

Adbolton St. Mary.

$\qquad$
surance at time of service. By so taxing him it to the harse's fetlock, and if it kicks with
the owmer of the stallion takes the best precua- looth feet use a chain on both feet. Put on a
tionary measure, that if the mare comes, round fairly heavy chain, and you will find this very
foffective on any kicker. tionary measure, that if the mare comes roturn to his horse or affective on any kicker.
she wiil be prompty returne. Whitmore forfeit the insurance phaid. a premium for horse to sire a limited en if the stallion owners Falitor "The Farmer's Advocate" : of Canada were to adopt these methods, would it $\quad$ I saw in a recent issue your invitation to
not tend to bring horse hreedimg to a higher write regarding horses kicking in stable. And not tend to bring horse breedimg to a higher write regarding horses kicking in stable. And
level. How many districts are lacking in good strictly advise doing away with rope or chain, as level. How many districts are lacking in good strictly advice doing away with rope or chain, as horses from the deplorate fact and men can simple method. Taki a short pice of trace
the breeders side of the argument, and not be found to invest considerable mome ary to run. Might run it throurh the link in one entl of chain and I suggest that the navagements on this important iont, Earery time the mimal kicks he punishes



A New Method of Curing Meat.
piace the chain on the fore leg
horses in the stable, and unless
more horses spoiled in breaking
on a bad kicker, and a week cured him. The
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horse with
then take
fetlock
ing on
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LIVE STOCK.
Young Pigs Before Weaning
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never had any other in our chute and don't in-
nd to. The rungs are perhaps a trifle far never to. The rungs are perhaps a trifle far
tend apart, but we don't have to go up many steps,
and it is very much handier to step into the silo
and and it is very ladder than any other we have seen.
from this The expense of the gas pipe by the saving in conlumber for doors,
crete and material for a a ladder.
MORRIS IIAFF. crete and materd Co., Ont.

Two Ways to Save Labor
Editor "The Farmer's Advocate" : Request was made
cate" of Jan. 21 st for suggestions from experience in economizing labor on the furm. I verill comply briefly by citing two, but before do ng so wish to express my appreciation or a issues ports which have been appearing in several issue past of important dairy and agra. These 1 conings in different parts of Canada. These 1 consider a most valuable feature of the paper, are in fact
with them in completeness and freedom irom
werbiage. Five times the year's sulscription price erbuld be a modest valuation to place upon the
would
sues for January alone. The pressing duties issues for January alone. The pressing duties
of the farm and distance in the majority of of the from and are attending these meetings, but your columns, like a cream separator, fresh best of them available of the farm labor policy of our now awakened Governments, "The Farmer's Advocate" renders the campaign for greate production real and immediate help, perform the ing plans whereby
work of four. Many may be tempted to rush in-
Nat work of four way of exciusive grain farming,
to the broad
but it' will prove the pathway of folly, and I but it'will prove the pathway of the foundation
propose sticking to live stock as the of operations, doubly so when, after the war, the
inevitable collapse comes. Wherever the giant cereal thrives, corn and the silo solve the cattle feeding probiem, and the winamin,
perience, most economically provides the next
preat essential-water. The wind sends me no great essential-water, The wind sends
bills for its service, but day atter day and week
after week the mill toes whirling around with after week the application of a little oil and an occasional touch of the hand, a wonderful release from laborious hand pumping or driving stock to the
crick." The next and for nearly onehalf the year a still greater saver of labor of the most disagreeatle sort is the plan of applying fres
manure directly upon the tields, which I am gla
to observe has the endorsement of farms con to observe has the endorsement of farms col
nected with the agricultural colleges and exper nected with the agricultural colleges and experi-
ment stations. Lo more valualle experiment or
ment rather demionstration was ever conducted than
that by the latw Dr. Wm. Saunders and Prof. F. T. Shut, at the Central Experimental Farm,
Ottawa, showing that pound for pound, green manure, was equally valuable as rotted (so per-
sistently favored hy some old writers), and that under reasonathy fair conditions in no way wou
the loss of fertility (through heating and far yard soakage) the so small as hy inmediate apcorrectly, it was shown by seven years' trials in
applying fresh applying fresh and rotted manure to various
grain crops that pound for pound the fresh grain crops that pound for pound the fresh
manure gave remarkably better results than the
rotted mand rotted manure. On behalf of fermenting and rotting mamure the advantage of killing weed seeds
is some times is some times claimed perhaps more than is real-
ly warranted, liut the preferable policy is surely
one that aims at not having weed seeds in the fodder and manure to destroy. In winter there is time to spreal the manure evenly upon fields
where cropsi like comn are to be grown the fol-
lowing sancun . no extra he!p avalable every hour is precious
and the hot weathrt makes re-loading manme most arduous and disagreeable task. In the dis
tict from whinc.. I write the snow this winte has heen comtinmms and unusually heavy, but
not enough th interfere with the manure going regularly to thin faill. level fields. Some time in the soft ar weather it may he desirable to
make a small.
tharorary pile not far from the

 ferred to (an. Ate.) a portiom of the manur produced
Practicall,
wo, and



THE FARMER'S ADVOCATE.

- War a Cleanser
In one of your editorial notes in a recent num ber of ".The Farmer's Advocate" you say, how?." Taking it for wrantel that you are looking for an answer and not that you are expressing a disthelief in the statement quoted,
am undertaking to point out, how, in some ways at least, war may act as a cleanser and a re newing agency in soclety, though in that it Our case can best be proved by taking examples from history, ancient and modern,
libiblical times war was looked upon as an Siblical times war was means of bringing a depenerate nation to their senses and to a better mode of life. The elimination of idolatry and some of the other cices of the ancient dews was finall batte, and by
the reverses which they suffered in tater dealing with a later period, we are met with a continual series of reforms due to war, from the lime of Altred the Greatyon chrough Europear now engaged in is no excention to the general rule England, France and Russia, as we will
readily admit, all left something to be desired when we come to judge them from standards of was given up as a nation to commercialism France to pleasure, and Fiussia to "Vodka" drink ing. What is the result after six months of war sialism has given place to ideals of patriotism national morality, and a sense of the ridhts of weaker nations and individuals. These ideas ar
inherent in the Saxon race, but they have beo gradually getting into the background, and wer irr a process of being covered up with the cleansing ordeal was necessary, and I maintain that it has come. As her Premier, who, speaking in the Chamber of Deputies, recently said. .In this war France has
found her soul. Nowhere was it thought that found her soul. Nowhere was it thought that
she had such inexhaustible reserves or moral strength as she is now proved to possess. The war has revealed to the world a new war has revealed to the world a nedl
generated, purged of , "ross, virile. enduring, cap-- disposed to deny that, He may indeed reflect,
made wise by past experience, that if he does,


Moonstone III
dence. Truly, it would seem that war is some-
thing of a cleanser. The matter appears to me in this light. The civilized portions of the world have for a considerable period been enjoying an a mount of commercial prosperity that is almost without precedent in history. And drawing on history for not stand up under. His spiritual fibre seems to weaken, and he sinks into the mire of moral and frequently physical dehility. When man gets more of the world's goods than he needs, when to struggle for existence is no longer necessare, sure and for a life of ease. "ll fares the land, astening ills a prey, where wealth accumu en hand in hand decay." huxury and dege will coninve until some drastic remedy is applied. Such The inevitable result of the world-struggle now in progress must be, in years to come, unmaginable poverty and hardship, for the waste are to fight for the means of existence as he did the result being that some qualities necessary to in present-day civilization, great extent lacking much to the advantage of humanity in general. If this world is not run by chance entirely, with as most outside combrolling force to reckon that the "wrath of man", can be turned in the end to his benefit, and war made one of the means thingers he will finally reach his destiny. As old worid. I think we will all admit that a cleaning ip of some kind is necessary, and if war is not to be the "cleanser"" what is'?

## Produce More

Editor "'The Farmer's Advocate ment ! a dimely sentl ment! A very appory it at the present time! Perhaps even we may think, what most of the newspapers seem to
produce more,
there are plenty o Other interests wait-
ing to gobble up the lion's share of it
leaving him precious leaving him precious
little better orf than
hin was before. Ant so this erhortation
so pointedly and so pointedly and un
ctiousiy directed at ctiousiy drom some o those quarters that
are indeed "deeply interested in th
matter, may not a
ways impress him ways impress him in
the most favorabl way. But for all
that he will nol
nit deny that in ever
view of the situation this is a time to in
crease production crease production.
And there is not a in the In Ontarion of C a n a d a anywhere
who is not willing to try, who is mot thine in his power to oif the country, and ength of the Empire.






THE FARMER'S ADVOCATE
alone. Each one carries with it in actual pr
tice the necessity for some measure of the others also. But this division serves to map the others also. But this division serves to map
out the entire field in such a way that we can consider it intelligently, and determine where the consider it intelligently, and determine where the
chrief present difficulty lies, and where aiso chrief present difficulty lies, and whe
remedial effort may be put forth with be
of substantial and far-reaching success.
take place. We are still waiting. Individual an increase of work and responsilility, He is
instances there are undoubtedly of great improve- beginming to think not of expansion but of re
ment, of marked advance. But on the whole, on trenchment, of easing up, of simplifying his in said that they form a negliqithy small part of
the farming population of this country All who
know the situation tow well amilies in this land are fort ing as hard as human beimes can work, and keep feel that it up year after year. They know more: they
know that in many cases the farmers and their
families are working harder than men and women ought to work. This patriotic zeal for set
ting other people to work hard that has taken
possession of some of our newspapers and other public exhortives is a wonderful thing in its was,
But as a device for speeding up "the farmer and
getting more production out of him it is forecetting
doomed
"speed
limit ment, of marked advance. But on the whole, on
any large scale, on any scale at all commensurate
with the prophecies of the optimist, or the exwith the prophecies of the optimist, or the ex-
pectations of the public, or our own hopes, the advance has not come off, the increase has not
been made. We are left wondering about this promise of progress, amd asking, "Why tarry the . of his chariot?"
The farmers know why. Improved cientific management is a great thing if you it, and maintain it. It will pay for itself-ufter
a while In the meantime the question is how
to get it a-goine. We can all do a little in feel that to launch out in any adequate mamer
along new and improved lines would qumte ev-
ceed the resources of latorn anm caphtal that the: In another way also the extremely moderate
prosits of farming exercise a deterrent influence on
the application of capital. The average farme athe conditions procure cultivation, large imple
drains, more thorourn
ments, improved buildings, these are the things
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$\qquad$ our people as yet one of the unsolved prohlems. these difficulties boil down to one decisive consideration, and that is the financial considera-
tion. When agriculture is irr a position to offer
wages and conditions of work that are
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people stop to realize how , it aly and powerfully
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& \text { this eopsion has been aided by the organiza- } \\
& \text { tion of the firrancial world, by the mere ma. }
\end{aligned}
$$

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\begin{aligned}
& \text { transportation interests. It is not able to do } \\
& \text { so to-day. The profits in the business will not } \\
& \text { atand it. }
\end{aligned}
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\begin{aligned}
& \text { One other way there remalns by which an in } \\
& \text { crease of labor could conceivably be directed t }
\end{aligned}
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dency of events is against us. The startling
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agriculture. In these latter years, farming is be-
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FEBRUARY 18，
this might conveniently be described as the milch－
cow theory of banking．That indicates the part this might conveniently be
cow theory of banking．
he is supposed to play in
This then， 1 the situation．Agriculture i．s
awaking to new possibilities．The situation of awaking to new possibilities．The situation
our Empire also，in this world crisis constitute
argent demand for increased production ．T our ergent demand for increased production．To
an urgent
fulfil these possibilities，to meet that urgent de－
mand，the pressing need is for a large increase in mand，the pressing need is for a large increase in the amount of capital availabre，orise．And finally，
ditions，for agricultural enterprise
the present returns from farming．and our present ditions，for agresent returns from farming，and our present
the prese machinery of dinaed．
meeting that need．
Four．－And if this be the situation，what do Four．－And in
the facts suggest by way of improvement and
remedy？That is surely obvious enough．We need
first of all such readustments in the financial first of all such readjustments in the better re－
and economic situation as will give better rent
turns to the farmer．All enterprise responds turns to the farmer．An enterprise responds
wonderfully to the magic touch of prosperity． Let the farmer have a good experience of it and
see agriculture expand．Let the general public cease to delude itself any longer with the expe
tation that the farmer can be permanintly tation that employing his capital and labor for
guied into empor
inadequate profits．That state of aftairs will not inadequate protits．That state of aldairs whe the ther this is realized，
continue indefinitely．The sooner change is made，the better it
and the sooner a and the sooner a parties concerned．Let it be well
will be for all par to ther farmer need
noted too that better returns to the fan not always mean higher prices to the consume：
netter marketing arrangements，co－operative Better marketing artation and storage facilities，
enterprises，transportan
not operated exclusively in the interests of the Railwey companits and the middlemen－these are
matters that in the interests of both producer
and consumer aluke demand immediate attenion． and consumer and
If scientific production is a good thing why not
scientific distribution too－scentific mar．eting？ And if we wish to relieve agricutare of som ：
its unfair burdens why should we not insist on
scientific also？This if it did not actually．giie the farmer
more，might at least leave him more，which after all is the important mater．
But leaving aside ior the being thess portant and urgent questions，there is one othe
matter that cannot be taken hold of too promptly
and energetically．The situation calls for son and energeticaty．The situation cals ior son．e
re－arrangement or readjustnent of our financial
mather marcinery，or very probably for the addition of
mome new parts to that machinery such as will
sor make capital more readily available，in much
larger quantity，and on more suitable condition
than at present．Yields in agriculture fluctuate considerably from year to year．We may have a
gain due to a special spurt，or to unusually fav
orable conditions that will sem wonderiully RMER＇S ADVOCATE
 eminent success，under condicions not one whit
more favorable than exist here．It has be done for example，in the German Landischaft or land
mortgare bond system，described by C．F．Bailey in the excellent article already referred to in the In oher countries also the same end has been at－ It has been done；that is the point．It is he－
ing done to－day．Why should not we do it， adapting from tried systems and modifying and
developing according to our special circumstances and requifements？Why not？to this country．
Thrink what it would mean to per cent．on their money it would mean $3 \frac{1}{2}$ or 4 per cent．On the other hand try to conceive
what 4 per cent．mones would mean to hundreds of thousands of our younger farmers in this Pro－ pand and produce more．Try to conceive the agriculture would receive，and as a further con－ sequence also，the whole commercial and indus－
terial life of the nation as well．Why should we

## through

It is scarcely conceivable that serious opposi－ tion would come from the chartered hanks．They，
no doubt，would stand to lose some of the de－ posits in their savings departments．But any in－
jurious effect from that source would be vastly jurious effect from that source would be vastly
more than offset by the great increase that un－
doubtedly would take place in their business，due to the expansion of a revived and greatly strengthened agriculture．Everything that helps
agriculture is certain to help every other legiti－ agriculture is certain to help every other
mate interest in the land． This is not the place nor the time to present
detailed plans．They can be produced when they
That is needed now is to get oul are required．What is needed now is to get our
people seized of the main idea．We want con－ structive leadership，not nerative criticism，Miss
takes have been made，of course；dangers are to be run．That is the way with everything in this
world．We do not want reckless experiment．We do want ladership．Nound，caltons，conser at ve，
but at the same time progressive．We want to For our leadership where are we to look？A
new Premier has recently taker over the reins of Govermment in the Province of Ontario，younc，
alert，ambitious．If he will make this question his own，if he will make his covernment the in－
strument of establishing in this Province a sound system of rural credit suited to the needs，meent－
ing the demands of these new days－hat would indeed constitute a real contritution to the
rrosperity and happiness of his native land．To


Farming Problems in Great Britain

the rise in the price of British wheat and that
the squecze＂has been made by the German
clements at work in the United States． the squeeze＂has been made by the German
clements at work in the United States． still it was only as recently as 1877 that
English wheat was sold as high as 69 s －9d per quglish wheat was sold as high as od and in $1855,74 \mathrm{~s}-8 \mathrm{~d}$ ，but as much as 83 per 480 pounds was paid during several month f both tnose years．lluring the；Napoleonic wars average price of native English wheat was 126 s．per 480 pounds．In 1813 it was 109 s ．At
one time in 1812 ，however，it did reach 176 s per ＇quarter．Canada has become a factor in the have enjoyed a long run of normal years．Wheat in the day of＂Lester＇s Corner＇＂was almost as high as it is to－day but flour was actually 2 s er the four－pound loaf．Those were peace prices and occurred in a year when United States and and occurred in a year when united states and
hussia were both boasting abundant crops
Flour at the moment in London，is selling a Flour at the moment in London，is selling at
4 （ss－6d per 280 pounds and housewives are grumb－ Hing．J＇eople are blaming the shipping people for the rise allyround in the prices of foodstuffs．The shippers say rates have gone up alarmingly．Well，
if they have，it would look as if Germany really has got command of the seas even although sh： is doinf very little beyond slaying babies and
bombarding Saxon Ruins！
But the（iove：nment is going to enquire into things．At the ，early part of the war，the Government fixed the prices of foodstufts．The tinis ceems to have l，em for－：
gotten and the shippers an having＂a dip in．． Ceten and the shippers ans having＂a dip in．
 cheese sells at 84 s to 86 s for finest，and 82 s for
undergrades．These prices may be useful for a Perhaps，
something serious consideration，there is something in the shippers＇cry that dearness
comes because of the grat rise in freight prics particularly from Argentina．A still more seri－ porary prohibition oi exportation of wheat from porary，Indiationd Australia，Russa formerly exported 30 million quartrars or the Continent．In normal times，Australia exported eight million quarters，which was more than we ourselves could quite，last season s crop supply from without are largely restricted to Canada and the United States． Throughout the manufacturin 5 districts of England，what wage earners there are left to do
work are being well paid for as much work as
they can do，and can therefore as well afford to they can do，and can therefore as well afor the class．As a matter of fact，ever since the war
bergan there has been appreciably less unemploy began there has been appreciably less unemploy－
mutnt in the industrial districis of mid and northem lingland than at this time of the year
for many years． Farmers，who breed remounts and oth 2 horses as well as grow corn，naturally remind the people
who are pleading for minimum prices for wheal and other products of the land that they ar：still sumering sont ously from the sacrifices they recently they are being，requested to add every horse they can to the nation＇s stock；and that War Office buyers
armed with powers of impressment，might start another nationallevy，fixing their own prices，an
time．
 $y^{2}=\mathbf{x}={ }^{2}=$ $2+2=2=$ Pロボロージロ
 $\pm=2={ }^{2}=$ vavaveras park in the bethef that good payng produce．




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$\qquad$ affords an onportunity to bring honor and fame and cappital at
Would Would madertaking reasonably hopeful
of success
unable tion

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## Austea lian News．

Editor＂The Farmer＇s Advocate work of grading the seed wheat by the state Government，of New South Wales， next year＇s cr8p at a fixed price，is now going on．It will be a striking object lesson to the gone by．Thourh areat number rrade manure and fallow，there are many who do not do any of these things．It will be interesting to see if
they will profit by the practical advice which will be forced upon them．Tests made in Victoria this season showed that graded seed increased The year 1915 opens strangely．
even tolerably sure of their footing
has cast its shadow over eversthing．The changes creating hardships．There is plenty opportunits here to launch out in the producing arena，hut
the disturbance is the trouble．When wou ant bodies of men the trouble． oodies of men to change from activity in the wheat districts There is great taking up farming as a loop－hole of escape from guarantecing a fixed price for next season＇s grain， prise of primary production hey are receiving from wild at the treatmen that the duty be increased five－fold to shut out the competition．They say that whereas the con－
sumers here prefer the imported lemorrs to the local ones，owing to the get－up being better，that
the Australian fruit is in turn boycotted on the American market．The excuse for refusing to
handle the Australian stulf over there is that there is danger of introducing the fly，but thes argue that there is comparatively，little fly．It charge that they are Trust－ridden，and for the Australian grower to say why it is that the im．
ported fruit is so much better graded than his． Australia has no practical knowledge of the
consumption of horse－flesh，as in the cuntries of Europe，so it can be imagined what a surprise it tion to the authorities for permission to export this commodity－for use amongst the troops at the front．It seems that the application was
made on behalf of a breeder who owns a laree number of fat horses which are not of much use
for ordinary purposes．It is against the law here to offer such food for satw，but there does go to those who care to eat it．There is a
strong sentiment in Ausiralia ngainst this flesh For food purposes as well as an utter lack of
caste，and people here camot understand how any one could relish such a dish，but it is quite
a different story on the Continent．When a horse becomes useless here in the citime the is slaught he is destrosed and huried with almost as mus respect as that accorded a human bense farm imprement to the modern plant which hids
far to create a revolution in farm husbandrys It is a sub，soiler，or deep soil cutter，and at trial
of it at the llawkeslors College was witnessed by over 200 repprestmatiare men of the lamb．The diamond－shapedy frame，to which are attached How－like handles，and which runs on three
wherls．A lever maises or lowers the whed to
 which drives it into the eromed at startinge and
cont inually lifts then disturloed soil as the machine continually lifts the disturthed soil as the thachine As Wisconsin ㄱo． 7 and the Goiden（ilow were tivation．Followins is a tathe showing the resulty esults for thesce varietiese are not urserted for the mental worn with corn． 912 the results of that variety could not in （asst of pronuteng cors
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$\qquad$ It will be noticed from the table that it costs
slighty more to produce a large crop of corn
pert acre than it does to produce a smen crop． Gamba Basin scheme，which will be the biggest Ching in irrigation in the Southern Hemisphere
The water will be used by the City of Sidney and The water will be used by the City of Sidney and
the farmers of Cumberland．The wails of the the farmers of cumberlanda
impounding dam will risw to a height of 2275 feet with h length ilvt the widest part of soo feet．
This will conserve a total of 102 thousand mil This will conserve a total of 102 thousand mil
lion gallons of water．A tumnel of five miles lion gallons of water．
lengeth will be emploved to escort the water
tho servicn mains．it is estimated that th the ser ice mains．It is estimated that the served is not of a high－class character，hut heing in the production of foodstums for the Metropelit tractive as a reeult of the sucecess．of other


The Experience of Experts With Corn．

recently at Chatham，Prof．C．A．Zatuw，wi the
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$\qquad$ Mynasts．＂n the little attention given to the armers．The operations of selecting the proper poln test ing the setd and preparing it for the ing the cols sut seelect ing the hernels ly，takime a small lap－torard and slrelling first the tip and Thit kern ls from the cot，and discarding them for the corn on the Then intolling this hoard where of
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cabinet are practically wielding absolute powe
without checks of any kind, and that is danger
Surely the members on the ciovernment side can
discuss matters without always being on the de-
fensive, and members of the Opposition can offer
opinions without always opposing. At a time
benefit of thear best and sincerest thought they
silence will last. It seems to me somewhat
The strange silence that before a stornt
The present mysterious silence suggests deals
and other arrangements that are always danger-
ous to the public welfare. I hate to seem sus-
picious, but long experience of the ways of politi-
cans makes me doubt their goodness when they
are too good. It is too much like the wonder-
ful good behavior of children just before Christ-
mas. And while
"very, very good" a lot of the party papes are
being "horrid." It strikes me that this is a
time for "watchful waiting" on the part of ordin-
ary citizens.
This week someone sent me the following clip-
minated poster pasted on their editorial walls, this effect

THE BANFS SAVED CANADA
If they (the Baiters) do not admit that the
particulars, on receipt of a post card if, incleed,
they desin
Unfortunately he did not send me the name of
the paper, and I cannot write for this woder
information. I have a fairly well-grounded opin
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and se
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THE DAIRY.
The Male Calves of the Dairy.
Dditor "The Farmer's Advocate"
Our last article treated of the general point
in feeding and rearing dairy calves. In this w
shali discuss the question of male calves on the
dairy farm. It is often a problem to know
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Growing Young Tomato Plants for Early Use
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February 18, 1915

| use a brick or a piece ofl the end 't hen over the and press it down pret light layer of sand. This is to prevent the surface from becoming siopps after watering, thus effectivels forestalling the caking of the soil, which would, if not, prevented bake, and then smother the seedlings. It is wise to cover the trays with a piece of paper of baking and also to get out of watering irequently, because the fewer waterings they get till the first transplanting the las danger of damping oft. As soon as the some orm, with some seeds, such as egie plant, bout it also should have more than the chill la ien ofl. This wili stimu late germination, and as we are on at the phe thating will get hottom limal and in a temperature of about 80 in the dat and 7.5 at night have a green-homse you can control the keep the tomin! come good through the oo great depth, the surface, to prevent any air and heat aceess ow the gromed. <br> In this stage you may have trouble with your plants in the form of dampmg oftre and impure rule, is caused bence it bettor to err in light watering at this time and use it warm. When watering, see that the moisture goes right to the hottom of the trays, for the roots, exen of these small plants, if the soil is rich will spreal and rum all over in a most sumprising manner. ts soon as ty and should the moved along to the n-xt stage, otherwise the moots will berin to crowd and you will be behind with ? our contract <br> We thought when we were told this the first time that the fellow who fold ws was decidedly off. but because we had nower seen fransplanting, exept when the plants were about $x$ inches high. and we tried was becanse we didna <br> The how is this was: wet the plants the night before transplanting is to be dome, This will allow them to fill up on water enough to carry them over till they get a fresh rooting. From this stage on 1 have given the process in detail in "The Farmer's Idwocate" of necember 31 , page 2245 <br> We used nitrat. .ni sombto stimulate a quick krowth. This comes in crystals and may be applied in two wath or shimking a the soil. say teasponful to 18 plants after the sucold transplanting. Never let the soda touch the latase, ior it will destroy flants. It mas: in applad by discolvine in water and sprinkline hhich shower. and nust make a vent sallone of the coltage say 1 teant oronful to at |
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The Dark, Dark Side Of It
and press it down pretty light layer of sand. Thi
is to prevent the surface from herestalling

Uhen and How to Fight San José




The west that has invarded the sout hern orchards
of the Provirce mav he cheerful news to orchard
$\qquad$ sonable prices, and fair results wilf attend their
suse. But the good, old fashiond lime sulphur
has sot set met no victor. I Lime-sulphur, whether has as yet met no victor. Lime-sulphur, whether
homemade or sold commercially, is safe, effec

$\qquad$ Eome orchardists use pasoline spravers, scme hee don' with either if care he taker that the out
lit is in coocl condition, and that thee pump plumgers are carefult welackell hefore the spraying season commencis. Though there some to use mactice has shown the dise nozzle to be as reliathe aform as the wehardity can desire If the whole outfit is working will a hieh foint in dealime with the pest phar considera the onenemest twige tot the wo whote tree from the undersitles of the branchens are nexlected hhould camse bo amxime The cheapest ioh is - STRENGTH OF THE MXTURE - Timidity as to the effects on the tree has so far let prowers to use limmosulthur os mowhat Those who know recommend the use of slightly stronger sprays and assure us that no harm has resulted from their use. When using the comorial lime-sulphur, not more than spen gallons or water should be addled to one gallon of the
suid.
strength 1.035 will perhaps best meet a perhaps best meet no ill effects to the
ree have been ob-

sarved with strength
1.040. II hen the
home-made mixture home-made mixture
$\&$ used, it should always be tested as
to strength by means a hydrometer. TME, FOR AN
NLMBER
N PIIICATIONS. $\underset{\text { One }}{\substack{\text { On } \\ \text { horoughly } \\ \text { application } \\ \text { applied }}}$ thoroughly applied
will usually have the
desired effect an the desired effect in the
catse of any but batcase of any but bat-
Iy infested trees, but it is far saffers, to gut
ow
applications applications pert of sprayers is
liathe to msis out
simot- muknowingly Prot. unknowingly.
In any case it is best e it is best
out er
orough retwigs
hore missed
conscienTwo Experienced Marketer


THE FARMER'S ADVOCATE with the remark that they tried these remedies and for farm gardening, operations may begin on head, the most critical period is at hand. At
last year without success, and to some the hot bed about the end of March. Very sat- that time put tincture of iron, a few drops to a
then last year without success, and to some the hot bed about the end on obtained by sowing pint in their drinking water two or three times a
extent their contention may be correct. Two fac- isfactory results have been or meek if the birds appear droopy or languid, as tors encouraged an abnormal growth of the scaie in 1914 not found in the average year: First, terially decreased the killing power of the limesulphur through dilution, and, second, wall the
weather continued so long into the fall of the year that San Jose scale reproduced itself
November. This means that the small amount of November. This on an affected tree in Septemner had reached and passed the million mark befor
another lating reproduction is often made by farmers and others. "If," says the farmer, "I have one
thousand scale insects hatched in one month, I'll have four thousand hatched in four months. female scale and allow that she produces four two hundred, to be female and presume that each of these also produce four hundred young, hat
of which are female. We will then in two gen two generations are about the average numu. for ordinary years, but in 1914 two and a hall
or even three broods were hatched. The 40,000 or even three broods were hatched. The 40,000
females from the one original female gave b,irth to $8,000,000$ young. In other words, one extrn brief month of warm weather multiplied the numaverage.
The unsuccessful sprayer can console himsel
with the fact that in 1914 he had to conten with unusual conditions, but he should not lose for the pubescence of the twigs, and, therefore neglected to spray these as thoroughly as he might have done. It is advisable, therefore, to
take heart, and if at first you don't succeed "try, try again."' for home-made lime-sulphur making. These which have been given several times in thi
 Caesar, Provincial Entomologist, all queries that may be put to him concerning
control measures for this and other pests. He control measures for this and other pests. the
has aso kindly reviewed and approved this
article.

Preparing Hot Beds and Cold Frames.
A correspondert recently inquired about th
difference between hot beds and cold frames, an
their advantages. The following may be their advantages. The following may be
some interest to many of our readers just now :
The essential difference between a hot bed an The essential difference between a hot bed and
a cold frame is that artificial heat below i created in the former usually by the use of hors manure. Both require a plentiful supply of rich, mellow earth, preferably frack vegetable mould bush, or swampy creek bottoms.
$\qquad$ oretables and frower plants. and the cold frame or transplanting them into before putting in the
open garden or for the early growth of such plants as lettuce, radish and onions; both should be in a sheltered position from north or other
cold winds. After clearing away ice or snow becold winds. After clearing away ice or snow be
gin the hot bed by laying down a bed of fres
horse manure, well worked together, forked ove horse manure, well worked together, forked ov and solidly tramped down about twenty inches
deep, andl a foot wider all around than the frame.
which rests upon it. The latter is made of two-inch hy twelve-inch planks, or sound inch
boards of the lenkth to suit the sash. The back end should be a couple inches trigher than the
front slop,ing toward the south. About $2 \frac{1}{2}$ feet
to 3 feet by 5 feet is a handy size for the sashes
which ain

## POULTRY.

$\xlongequal[=\text { It must not he surmiserd, however, that it in }]{ }$
ger is evident of spreading the disease amongst
future hatches, if, for any purpose, these gerin
carriers are retained on the premises. They are there are other formst of bowel trouble amongst
chicks which may be mistaken for bacillary white diarrhoea, the is most correctly referred to by the one "The genuine white diarrhoea is frethat nay called "bacillary" because it originates
quently
from a specific bacillus or germ, and ihus it is from a specific from other bowel troubles which
distinguished from may be
feeding.
In common with most germ diseases bacillary white diarrhoea is very contagious. chicks are be-
makes its appearance when the
tween five and ter days old, and if they can be wought through this critical period without contracting the disease, they are safe as far as white
diarrnoea is concerned. The characteristic appearance of the infected chick is wea'\& and sleepy;
whitish discharge is generally to te observed a wound the vent. The chick is small for its age, and spends most of its time dozing near the
heat, or if it runs out with the others it is con-
tenually being jostled around by the stronger, tinually
healthie with them, but as a rule his amblition fails when he gets there, and he will stand and doze while
the others get the grain. Sometimes an affected
chick will show arr inordinate thirst and stand chick will show arr inordinate thirst and stand
drinking, drinking, until thoroughly saturated within and without; and then, chilled, and still
standing by the water, off he goes to sieep instanding by the water, off he goes to siteep inback and eyes almost closed, continually sounding a pitiful "peep-peep-peep,"
When a chick shows any of these symptoms despatch him promptly and burn the remains. It pays to way
day to discover and remove any new cases. Every
morning the space under the hovers should be exmorning the space under the hovers should be ex-
amined for chicks which may have died during
the night and the litter should be changed if it the at all foul or damp. Drinking water must be
pure and should be changed four or five times dariy the first three weeks; after that less fre-
duently will do, though it should never be allowed quently will do, though it should neser the dirty
to become dirty. Nothing is worse than ding
drinking water, and disease germs are left in the drinking water, and disease be taken up later by
fountans by sick chicks to be
healthry ones if the water is not changed before it becomes poiluted.
During the first four days in the brooder great
care must be taken that the little chicks do not pick at the droppings, for at this age chicks are
most susceptible to infection and will pick at mnything in sight. To prevent this, the space
under and around the hover must be kept scrupulously clean. If the chicks are kept in
the dark while resting they will not pick at anything, and while they are out exercising, a little
chick-size scratch grain scattered in the litter
will beop will keep them out of mischief.
Other possible sources of infection are dirty
incubators, incubators, brooders, drinking or feeding vessess,
droppings from mature birds which have previous-
ly had the disease, eggs used for incubatiom from hens previously affected with white diarrhoea
the hands of the attendant if he the hands of the attendant if he has previously
come into contact with infected matter. Much
of the danser frow such sources may he removed by cleanliness and the liberal use of disinfectants
about every place and vessel with which the
little clicks are linale of the most trying features of suppressing the
disease is how to avoid the consequences of incubating infected egys. It is impossible to th
by the appearance of the egg whether it is in
fected or nor disinfect the contents of a suspected egg without
destroying its usefulness for hatching. Chicks may he mildly affected by white
diarrhoea, recover, grow up apparently heaithy,
but they sill but they still carry the germs within them. If
these birds are usid as breeders they may in turn pass the discase on to the next generation by
laving infected oren the germs are often
present in the present in the wintuct of the hen and may be
transferred to thoth the contents and the outside
of the egg. Disinfecting the outside of the egy of the egg. Disinfocting the outside of the egr
reduces the danver somewhat, and it may he very
quickly accomylished without harm, by dipping the eggs in altorthol wist hout harm, hy dincubating. The
eergs will quichy dry off and may be placed
directly on the





 carriers are retained on the premises. They are confined to the parts commonly rejected. The giblets should not be used. Hence the wisdom of immediately killing off ail chicks which show
symptoms of the disease; for even if they recover, When one considers the widespread prevalence of the disease, it is natural to conclude that the
germs which cause white diarrhoca are to be
found in some members of almost every flock; found in some members of almost every flock;
and suck is indeed the case. Wien on poultry
farms where white diarrhoea has never been a serious menace, there are almost invariably a
few cases each year. It does not necussarily follow that all chicks which are exposed to the in-
fection succumb. Even in a badly affecterd hatch there are almost always a number which escape infection, and these are without exception the
strongest, most active chicks, apparently they This shows that apart altogether from samitary
measures, such as pure drinking water and the measures, such as pure drinking water and the
Iiberal use of disinfectants, vigor in the chicks
is a most important element in the control of
it the disease. Vigorous chicks can omiy come
from vigorous breeding stock-another important
point point. The power of vitality in strong chicks' to resist disease is what spared many large poultry
farms from serious loss before the control of the disease was as wellor
These men kept vigorous
vigorous chicks, hence wh
and practically not a case of white diarrhoea was
observed. The manager believes that somewhat better results are obtained by the use of pure
culture than from ordinary sour milk, although culture than from ord
Another valuable asset in the war against white diarrhoea is the "biood agglutination" test. This corresponds in some respects to the well-
known tuberculim test for tuberculous cattle, though the method of making the test differs in two or three drops of blood from the wing vein of the bird and to this is added a prepared serum
which shows a certain reaction if the bird is inwhich shows a certain reaction is phe hird is in-
fected. The test is said to be 98 per cent accurate, and it enables the diseasecarrying birds to be detected and removed from the breeding Mock. I.ast season the Poultry Department at
Storrs, Connecticutt, gave free tests to poultry men in that State, and guaranteed that mames and results would not be made public,- -the poultryman was permitted to do so if he desired. This enabled poultrymen to reject all reactirg
birds, and then advertise his flocks as free from In the many "blood agylutination" tests made the past season in different states the majority
of flocks had some infected birds. Probably if advantage is to be obtained the $\cdots$ blood agglutination" test will be introduced extensively in On-
tario, unless treatment will answer the same purpose

Poultry Products will be Dear in Canada Speaking in London, on February 11, on the
question of "Patriotism and Yroduction,"' Prof. F. C. Elford, Poultry Husbandman, Central Ex-
perimental Farms, Ottawa, gave expression to some alarming, yet, to poultry keepers, pleasing statements regurding the poutry situation in Canada. To the uninitiated in the Foultry busi The high price of grain and the comparatively low price of poultry products has had the effec of dampening the ardour of many an enthusiastic poultryman. However, by referring to conditions past and present regarding the future, Prof. Elford showed a silve lining to the clouds on the horizon of the poultry business. In this regard,
Canada is not feeding herself.
In 1891 the Dominion of Canada exported $11,000,000$ dozens of eggs besides dressed poultry Contrary to this, even as far back as 1911 , the
tide was turned and Canada imported $11,000,000$ more dozens of eggs than she exported. Cana more dozens of eggs than she exported. Canatwo and one-half hens to peach one of the popula tion. In 1914 there were 4.1 hens to each one dozen egge per capita. This may seem large a fiest sight, but when we take into consideration the 365 days in each year the amount of eggs eaten by each one per day is very smal indeed
A census in the State of Iowa showed that ther 58 dozen eggs were consumed by each person in the state in one year. Continuing with the question regarding eggs, Prof.-Elford said that the
$11,000,000$ dozen eggs imported last year from the United States are not in sight for the season of 1915, and it appears that Canada is notigoing Great Britain to be taken into consideration. Britains eat $12,000,000$ eggs per day and they only produce one-third of that amount. Four and one-half million dozens of eggs go to the 1 States, while the remainder of their enormous importation has been coming from Russia, France, Germany, Denmark, Austria-llungary and the Nether-
Iands. The circumstances at present makes the lands. The circumstances at present makes the
situation peculiar for the neople of Great Britain. situation peculiar for the people of creat Britain.
Manv of the countries and in fact the countries supplying the greater amount of eggs to Great Britaln are now at war and the speaker furthermore explained that in consequence of this there
was a future for Canadian eggs in the Old Country after the demand was supplied here at
home. There would be a call for a greater production of eqgs even apart from any patriotic
sentiment. which might be urged in ('anada. If every hen could be induced to lay one dozen eggs dozens more egys in ('anada or eight to
million dollars worth. Proif. Flford was awake to conditions in
Canada, at the present time, and explained why dresped poultry was so theap cand explained why
191. He explained it in this wise: In the of
In the 1911. He explained it in this wise: In the fall
of 1913, dressed poultry was very dear, dealers fillod ip their storerooms with high-priced sturt that commodity, consumption was decreased, in was held ower than wer before. During the fall
of 1914 dealers did not take a chance on purchas ing dressed poultry with the result on purchasing dressed poultry with the result that it sold
at a low figure but thalers in the larger cities
who are in the hathit of accumulating latge
tities of this product in their storn-rooms who are in the habit of accumulating latge
tities of this product in their store-rooms
that never before were their houses so emplen tities of this pr
that never befor
this commodity. grain and foodstuffs forced many to suly ince fowl even in an un itt dondition. Th. result of
all this is that there is not the amount oi lavin


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Guineas on the Farm

## FARM BULLETIN

Annual Meeting Canadian Myrshire

 have had to be met by our Board, requiring im-

## Robert Thompson Passes

Ontario lost one of fruit-growers through the demise of Robt. Thompson, of St. Catharines, which occurred suddenly on the morndeceased was President and General Manager of the St Catharines Cold Storage and Forwarding the St. Catharines Cold Storage and. Thompson was a prominent fruit-grower in the Niagara district, but his efforts were not only along the line of production, for he was a pioneer im all efforts
of shipping tender fruits to the far West or to of shipping tender fruits to the far west or to
Britain. He has occupied the highest seats in
, ore Britain. He has occupied the
theruit Growers' Assoclations of the Province, and he was well known to fruit-growers not only
in the Dominion of Canada but in Horticultural in the Dominion of Canada but in Horticultural
circles in the United States as well. Tmproved circles in the United States as well. Improved
methods in packing, shipping and handling fruit methods in in many cases, to the initintive efforts of Robt. Thompson. In all educational work
and endeavors for the betterment of social conditions the deceased was a consrsiantious worker. He was born at Ballahinch, County Nown, Ire land, 59 years ago and arrived in the Niggara
district with his parents on his frot. hirthday. Fruit-growers and Ontario's acrriculture in gencral will lose a staunch sunporter through the
Toronto, Montreal, Buffalo, and Other Leading Markets.




"The Dollar Chain"
"The Dollar Chain," through which the
readers and subscribers of "The Farmer's
Advocate and Home Magzine" are able to help so greatly the suffering in Europe, continues to lengthen. From every part
of Canada expressions of sympathy with and approval of the scheme are arriving.
We take the liberty of publishing a few
We take the liberty of publishing a tew
of these:





"Yours is a noble efrort to help the
needy and our protectors, and 1 . trust
you may have unlounded success."
Ward, Kirkton, Ont.
"I wish you all successacin your com-
mendable and much-needed effort on be-
thal of the brave sunferers." A. F. Cam-
eron, Pembroke, Ont.
 Wm. Mackintoqh, Southampton, ont..
seonds an appropriate
quotation

$\qquad$

glum."-Louise Sissons, Ilderton, Ont.
"As the leading agricultural paper of
the Dominion, it is seemly that "The
Farmer't
carmer's Advocate" should inangurate
campaign anong its subscribers to
somewhat
somemhat easier the sondritions to tor the
'man at the front.' Your appeal should
recelve enthuslastic support appeal should all.
"While the proin


Tired Ou
Russian infantry regiment resting in a small (Gulician village after desperate

 within the military standard, and to $\begin{aligned} & \text { Remington, Mossley, Ont; Mrs. Johnson, } \\ & \text { neutral peoples. The sacred duty and } \\ & \text { Bickford, Ont.; "A Friend," Newhoro, } \\ & \text { privilege of every physically-fit Canadian } \\ & \text { Ont.; Fred }\end{aligned}$ W. Muir, Wallenstein, (Ont.: privilege of every physically-fit Canadian Ont. Fred W. Muir, Wallenstein, Ont..
is to offer his services (giving his life if Wm. McBain, Gamebridge, Ont.; Miss M. M.
ing
 rest of us, we can but stay up the hands Magog, Que.; Mary Mclennan, Summers-
Mat. of our leaders in every way possible. town Station, Ont.; Mrs. Wm. R. Reid,
Your Dollar Chain is one way, and I am Blytheswood, Ont.; J. N. Greenlees, Allispleased to contribute."-J. N. Chambers, ton, Ont.; "J. S. H.," King, Ont.,
Woodstock, Ont
$\qquad$
$\qquad$Rudolf Thomsen, Carling, Ont., \$2.00; Ont.; Wm. Summers, Copetown, Ont.; ",\$2.00; Alfred G. Smyth, Vittoria, Ont., Pord, Ont.; Master Stanley Henderson
Wm. Thorn, Reaboro, Ont., $\$ 3.00 ;$ "One
of Your Readers," Newbury, Ont. $\$ 5.00$; Ferris, St. Williams, Ont.; R. W. Ballah, sufferings as far as possible, and whenMac E. Coburn, Puslinch, Ont., $\$ 3.00$; St. Thomas, Ont.; Mrs. R. W. Ballah, their territory is once more free from theand and
"D. D. S.," Huron Co., Ont., \$2.on; den, Ont.; J. A. I,awson, London, Ont.
Russell\$2.00; Wm. J. Harper, Oak Bay Mills, ville, Ont.; M. McNaughton, Ilderton. ."Belgium counted upon us; she has notContributions of $\$ 1.00$ each:- $\quad$ Ont.; Mrs. W. S.Jamteson, Aut. Mr. Frank counted in vain, we remain true to ourton, Onv.; Dr. F. H. Mitchell, Komoka, Hellyar, Rothsay, Ont.; Jno, Broadfor

",The needs of the Belgians appeal to all lovers of their fellow-men." ${ }^{\prime \prime-D r}$ Lyman Abbott, American divine, editor
of "The Outlook." of "The Outlook."
"No more woeful and terrible spectacle
of a country in utter desolation ever
camne from earthquake, eruption or other
convulsion of Nature in her wrath than
has been produced in Belgium by the
hand of man. A complete nation it in
ruins. A whole country is in ashes. An
entire people are destitute, honeness, and
on the roads. A little kindom, dedi-
cated to liberty, has kept the pledge
and died for it.". M-Hall Caine, English
novelist.

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novelist.
 of the whole Empire, that she may count failing support." ${ }^{- \text {Premier Asquith. }}$

## "A small nation found herself suddenly

* . . - We must ease the strain upon Belgium by every means in our power."-A.
Benson. (C. V. (), English essayist.
word. The r ord Chief Justice un-
 dared to blame. Far otherwise I She
has resisted what seemed irresistible;
she has sacrificed at once all that she shad
all that fhe was.

THE FARMER'S ADVOCATE.
villages, her wealth and her lite, she has
 Bergson, French Protessor of Re Rhliosophy

 out slowis, ono by one, on the untam liat






 a home, nor a family: they arrived like
jetsam cast up by the waters, and the
eyes of all were full of territied antruish eyes of all were full of territied anguish.
Many children, little girls whose parent. had disappeared in the stress of fire and he world, who had fled, hardly nowing
why, no longer caring for life, but moved y some obscure instinct of self-preserva ble throng, held cach other tightly by the hand, two , ittle bosy, obyviogs
brothers, the elder, who mavi nave been bout three. .an onie claimen them -an
 lane. that they too must get into this Were decent. and their little stockings
yere fore thick and warm: clearly they te
 allen heroicallyly on the battlefereld, and
 ome were they hy fatigue and stepinines. Hy tand They could ut they semen they



 one to the Ref Cross lady bendien
$\qquad$ was all thev were capable of wisthins, nl to pe put to beet
 against the other, they tull at the same moment into the irampull unconsciousness


Tivoli, Italy.

THE FARMER'S ADVOCATE.
TRRUARY 18, 1915
Special Work of the W men's Institutes of Ontario.
When a woman conceived the idea of
having a woman's organization for the having a womans omakers of Ontario and founded the first society at Stoney Creek, the
skeptics said, "It's a pleasant enough skeptics said, it will soon die out."
diversion, but it diversion, seventeen years ago. To-day
That was en's Institute of Ontario has a the Women sing and many places about ready for organ-
ization. What is quite as important, the movement has been extended to every
province of the Dominion, and never has
 activity as during this last year.
Cnlike almost any other women's organization, the Institute is co
almost entirely of homemakers
 and their fanilites unless these interests homem and tamily. Terhaps that is why


 Socks and shirts and pillows, and bales the Red Cross and Patriotic Societies,
they have run up to amazing figures
but figures do not mean so much as fact that nearly every branch respond
from the most prosperous of the settled districts to the poorest hamlet
of the pioner north, and every branch
is still workint whithe some organiis still working. Without some organi-
zation of this kind it would have been tmpossil.
rural d
oughly. oughly.
While the primary objects of the
Women's Institute were to improve the home and social life of the farm women,
the scope of the work has broadened
from these beginnings to undreamed-of possibilities. The exchange of recipes
and little talks on housekeeping methods has led to a systematic study under
qualifed teachers. Demenstration-lec
ture courses in cookine. sewing and home nursing are arranged for hy the Depart-
ment, and the work is developing rapidY. The Ihepartmont is also having spe Ites on the heathlh value and prepara-
ion of common foods, luluor-savint do
tices in ices in th
$\qquad$ a bread of comertainment, have developed
musemente from undesirable places of We for the founding of a People's Instigyte, with rest-romas, a reading-roon.
ghere sociulals and and and assembly hall.





 study of literary works, as where they neighborly and uplifting at fention to the
have established or improved public :oreigners. In a few Institutes, where libraries, or brought high-class enter- most of the members are farmers' wives, tainments and lecturers to the village. Co-operative esg circles have been formed.
In most sections it is possible to get Several Institutes have inade a specialty. excellent material from local talent, and of helping with the fall fairs. and of
the Institutes excel in getting the co- holding Institute fairs to encourage vari-
operation of every specialist or protes- ous lines of domestic art and to raise operation of every specialist or profes- ous lines of domestic art and to raise
sional person in the district. Especially money fur philanthropic causes. In some
mone has this been helpful in getting demon- places this winter the Institutes have
strations in horticulture, bee culture, found all they could do to take care of
etc. Several Institutes have taken ad- the needy familics in their own locality, etc. Severa Thetivers have taken ad- the needy Tamilies in their own Iocality, the local school board to form technical undertake are left to the best judgment
classes for the
of the individual societies, and they have It has been gratifying to note that in proved this year, as never before, the
the face of the present hard time, the high ideals and the stamina of their

Girl in Serajevo, the Capital of Bosnia


<br>

Hope's Quiet Hour.

Master and Servant.

a.
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20

| ghting, heatine, Atid sanitary drinkingountains secured, hells, pictures. games, |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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IN YOUR OWN HOME
By the oldest and most Reliable School
Music In America-Established 1895






AMERICAN SCHOOL OF MUSIC



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SEEDS

Better Seeds at Better Prices.

 present prices.









Allow 30c for each Cotton Bag
 Materinil. Manemetsenand Tumine

Geo. Keith \& Sons 124 King St, East, Toronto, Ont.

februali 18, 1915
Learn to Play The Piano in One Evening You Can! Here's the PROOF


 wood. Ont play the first piece in 40 minutes and
neveruld
never tried a note orn the paino before.- Mrs.
 "My nephew,
to play
Burton City,
on


## - Piano Before."

AA Simple as A.B.C. because it is nothing but
 above shows Aou where to put the fillustration
both hands. Anyone can learn to play the
bet
 Try it FREE in Your Home




| WILLING WITNESSES <br> DY by day we are testimonial letters from policyholders whose Endowment contracts are now maturing. <br> These are our willing witnesses and testify to the good faith of The Mutual of Canada. <br> No wonder! For they are receiving from $\$ 110.00$ to $\$ 190.00$ for every $\$ 100.00$ invested in premiums, to say nothing of the <br> The amount of the return, of course, varies with the term of late! Take an Endowment pecuand share in the prosperity of <br> THE MUTUAL LIFE assurance compaiy waterloo, ontario |
| :---: |
| cawrence Sugar <br> Buy St. Lawrence Granulated Pure Cane Sugar in original packages, ind get pure, clean, perfect sugar. |
|  |

THE FARMER'S ADVOCA'1E
257




A Well-Designed Barn Costs Less to Build

It will pay you the have carcful plans made for your barn this Winter. You mily build or remeddel once in a life-time, and now is the time to make sure that the work is going to be done right. Get the fisures on the cost of the werk. Find out where you can improve your houn, and at the same time actually save money. Remembere that it coits leas to build or remodel a barn

## Let Beatty Bros. Help You

## Send Sketch of Floor Plan

arrice to farmers and dairemen koes far berond that
wert ond armers and dairmens.

 vantake, and slow them how to intall their eypuipment so it will give the best service, bint we advise alnout hamion, dranage, The troublesome matter a furmer has to deal with when his Our Free Service We studve the individual needm of every furmer aty


 have plenty time to investigate. overy thins write us the make any final alteratims on the plans thin vinu

B T BT 1 BT

FEBRUARY 18, 1915


A Well-Built Stable Is A Good Money Maker
well-built stable, properly equipped with BT Galvanized Steel Stalls, is a paying investment on any farm. It is sanitary and is a pleasant place to mure. The At is very casy to keep cleathey get more fresh air and sunlight. They ar. lined up perfectly over the outter, as shown in the photo above, so their flanks and udders are kept clean. At the same time the swinging stanchions ate comfo din, and lowing them to turn their heads freely, card themselves on any part of ment ment production

## BTGalvanizedSteelStalls



february 18, 1915
I do not like to telk of things I do
Iot understand; but inave heard two
I have devil carried of understand; but I have heard two
inions. Some say the devil carried e seed from hell, and planted it on he earth to plague men and make
them sin; and some say that, when all Che plants in the garden of Eden were
fulled up by the roots, one oush that te angels had planted was left growng, and it spread its seed over the
whole earth. and its name is love. I
I not know which is right-perhaps
oth. There are different species that oo under the same name. There is a
pove that begins in the head and goes ove that beging in the head and goes
own to the heart, and grows slowly;
it lasts till death, and asko ut it lasts till death, and asks less
an it gives. There is anothe hat blots out wisdom, that is sweet
ith the sweetness of life and bitter vith the bitterness of death, lasting for
sith an hour; but it is worth, having lived
a
ande werhaps the old monks were right when
they tried to root love out; perhaps the they tried to root love out, perhaps the
pots are right when they try to wate
it. It is a blood-red flower, with the color of sin: but there is always the scent of a god about it. There are a owers: everlastings that never withe
speedwells that wait for the wind fan them out of life; blood-red mountai
lilies that pour their voluptuous sweet ness out for one day, and lie in th
dust at night. There is no flower that has the charm of all-the speedwell's purity, the everlasting's strength, the
mountain lily's warmth; but who knows whether there is not a love that holds all-friendship, passion, worship?
And these are words of Waldo "O all the things I have ever seen,
only the sea is like a human being. only the sea is like a human being; the
sky is not, nor the earth. But the sea to always moving, always some
thing deep in itself is stirring it. It thing deep in itsel is stirring it.
never rests sit is always wanting, wan Ing, wanting. It hurries on: and the
it creeps back slowly, without havin reached, moaning. It is always asking a question, and it never gets the an-
awer."
Nor does the teller of the story leave Nor does the teller of the story leave
us sure as the" whet her Waldo has ever got
the "answer") to his life of questioning. until he lies there at last, with the
little yellow chickens climbing over his
black curls. She foes not tell us; the
St instinct of the artist will not permit her
to do that,-perhaps she herself does not Arican veldt there is the breath of
peace. ("The Story. of an Arrican Farm," by
"Ralph Iron."- Olive Schreiner. Pub-
lished ty lished by little, Brown \& Co.. Boston,
Mass.)

The New House.


THE FARMER'S ADVOCATE.
Ideald Fence
The Extra-ValueFence
Your scales will tell you that rod for rod, style for style, "Ideal"" is the heaviest Fence you can buy. That extra weight durability an i extra value for your money. "Ideal" has that snappy, springy, hard steel full gauge No. 9 wire that you want in your Fence-that heavy but even coating of galvanizing you insist upon. Every wire
and every spacing is as represented in and every spacing, is as represented in
catalogue. "Ideal" is made with even
Her or man Rect

## Mister Farmer !

You have only one life to live here Why not get the most out of it ? The real pleasures of life are right in the home-particularly when the home is built of Milton Brick, and now is the ime to get busy on it. All building a is now moderate in price, but material is now-moderate in price, bu everything you have to sell is away up So it looks like good times ahead for the farmer. Write us right now-to day-for samples and price

## MILTON BRICK

ite to-day for our book, and learn why Milton Brick is the best brick. We will also and samples and prices, and our representasend samples and prices,

MESSRS. THE MILTON PRESSED BRICK CO. LIMITED Milton, Ontario
Gentlemen,--Please send me your free book, "Milton Brick"-an aid to better building.


Perkins 7 H.P. Engine and 8-Inch Grinder Will Grind For Less Than One Cent Per Bag


(Signed) Yours truly
PERKINS WINDMILL AND ENGINE COMPANY 90 King Street,

Where fireplaces have been put in, ox-
terior chimneys reaching from the ground may be very effective ; in other
places the chimneys may be grouped places the chimneys may be grouped, or
built of a style and height carefully

Windows are another detail that must be carefully considered in planning for the appearance, as well as the utility o
a house. Nothing, perhaps, can ad morp, or detract more, from its beauty than their disposition and size. Generally speaking-and especially for
living-rooms, drawing-rooms and dining rooms-they are most effective, both "o
lighting and for effect, when they ar lighting and for effect, when they ar
grouped, an arrangement which aloo per
mits taking adventage of a fine vio grouped, an arrangement which also pio
mits taking advantage of a fine vio
when one is afforded. They need no when one is afforded. They need no
be high-the day of the long, perpendicu-
lar slit in the wall is past, lar slit in the wall is past, forever it
is to be hoped-but they should pive th
effect effect of generous breadth. Three or
four, grouped thus Your, grouped thus, are, like a fireplace,
a great acquisition to any room. They really help to "furnish" it, permitting,
as they do, of a very attractive ar
rangement of curtaing Small panes, at least for the upper
sash, are seen on many of the prettiea sash, are seen on many of the prettioai
houses. They do away with the appearance of mere gashing in the walls,
and look somewhat cosier from within the reason, as you may remember, why William Morris preferred them. The
only objection is that they are rather only objection is that they are rather
hard to keep clean; dirt will insist on lodging in the corners. A way to obviate this, however, that has been
successfully tried, is to let the windows
themselves be of ono large pane to themselves be of ono large pane to each
sash, then have a woodwork frame sash, then have a woodwork frame,
made as if for small panes of glass, quite separate. This frame swings out-
ward, free from the glass, and may be easily brushed clean with a feather
duster. "Pediment" windows, by the way, are
almost as obsolete as last year's tight
skirts skirts, roof windows taking the form,
for the most part, of groups under a for the most part, of groups under a
single, depending roof, although dormer
effects are quite suitable in certain situeffects are quite suitable in certain situ-
ations. Bay windows, also, have someday they are bay windows of old glori-
fied. Usually they swell outward quite
alo. fied. Csually they swell outward quite
along the end of a room, adding to itt
size and providing a spacious cornor size and providing a spacious corner
Por window seats or plants. The effect,
within and without, is quite different
from that af the crescence,
A latist in regard to windows
L.eave stained glass for churches and Leave stained glass for churches and
wublic tuildings where enough monyy
can be spent to secure really artistio productiont. If you want Pancy win-
dow efletstanywhere fall back on leaded
panes of clear glass in small diamonds panes of clear glass in small diamonds
or squares. So you will escape any ac-
cidents of vulgarity. Casement windows, by the way, are
delight, if constructed well enough to
be tiont. when doaired. in be ung, when desired, in winter
Swinging open as they do, from top t
bottom, bottom, they admit all the breeze there
is without interfering at all with the

## PATRIOTISM@APRRDUCTION

## Complete Now Your Plans for the Year's Work

Canada, this year, cannot produce too much staple food. No matter how large her surplus for export, there will still be need of more focd in Europe and Britain. The Canadian Government, therefore, urges all farmers and producers of food to attend the series of Conferences now being held throughout the Dominion under the direction o Canadian Department of Agriculture. Let farmers get together at thes Conferences and discuss the vital questions of the day. Agricultural Specialists will

## ATTEND YOUR CONFERENCE

also be on hand to give valuable infor mation as to the food products the Empire and her Allies most need, and to offer suggestions to increase production.
The important thing now is to complete at once your plan for the year's work - for increased production. By planning well in advance, each month's operations can effectively when the time comes. Delays later on, through neglect of this, will mean loss to you and to the Empire.
mean loss and use no others. should be thoroughly cleaned and selected to retain only the strong kernels. You can
reap only what you sow. It reap only what you sow. It
does not pay to sow weeds. Clean seed means larger crops and helps to keep the land clean. ready, put it through the cleaner
once more. once mor
Test Your Seed
Test your seed for vitality,
too. Seed is not always as too. as it looks. For example, goods, quite normal in appearance
and weight, may be so badly damaged by frost that their
value for seed is completely destroyed. If you have any doubt as to the quality of your seed a sample may be sent free to the see laboratory at Ottawa or Calgary, for test. But in
most cases this simple test will prove sufficient:-
Take a saucer and two pieces Take a saucer and two pieces
of blotting paper. Place seed between blotting papers. Keep moist and in a warm place. In a few days, you will be able to see whether the vitality is
there. Neglect to test your seed may mean the loss of crop.

| Committees in every Town | organizations could advantageously finance such work. Every unemployed man in the town | Free Bulletins <br> The Government urges farmers |
| :---: | :---: | :---: |
| The Government suggests | or city who is placed on the farm becomes immediately a | and other producers to make a wider use of the large mak |
| the forming of an active com- | producer, instead of a mere con- | wider use of the large number |
| mittee in every town and city, | sumer and a civic expense. | Canadian Department of Apri- |
| composed of this com | With Britain and her Allies | culture, Ottawa, or your Pro- |
| mittee would find out the sort | a national loss, in fact a national | vincial Departments. There are |
| of help the farmers of their | crime, to leave in the towns and | special Bulletins on selection of |
| locality need, and get a list of | cities any unemployed men who | that, yousting, early planting, |
| the unemployed in their town | are capable, as thousands of | fill in and mail thave. Clip out, |
| or city, who are suitable for farm labour With this information, | them are, of being of assistance | and get these Bulletins. |
| the committee would be in a |  | Send your coupon by first |
| good position to get the right man for the right place. <br> Councils, both rural and urban, | Have you a house on the farm for a married man? A real home for the farm labourer will | mail. Do not put a stamp on the envelope. Your coupon will be |
| boards of trade and other | solve this problem. | "On His Majesty's Service," |
| Canadian | ications Branch, | n Depart |
| Department of |  |  |
| Agriculture, |  |  |
| Ottawa, Canada | P.O. Address |  |
|  | County |  |

organizations could advantage-
ously finance such work. Every or city who is ince town farm becomes immediately a sumer and a civic expense. calling for more food, it will be a crimenal loss, in fact a national cities any unemployed men who them are, of being of assistance Have you a house on the farm home for the farm labourer will
 The Government urges farmers wider use producers to make of Free Bulletins issued by the callturan O Ottawa, or your Pro
cat vincial Departments. There are
special Bulletins on selection seed, testing, early planting fill in and mail have. Clip out and get these Bulletins.
Send your coupon by firs
mail. Do not put envelope. Your coupon will be "On His Majesty's Service, d will travel free
sidered the porch, the veranda, and
the sun-room or constrvatory fore of which may be decided une or to be satisfractory, must be brande,
enough to be sociable. People canl feel at home strung along on a a shall: nake the veranda broad enough to fur
nish it like a room, with tables and
easv-chairs, and easy-chairs, and a hammock or two to
boot, and see how naturally the family will gravitate to living the whole Satisfactory at the end of a house, prot will provide a shaded resting phere for hetle with the free entrance of the sung
light. Nature's own disinfectant, into the living-rooms. If it be made in the
form of a doutledecker. the upper tion will be found invaluable for airing "here a veranda is not practicable
the porch, usually intended as a protea
tion to the door and vantage ground for plants, may be extended somewhat, stantial, three-foot balustrade, preferab-
Iy of stone, if that will harmonize with the rest of the house, extending from
the steps at either side to enclose the
porch, will be found to add to its cosil porch
ness. More easily in the country than in the
city, nevertheless it is much prized by
(hose who own it. In wany cases the reranda is arranged so that it may
be enclosed with glass in winter, and
used as a sleeping-room, the glass bo ing arranged slide-wise, the glass be
heated by a pipe from the room Whed by a pipe from the furnace.
other cases the sun-ronom is simply
cornur of the houl with windows. and used for easy-chairy
and plants, serving as conservatory
$\qquad$

## The Farm Labour Problem

This is undoubtedly one of the mest difficult problems to solve today. There is a surplus of labour in the cities and towns and a shortage in the country. Careful handling of the problem is necessary. Under present conditions, in addition to looking to the Governments for help, the necessary work should be largely undertaken locally

Committees in every Town The Goverment suygests
the forming of an antive comm omposed of town and couts hen and women. This com mitte would find out the sor ocaity need, and get a list of the unemployed in their town ch, who are suitable for farm he committee would be in good position to get the righ Councils, both rural and urban

Canadian
Department of Agriculture,
Ottawa, Canada

> Seed
> This year, for the sake of the Empire, farmers should selection of seed. Cheap seed is often the dearest. If every only the best varieties, and sow on properly cultivated soil, the would be doubled. Deal only with reliable seedsmen. Write of Agriculture, Ottawa, and to of Agriculture, Ottawa, and to
your Provincial Agricultural Department, for information as to the best varieties of seed to be
$\qquad$ Sydney Basic Slag
Ontario Farmers are being exhorted on all hands to increase production. The most certain way in which this can be
achiced is by using Commercial Fertilizers and we ask you to buy Sydney Basic Slag because it is the best matters. Here is the proof.
$\qquad$ lar taly ten years has doubled the average yield of her field crops
largely through beed, thorough cultivation and use of
Fertilizer. (See Toronto Globe, $1: 3$ th February).
$\qquad$ Sydney Basic Slag is one of the cheapest and best Fertilizers
known. (See Farmer's Advocate, 4th February, page 158).
$\qquad$
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$\qquad$ amony your neiphors

The Cross Fertilizer Company, Limited


## THE LISTER SILO



8-IN. THREAD
8-IN. THREAD
HEXAGON NUTS DOOR FRAME
BEVELLED AND
RABELTED
RAB
RABBETED
FIT DOORS

ONE-PIECE
DOOR END
RESTING ON
HEAVY
DRESSED
CROSS BEAN CROSS BEAM
WHICH INTER LOCKS INTO
LINTERSIDE OF DOOR frame
patemt tupurep for

Perth Co., On
Not an "Encyclopucdia," dear friend,-
just a fairly good "hunter," in editorial work must her," as everyone Here is a list of books that may be suggestive. Write to the publishera tor
prices: "Belgium," by Geo. W. T. Omond Nab. by A. C. Black, Soho Square, Lon "Germany and the (ierrman Emperor,' by G. II. Perris. Mcc llella.ad, Gooderild
\& Stewart Pub. Co. L.td. Tor \& . The French in Town and Country, by Hannah I.ynch. Pub, by Coorge Newnes, I.td., London, Eny. Worgy
.Nonarchical sociulisul. by Elimer Roberts. Clias. Seriboer, Sons, New York.
..Germany of To-day," " hy Chas. "Towe Pub. by Willinms \& ©orgate, London
 Pub. by The University Iress, Mancher "Industrial Germany," by w. H. Daw
son. Colling Prese "'Austria, Her People, and Their Home lands," by Baker. John Lane Pub. Co. "The Gierman Enisma," by George the $\begin{aligned} & \text { celdob. Introduction by Chas. Sarolea } \\ & \text { the }\end{aligned}$ Belgian protessor and author, who is coming to Canada in tha near future. Publ by
Sons, I.td., London, Eng.
celery salad-meat pie. Dear .Lunia, -May I come to you for : little help ? We have taken "The Fariu er's Advocate for some time, and thin tell me how to make celery collad peas a good crust for a meat pie? Thank ing you in advance. MRS. W. ©. Celery Salad.-Mix together equal quai tities of chopped celery and apples. Ad some chopped nutmeats and mix with
salad dressing.
Serve on lettuce leare salad dressing. Serve on
or celery tips.
arne loat with + teaspoon baking powder and pinch of salt. Rub in with the finga
tips 2 or 3 dessertspoons of hutter tips 2 or 3 dessertspoons of butter
dripping, then, with a knife mix to dripping, then, with a kife mix
stiff paste with a little sweet milk water. Roll out at once (never knea pastry) and put on pie; brush over witt
sweet mik and bake (in a quick oven al first). Three ounces of suet, fnely chopped, may be
butter or dripping.
removing stain.
Tear Ingle Nook Friends,-For you are all friends to me, although you do nol
hnow me. I have found out so mans helpfulu things it has made me greedy for
mere more. I have had tea spin on an ew
broidered cotton voile. (an anyone help me about it I 1 have poured lots
boiliny water through it. ${ }^{\text {Then I }}$ I read to soak it in milk, but that ony made
it worse. I have not used any soap on
it It It is fine to have the Ingle Nool
to come to in trouble, and I do not even orten. wish thad some knowledge to
 help me, and that you may all haver
happy and useful year, I am your friend happy and useful year, 1 am your
Ferth Co., Ont. "Scientific" American" gives the follow: (1) From white cotton and linen goods - Water, followed by sodium hypochion-
(2) From colored cotton and linenaqueous soap solution and anden
(3) From white silk and woollen gools (3) From white silk and wastium permanga
Water, followed by potass nate, then to remove the brown matit
sulphurous acid solution. (4) Colored silk and woollen goods.-Water, by hydrogen peroxide, in the asirits and
to this; î not, use methylated svery thor oughly.
ink stains.
N. Wentworth Co., wishes to know now remove ink stains from onllace by rinsing with clear water, and finlly
with ammonia water to prevent rotting, with ammonia water to prevent roting.
will take out ink stains from wite wil take out ink omedy is buttermilik: took out stains from a pongee elleero

# Theonilypalinew dead BearsOur Tradellark and Cuarantee 

"NEW IDEA" is the name of our famous gearless spreader in the regular standard type. "NISCO" is the name for the low down
machine. Any machine masquerading under a similar name is a machine. Antan.
rank imitation. with more strong features than can be mentioned hereakage from any cause machines is GUARAN the machine with the AXLE FEED, and INSIST on getting it with the STEEL DIS號 you're buying a spreader. The special features on both of these machines are fully covered by take no other, for any other protected by Registered Trade-Marks. Insist on is not the real thing, as the new improvements, make using a similar name is an imitation, and of special design have just been brought out by us the AXLE FEED and the to

# Easy to <br> \section*{Load The"New Ideai Empty} 

Low down easy loading light draft spreaders that are prime favorites with every farmer who has ever used them.
The NISCO stands only 41 inches high to top of sides, yet has 19 inches clearance under conveyor. The top of sides, insuring cylinders enable you to load a full capacity spreader. low as machine that tracks can be built, only 42 in . high at the rear wheels. This has always been the favorite machine in the Dairy Sections and in hilly countries, and we are pushing it stronger than ever. The latest improvement on this machine is the STELL STAL Of course the NEW IDEA has moving strain from the sides. DISTRIBITOR, the same as the
ssco.
Special Feed Mechanism and Steel Distributor Found Only on the
"NEW IDEA" and "NISCO" "NEW IDEA" and "NISCO"

Wide wheels on both machines, of a very heavy type, insure
sufficient traction power. The perfect pulverizing mechanism sufficient traction power. The perfect pulverizing mechanism insures light draft and prevents chaterial and labor is used. The strong braces used on the sides and the top brace over the cylinders prevent cramping of the bearings. ngs of an improved type are used SIMPLICITY and DURABILITY have always been our watch word. Two levers and a little foot latch operate the machine, and it's so simple that any boy can handle it. One lever throws the machine in and out of gear, and the other lever gives six changes of feed and the foot latch can be used if wanted for stopping the feed entirely if you

AXILE FEED-Here's a big feature. The rear axle turns with the wheels when going forward, and stands still when backing. )ne end has the sed it's very steady, and has a wider range of adjustment than is possible any other way. Besides, it is noiseless, doing away with the clicking of ratchets which is so annoying to many teams. years experimenting and testing out. It is STEEL DISTRIBUTOR-This is our latestiness like a whirlwind. Whenever a farmer sees this distributor at work heen sowed increasing our sates rapian and it spreads 7 feet wide, and so even that a fleld covered with manure he ease on your horses and the wear on on. This wide spread saves you half a mile of traver
the machine saved.
There are scores of other BIG Features on big Money-Making Proposition for Live Agents
 A profit maker for every agent who is successfur in getting our sales to 10,000 machines for the year, as every agent can easily sell 10 machines. We help to sell the goods as our five advertising campaign will bring thousands of inquiries. We have opptoy a large numfor Canadian trade and carry a big stock for prompt shipments. we empor liberal.
ber of travelers to help our Agents sell spreaders, and our terms are very We want one good hustling Agent in every vicinity, a man who
and who is not afraid to talk a






Reading in the Farm
Home.
Ry T. A. Tent.
A common testimony of housekeepers is
 great that even it they get a little time the day, referring particularly to the they are too tired to read or study.
Reading has been pursued in a pertunc-
tory way norhans und ha cenced to be tory way, perhaps, and has ceased to be
a recreation, or the habit has become
lost in too close attention to the practical, and the doligh which was once
ootained from boosk has been 1ost. Per-
haps, in the eflort to provide the home haps, in the eriort to provide the home
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FERRUARY 19, 1915

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Our Serial Story. PETER.

Wirel of Which lie is Not the Hero


 is strong and rugged enough to pro largest capacity．The main gear and intermediates have bearing
$21 / 2$ inches long．The gearing would
be sufficiently heavy to drive a bowl of even 2,000 pounds capacit Think what a tremendous margin
of strength this means in our 350

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Beautiful Walls For Your Home
Sanitary, Fire-Proof, Inexpensive

Make your home more attractive, and protect it
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Owing to the cessation of immigration, due to the war, farm help may be scarce this year and farmers are urged to send in their applications at once possible disappointment.

Address applications,-Bureau of Colonization, Parliament Buildings, Toronto.

Hon. Jas. S. Duff,
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that the word "flour" covers a wide range of grades. Since he is responsible for the cost as well as for the quality of all bread, pastry etc., that comes from his kitchen, he is only too pleased to use that wonderful

## PURITY FLOUR

More Bread and Better Bread-Better Pastry Too

## Colilliche <br> qoes furshest-costs least coffer

One spoonful of 'Camp' to one cupful of builing water. No dregs, grounds, or waste. And you couldn't have a better cup of coffee if it cost twice as much. Don't the Children look forward to their 'CAMP'?


FEBRUARY 18， 1915
his age should be so excited over a mere his age shonosition－really not a propo－
business proposit when he came to think sition at all，when he camstion asked．
of it－just an ordinary question of it－just an ordinary quif．It was quite
He must compose himself this way．But He must compose go on this way．Rut
absurd for him to would the boy never come？it was
would be in ten Your
minutes，and－and－
young toward the door and calloh ＂Ob！such good news！Mr．Guthrie＂ bought the property ：reared spring from the
He had made one long gidewalk up three flights of steps to the old－fashioned door，but he
old
breath to gasp the glad tidings．
breath to gasp the glad tidings
eBought1－Who ？－not Guthrie
 crayy with delight！＂＇peter，＂Hurrah ＂Hurrah，＂shouted reter．
I say！This is good news！Well ！－ I say！
Well！＂ $\begin{aligned} & \text { The was stim bending over him，}\end{aligned}$ his eyes blinking in his joy，scurries of irradiating sniles chasing each other
orer his face．Never had the old gentleman been in such a state．
gentlema
＂And
＂Guess．＂
＂Guess．＂
＂Will there
ten thousand＂．
 but he still held in．＂，This came
＂Twenty thousand ？＂ fimidy，tearing that it was too much， etting dangerous． ＂Twenty－five thousand ？＂Peter＇y
wice now showed that he was convinced oice now showed that he way Hort the
Horet
＂Thirty－five thoussand，Jack ？＂It was retting hot；certainly this was that
limit．Was there ever such luck？ ＂Yes！－and five thousand more！Forty the output！Just think what Ruth will say．I＇ve just sent her a telegram． And then，with Peter drawn up beside im，his face radiant and up beside
parkling with joy，he poured enes parkling with joy，he poured out the
tory of the morning．How he had be ory of the morning．How he had be
jun by telling Mr．Guthrie of his own
nd Mackarlane＇s opinion of the prop and Mactarlane＇s opinion of the prop－
erty，as he did not want to sell any－
thing he himself considered worthlect how he himself considered worthless．
low thim frankly what Peter lad said of his－Mr．Cathrie＇s－fairness
and honesty：how he was at work for
hot his prospective father－in－law，the dis－
tinguished engineer of whom Mr．Guthrie had no doutto heard－at which the gentle－ man notded．How this property had
heenn given him thy his father，and was
could earn；how fine already owed ten
thousand dollars and had pledged the
property as part
property as arlars and had pledged then
view of these facts，be wand how，in sum over ten thousand wolld tars that an M ． Giuthie would givand him．provided Mr
Guthric whoulth il was worth that
 land，young man，＂＂hen banker had said
1 know it．sir．，and 1 am willing to
 ahich Mr．Cuthri．had laughed in a
kindly was，and had then called in Mr． Ballantree and nomther man：how the
three had then talloul in a corner，and






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the boys in

ГHE FARMER＇S ADVOCATE．


## The Northern Life Assurance Company of Canada

Extracts From The 18th Annual Report
For Year Ending 31st December, 1914
During the year satisfactory progress was made in all de partments, the following facts being noreworthy

1. The Insurances in force inow total $\$ 10,393,267.75$, the net increase for the vear being $\$ 3+7,163.25$,
$2^{2}$. The new business written, incluting revivals and other dditions amounted to the sum of $\$ 2142$ 869.25
2. The Company's Assets were increased by the sum of 86.55 and now total $\$ 2.328,884.90$
3. The premium income amounted to $\$ 370,838.71$, and the total income to $\$ 500,345.20$, which is $\$ 53,530.90$ more than or 191
\$70,454.02
4. The Reserve Funds held now total $\$ 1,682,345.16$, being an increase of $\$ 206,536.75$. This permits of an increase of $\$ 190,112.59$ in ordinary reserves, and creates a special fund of $\$ 16.112 .59$ to provide for the increase in the standard of


The sum of $\$ 53,595.28$ has been added to the existing surplus, which now over all liabilities to policyholders amounts to $\$ 610,477.93$ and over all liabilities and capital totals

HEAD OFFICE - LONDON, ONT Dominion Savings Building
T. H. PURDOM, K.C.
W. J. McMURTRY
President.
General Manager.

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Holsteins and Clydesdales 0 Richly Bre Y PLBLIC AL"NION

Henfryn, Wednesday, March 3rd, 1915

 Every anmad attered mins, wh the highest bidder without reselve. Th

RICIHARD CIARKE, $\overline{\text { R.R. No. } 5}$ ATWOOD, ON'T
I6478

PRESTOR
SMivedes

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$$ get some information from Jones about

'But after the chores are done and the supper cleared away, you think of the effort
needed to go out. You think of hitching up the needed to go out You think of the long drive the late return home. You think of putting up dim light of a lantern.

$$
\begin{aligned}
& \text { "You think of all theso things and then, } \\
& \text { tired already from your day's toil, you decide } \\
& \text { not to go. You need recreation, but the effort }
\end{aligned}
$$ required to get it is too great. So you stay

Other Interesting Chapters Are: A Broader, Brighter Life for the Women
$\qquad$ " City advantages without city draw.
$\qquad$

Send For This Big Instructive Book. It Means Much To Every Canadian Farmer. It's ${ }_{i}^{*}$ Free.

The first page of this great book will set you to thiaking.

It tells things in a different light. It will open your eyes to immense possibilities-from both a practical and a pleasure standpoint.

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It proves the great economy of having an autoin fact it goes further. It actually proves that nowadays to be without one is, in most cases, an extravagance.

## Model $80{ }^{\$} 1425$ Model $81^{\$ 1} 135$

5 Passenger Touring Car 5 Passenger Touring C

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Model 80, Roadster - $1390 Model 81, Roadster - - $1065
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Model 80, 4 Pass. Coupe - 2150 Delivery Wagon,with closed body 1195
Six Model 82,7 Pass. Touring Car 1975 Delivery Wagon, with open body 1135

It is written by an authority - a man who has It is written by an authority a car - a man who knows what he is talking about.

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AMERICAN SEPGRATO

Questions and Answers. likely to trouble next year even with



 veterinary or legal enquiries, $\$ 1.00$ mutt be
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We furnish cans and pay all express charges
Write for Particuars.
Valley Creamery of Ot tawa, Limited
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Oxford Down Sheep Some chorice young bulls for sale, sired
by Balmectic Proud Boy, one of the John A. MeNeil : : Vellore, Ontario
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## =THE BIGGEST SALE OF THE YEAR =

## Tuesday, March 9th, 1915

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|  | be Ritan, Ma, off for casi |
| Write for Catalogue to W. H. Mancell, Fletcher, Ontario |  |



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More Milk---More Money
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| DALMENY.-A new Scotch varie lid yielder; fine, clean, strong straw ine of the heaviest varieties; exce inc. per bushel.$\text { O. A. C. No. } 21 \text { BARL }$ |
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EBRUARY 18, 1915 LEASURE
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| FORTNIGHTLV SAILINGS By Twin-Scrow Mall Bteamera FROM |
| St. John (m.B.) \& Halifax (M.s.) |
| Specilal Facillites for Touriste. |
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Questions and Answers Veterinary

## LIT YQUID BUY YOUR <br> 0 tons of Caledonia Marl (Lime Carbonate) could absorb from your stable floor $\$ 10.00$ worth of amand potash deodorizer and <br> insecticide. This Marl (Nature' Lime) could then be put on you soil to increase each yere as it ductively $\$ 15.00$ a year, as did for Mr. L. J. Rounds, for

 What One Farmer Found OutVeterinary. One wille-awake Ontario farmer found that each ton of this Cale-
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We larger selection of Percherons than any other firm in Eastern We have a arger selectionain more prizewinners at the leading fairs than
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Stallions Imp. CLVDESDALES Fillies Imp. thing worth winning and can show intending purchasers the biggest and chocest selection of stallions and fillies, imported and Canadian bred, we ever had. ChampSMTH \& RICHARDSON, COLUMBUS COLUBUS, ONT. G. T. $\mathbb{R}$

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while gathering up for your profit
the otherwise wasted ammonia and
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The war makes Canada the
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Write to-day for explanatory
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man, reads, considers the evidence careman, reads, considers the evidence care-
fully-Decides Promptly-and his horse is quick ly cured, worked, too, if needed.
That's exactly what happens every year.

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Feed for Dairy Cows


## 20 siosbat s fock farm 20

Some of them fit to head the best herds in the country




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| IRVINE DALE SHORTHORNS |  |  |  |  |  |
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Tot Fit for Human Food.

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## DISPERSION SALEOF HOLSTEINS

Thursday, Feb. 25th, 1915 On the above date I will sell unreservedly my entire herd of
34 Holsteins. 17 of them young cows in milk. 5 yearling bulls. Also my stock bull, Lord De Kol De Boer. The records of his dam and sires dam average 26.56 ibs, and their B.F. Test over 4\%, 23.03 Ibs.,
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Terms: Cash, or 7 Months on Bankable Paper With 6\%.
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 Ourvilla Holstein Herd The fist hert in canald dedevel a 3111 , cow, The


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Some right kurot young Angus bulls and

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 beefore beter Arkell \& Sons, Teeswater, Ontario
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many prizes at big and local shows. I have high-class flock
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 riac. Caypbell \& SON, in producing blood. NORTHWOOD, ontario NEWCISTLE TIMWORTHS AND SHORHTHORNS

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"A farm drainage excavator must have these three things:
Power-of ample capacity to meet the most exacting demands for which the machine is built.

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## The All-Steel Machine

has won its remarkable record for clean, efficient performance in the field because it has all these three things. It has power-power in reserve that forces it through the hard spots and over the soft places. Its famous Corduroy Grip Traction distributes its weight over so large a ground, the pressure per square foot

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is less than 1,200 pounds. The power is transmitted from the motor to the excavating wheel without any loss, so that it cuts through the stiffest, heaviest soils, quickly and easily.

If you're not already familiar with this famous excavator, write now for our new booklet.

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Will bo had in we winter Falr
Wednesday, March 3rd, 1915 About 40 Head of Pedigreed SHORTHORN CATTLE Amony them many fationabl-byed animals will C. L. NELLES, J. M. DU
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