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contains 336 pages and over 75 views of modern on barn building ever published in Canada. It were obtained in all parts of this country, and have been reproduced with full-page daty double page cuts, which show clearly every detail of construction. There are useful tables, showing the best measurements for mangers, qutters, cattle-stands and passages; costs of cement work; of sizes for doors and windows; amounts of ventilation for different kinds of stock; capacities of silos; capacities of mows. There are also working plans for 14 different barns and exterior
views of the completed barns.
BT Calvanized Steel Stalls, Steel Horse Stable Fittings, Stecl Cow Pens, Calf Pens, Steer Pens, Bull
Pens, Manure, Feed and Hay Carriers, and Water Bowls are shown in actual use in many of the barns This book is printed in colours and is bound with hard covers. It is inal use in many of the barns. not a mere catalogue. It is a work of reference which you will prize and
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Everybody who sells shoes can quickly supply you shoes with Meōlin Soles. Shoerepair men, hardware stores and general stores have half-soles for your old shoes.
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Post is a time-saver, labor-saver and money-


# The Farmer's Advocate PERSEVERE SUCCEED Home Magazine 

## EDITORIAL.

Is the wool clip stored in a dry place?
Banish the scrub sire for good and all.
Once again, don't use binder twine for tying the
fleece.

## Scabby potatoes will likely produce after their

 kind unless treated with formalin.If half the reports are true the Dual Monarchy is not a very pleasant ally for Germany.
Make all the pork possible on grass. It will save the grain and mean a larger profit.
Milk and its products are necessary foods. Don't substitute them with cheaper imitations.
Don't neglect to sow a field of rape. It will make excellent feed for sheep or hogs in the autumn. Even cattle will do well on it.

The amount of seed corn required per acre this spring will depend on the percentage of germination.
Make the test; don't guess. Make the test; don't guess.
The growing shortage of labor on the farm increases the necessity for more co-operation and exchange of work between farmers

The third Liberty Loan in the United States has been heavily over-subscribed. Every one is now willing been heavily over-subscribed.
to pay to see the Kaiser licked.

The man who buys an automobile under the new tax regulations is helping to win the war, and the more expensive the car the more he helps.

Are you keeping up with the Orders of the Food
Control Board? some Order might be violated unintentionally.

Canada's national debt is growing rapidly, and our mous production. In this the farm'will play a leading

Since icing is now banished from the cake perhaps we can get more good, old-fashioned ginger bread, which recipe.
$\qquad$ being urged there.
tailed, especially when the most essential industry of all is being handicapped to an alarming extent through
the lack of hands to do the work

The recent advanced prices paid for butcher catule
have not been more than sufficient to allow the feeder. who put them in last fall at a long price, on clear himell
and home something to show for his winter's work. The qumety lator seems to be under discusion again. effort-meessary to save a crop nothing apparently ca six. A day orking seven days a week instead of should afford an opportunity for a real rest.

What Only Butter-fat Can Do. Now that the word "substitute" has become Overseas with perishable replacing those foods needed care that a great miste articles of diet, we should take industry handicapped and the made, an important impaired. We can substitute agreat the entire race and by careful conservation we can deal, that is true, of beef and bacon which we have to spalume enthusiasm there is a danger of unnecessary to save and poing far that which it is health and lessen the chances of our children injure ing into men and women equal to their forebears Scientists have come to the conclusion that forebears, may contain all the necessary ingredients of a suitable diet so far as the demands for protein, starches sugars fats, etc., are concerned, and yet lack the very elements, essential to life. According to Dr. E V McCollum of John Hopkins University, there are only two foods upon which one can depend to supply these life-sustain ing parts; they are called "protective foods" because they make good the dietary deficiencies of the long list of other articles commonly used. These protective foods are: "first of all, milk; that is the best one there is. The second best is the leaf of the plant." In an in teresting address before the National Dairy Conference of the United States, Dr. McCollum pointed out that some peoples, such as the Oriental races, neglected dairy products and resorted largely to the leaves of plants as a protective food. In comparison with some European races and inhabitants of the western world the Orientals, he said, were inferior, and there was ample proof that nations which used milk and milk products frecly were ever at the front in the matter of human achievement in any field of activity. Dr. McCollum also asserted that the infant mortality in the non-milkconsuming countries was higher than in even the worst part of the United States. Furthermore, vegetable fats do not function the same as butter-at, nor can they in any way replace it as one of the protective foods. should not be made of substitenged facts the blunder should not be made of substituting a great national product, such as butter, with a composition of vegethe eye and the taste, whin $\quad$. of a sturdy race free from disease. Milk upbuilding ducts make good the dietary deficiencies ind whateve kinds of food we care to eat and products of the dair should be widely used during this period of substitution and conservation

## Getting Acquainted Abroad.

methods to the modest manner of Canadians and our hot known arketing, the products of this country ary been too quiet and have not blown our own horn loud enough to be heard in the din of national advertising This is particularly true in regard to our live stock and arm products. Dr. Issa Tanimura, Commissioner of ive Stock for the Japanese Government, when mak ing a tour recently through Canada, told a representative of this paper that choice Canadian products are used in Japan, but we do not get the credit for them. A. aper ins impression that Canadian breeders went the I nited States for their good sheep, but he had found, upon thorough inspection, that the reverse was true, of live tork, and his acknowledgement of the facts was Wharked that astra good flour had been purchased in his fre time that it originated in the United States, when in Prairic. The Commissioner suggested hat muted lenefit to loth countries would accrue if Canada adver-
tised herself more in Japan, and made known the good qualities of our live stock, for such is required there to have. What is true in therds and flocks they already or less ar sentent, in other commonwealths. We are known ment of Trade and Commoune Caligh the Departarticles have been heralded ness, since it enlarges the abroad, which is good busithe industries at home. The market and thus builds up Stock Council might impress Canadian National Live necessity of a similar policy in rearnment the and advise them in any action they to our live stock, take. The time is quickly coming when Canada will be in a position to fill large orders for good stuff. the earlier the demand comes the sooner will we be prepared to supply it. We must look ahead in matters pertaining to the development of agriculture in this Dominion, for we have only touched the fringe of our possibilities and a great future lies before.

## Our Imperative Duty

tions are be the maze of figures, with which even experts must find perplexing. However, one phase of this colossal or less of finance is plain to all Canadians, namely, scheme country must have revenue and some form of credit must be advanced to Britain in order that trade may not suffer. England is now a borrowing instead of loaning nation, but when our cheese our wheat or ar manufactured articles go to the Allies they must be settled for in some way or the producer would soon be without funds with which to "Carry on." According to the recent Budget, exports to Great Britain last year amounted to about $\$ 850,000,000$, while our imports rose to only $\$ 81,000,000$ from that source. We had at the same time an unfavorable trade balance with the United States approximating $\$ 350,000,000$, and in normal times this would be easily offset by the moneys receivable from Great Britain. That procedure is now changed, and since July last Britain has been obliged to secure dollar credits for her purchases in Canada, in order that trade might go on. It is manifest that commerical disaster would follow any failure on the part of Allies, or anced by Government the neighboring Republic. The Canadian $\$ 25,000,000$ per month; the Canadia breat Britain of $\$ 25,000,0$ the British Covernme a00,000, on the Brish Government totalling $\$ 200$, 000,000 , on the security of Imperial Treasury Bills, and
the Government of the United States has established credits for British purposes in States has established is necessary in order that industries may continue this agricultural products move to those markets which constitute the natural outlet for the results of our lator The Acting Minister of Finance emphasized these facts when presenting the Budget, but it was furthermore made plain that after all sources of revenue are exhausted there will probably be a balance of some $\$ 280$ 000,000 which must be raised to carry on the war and the business of the current year. There is only one way eft whereby this vast amount of money can be gathered together for public use, and that is through the sale of Cictory Bonds, which simply means that the people must lend the money to the Government. In this re gard Mr. Maclean said: "I want to make it clear that if we are to continue our part in the war and maintain our overseas trade at its present dimensions, the people Canada must loan to the Government the money to complish that end. That is, they must, year after This part letory Bonds.

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 12. WE Mi.addres ${ }^{\text {Pa }}$ $\qquad$
upplies Burn
and other exportable farmo products must move freely or our agriculture would be seriously handicapped.
Manufactured articles must the country would come face to face with commercial disaster, and the wheels would stop. When purchasing
Victory Bonds, the buyer is making a frsial ment, for the security is good and the rate of interest
compares very favorably with that on investments with similar freedom from risk. Bonds were a new thing to many when the last loan was floated, all who give the matter any attention, realize that it is our imperative duty to invest in the countrys.s reperiod of saving is now in order that we may bee prepared to answer effectively our country's all when the
next appral is made

Nature's Diary

 to hatch alout the end of May
to she White-makked Tustork Moth is chicflly injurious


ewo red projections. Below this black line is a yellow stripe and below this a pearl gray stripe, bordered
beneath by a fine black line. Below this line is a pale yeliow stripe The under surface is a pale green. In
addition to the tufts mentioned above there are many long, bristly hairs on the body.
When the caterpillars are abundant they often completely defoliate the trees ly eating all the substance of the leaves crecpt the wis and principa Wion the larve become mature, which in Ontario spin their cacoons in creviices in the bark of the trunk and
sper main limbs,or on the underside of a branch just at the point at which it leaves a larger limb. The yake their
cacoons of silk interwoven with the long hairs which they Cacoons of silk interwo
pull from their bodies
As soon as the cacoon is completed the caterpillar pupa, which at first thicker and gradually changes to -
dark brown
The pupal s
dark brown color
The pupal
The end of opal stage lasts from ten to fifteen days, at a gray moth with wings about three-quarters of an inch across, the fore-wings having a small white spot, (hence
the name of the species) and with feathery antennac,
 crawls out upon her cacoon and deposits her 200 ,
selo eggs upon it. The egrs are laid in a mass and they

are covered with a viscid, creamy-white substance which hardens on exposure to the air and which not only hold After the eggs are laid the female falls to the ground and dies. The eggs hatch the following spring and the life-
history is repeated per year, though further south there are two or three
broods. per
broods
Th
There is only really one feasible way of combatting egy-masses. This may be done any time from Septen the to the end of May. They are very easily removed either by hand or with a scraper on the end of a pole. in mind in removing, these egy-massertant point to bear alone all cacoons which do not bear egg. masses. The reason for this injunction is that the cagocoons which do not bear egg-masses may contain the cacoons of a
little Hymenopterous parasite of the Tussock caterpillar. Some of the cacoons without egg-masses are
those from which males have emerrect and harm, but a good many will be found to contain packets Fig. 1. These are the cacoons of the commone across in of the Tussock caterpillar, which is a little Ay-ilic insite known as Pimpla imquisitor one of the ichneuncon. mies, the is really upon the whis shown in Fig. 2 . such as Pimpla that we depend for phecking the in-
Ordinate imcrease in this respect birds count for an injurious insects. In other efforts of man count for a good deal, spraying and
really onlt a good deal, but both art The life-historys of the work of the parasites. on emerging from her cacoon seeks out a Tussock cater pillar, or the larva of some other moth, as Pimpock is is als-
parasitic upon several other species. If the caterpillar projection shown in the figure at the posterior end (the
padd brodection show in the figure at the posterior end of her grub-likelarya which feed on these jugs hatch into litule It the caterpillar has spun its cacoen the caterpillar her ovipositor through the cacoon and lays her cegrsis theyody of the caterpillar, and when they hatch, ${ }^{\text {, }}$ hich
they do in a few hours, the larve suck the juices oh the
caternill aterer before changing to a pupa or caterpillar dies, Wither Welore Changing to a pupa or immediately after-
Wards
Tarons within the of Pimppla then make their litle

How Sandy Views Farming.



doon on a farm here comin' back East again an settlin to be run, form I'll hae the thoney to ro way it." that it ough to change his mind, for I had an idea that didna' ir Would do it better than 1 could, so he went offience a place where the railroad was for little or naething in couple o' years at the ootside. It's to go through in "goo since he leeft hes home here but he's still in the the golden West", as he used to call it, and hess still aboot cam' oot to this country first. Frac what wis when he the only "up to the average", crop he has have heard time has been the harvesto, croop hee has had in that
he has reaped, but an a doot and an cepperience he has reaped, but na doot that has paid him wexperience for
the loss of his it her crops. However he yet to show us how to rin a farm in the way tome back done with money made in some ither place or in anither
busines. To my mind he in business. socs minc mind he is one mair proof o' the rule else for the matter o' that, depends mair on the onything it does on the job. There's men who don the man than the right material in them to push them ahead in ony line, and again there, seems to be very few trades or made money at, or at least got at someone hasn't living by them. And money can be made at farming by ony man wi the average amount $o$ ' brains, if he's swilling as pay the price. And that price is his undivided time
an attention given to his business an atiention given to his business. He's got to wark
wi' his head as weel as his hands and wi' his hands as wet as his head. The city merchant or manufacturer has advantage over us farmers in this respect. A wee bit
 business men of the towns and citiese fail at cent. ome the
or ither in their careers so it or it her in their careers, so if that's the case there's
still something to be said for the farm as a means support for a mon an' his wife, wi' maybe a few boys an support or at mon as his wife, wi maybe a tew boys an'
girls thown in as weel It dinna think ninety-five per
cent. on the farmers And if a considerable number o' them are able to make enough to put a little to the good every year, besides
having lived comfortably all the time good proof that the rest o' us who have the sprety portunities can dae as weel? I ken farmers wha hae come and thesart o Ontario from the Province o' Ouebec able to read, but ivent even the advantage o' bein here on credit and in the course of a fewv yoursht farms only paid for them but have bought and paid for farms or twa or three ${ }^{\circ}$ ' their sons. But they didn't dae it by had mair monev in it. They had easier job or one that they showed their faith by their works and the farm didn't go back on them. The trouble wi' a guid mony fault wi' the we hae the habit o ' grumblin' an findin that comes to us, till we make prorselyy nearly everything little short o' martyrs and that if we got what was comin to us by rights we wouldn't have to work for oor board wis tauld. Theard a chap say the ither day, when he twenty-three cents, "Hoot", say had been fixed at twice that." An' if it was raised tae twice that he wad still be dissatisfied and juist as poor in his ain mind as be these davs, when the seem to be two classes o' farmers One class pays attention to the rise in price of what they. sell, while the ither class look only at the rise in price of what they hae to buy. Since it dinna really mak' ony ditference, sae far as the money goes, which side they
look at. $I \mathrm{~m}$ think in the first lest o' it. They're comparatively happy, onyway and they say that happiness is what we're all in search of. ${ }^{\text {and }}$ Sure thing, the farm will keep us in food an' clothes an a little over, if we give it a chance, and what mair
can ony ither job dae for us. But it sems tae be the fashion juist noo to be sayin' that farmin' does not pay ©' it if it wisna for somebody else. It's a bad thought ${ }^{\circ}$. mind tae get into and it has the tendency to mak' us slacken up on oor work. In the lang run, what we are tinually thinkin' poverty it's poverty we're likely tae ent And while we're doing it the man wha is thinkin' an expectin' prosperity and daein' his wark wi' that end $o^{\prime}$ 'iew, is gettin tae the top oo' the pile while the rest
wonderin' if it's goin' to pay us to mak' the Lae that quit this howlin' doon oor job. Onybody can
 tever made a dollar yet for anybody that spent their
time at it. They're askin' us what is wrang wi' the farm.
There's naething There's naething wrang wi' 'ti, but if they asked us what
wis the matter wi' some farmers unlcse we wad call it mental dyspepsia and let it it op at
that. It's a discase that takes time to that. I's a discase that takes, time to cure but we ve
known somere that known some that got over it a' right. They must hae
found some medicine that took the twist oot o' their thinkin'-mach hine for they seem to be as weel and happy Ya doot it wis were miserable and discontented before.

  

## May 1

## Disea

$\qquad$

## THE HORSE.

Diseases Resulting From Wounds. Eryaipelas.
Erysiplas occasionally occurs as a result or complica tion of wounds. It may be defined as an inflammation
of the skin and underlying tissues, characterized by diffused swelling of the parts involved, which has a a remarkable tendency to spread, and is dependent upon
some unascertained alteration in the blood
Symphoms.-In an indefinite period, but usually
about the third or fourth day after the infliction of an injury, the skin in the immediate vicinity of the wound is swollen, smooth, shining, hot, tender and painful
The swelling extends sometimes very quickly in ali The swelling extends sometimes very quickly in ail
directions If a limb be affected, its whole circumference becomes involved in the swelling in a few hours. The swollen surface pits on pressure (that is, when
pressed it has a doughy feel the finger pressed it has a doughy feel, the finger sinks into the when pressure is relieved) where muscular tiswickly present. Where the sub-cutaneous tissues are hard and firm, the pitting is not so well marked, In rare cases amount of sloughing. This occurs more fred by some the flexures of the joint when a limb is affected. Be sides local symptoms, we notice more or less constitutional disturbance; the pulse becomes frequent and strang, shivering fits are generally noticed, increase of ameness if a limb be the seat of trouble. The degree of constitutional disturbance is in proportion to the feverity of the attack. The tendons and ligaments, the skin and subcutaneous tissues, become involved the pain is usually excessive, the swelling hard and tense.
and occupies a larye extent of surfare and occupies a large extent of surface. In a variable deeply between the tendons and ligamentes, or more being lanced discharge a watery pus, which, in some contains shreds or masses of gangrenous stissue. The
systemic disturbance is severe, rigors are frequent, phie acute; the puluse, at
first full and strong becomes frequent,
small and feeble; the respirations are hur-
ried; the bowels generally constipated, and
the faces covered with mucous; the urine is
scanty and scanty and hig his lost, but the thirst is usually excessive. Occasionally the in-
flammation extends to hammation extends to
the articulations nearest the injury, and the case becomes compli-
cated with open ioint Treatment-A -A brisk
purgative of six to purgative or six to ten
drams of aloes ing to the size and condition of the pa-
tient, with two drams
kinger sh singer should be
fiven. The swolle parts should be well bat hed frequently
with hot water, on pratcticate, hot hor pout
rices kept to the parts After kept to the parts.
the purgative
tas operated, diuretics, as nitrate of potassium, in
three to four-dram doses, should be given twice or three times darairy doses should be given twice or
siven in six to end tincture of iron should be water as a drench, twice daily. The food should in of first-class quality, of the best kind, and given treatment must be more energetic. A A purvative must fifteen, and the excitement and fever combatted with teenite in eighteen-drop doses of Fleming's tincture of every three or four hours until the pul geliven as a drench, orce and frequency, after which it must e continued. After the purgative has acted, the
 to the affected parts. If abscesses form, they must be
opened but it opened, but it is advisable to abstain from the use of the knife unless pus be present, as the admistion of air
into the tissues is apt to cause sloughing.
WHIP.

The Value and Art of Grooming. appearance of the team he leads out at 7 occlock in the morning, or by the spirit of his driving horseck Many
feed their horses with ertrave eed their horses with extravagant generosity, but
neglect them otherwise to such an extent that the fed is partially wasted and the animals ares sluggish, present an ill-kept appearance and generally give evidence of
no skillul care F Feed is salmost care. Feeced is essential but efficient grooming
skin stimulat. The cleaning and rubbing of the throughout. This decreases the requirements of the body in the way of feed and more is accomplished with
the smaller ration then with a


A Former Champion Hackney at the Highland.
the comb straighten out the snarls in the mane and tail Then apply the curry-comb to disentangle the hair which has become matted with sweat and dirt and to remove
splashes of mud. Follow this with the brush cleans out the hair and stimulates the skin cells. Which flannel cloth should then be brought into service to remove dandruff and add that finish manifested in all
well-groomed horses. The legs should be rubbed as will well-groomed horses. The legs should be rubbed as well
as cleaned for they
undergo considerable strain thorough rubbing stimulates circulation and prevents stiffness and unsoundness. Do not neglect the leg of a
horse; it is one of the vital parts, and one of the first to
show signs of abuse. In the morning it
straw or bedding that adheres necessary to te clean off the
the horse, but on or body of the horse, but no excessive amount of work is necessary.
A few minutes with the brush and fannel clote put the team in excellent condition to go out feeling presh and able to do a good day's work. Every minute
for spent ing grooming will show results in the spirit and
appearance of the horse.

Do not neglect to trim up the feet of the colt before appearance of the horse.
> turning to pasture. Usually a good rasp will suffice At this time of year it is not necessary to trim too
closely for the wear on pasture will help to keep the At this time of year it is not necessary to trim too
closely for the wear on pasture will help to keep the hoof true. When the toes are kept short the quarters will usually look after themselves, but one should take notice occasionally and see that the frogs are promi-
nent. When such is not the case ill effects are the result. While growth varies under different conditions
the hoof will, on the average, grow one-third of an inch per month. The hind hoofs grow more quickly than the
fore hoofs, and unshod faster than shod.
conditions. That gloss and finish evident in the sho
animal or the persistent grooming, for in is the result of careful and are not over-fed. The well-groomed farm or cases they can be easily distinguished, for with an unlimited teap or ring out that gloss of coe a horse fat, but he cannot groomed drafter or driver. The the fine fettle of a well to the writer, have always been well fed but previnows this spring they never had the spirit or the appeearance
that the amount of feed this season a new teanster then should produce. Early were well curried and cleaned every evening. They harse done more work than usual, but on account of the attention received they look fifty per cent. better, and a a cior in every way to what they formerly were. team in thectice altogether too common is to clean the under this method the horse remain not at all, but dirt and mud on his legs and the hair full of sweat with dust. Between six and seven in the morning the and are at work again and just as badly half an hour they dirt. The thiraity to sixty just as bestly of of in reagard to sufficient. The thorough cleaning and rubbing of the legs, stimulates the circulation, prevents stiffress and
as a general result maintains the soundnefs of those parts which are subject to considec able strain
required a clean and groom a horse properly there are comb, some flannel cloths, an old or partly wornait first sight, appears like legs, and a hoof-hook. This, at supplies but one will find the majority of thesuisition for alools but y stable. Some will use one or two of these They are all neceessary under ordinary farm conditions. thoroughly executed. With the bro the job is to be the mud and dirt that collects on the hair of the leg cleaned the hoof. The bottom of the foot should be and all solid particles removed from around the shol, and frog. When the animal has goo reasonably dry the

Japanese Commissioner of Agriculture Visits Canada.
The Farmer's Advocate was favored recently with
isit by Issa Tanimura, D. C. L., Commissioner of Live Stock for the Japanese Government. This is Dr. Tanimura's fitth visit to the American continent,
and serond visit to Canada, Being a graduate of Yale University, visit to Conada, Being a graduate of Yale
Cornell University Fellow in Agriculture of Cornell University, he is not at all unacguainted with American ways, or the customs of the Western world
While interested generally in live stock, Dr. Tanimura has been paying special attention to sheep. Tanimura annually imports $\$ 20,000,000$ worth of wool, and until recenty this came largely from Australia. The British Government the Ausiralian clip has caused the Japanese to effect an establishment of a real sheep industry within their own Kingdom. Nothing is native to the Islands can shipper was cattle. Forty-five years ago an Ameri tend the beginning and establishment of shene to superinin Japan. He remained three years, but after his de parture the industry went into decline. The policy
is now to import good specimens of the and give themall a thorough and impartial trial "We will let the sheep talk for themselves," said Dr. Tanimura. "Man must learn some things from the beast." From the North to the South of the Japanese Kingdom there
is a great variation in climatic conditions and the is a great vaniation in climatic conditions and the belief
exists that different breeds will populariza themselves in various sections of the country. Dr . Tanimura was
the guest of Lieut.-Col. Robert Mcenen President of hie travels throughout this wountry Growers Lttd. In
has endeavored to sommissioner has been made an honorary member of severally organiz
her
tions all tions allied to the sheep industry in ceveradarganiza-
eight breed associations in the Uny For many years importations of the leading beef
and dairy breeds of cattle have been made to Japan,

## LIVE STOCK.

The herd bull requires pxercise. If a paddock is
not available give him the rum of a large bostall. He will be more prepotent than if kept in cramped quarters. J. J. Merner, Seaforth, recently held a successful
Shorthorn sale. Village Marauis, a son of Mhorthorn sale. Village Marauis, a son of sainsesfor
Memales was $\$ 625$. the sale at $\$ 800$. The top price on

Forty-eight Shorthorns, the property of T. Stanton 5742. Lavender Wreath 6th auction at an average

Breeding tells in the feed lot. The well-bred steers gains than do those of nondescript make more rapid sters for feeding it of nondescript breeding. If raising to use a bull of desirable

52 On April 23, G. J. Theis \& Son, Iowa, disposed of The to price was $\$ 1,900$, which $\begin{aligned} & \text { figure was paid for } \\ & \text { Ther }\end{aligned}$ Proun Rose, a three-year-old roan heifer. Rosewood
Maid, also a three-year-old, brought $\$ 1,600$, and $\$ 1,400$

A correspondent in Wellington County reports that although not so much srain the winter in fair condition, more spring litters than usual in some sections, and many of the farmers are planning to run their shotes on pasture, ,
of grain.
We have heard of $\$ 12.00$ per hundred being paid
or
800 -pound stockers to Compared with the prices of a few years ago this spring. like taking a big risk. However, thase aggaged in the
grazink nusiness grazing business are optomistic regarding the outlook
tor prices next fall and are purchasing all the stock
their grass land will carry

The best investment I ever made was when I pu
practically my last dollar into a choice herd sire, was the way one subscriber spoke in commentinre,
the value of blood and individuality in the animal the value or bood and individuality in the animal
placed at the head of a herd. "It seemed a big price at phed time, but tam able to sell his progeny for a much
thig price higher figure than I could secure for any of the get of
previous bulls which I had owned. I have received big
interest on my

According to the assessors' figures the population of
one of the smallest townshins in Middle decreased by 380 in the last for yeers At the present
time there is less than one able-borliol man to 300 acres of land. Under these circumstancos the maximum production from the thend is in an imposossibility Instead of one man to 300 acres, two men could bo
profitably employed to each 100 acres if the soil is profitably employed to each 100 acres if the soil is
to yietd of its best.


and that branch of animal husbandry is developing. No export business, however, in meat or meat products not yet self-sustaining. Nevertheless, Dr. Tanimura left the impression that their pure-breds were similar in type and comformation to the corresponding breeds in North America and that progress is being made.
wenty-five acres are common. One-hundred to farms exist in plenty and many holdings include a thousand acres or more. Japan is a nation of farmers, he said. Even the merchants own farms and all are producers more or less. Every man, physically fit,
during three vears of his life is a soldier, and wars are conducted by the Government with a standing army without affecting industrial or national life to any great extent. In Japan it is an honor to be a soldier and the obligation is seldom evaded.
similar to those produced here and the Kingdom are very favorably
Dr. Tanimura spoke highly of Canadian institutions, and particularly so of the Ontario Agricultural College. He placed considerable emphasis on the practical in all country who hold doctor's degrees, but are worthless, simply because they excel in the theoretical and scientific but are not practical.
Dr. Tanimura said: "You have a great country here bu, Dr. Tanimura said: "You have a great country here but
you do not make it known abroad. We have been getting you do not make it known abroad. We have been getting
good flour from this continent but we have been led to believe that the wheat was grown in the United States, when in fact it was Canadian grown. So it is with your sheep. We have long thought Lnited States, breeders got their good sheep, The Commissioner expressed the opinion that Canada would profit by making the quality
of her live stock and farm products known in his country where a demand is sure to exist

Summer Meat Supply at Cost Price beef is divided in a sixteen and twent $y$-share beef-ring and also state how a beef-ring is started
Middlesex Co., Ont. J. B. Ans - In many rural districts an organization known supply problem. When a person is situated near a illage or town it is quite easy to set a reast of beef occasionally, but it is an entirely different proposition when the farms are located a number of miles from a centre. True, before a beef-ring was thought of the farmer and his family had a regular supply of meat during the summer months, but it was largely meat which had been put in brine or pickle the previous winter. Once a beef-ring is started the məmbers seldom drop out of the organization, as they realize it is one of the best means of securing fresh meat of high quality at cost price. The beef-ring is an association of farmers; there may be sisteen, twenty or twenty-four members.
However twenty is the usual number. A wenty-share ring if started the last week in May, or first week in
June, will run on fairl- late in the fall and supply beef for threshing and silo-filling. With a sixteen-share ring, meat would be supplied tor sixteen weeks, or through the
months of June, July; August and September. months of June, July, August and September
If it is thought advisable to organize a bet is necessary for someone to call a meeting to talk, the
matter over and to appoint officers. Besides a president secretary-treasurer and directors, it it advisable to have
an inspector whose duties it will be to inspect the liee an inspector whose duties it will be to inspect the live
animal as well as the dressed carcass. It is usually possible to secure a competent person among the members to do the butchering and cut up the meat. A slaurhter house
will be needed and such equipment as windlass, ropes, scales, knives and suws is necessary. It is customary the expenses of purchasing the necessary equipment. In many beef-rings the members agree to furnish
a two-year-old animal that will dress about 400 pounds: in this way only choice beof is cupplied the members. A
certain day should be set for buchering and the animal tor the week should be delicered at the slaughter house
$\qquad$

hl set



The carcass is divided about the same for a sixteen-
share ring, as shown share ring, as shown by Figure 2. For convenience in handling, divide the half carcass in the middle before
letting it down, by cutting across at A, between rows 4 and 5 leaving two ribs on the hind quarter. The forequarter is then divided at line B. Numbers 1,2 and 3 represent roasts, and three joints are left on each; number 4 is a roast with four joints; number 11 represents the rront shank and number 14 is the second rib cut and is cut to which is left four ribs; Number 10 indicates the brisket The hind quarter is divided at line $D$, and numbers 6 , and 8 represent sirloin; rump No. 2 and rump No.
respectively, and should be divided at as nearly

weight as possible. Number 17 represents steak, which secure a part. It may take a little time for a new members, but with little practice a carcass for the would soon become quite proficient and would find


Chere may be some who do not care to procuris their meat through the beel ring: howerer, it is in loutute a weekly supply of fresh meat, as it permits of each

Give the Lambs a Little Extra Feed.

 recently made a start in sheep raising. The double
revenue and the small amount of labor required in looking after the flock for the greater portion of the wal onking wool and meat. While sheep will look , wher thembels pretty well, they require special attention a1 lambing


A GrowthyJBunch of Lambs

Sheep Raising and its Place in Nova Scotia

During these war times the price of beef, pork, mutton and poultry has risen to twice their normal , price,
and much has been said about the scarcity prices of wheat, potatoes and other eatables as well as In nearly every paper we read of the need of greater up the figures indicating the decrease of all live look throughout the world, since the beginning of the war, to show us that greater production is absolutely neares-
sary. Between the years 1881 and 1901 the cattle, horses and swine increased in number number of per cent. in Canada; but, during this time the number of sheep fell off from $3,048,678$ head to $2,510,239$ head. would increase, but while this the number of sheep of 21 per cent. in the populationtics show an increase crease in the number of sheep. What is the actual dethis great decrease? There are many reasons advanoed We the farmer why he has not and will not go into the sheep-raising enterprise a little more fully. Some of these are: 1 , Sheep are too difficult to fence; 2 , they of
hard on pasture; 3 , other live stock is preferred; 4 , the All these difficulties can be overcome by the ordinary
farmer with reasonable care and Carmer with reasonable care and work, except the
dog nuisance; which has to be dealt with by those have the power to make the laws of our country. The dustry that exists, and is almost to the sheep industry that exists, and is almost wholly the cause
for the decreasing numbers. That there are lasge numbers of sheep killed every year in Nova Sontia every one knows. That many farmers have given up raising sheep and others have refused to go into the minimess cannot be denied. That there cannot be somethe pestiferous cur is absurd.
There can be something done. The dog law which is in force at the present time serves only to get a man into trouble with his neighbors. When.we think of the
number of worthless dogs which are kept in the towns number of worthless dogs which are kept in the towns
and country; one often wonders why there is not more and country, one often wonders why there is not more
damage done. One of the best things the Government tax of not less could do, would be to exact a straight
doy over six months old, and a owner of any maxe of $\$ 8$ for every dog over six months old, and a tax of $\$ 8$ for every
female over six months old. This would eradicate the majority of worthless curs that are kept for trivial
purposes.
In the present law there is no way of getting at the
owner of land adjoining your farm, or any person living
on land or roads which run back from the main road and on land or roads which run back from the main road and
pass your farm. There should be an amendment which pass your farm. There should be an amendment which
will give a person a lawful hold over these persons as well as over others.
will rations, and talks of taking all the oats away from horses kept for pleasure; it is high time for them to spend a relieve the sheep farmer of the dog difficulty a plan to The food controllers have a good opportu
something in the way of conservation along this line. If the tuantities of food daily consumed by dogs were ised in the production of pork, the benefit thereby deronduction. It is a serious mistake to let any such whig the worthless dog keep a farmer out of the profits contia havinsteres. Not only that but, Nova lion acres of pasture, most of
which is especially adapted to sheep raising, should greatly help the needs of our
country both in producin food and wool. These
rugged, rolling hills which are clothed with short,
nutritious grass and white nutritious grass and white
clover, with adjacent uplands, ready to produce rape. turnips and hay for fall and winter feeding, make
an ideal place for raising sheep.
When help is as scarce
as it is now, farmers should as it is now, farmers should
be encouraged more and more to go into the sheep industry to a greater extent,
because they return more money for capital invested and amount of care and labor expended than any
other live stock on the farm.


May 16

## Breed

 $\underset{\substack{\mathrm{On} \mathrm{Ma} \\ \text { dispersion }}}{ }$ choice off mary, MCrimson at foot, an
Signet and While the a number
dividualit ideal day tendance. at $\$ 800$.
The avera
Vesey Cho was purch
$\$ 600$ fo brought $\$$ purchasers

Winsome
Bonnie Sig Vesey Choi Roan Signe
Lexith Gem Gladys May Vesey Choi
Red Pearlet Carolina $2 n$
Belle, F. Co Belle, F. Co
Roan Girl, Broadhook' Lily, with ca Constance L
Lady White Bonnie Gla Collynie Jan Jenet 7th an Princess of
Princess Roy Miss Lavend Corelli Band Corelli 4th, Rosalie 3rd,
Miss Ramsd Corelli 3rd, Rosemary 12 Rosemary 12 Moss Rose, Nonpareil Be Cing's Lily, Duchess of Red Duchess Jilt's Delight Jilt's Maid, 1
Princess Vict Vesey Viola, Corelli Beaut
Red Blossom, Lily Royal, A Rosalie 2nd,

Knickerbock Huron's Pride
Huron Deligh Regal (iem,
May 16, 1918
Breeding Counts in the Salle-Ring

On May 1, J. J. Merner, M.P., of Zurich, hell. a
dispersion sale of
cho head of Shorthorns. It was a choice offering, as it included such families as Rose-
mary, Miss Ramsden, Butterfly, Duchess of Crimson Flower, etc. Many of the females had calves's
at foot, and others were bred to such sires at foot, and others were bred to such sires as Madow
Signet and Village Marquis, son of Gainford Marquisi, Signet and Village Marquis, son of Gainford Marqui
While the prices throughout were fairly good, there wel a number of real bargains when the breeding and in
dividuality of the animals were considered. ideal day for a sale and naturally there was a good an tendance. The stock was brought out in high fit Village Marquis, the young herd sire, oppecd the sale
at $\$ 800$. He went to the bid of H M The ayerage for the 49 females dis. .n. nird, of Elmira. Vesey Choice Brand was the highest priced female
 consideration of $\$ 625$. J. Miller, of Claremont, peid
$\$ 600$ for Crimson Rose. Thirteen of the form $\$ 600$ for Crimson Rose. Thirteen of the fevale
brought $\$ 400$ and over. Following is a list of the ami mals sold, together with the names and aiddressess of the purchasers: Females.
Winsome Corelli, H. P. File, Dashwood Bonnie Signet, J. McKinley, Zurich
Vesey Choice Brand, J. LLangstafl, Tuppervillt Roan Signet, G. Herr, Seaforth
Lexith Gem, H. Heiser, Comber
Gladys May 2nd, E. Stoskopf, Zurich
Vesey Choice signet, D. Johnston, Var
Vesey Choice Signet 2nd, H. O. Bragg, St.
Red Pearlette Butterfy Red Celle, F. Coleman Zurin, Varna Roan Girl, G. A. Attridge Broadhook's Rose, H. Bragg, St. M Auburn Maid, G. Coleman, Zurich Constance May, J. Luker Centralia Lady White, J. Gill, Grand Bend Bonnie Gladys, J. Turner, Zurich Lallynie Jane, J. Lephen, Bornholn lenet 7th and calf D s 1 , Zurich.... Princess of Blyth, G. Nairn, St. Mary' Princess Royal, Wm. McAllister, Auburi Miss Lavender, E. J. Heiser, Comber Corelli Bandsman, J. T. Gibson, Denfiel Corelli 4th ${ }^{2}$. Langstaft
Rosalie 3rd, Jas. Hay , Highyat
Miss Ramsden 144th, D. Brien, Ridgetow
Collynie Rose, J. Barr, Blyth
Rosemary 122nd, J. T. Gibson
Moss Rose R Ran
Vacuna's Princess 8th, F. W. Soott, Se
Nonpareil Belle, W. Dougall, Hensall Konpareil Belle, W. Dougall, Hensal Crimson Rose, I. Miller Chippen Duchess of Giloster H. 2nd, Oestreichur Brest Red Duchess of Gloster 4th, A. J. Howden, ColumJilt's Delight, L. Luker, Hensall.
Jilt's Maid D. Princess Victoria, D. McKay, Goder
Vesey Viola R D Vesey Viola, R. D. Hunter, Exeter Red Blossom, Ed. Boyce, Brucefie Lily Royal, A. Hendrick,' Princess Queen, J. Brewster, Seaforth
Rosalie 2nd, A. Wiltsie, Clinton Males.
Knickerbocker King, D. Calhoun, Mitchel
Huron's Pride Heron Delight, M. Murdie, Seafort Regal (Gem, A. Neil, Clinton

THE FARMER'S ADVOCATE
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Romarein Duke, J. Barr, Blyy


## THE FARM.

## Our Scottish Letter.

turn to France and Flanders one's thoughts naturally Hhere since the 21 st of March. The address of Sir Douglas Flanders is calculated to arulish forces in France and At such a time it is appalling to find senous thoughts. Parliament of the Parish-pump order-Ireland is ever
with Nirn ush and it is hard for Britishers to bear the ordea past three years and not resent the situation in Ireland
It is spmoken ond rations hen of as the land of plenty. While we are ond and tell us of the abundance to be found Ireland write larmers are selling their cattle at as much as there. Irish 104 shillings
per live cowt. (11\%) per 1 ive cwt. (112 lbs.), whereas the outside price which a
British farmer can charge for his chois shillings per cwt. The astounding revelation has is 76 made that the difference bet ween the 76 shillings and the 104 shillings is being made good to the dealer by the
Ministry of Food The for dralted into the army under the Militarth have been In many cases their places have been taken by lrice Act. of military age. A person must be a resident in this country six months before he comes under the Military take the places of gentlemen come over from Ireland, take the places of our men who are shedding their
blood to save then as well as us, remain for five thereabouts, return to Ireland, then come back mont hh or another period of service which is quite independent and every Fnglishmyone wonder that every Scotsman differentiation in favor of Ireland should time that this new Man-Power Bill ropes in Ireland and there is a deal of noise. There will also be plenty of trouble, yet at all costs the Common wealth must be saved.
1918 been to us wondrous kind. At would be spring of conceive of a greater contrast than that bet ween season to 1917 and season 1918. At this date last year the outlook was gloomy indeed. One of the worst blizzards in
living memory was experienced in living memory was experienced in the week beging ing
Apriil 15 . The death rate on the hills was appalling and Apris. The exath rate on the hills was appalling and
flock-masters experienced difficulties unknown at least since 1860, which was also a disasitrous at least winter of $1917-18$ has been almost an ideal one. Plowing and other winter work is well advanced. We had a snow storm and period of hard frost in January, Fellouary was
open and wet, but the latter half of March wis. openabl wet, , ont the latter half of March was especially
favoralle and farm work of all kinds was pressed ward with great success. The prospects for the seaso of 1918 in an agricultural sense are certainly bright, and a greatly extended area is being cultivated. The acreage
under wheat oats and under wheat, oats and potatoes in the United Kingdom
this year will excerd anything farmers are anxious about the effect of the new Maty Power Bill upon their labor supply. If new Mansources are left untouched for another month or six weeks the pressure of spring work will be over and a
breathing space will be pranted, during which breathing space will be granted, during which it may be
posiblle to adjust the lathor problem with the mititary authorities: Food control in many of its phases is greatly ex
ercising producers. The Ministry of Food in this country The milk distributer uonted tenderness for middemen. and July, is to get as muchn per gallon for distributing
milk ass the farner gets for producing it

12.5 in the idea that the distributer of smikangen incongruous

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100 800
100
100
consumer as the producer. The same tenderness for While there is still an abundance of pota with potatoes. Crop in the country, and for months past farmers have guarantec of $\mathrm{f6}$ per ton had not been made good to them suddenly and without consultation with anyone the Ministry of Food have advanced the price by 10 shillings per ton as from April 15, with another advance of 10
shillings as from May 15 , shillings to the man who has opened his advance of 10 for the extraction of seed, and redressed and repitted the remainder. The meaning of this is that the farmer whe ton or less - and thus ted market and took 66 per put into an inferior position fis flow-countrymen-is or dealer who, on the 1 5th of April or May holds grower ties of potatoes. The suspicion is that the maior quantiof middlemen the 1917 crop is now in the hands No farmer ever said that 66 mate an enormous profit. good price, and why the Ministry of Food sho quite a make a present of 10 shillings or 20 shillings, or 30 shillings per ton to a limited number of potato holders have been asked but nanation. Questions on the subject The war directly and indirectly har giel toll upon men prominent in agriculture. Our reates Gemmin the agricultural ranks, Colonel William Lothian, fell on the 'fifth cuendykes, Maemerry, East began on March 21. Colonel Gemmill led almost a charmed life. He was the up to his deat As one said or nearly all of whom died of tuberculosis As one said of him, according to all actuarial calcula able mother who bore the ten survives him his vener have appeared to men that for him there was mauld out the honorable but uneventful life of an East Lothian he was one of the South Arrican war was at its heigh saw plenty of those who volunteered. He went out and taken prisoner by the Boers and ever spoke end he was Sinchess. When peace was declared he came home, as Sergeant, and joined the local Territorial force. He speece yut in the rank or Major. When Armageddo call and went out as second command wionded to the Horse. His chief, the late Colonel Brook, was kiiled Guring one of the earlier battles while he and Major shell hole. Command was and his forces were re-constituted as the 8th Royal n dese wast the idol of his men and was twice mentioned the D. S. O. The great lattle bravery, and received for four days Gemmill battle began on March 21, and rearguard action. On the fift hay he hadreconstitited wheme of delence and seemed likely to hold his positiod when a bullet from a sniper peremptorily closed the career of this gallant officer, who up to the moment of a scratch. Colonel Gemmill, althoush escaped without a scratch. Colonel Gemmill, although farming in East to a family long resident in Fenwisk parish and his
mother is a native of Ween father's side he was west Kilbride parish. On his Scottish farmers, Sir Mathew to wo very well-known greatest and most successful potato growers, one of our thew G. Hamilton of Woolford, one of our most success Tul breeders of Black-face sheep. The common grand-well-known Ayrshire farmer Mathew Gemmill, a died recently in General Lord Blythsword. His soltaien days were over before the present great war broke out He won distinction in the South Arrican war, as General
Barrington in succession bore the title was the chird brother who all three of whom died within a deade prominent Renfrewshire man, Sir Charles Bene Renshaw, Bart., recently passed away, He was a Sussex man by
birth |ut came to Scotland between forty and fifty


A Winning Hereford Calf at Calgary Sale.


Willow Ridge Marquis 2nd, First Prize Shorthorn Calf at Calgary Sale.

THE FARMER'S ADVOCATE.
years ago and was closely identified with industrial
developments in the West of Scotland. He took a deep developments in the West of Scotland. He took a deep
interest in rural affairs, was for a lengthened period member of Parliament for Renfrewshire, and for nearly ace shee has passed awhy in T. W. Buchanan, UPper Weillwood, Murksirke. This most estimable gentleman was a son of the hate
Robert Buchanan of Lettre Farm, Killeamn an eminent Roberrishl hanan ontu breeder of Black-Faces
and highly sucessul Buchanan was $a$ am metween fifty and sixty years of age, and one of the most upright and honorable men in
Scot tish agriculture. Yet and

 body, Ho was the son of an Aberdeenshire small farmer
and farrier, and was at one time tenant of Bethin Midmar, Aberdeenshire. He was later appointed factor on the eetate of Fasque, Kincardineshire, by the late
Sir John Gladstone, Bart., brother of the famous states. man W. E. Gladstone. When the Land Court was
founded, Foilowing the passing of the Small Holdings Act, in 1911, Mr. Dewar was one of the disoverees of
Lord Pentland. As $a$ member of the Land Court he was in his right place. There was no more able man in
Sootland for such work. An older brother is Profesor I. .R. V. Devar. F.R.C.C.V.,. who was lately heas of
 fiermers, and few more so than the brothers De
Alexander Dewar was about sixty y years of afe. In connection with stock breeding, high prices are still the orrer of the day, Shorthorns maintain ast ong
lead. The high pricesos 3 3,000 guineas at Perth and 3,200 guineas at Aberdeen Were eclipsed by 3,700 guineas
paid at Penrith by A. J. Marshall, Stranraer, Por the Aberdeenshire-bred young bull (c.,' 19616 ) Evererrasting,

 the Penrith bull sale on March 6 for the waice named The next highest price at Penrith was 1,800 guineas
the seller bent the Duke of Northumberland, Alnwick Castle and the buyer Mr. Casares, who like A. J .
Marshall is in the South American export trade. Penrith is the centre of a great cattle-breeding area, and hhe sume there, under the leadership of Join Mhorn-
barrow, Autionner, has beeme one of Great, Britainonertint pis--5riesome oanteo, as the best in catte bred in these istands are now to be named, have
been selling at great prices
Yesterday at at the Crewe


 Horses are in great demand. Never was Clydes. dale er reeding so orisk. Gelinga at Perth have mores
than once recently made 5200 O On the other hand are toid that in New Zealand draft horses are almost unsabable. A first-class gelding can be bought for
$=35$, and worn-out sorts can hardly be given away The Brydon Challenge Shield, presented by the Stallion Show in in 1944 a atter being open for compersition at fifteen shows has been won outright by James Kilpatrick Craigie Mains, Kilmarnock, with his lovely young horse Craigie Lititiant, 19071. It had to be won


 | Craisie Lititiant 19071 . Thre |
| :--- |
| Of Baron of Buchlvie 11263 . |

The Goverment have introdyed an important Bill
affecting horse breeding. Its object is to eliminate the unsound and unworthy traveling stallion, and it it is
made applicable to the three Ringdoms. The weak


 Chat a vecernary surgen is a man who knows something
about the inside of $a$ lloxse lut very litle about its ont



An Old-Time Corn-Planting
the first allowed four days to lapse between planting one field the last planted never seemed to catch the first, and was not as good a crop
My grandfather used to say, "when the white oal leaves are the size of a mouse's ear is the time to plant the white oak leaves damaged by frost. I have seen oak. As
farm I think is perhaps the most important crop on the right. An extra day spent on the corn land to put it in done so as not to delay planting. See how the corn looks when put on a nice mellow, well-worked piece of land It shows good dollars all over the field. If a man would put one fifth of his grain land in corn he would be able more labor but it is worth it.
Muskoka, Ont.
A. H. B.

## Test the Seed Corn.

The time for planting corn is again at hand. While
the outlook for securing seed was rather gloomy early in the season, it is believed that an adequate early of seed corn which will grow has been secured from the Southern States. While this may not mature in Ontario, it will produce good fodder which may be ensiled. We has also been secured, and it is believed of early corn ripen in this latitude; if so, it will be of considerable assistance to the hog and cattle feeders next winter, There should be no easing up on the amount of corn other crop grown on the farm will give as large a yield of feed per acre with the same amount of labor. The cultivation of the corn crop can mostly be done by horse
power, and the silo makes a very convenient place for power, and
storing the crop.
From whatever source the seed is secured it a visable to test the corn for germination so that the drill or planter may be set to plant a sufficient quantity of seed to give a senty-five per cent it is necessary to only germinates more than if it tested one hundred per cent. We have heard of some seed testing less than fifty per cent. Now, if the usual amount were planted not more than half a stand could be expected. Thus the necessity of knowamount be planted. If the corn is on the ear, it is a good plan to test about six kernels from each ear, two kernels beilowing this method, any and from the centre. By be discarded. While it is strongly advised that the can be purchased on the ear, the bulk of this year's supply
will be shelled. In this case it is necessary to take a few will be shelled. In this case it is necessary to take a few difficult matter to test the seed. It may be planted in a box of fine, loamy soil and kept in may be planted a few days, when signs of life should appear if the corn
is of good quality. A shallow box may be fill is of good quality. A shallow box may be filled with sawdust and the kernels placed in it and then covered
with a cloth. This should be kept moistened and if the temperature is high enough but a few days will be required for germination. The strength of growth, or the vitality, sho
temperature in order to give best results fairly high reason it is well to delay planting until the soil has chance to warm up. If the seed lies in the ground too lie more cultivation that can be given the sooil stand. planting the fewer weeds there will be to cultivate or

There is a difference of opinion as to the quantity stoed to plant per acre for best results. There are
stockmen who claim that the more ears they corn, the better their stock will do. Consequently, they plant rather thinly in order to give the consequently,
to develop and mature. to develop and mature. There are others, however get a heavier vield of fodder per acre and that they experience has been that silage made from matured corm
without ears gives equal results to the silage ing a lot of grain. If planting in hills it it is well to have
about four kernels to a hill, but more in order to have a uniform stand. The rate of seeding pounds. Trom one peck to the acre up to forty and fifty
ptand stand, and the stalks will grow much particularly heavy
seeding is not so heavy. However, it is possible where the
stalks to mature even if staks to mature even if they do not produce grain. for the
The corn planter, grain drill, or small hand planter may be wed for ppitting the seed into hand planter
Whichews method is used, care should be taken Whichew method is used, care should be taken not
to cowe of seed too deeply. In some localities the crows
are alu 1. on hand to dig up the youg
seem to hurt the germination of the corn. Test the seed gow plenty to ensure a good stand and then aim at

## The Sugar Beet Grop.

In some sections of Ontario a considerable acreage Of sugar beets is grown each year. Thidis rabse bacreage
fairly proftable
Industry, but the
product becone a

 sugar. The cost of growportion as ase the price of
increased quite as much as the advance or thets has increased quite as much as the advance in the toes has of
manufacturing sugar.
The shortage of help


 Experimentalist, the sugar prowuction on on thesistand
under normal conditions amounts to ons annually, and about one-half of this suru 20,000,000 rom beets, while the other hall is masp shly is made
Alarge percentage of the world Alarge perentage of the wordd's total supply of suyar
as formerly been produced in the E now armerry been produced in the European countries
nover The satitated consumption of suyar

 sumption of sugar in Canada per unit of The oneutimated to to bara fulk anada per unit of population is
States $A$ onsiderable as that of the Unied States A considerable bulk of the sugar used in Canatd must be imported. According to the Bulletin, the thande
sugar-beet factories operaing facture sugar from apperaximately in Canada can menubeets, and they are offering for 1918 an option of sy sper
ton for the beets wit Con for the bets, with an increase of one of odlar per too
 anolesale price of sugar, or of s. 75 per ton for beets
of lyity twel the per cent. sugar, with an of thiry three and one chird cents wer ton for forease advance of one per cent. of sugar.
to ten tor ton verage of of close
 The percenteage of sugar varies acoordin past to the yearis
of of bersentage on sugar varies acoording to the $v$
For the bean als ost othe method of cultivation. moist soil having open sub--soil moist soil having open sub-soil. However, good werm
have and can be prown on

 letin are as follows: "It is at asod outline to ig the Bull
beets after such crops as potatose porn sugar beets atter such crops as potatoes, corn or winter wheat
which had previously received a good application 0 farm-yard manure: Surar beets can be followedtation on advantage by spring wheat, spring rye, barley or oats
any one any one or which could be seded with clover alone
or with a mixture of lover and tim or with a mixture of clover and timothy It wit thane
fore be seen that this crop fits nicely in either there or five -year rotation. If it is neecessary to to apply farm
yard Yard manure immediately bisereecesaray yso apply farm
 autumn and have it worked into the soil. The use of
commercial fertilizers can best be determined by loal experiments to ascertain the requirements of the soil It is advisable to plow the land a good depth in the se
autumn autumn and it is an excellent practioce to manure and
then make rideses about thirty inches amart then make ridges about thirty inches aparture ath
double-mold-board plow. This conservest te terthity in the ridges and enables the frost and water to get inity the sub-soil. Land treated in this way is in ogecelinent is sown the land should be the shorouphi, Before the sedtived
 of a light harrow, a fne seed bed can then be formed. About ifteen pound of seed per acre is usually sown
either with beber drill or with an ordinary grain dill,
Coving the leavng the rows about twenty-one inches apart: was found that the reoots which were thinned when at a teifg of twio inches surpassed those which were not
thinned until they had made ae rovth of eich then an average of 1.3 tons per acre In of eight inches by years sugar beets which were thinned when two inches with those thinged heaviest weight of roots compared distance at which the plants are left in the row also influences the yield. At two inches, the average weight per root was .39 and the averages, yield per acre 17.75 tons; leaving the plants six inches apart the weight per 15.74 tons at ten inches the roots averaged 1.25 pounds, and the yield per acre 15.48 tons. Thus it will be seen there was an increase in size, but a decrease in the yield apart may give the heaviest yield, from eight to ten inches is considered advisable owing to the greater ease in handling the crop. In regard to depth of planting, the best results were obtained when the seed was
sown about one-half inch below the surfan sown about one-half inch below the surface of the ground.
To sow as shallow as this and have the seed properly covered would necessitate the land being in fine tilth A considerable acreage of land in Ontario is suitable
for growing sugar beets, and as high testing beets can for growing sugar beets, and as high testing beets can
be produced here as anywhere else. With an adequate supply of labor and a price per ton for beets com-
mensurate with the cost of growing and the price of the manufactured article, a much larger proportion of Canada's sugar requirements could be produced at home. While some have a preference for the cane sugar,
the sugar made from beets is of high quality. Those
who grow sugar beets must be prepared to give them
attention at the right time.

## Automobiles, Farm Machinery and Farm Motors

## War Preparation.

| When the terrible struggle in Europe started a greatmany failed to realize that those at home had as muchreal war work as those actually overseas. Whe man who real war work as those actually overseas. The man whois fighting in the trench, often hand-to-hand with the Hun, is, of course, carrying the greatest responsibility but the man at home must so study and labor that he can release the highest percentage of man-power and material to aid the Allies in doing their work. He is thus |
| :---: |
|  |  |

$\qquad$ ing front. Furthermore you are being economical
 and mentally to carry on his life work. facturers and garages found no trouble at all procuring forces at the front are rendering it increasingl; difficult to secure skilled help at home. This has resulted in words it has become necessary labor, in other experts in all automobile business confine themselves
to the direction of the work of others less competent in order that the largest possible out-put may be ob-
tained. You can help to release men of mechanical genius
by taking upon vourself all the little jo with your car that you have been accustomed to pay the garage for. There is no reason why farmers should
find it necessary to come to garages except in very few hid it necessary to come to garages except in very few instances. If you can make up your mind to master the
details of your automobile you will find that the know-
ledge ledge attained in this effort will not only save you a
great deal of money, but will also fit you to take care great deal of money, but will also fit you to take care
of all the other machinery in use upon the farm. It is safe to say that if the agriculturist of Canada would tenance of automobiles that at least 25 per cent. of the men in the Canadian garages could be released for ot her
work. Should our appeal interest you, it will become necesmechanical work can be successfully carried on. You
will first require a bench, so located that there is plenty of light thrown all over it, and a foundation strong enough to prevent vibration. There are no fixed rules able for one would not suit another. The bench mustbe a little lower that the elbows of those who are going commodate the largest part of your motor car. ${ }^{\text {o }}$ The length of the bench depends entirely upon the size of the jobs you anticipate carrying out. Do not use soft wood
becauise it is liable to shrink. The legs should be well braced in order that any tugging or pulling can be level. Close to the windows at the side or in front it is
well to have all your tools hanging up in clear view in order that the greatest amount of time may be saved
in their selection and use. It is foll, to keep them in box or bag because they soon become damaged or lost.
If you have a definite place ther are certain to alvavs It you have a definite place they are certain to always
be in order. The most important instrument at your work-bench will be the vise. See that you get a good yone

## the Tractor on the Farm," "War-time Importance

 he writer were a farmer or a tractor agent wondering if farmer and used a tractor, I yenture to say he didn't And, as regards an way, in this part of the Province the more tractors that were pood production, I fear stead of more, would be the production, to say nothing if tractorsial burden it would place upon the farmer. not proving their worth in the Western Proviney where condtions are a hundred per cent. more favorable than here and where the main object is to sow the crop there are quite a number to elevators? It is true that are they giving absolute satisfaction? If they are, but is it that so many horses are being shipped there for agricutcurat purposes? is it because they cannot build is a more reliable and satisfactory source of the horse the tractor? I have had no experience with tractors, so will leave that question to answer itself. tractor a fair trial proven in the West, by giving the quite an extent at least, how are indispensable to this bein Provinces afford to spend $\$ 2,000$ on a tractorat the prevest the purchase price-and buy gasoline of horses at least prices when he has to keep one team correspondent savs there are not enough horses. our the power requirements. I would like$\qquad$ motor-trucks and on the farms for them to do, as taken the place of the horse in the towns and cities and if he buys has horses for which there is no market, and plus horses, what is he coing to do wisposing of his surbe a shame to turn them out to starve, or try to would sumption their meat is not desirable for human conThe fact that the farmer can run the tractor day get a man just in the rush season, but then the only time that would be any advantage would be in seed ing time and plowing in the fall, for one cannot draw
hay in at night, neither can grain be cut or hauled in When the dew is on. The farmer could put in a very plowing, but the average farmer is wise enough to sow only as much as he can profitably harvest. This also is one reason he does not require such a great acreage
them he would only have them to change back agai
and this would entail a great deal of time that he hat gained by the use of his tractor. If a break occurs with the tractor, which necessitates the sending away depend upon but the for repairs, there is nothing to rolling, regardless of how much work to keep the ball how long it takes to make the repair, to say nothin alout what a break in his machine might cost him. reaks sooner or later, and inexperienced operators do On the other hand, we have the farmer who does not lepend on motor power. He has horses to do his teressiry work, he knows what they will do and he i it requires one good team of horses for the heaviest of the work, and a certain amount of teaming which is necessary with farm work, and most people desire a
driving horse or a general-purpose horse driving horse or a general-purpose horse to do th
driving. All that is needed now is another horse make up two teams. This fourth horse might be second team for colt; either would do to make up the of 100 to 150 acres, and farms under 100 acres do not require the second team unless there is an extra amount of the farm in crop. At this rate of figuring the tracto only reduces the number of horses required on the large
farm and does not reduce on the smaller one be true that a tractor would do more with just one man to operate it, but would it pay the farmer to make such a heary investment which would make so little difference? I do not see how it would pay for any more
than the gasoline it burned, let alone pay or itself and, in regard to an increase in production, if the difvery large increase be noticed at all it would not be a very large increase to say the most. As far as seeding
and fall plowing are concerned it is is hampering production, as a boy can drive a team, or even a girl can handle a team that is not too spirited, difficulty is to harvest the crops which right. The hard labor. And as far as belt power is concerned threshing is done by large outfits which give best results, and grinding is a thing the farmer is not in the habit of doing himself. Anything lighter may be done by a small gasoline engine, which costs about one-
tenth as much money and will give as satisfactory re-

After taking everything into consideration, and at it would be absolutely foolish to advocate the nee of tractor on every farm when they have not been in use in the past and the average farmer is not the least bit "cquainted with their general results. It would mean
I great change in the present method of farming. a great change in the present method of farming.
Middlesex Co., Ontario.
A Reade

## Engine Knocks.

I have an eight horse-power engine, kerosene burne
which runs smooth on cas, but knocks on oil
$\qquad$
kerosene - -aur air are not sufficiently heated before enter
ing the engine. Se article in "The Farmer's Adve-

Canada’s Young Farmers and Future Leaders
Chronic Kickers.

|  |  | $\begin{aligned} & \text { tin mu } \\ & \text { the } \end{aligned}$ |
| :---: | :---: | :---: |
|  | too voung to cultivate the habit of being plea looking for the lright side of everything. It | that it will continue for some time. It is not |
| aty | be easy at times to do this, but it should be remem | ", is preferathe to |
| Why that they are dubled slepp- - | ved. and eversthing is ging wrong, try | .lna proo mo twe pureb |
| religi | we many blessings. The chr | atame |
| thimst which have no relat ion to to the farmor or lite sumb |  | Afirs sizerl herd a dur |
| ssoci | int of life ower a number of years, | Sommerimi |
|  |  | (art |
| p and makes social, economic and re | -bred Stock. | dis pricenan get |
| ng at the right |  | \%outry where prockially every animal traces to one |
|  |  |  |
|  |  | Muside of the merrenary end of the business, there |
| tac |  | tith you know woun need not te ashamed of in the show. |
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| and hatit |  |  |
| des mixy ater |  |  |
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## THE DAIRY.

Will-milk has high nutritive value, don't waste it.
why not? cream you are selling grade No. 1? If not.
Cool the milk as sson as it is drawn, but be sure that the ceoling process is carriyd on in a clean place that
is free from objectionable odors.

Water hemlock and wild parsnip found growing in
some swamp or lo some swamp or low-lying lands have been responsible
for the loss of many heyd stock

High quality butter and cheese are made from first cream and milk in the miost approved manner?
Danget turn the milk cows into the woods if there is milk may injure an entire vatful at the factory.

Don't be in a hurry to turn the cows on grass. The in the grass gets a good start than if it is kept cropped
close.
M. D. Munn of St. Paul, Minn., was re-elected
President of the American Jersey Cattle Club at the annual meeting of the Club. In 1917 44,887 Jersevs
were registered were registered and 35,884 transfers recorded. This is ani ncrease of 24 per tent. in registrations over the
preceding year.
whole milk for the first chance and this means feeding whole milk for the first two or three weeks and then gradually weaning it on to skim-milk. You cannot
sell all the whole milk and calf as your neighbor who does not stint on the amount of milk fed the youngsters.
More dairy products might advisedly be used on
many farms. Milk, butter and first order, but yet the first and last mentioned are sparing. ly used in too many homes. Use milk as a beverage and cheese as a substitute for meat. Compared with th heifrom March 20 to May 4 , 18 Ayrshire cows and here 7 quature in the record of performance test. There were
first 11,782 lbs. of milk and 424 lbs. of Lat in 304 was She was closely followed by Flavia 3rd of Ottawa, wit a record of $10,880 \mathrm{lbs}$, of milk and 408 lbs . of fat in
328 dars. Hall Kate 328 days. Hall Kate 4th headed the the four-vear-old
class with $\mathrm{S}, 972$ lbs. milk and 370 lbs. fat in 323 days. class with S,972 lbs. milk and 370 lbs. fat in 323 days

Her test was 4.12 . Kathleen was first in the three-year | old class; she gave $7,886 \mathrm{lbs}$. of milk and the three-jear |
| :--- |
| in |
| 314 |
| 1 lbs . of fat | in $32 \overline{7}$ davs. The two-year-old class was headed by

Acmelea Denty Cora. This heifer gave $7,931 \mathrm{lbs}$. milik
and $2 \times 31 \mathrm{lbs}$, of fat in 304 davs.

Milk Fat Essential to Health
$\qquad$ Tests and experiments have been conducted in practical. as every country in order that it may be definitely be best for animals or for human weilles arond McCollum, of the John Hopkins L Niversity, has been
carrying on a number of cureriments carrving on a number of coperiments alonk this line.
and has proven that the fat of nilk is proper development of the human beinss. It contains
something which is onls foumd in tion
 Conterence, recently held, Dr. AcCollum oulined s,mee
of the results of his investigatims. It was primted wut of cereal srains, such sveelables man murition pleme
 different sources, the Doctor did nut womder that iom had overlowed the fact that the prowin wortent, "he.
energy content and the dicsitilitit? wels not the whull





corn plant and others on the oat plant. Certain calves
were selected and fed on these rations, in order to see What would happen. Those fed on the wheat plant
as the sole source of nutriment did not look as well as as the sole source of nutriment did not look as well as
the others, and an endeavor was made to find out what was wrong with the wheat ration. Thesc fieifers grew up and their first progen. only weighed about half as much as they should. With the oat-fed animals there was a litte better ressitt. The calves were normal in twenty-four hours after liirth. Those fed wo the corn plant entirely wers the best, and the calves were vigorous and quite strong. With this information on study of the problems of others commenced makitiong a what was the most simple ration on which one could get animals to grow. Different quantities of starches, sugars, tats and inorganic salts were fed in different proportions.
After fin that in addition to the recognized constituents of out diet starches, fats and protein there are two other things which, are necessary and they have been designated as vitamines. One of these is most obtainable fats, as the egg yolk and the fats out the the clandular organs, such as liver and kidners. These fats would permit of growth when put into a diet, provided the
diet was right in every diet was right in every other respect. This substance After continued aper. the conclusion was arrived at that its ine wheat plant. was unsatisfactory, that it lacked the unknown sub stance furnished by butter-fat, and that its protein
was of poor quality. It has been foid Was of poor quality. It has been found that the proteins animal world. The Doctor continued: "There are three mineral elements which have to be added to any seed to make it complete, those are calcium-the principal in table salt-sodium and chlorine. You are present three of them; any pair will not do, and youst add all the same three for any seed that we have studied. Every
seed lacks a sufficient amount of that


Oxford's Briar Flower
 stance in butter fat to induce normal growth and pret.
long well being." When an animal is starved for one these unknows, he egts paralysis, When there is
lack in the diut the tisues surrounding the eyes swell up
and three or fiour weeks, it no inflamed. In the course of
 is ,iven. Thus the imporequate amount of butter-fat ardtress alson showlowing paragraph from the Doctor's
 innung, a flass of Jappumed who were living on a diet of
 the cise wis stes of chibed dren who had eve were approxiiilnerimentills, lertioce we wactly as we had found out (tur th) lick of the sulst troutce in resulted in an animal The cure for the eve trovite right in we with butter-fat.

## Oat and Pea Silage

Editor "The Farmer's Advocate"
It may be of interest to some of your readers to know Woughage. In do do on oat and pea silage, with no other nd was. In January last I had used up all my hay er tas unable to procure any except timothy at $\$ 30$ of feed, which seemed to me to be throwing money away fore, fed nothing since but silage(oats and I lave, therehree months and my cattle lick it up cleancr now the hey have done all winter. I have six milkers, fout heifers nearly two years old, and twelve or fourteen
from six month old four or five pounds of bran each dailcerved in addition in milk on an averaze of seven months hey had bee 23 pounds of milk daily: The bottom ten feet in thed
silo was fairly silo was farly well matured and the grain was well
filled thourh the filled, though the straw was not very yellow. I feed
a limited quantity to my, hogs and brod sol eat it with a relish. The oats and peas are soft enough
for them to digest readily.

## Loafing Animals.

The term "loafer" applies usually to an idlo person, or to one who would rather beg than work. In many herds there are animals which answer to this description they do not do sufficient work to pay for the feed which they consume, and it is a case of the dairymen keeping
the cow instead of the cow keeping him. fewer loafers in the dairy herds of Ontario, the werage production per cow would be greatly increased and the financial returns of the dairyanen improved to that extent. No man can afford to keep a cow in his herd which does not produce sufficient milk and fat to pay and giving an allowance for interest on investment , etc, Some dair men have found on starting to keep revords that about one-
half their herd was keeplhal their herd was keep-
ing the other half; thus bringing the profits to a minimum. By beefing the slittle extra feed to the best cows the labor inincreased. It is noe greatly number in the herd that counts as much as the
quality of the individuals in the herd. With feed and labor at th price
they are at present,
ow ruust give a fairly
 order to meet expenses
with the preailing prices
wit s too much guessing as
 productionstand hoom tare daily records were kept
the dairyman would Enow at a glance what position to feed accordin to production and to cull out the members of the herd farmer can afford to have loafers in his heri.

## Jerseys Bring a Big Figure

Edmond Butler sale at Mt. Kisco, N. $\mathrm{Y}^{2}$., when 62 head brought $\$ 60,115$. As high as $\$ 10,000$ was paid for a
single individ single individual. This cow, Oxford Briar Flower, is a
daughter of that some of the other fas bull, Oxford Majesty. Among Ginsy Lad, which went higherd animals were the hammer at $\$ 2,700$
and Canadian breeders at, at $\$ 2,610$. There were severa choice individuals. The firm of B. H. Bull \& Son purChased Les Prairies Bessie for Arthur T. Little of Lon-
don at $\$ 2,200$, and secursed tw and at $\$ 2,200$, and secured two other cows for their own
herd at $\$ \$ 75$ and $\$ 750$ respectively
Eventide'c Lassie went to the bid of John Pringle, of London, for $\$ 1,750$.

In Kiansas, the Holstein breeders recently held their
 sold $1: 23$ animals at an averagn of $\$ 2525$, at their spring
sile. The top price was $\$ 600$ for the fenale, Oakdale
Henkerveld curis

Holdiny Co dispersal sale of Holsteins held by the L.awsonItoding Company, Poupheepsie, N. Y. . 97 animals
made an average price of $\$ 996$. The hishest was $\$ 15,600$ mate in aterage price of stofe. The highest was sis.,600
Tor a hali interest in the bull king Segis Pontiac \$lcartra.

Now
time to
other wo
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egg famine
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as compareet this season proper feed oiten happe more plentif The wa
gives very used every better for par be clean whe
dirty, moulds of the egg th to keep eggs
and wrappin them on end ate and free
if packed in of oats in
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## POULTRY.

## Packing Eggs.

Now while the hens are laying fairly well is a good
time to pack a few epgs for next wintere' timer words, to provide egs for next winter's use, or, in
othe when the majorits
of hens are off duty and of hens are off duty and eggs are high in price. There are
different methods of handling the eggs so that they will be in good condition six or seven monts so that they will
of cases $p$ into Hundreeds of cases ko into the cold storages every vear and if it
were not lor these stcrage egrss we fear there would be an were not tor these stcrage eggs we fear there would be an
egg famine in many districts. Comparatively few people in the towns and cities put away sufficient eggs when they
are plentiful to do them for the winter months few are able to have their hens lay the year around, the habit has not become general with any breed of fowl. as compared with what it was a few years ago and the is no likelihood of them beroming any cheo and there this season of the year many of the hens go broody and egg production falls off. Failure to give the birds the
proper feed and attention when they also results in a decrease in the egge vield ree range often happens that when the crop comes and the hens have access to the ripening fields of grain, eggs berome tather than wait until on in the fall pack a few eggs now The water glass solution for the
gives very satisfactory results and more of it is being used every year. The material is not expensive and the
directions for use are on every tin better for packing than the fertile ones, and theyss are be clean when put into the solution. If they should dirty, moulds or bacteria develop and affect the contents of the egg through the pores of the shell. Some are able
to keep eggs very successfully by to kep egks sery successfully by merely greasing them
and wrapping them in common paper, then standing them on end in a room where the temperature is moder ate and free from dampness. Eggs will keep very well
if packed in salt, also if packed in oats. Place a layer it packed in salt, also if packed in oats. Place a layer
of oats in the bottom of the box., then a layer of
ons. eggs and another layer of oats, until the box ay firi.ed. Alid can then be put on and the box x urned unside d,wn reruuntly, as the eggs keep ietter if turned. These
preservatives close the pores of the eggs and prevent
the

$$
\begin{aligned}
& \text { preservatives close the pores of the eggs and prevent } \\
& \text { the evaporation of the contents } \\
& \text { A sump }
\end{aligned}
$$

A supp'y of eggs for winter use might well be put
away in every household and this is the time of year to a demand for new do lay in the winter, there is always due largely to the shortage of supply. The poultrym
who who hasa fock laying a high percentage of eygs during
December and January is fortunate December and Jomuary is fortunate inded. Thess
two months are the off season for hens. There are a few
 them properly and giving then sutitable caccommodedtiong
a much liarger number of winter eggs might be produced.

## Raising Turkeys



##  <br> Continuity of Bloom in the Flower Garden.

 dullness are ind kept for lice. Drooping wings an presing on the lives of the yeung enemics of low arerubibed on the liead and will rout these parasites. search of inserts and gruber a and it is is sumproprising how
little they will the growing crops. By. as they wend their way through grashoppers, ete. they no doubt do more goord that go on free range. However, if al litte is required once they mat induce them to return home. It too often happens rather than to precers to roost in a neighbor's apple tree Colds and blact homeward.
heary toll, and it is very discouraxising to ser the take dwindle through the season, until by fall only a few
remain. The s tem watery discherge sypoms of cold are sneezing and a Coal oil in the drinking water and rubthing a little quite prevalent eyes is recommended. Blackhead is quite prevalent. It is a contagious disease of the liver
and intestines, and are a couple of weeks ord. Sometime after the poults smon after infection, or they may linger on ards die carriers of the disease. Affected birds first appear dull sets in, the wings and tail dropetite; diarrhepa usually discoloration about the head. This is crnsidered to to practically an incurable disease. However, preventive measures may be taken to guard the flock against
contracting it. grounding consequently putting the young biirds in the feeding ground each yeart is one step toward warding of this fatal trouble. Even on the fresh ground it is symptoms they should be immedliatelly ion If any show flock and it may be wise to destroy thy
 be disisnected. It is unfortunate that this disease
has become so prevalent and is so dififiout has become so prevalent and is so difficult to treat. Care
should be taken when purchasing breeding stock secure them from focks that are free from disease. It the disease can be prevented until the young birds
go on free range, they are not so liable to bergme in go on tree range, they are not so liable to become in-
fected until placed in the fattening vards in the fall.

The Egg-Eating Habit Once this habit contract the habit of eating their eggs.
On ormed it is rather a difificult mattes of improper feeding. Some is estent stal nted as the result of the ration, sudh as mineral matter or meat, is often the direct cause of this trouble. If the birds lay in open
nests they may eat practically, all the cegss laid. IV: have seen one hen leave the nest and another one im-
metiatel jump in and eat the egs. Some have stopped the halitit forilling and eggs shell with sedme have stopper, Another Very good way is to darken the nests. This can be
done by building a sort of run-way along the front with an entrance from earh end As the eggs are not in full

## HOR TICULTURE.

Plant letuce, radish, peas, corn, etce, at intervals
of ten day or two week so , to to prolong the seaton

## tor using these wegetables.

The wre hard soil requires feeding if maximum crops of fruit are to be expected. Trees will not do any better atripe of paper or pieces of tin wrupped around set ont will be a protection again:t attack, of the cut Tet out more tomato plants than usual this spring. The ripened fruit is relished in the fall and will aid in
conserving meat. Home-canned tomatoes will help
reduce the expense of providing the table
$\qquad$
uorms ece the groseberry and currant bushes and if
pounds of asenate of leat to forty gallons of water
may leapplied just after the fruit is set but ue helle.
loore it worm- are attacking at the time the fruit i
frore if worm- are attacking at the time the fruit is


the udtition of aremple of lead to the mixture will

## in the autumn. By so doing he an be sume osate

 tinuous display of bloom from he tan be sure of a con haspears until it covers the ground again in the autumn rose. This frequently forms under the snow and is the border. The crocuses and the squills follow. The are the tulips and narcissi The calty sprime. howeven Howers of spring which come to us with the first songs of cre birds. With the tulips come also the more delicat creamy white and golden narcissi or daffodils. Thebeautiful and stately Darwin tulins sason well on into The irises with their many rainbow colors belong to color they group of fowers. In gorgeousness of English, Spanish and Siberian iris season well on into pacony time and pacony sout the for several weeks and carries the flowering season into From until past rose time when the early bulbs begin to fade variety of many of the gorgeous spring flowers. The lazzling and magnificent oriental poppies and the tall aire-like foxtail lilies, recently introduced into Canada The flowering shrubs are ver
asy to grow and perhaps more gry beautiful. They are of the flowers. First of all the gnow eful even than some scented currant bloom, and these are quickly followed omes the grand the Siberian pea trees. A little later the mock orangul Van Houtte's Spiraea. Others are flowering hydranges, Japanese and the smoke bush. The autumn nowering hydrangea carries smoke bush. The autumn September when thea carries the season well on into
record. Retur
Returning to the perennial flowers, the next great group is that known as the "showy" group and includes
the phloxes, shasta daises, blanket Hower, etc. These are the flowers of July and August.
July, August and September their very best in late from seed sown about the middle of April. Many of them continue in bloom until the killing frosts of October. the flowers of July and August The flowers of late autung
ailing" group, which includes the golden the "prethe Japanese anemones and the fall or perennial asters. and the Japanese lilies should also have a place in every

Insidious Enemies of Garden and Field Crops.

## lt is believel that the fromeat growers and gardeners is believel that the annual loss due to such pests

 antrolled by the application of poisonous material. Hewever, there are others that are very hard to combat among these are the cutworm, white grub and wire-worm. These larve live in the ground and are very estructive to certain crops. It is very discouraging to. see a field of oats, or corn, thinned out or the plants
sicken and dic, due to the work of these pests. No less
damaing is damaging is the work of the cutworm on garden stuff. grasses; consequently, when the sorl land is plowel and tack are deprived of their usual food, they readily atplete their life cycles, or a period of three years comrom the time tite gys are latid until the mature beetles appear. According to I.caflet No. 5 , issued by the reetles were very aboundant in certain of Agstriculture, the anada in 1917. The grubs hatching from these egge sill undoubterly cause injury to crops this year, and is the mest destructic: The metheretsond year that iney in the Leatlet are as follows: phen the land is being dug or plowed. As many of these as is prossible should bre removed by hand and tumately no practical measures known to destroy tor and destroying are known to be present in the land, brings many grults to the surface, crushing numblers of treme and expensing others to adverse weather conditions is useful, particularly in years when the grubs are chang.
ing to beetles. Land known to be scriously infested and required for croppping in 1918 may be plowed in late spring, then
thoromghly harrowerl and planted to a late crop. Such
late cultim late cultwation will attract to the fields, crows, black-
birds, and other birds, which are known to feed readily mpon these gruts, particularly during their to feed' readily Domestic fowls, surth as chickens and turketing period. fond of white grubs and should be allowed the run of L.imitell areas mave lee practically (redt grulso bye turning in hogs, ceither in spring after white
been removed. These animals are very fond of
grubs, and will root them out and devour them.
The method of controlling cutworms given in I. ea let No. 3, of the Entomological Branch, is to the effect these worms from multiplying. The way in preventing cutworm moths are deposited soon after the adult in sect appears in early or late summer, and are laid on weeds or nearby succulent vegetation. Consequently, it is advisable to plow deeply in the early fall all field's piece of paper or a band of tin around such garden
plants as cabbage, cated as cabbage, cauliflower, tomatoes, etc., is advoTo protect frotection and other trees from the climbing cut worm, a band of cotton batting fastened tightly around Remedial measures, will prove effect Rem
follows:
The poisoned-bran remedy is the one which is now
used most extensively used most extensively for the destruction of cutworms generally. This is made as follows: Bran, 20 pounds pound; water, 2 or $21 / 2$ gallons.
thoroughly in a wash tub, while (or white arsenic) molasses in the water and wet the bran and poison with the same, stirring well so as to dampen the bran
thoroughly. Shorts or middlings in place of bran are also useful for cutworm control.
A simple formula for small gardens is one quart of
bran, one teaspoonful of Paris green, and one tablebran, one teaspoonful of Paris green, and one table-
spoonful of molasses, with sufficient water to moisten spoonful of molasses, with sufficient water to moisten
cutworm injury is nould be applied thinly as soon a the mixture be scattered after sundown, so that it will be in the very best condition when the cutworms come to them, and when they crawl about in very attractive they will eat it in preference to the growing vegetation If the mixture is put out during a warm day, it soon becomes dry, and is not, of course, as attractive to the beets, turnips, etcat, a simple method is to have a sack ing between two ming around the neck, and by walkmay be scattered along the row on either side. When cutworms are so numerous as to assume the walking habit, the poisoned bran may be spread just ahead of
their line of march. In gardens, where vegetables or flowering plants are to be protected, a small quablity of the material may be put around, but not quantity each plant. Fruit trees may be protected from climb. of course, not be thrown way, but the mixture should, of the tree, notherwise injury may result from the the basse burning effect of the Paris green.
Under field conditions
Under field conditions, 20 pounds of poisoned bran
is sufficient to treat about 3 arces. Scattering the
mixture thinls. places it where it mixture thinly places it where it will reach the greatest
number of cutworms, and when thes no danger of birds, poultry when thus spread there is Observations have shown that the cutworm moths very often lay their eggs on weeds, etc., on the higher migrate therefrom to other parts. If such places are be possible to control the outbreak by scattering the
poisoned batt chiefly within such are Fresh bundles of any
succulent weed, grass, clover,
or other tend.

through it and the cuwortis in this way will be crushed and killed. If a series of post holes about a foot deep of the cutworms will fall into them, and they can then be easily killed by crushing them with the blunt end of In small pece of fence rail.
cutworms can, as a rule, be easily located in the soil about an inch or so beneath the surfaced in the soil, radius of a few inches of the plant, and destroyed by hand.


## White Grub Feeding on Roots of Grasses.

## FARM BULLETIN.

## Anxiety in the Country.

During the last few weeks there has been anxiety throughout the rural districts of Eastern Canada, and as we go to press a large concourse of delegates are on cerning matters which affect production. Election Act would be exempted, and ther the Military Service greater and still greater production, have prompter renewed efforts and enlarged plans which render neces The early and favorable spring brought able to obtain creased acreage which will require more hands for harves than were a vailable last year. When exemptions wascelled farmers became alarmed, and were seeding was not completed there was a sudden slackening of would be cared for and harvested as to how the crop were called and largely attended. The sentiment ex
pressed at these gatherings was that pressed at these gatherings was that the Government increase production must be more or less abortive if Sreater draft was made on the man-power of the farm Our own Food Control Board, and the Premier himself were advanced as evidence that the importance of food

## bran, ther should tee.appied

oung Plant Showing Characteristic Cutting Habit of Cut Worms
has risen to third place as a wheat-prolucing nation,
and as we lead the world in production per capita, it
was considered inconsistent to further impair effective machinery for feeding the Allies, who must
naturally look to Corada for sustenance. All thest matters have been agitating the minds of agriculturists pasture in order that the farmers might reporne when
thousam! in the towns and cities of the same draft housand in the towns and cities of the same dhat
had not yet beenc called up. The promise was made that
armers of the noulve.
mest and "pleasing generalities" will satisfy vague statements pleasing generalities" will satisfy this, one of the strong-
est delegations that any Canadian Ciovernment has
ever been called

## Good Roads Conference

At the Good Roads Conference, held in Hamilto he latter part of last week, the fact was emphasized onditions imposed by heavy and numerous truck that three and four-ton trucks woucted it was not expected hem at a rapid rate. Consequently, we find that over of the roads' which were well constructed to stand ordin ander the wressure-drawn vehicles, are breaking down of the rapidlysure of the heavy loads and the suction portation by auto truck will undoubtedly, goes on transpopular. In the building of roads to-day become mor the past should be avoided. The main arteries of raffic should be built for the requirements of the nex hity or sixty years, was the advice given by Mr. Howland.
This speaker outlined certain legislation be enforced for the governing of traffic on the road. Some of the points mentioned were, that all vehicles should arry lights: pedestrians should be required to carry a speed of any vehicle hour should be the maximum peed should be reduced according to the road, and that wheel base and ratio to the width of the tire the number of delegates were present from the United States and they outlined methods of construction which were being employed in their country, and of considering the traffic of the future when building
roads to-day. An address delivered by on "Road Drainage", was listened to with a good deal
of interest. of interest. H. Bertram, Vinemount, gave a paper entitled, "Who Should Pay for the Roads?" in which
a number of methods of taxation for road building and
road maintenance were outlined

The Construction and Care of

## Outlets. <br> ditor "The Farmer's Advocate"

The efficiency of the drainage systems in our properhaps than upon upon the condition of the outlets outlet I have seen in operation was a corrugated metal ne. Instead of bringing the tile to the end of the drain, ize as the tile, is inserted as or eight feet long of the same of this metal is inserted at the outlet. Across the mouth in order to prevent animals, such as muskrats and rabbits from entering and clogging the drain. This type of ordinary conditions, indestructible More than the account of its length and the firmness with which it an be laid, it is not likely to get out of place.
The first requisite of a good tile drainage system first importance as its construction and care are stallation, is likely to give more trouble. Evidence of neglect in giving the outlets proper care are every-
where seen and more attention to this point will inwhere seen and more attention to this point will in-
crease the efficiency of our drainage systems to a surprising extent. An excellent outlet may also be made by using An excellent outlet may also be made by using a
cement tile or vitrified sewer crock at the end in prefer-
ence to the clay. Due to their porosity and hence their high content of water, clay tile when frozen will hake
and crumble and soon allow the earth to fall in and Where neither a corrugated metal pipe nor sewer
ile can be procured a wooden box at the outlet is to be iNe can be procured a wooden box at the outlet is to
preferred to exposing the tile at this, the most vulner
able point in the system. Cedar is preferable to use able point in the system. Cedar is preferable to use
and the box should be made from six to eight feet long and large enough in cross section to admit the tile at the upper end. Care should be taken to place it firmly and permanently in position. This latter type of outlet newed as scon as the bottom board decays. the tile empties is also of fundamental importance and points in connection with this channel are first, that it should be of sufficient size that it will not run full for
more than one day: and, secondly, that the general plane of the tile drains emptying into it should be above its average surface line. Submergence of the outlet
is to be avoided wherever possible as great danger of filling with silt or sand is incurred when this takes place. This condition also prevents the drainage of the
lower lands. Where the tile of a ditch and the water often rises over the top of them the outlet should be constantly watched and frequently An excellent method to follow in maintaining the outlets is to examine them twice a year and repair
any faulty condition found in them. The tile drainage
system system will be called upon to do the greatest amount of work during the spring season and if the outlets are cleared before the snow goes off their efficiency will be
correspondingly enhanced. If the outlet is of a durable nature and has a good clearance it will not require any attention during the summer. They should be visited,
however, late in the fall and any accumulation of dead leaves or other foreign matter removed before the snow
covers it up. It will be a simple matter then to open hem in the spring in preparation for the "freshet season.

# Toronto, Montreal, Buffalo, and Other Leading Markets 

Receipts and Market Tops.


Toronto (Unien Stock Yards Montreal (Pt. St. Charles) Montraal (East End). Winnipeg Calgary Edmonton

|  | Receipts |
| :---: | :---: |
| Week | Same |
| Ending | Week |
| May 9 | 1917 |
| 6.591 | 4,584 |
| 82.5 | 652 |
|  | 565 |
| 2,550 | 2,405 |
| 1.970 | 882 |
|  | 211 |

ATtLe

| Price (iood S |  |  |
| :---: | :---: | :---: |
| Week | Same |  |
| Ending | Wieek | End |
| May 9 | 1917 |  |
| 815.00 | \$1225 | \$15. |
| 14.50 | 11.75 |  |
| 1450 | 11.75 | 13 |
| 15.50 | 1160 | , |
| 14.50 | 100 |  |

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& \text { ding } \\
& \text { ay } \\
& 300 \\
& 3.0 \\
& 40 \\
& 50 \\
& 50 \\
& 50
\end{aligned}
$$

| Receipts |  |  | Top Price (rood Catves |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Week | Same | Week | Week | San |  |
| Ending | Week | Ending | Ending | Week | Ending |
| May 9 | 1917 | May ${ }^{2}$ | May 9 | 1917 | May 2 |
| 2,684 | 1.185 | 2.171 | $\$ 1600$ | \$13. 50 | \$1600 |
| 3,213 | 2.431 | 3,176 | 1600 | 12.00 | 12.25 |
| 3,160 | 1,518 | 1,892 | 1600 | 1200 | 12.5 |
| 146 | 145 | 109 | 1700 | 1250 | 1600 |

Toronto (Ynion Stock Yards)
Montral (Pt. St. Charles)
Montral (East End)
Winnipeg
Calgary
Edmonton

| Week | $\begin{aligned} & \text { Receipts } \\ & \text { Samene } \end{aligned}$ | HOC: |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Wrek | Top Price Select |  |  |
| Ending | Week | Ending | Week |  | Week |
| May 9 | 1917 | May 2 | May 9 | 1917 | Ending |
| 9,219 | 8,866 | 7,346 | . 821.25 | . 17.10 | $820{ }^{\text {P }}$ |
| 1,249 | 1,546 | 1,137 | 21.90 | . 1725 |  |
| 5,653 | ${ }_{4}^{696}$ | . 548 | 21.90 | 17.25 | 21.15 |
| 2,349 | 2,201 | 5,118 | 1975 | 1600 | 19.50 |
|  | 603 | 880 | 90 | 15.35 | - |
|  | 603 | 880 |  | 1585 | 1935 |



## Market Comments. Toronto (Union Stock Yards).

 week were the heaviest for some months|  |
| :--- | :--- | :--- |

$$
\begin{gathered}
\text { TORONTO } \\
\text { (Union Stock Yards) } \\
\text { Arge. } \quad \text { Price Range } \\
\text { Price }
\end{gathered}
$$

totaling over sixty-five hundred heai
Among the daily rynse killers. Prices, on the whole, were thoic satisfactory to the drovers, sales bein made at values fully as high as thes
prevailing at the cle se of the former week and almost $\$ 3.00$ per hundred higher than the ruling price one month ago. There
was litte change in the market from day to day, catt selling steady on the closing market of the week, , at the quotasion
mrevailing on Monday. On the latter day, four thousand head were offere for sale, and all but about one hundred
head were wioh hed up before the close of the market. When it is realized that during the week, numerous loads
cattle brought from $\$ 4,000$ to $\$ 4,500$, idea of the present enormous value o
the live stock industry to the count the live stock industry to the country
can be obtained. There were a number of loads of heary cattle on sale, for which the top price reported for a straight
load was $\$ 15.50$ per hundred. Two steers averaging fourteen hundred pounds sold hundreel pounds for $\$ 1+50$ and other good sales from $\$ 14.50$ to $\$ 15.25$ per hundred. Of steers weighing from ten hoad of twenty three head averaging per hundred, twent -six head at sisilar figure, eighteen head of ten hundred and eighty pounds at $\$ 15.15$, while severa hundren head were weighed up during and heifers weighing from seven hundred to ten hundred pounds sold well, twenty eight head of one thousand pounds
selling at $\$ 14.50$ per hundred, another $\$ 1435$-eight at $\$ 14.40$, twenty-five a numerous sales were made from $\$ 13.50$ in keeping with and bulls sold at prico other grades of cattle. One choice of fourteen hundred pounds sold at
$\$ 14.00$ per hundred, one of ten hundred pounds at $\$ 12.50$, while quite a number realized $\$ 12.00$; medium bulls sold from $\$ 10.00$ to $\$ 11.00$, and common bulls $\$ 12.50$ in $\$ 9.50$. Choice cows sold up ts a number of sales were made from $\$ 11$ to $\$ 12$; cow s. of good quality sold from $\$ 10$ to $\$ 0.75$, common and grass cows from $\$ 9$ to $\$ 9.75$, and canners from $\$ 7$ to $\$ 7.50$ market was about steady at and feeder prices of the previous week, and stock moref to the country in fairly liberal per hundred and chers sold up to $\$ 12.75$ $\$ 11.75$. With twenty-four hundred up to on sale, , prices were about steady. Really hoice val calves sold from $\$ 15$ to $\$ 16$ $\$ 1.500$ med, good calves from $\$ 13.50$ to , on, that common from $\$ 9$ to $\$ 11$. and sold at unchanged quotations. On Amurnine thousand hogs were on sale while soveral decks realized $\$ 20.85$ Few sales were made on the following day, but Wednesday, quotations were
marker! :10 to $\$ 21.00$, notwithstanding an


Every farmer who desires to do business with

## The Molsons Bank

is always assured of a courteous reception by local managers. And their object is to assist the farmer in a legitimate way, to make his land and stock more productive.

533 hogs and 40 lambs. Canatlian shin),
ments were made uls of 273 , calvec, en,

 ct 1917. Winnipeg.

 wnsits of tomer wethe, The stm


## Prompt Returns From Shipments

When you ship Live Stock, Grain, Butter, Cheese or Fruit, put through The Merchants Bank a Draft on the buyer. This is the business way of securing prompt and satisfactory settlement.

It saves time and possible loss. THE MERCHANTS BANK Head Office: Montreah OF CANMADA Established 1884.
 Columbias sereses Rural Canada moses effectuvely.
WRITE OR CALL. AT NEAREST BRANCH.


Cheese Markets.

 spevials, $2+1$ sc. to 26 c .; average run, $23 / \mathrm{sc}$.


Why He Objected
A ship had fouled a floating mine in Boats, were promptly lowered, and crew and passengers proceeded quietly
to their appointed stations. to their appointed stations.
Meanwhile the captain on brige Wais sending "p rockets and burning
blue lights, in order to attract the attention on any vessels that might chance
to be in the vicinity o be id the vicinity.
Suddenly he caught sight of a tall, thind and yaustere paught sight of a tanding at
the ton of the stair leadingtor he ridide. Thin and austere passenger stanaigge.
the top the stair leading to the bride.
"What are you doong here?") said the "What are you doing here?" said the
captain angrily. "Your place is in the the captaian angrily. Your por
boats, and if you do not go
the The passenger gazed at the captain
solemnly solemnly. "I have come," he said. "I have come," he said. "to protest
against this unseenly conduct on your
part
We arc nory facint death. Is part. We are now facing death. Is
this the time revoice. Is this the
occasion to ignite frewerlo pacasion to iginit freworks

Deadly Camouflage
"Talking about camouthaye. I heard good camoulage story the ot her day the "rest front: . Griffiths, have you had my dugout Gamouflifteds


By Maizie Munro, in the "Tribune," Along the Kentish coast the guns Along the Kentish coast the little children The cannon boom and do not think it They thinin our earth was alwa)s fevered With fire and water deaths-they were of pearceful to know
Of peaceful worktime calm on house and Of life, the safe, the beautiful, the still,
Along the Kentish const

Along the Kentish coast the little children
Toy dig renches, playing hard that they are "Shalli i be grown next week, or Mother, 1 whent to go where Father is-with all the It's good to be a man and fight all day"--
What do the children know of children's Along the Kentish coast?

The Republic of Commonsense.
by theodore gerald soares, professoh
of practical theology in the Practical theology in the
UNIVERSITY of chicaco We say, "my home," "my town,
country, country," but we never say "my world. Social organization has not extendded
beyond the nation; the term humanit) beyond the nation; the term humanit
represents a fine idealism but specific loyalty. There have been mighty attempts to push forward to a super-nationalism
 wanting in them a ceretain ideal quality
Under the ambitious aggression of exander was the the houpe of impession of of Al
Greek culture to Rome wis no mere vulgar conqueror but believed that the pax romana would
give to mankind a universal give to mankind a universal justice which
it had never known. Napoleon, im. perial egotist that he was, hapoleon, im- im , great
vision of old feudalism and Europe rising from the
ondenzored the Code Napoleon
 today is which menaces the world quality, for the German genuinely be
lieves that the world needs his organiz-
ing ing power. All the imperialistic endeavors unify . men were wrecked upon the rock
of a passionate a affirmation of nationalisin, Ansidnate asftrmation of nationshall faill under the German might then our children would fight to be free; and If they should fail then the the chir children
wission tof the the world to the The sub-
mot vill ner concuero Yate stark nationalism is not satis
bailery Indeed the world had inevitally kind. IT Lere internationalism of a certain who beliered were in that wanting thoss war. (ini. clomen even to the ending of nationalism ofencent in this was the inter-
internuwn interperal the nations to one another
harnumpal differences, concluded mants differences, concluded agree
mants Furnal treaties bound the
nation entim, munual action. Specticl con and swit to safeguard the ins pledge
of nextions and non-bell
time ments nulced most international agree
internationalism as the pristal and te
graph service must not There was the ne be overlooked. trade. A marvelous, intricate falhric of world credit had been organized. One in the remotest part of a draft payable could order goocls from the globe. One of Africa or of China. Business agents crade sent to any spot on earth where thought that the world on. It was so complex that no nation would was disturb it by a war.
There was the internationalism science. We used the world phrase, "The
Republic of Letters." Did any one write a good book, did any one discover a new truth, did any one bring forth an property of all wer the common the world of thinking men had become There was the internationalism of labor. The extremer labor sentiment in-
sisted that the worlar a brother and the capitalist in any land was an enemy. Socialists declared that at the first hint of war the workers in
every country would every country would organize a general
strike and make war impossible. The strike and make war impossible. The
very word L'Internationale was a proclamation that patriotism was out-
grown; indeed the I W. W in grown; indeed the I. W. $\cdot \mathrm{W}$. in America
consistently refuses to vote, repudiating consistently refuses to vote, repudiating
country in the interests of mankind. So had grown up that large body of practice and sentiment that may well we called the old internationalism. All
this came down with a crash in the summer of 1914 . The Kaiser spoke the simple truth when he told our Ambassador that international law was no
longer operative. The pirate is on sea or beneath it; the Red Cross has ceased to be a pledge and has becom a target; treaties are siraps of paper.
The internationalism of soin The internationalism of science dis-


Cont several shell h have fiallen upon the cathedral.
that it could mobilize puick telegram of command soldiers. signatures of the Ninety-three intellectual disgrace to German scholarship eterna Trade shuddered and shook itoolf hen adjusted itsclf to the new order of ho "he hinces and it nearly possible to one brief hour uttered its brave proter Berlin against the iniquity of the Austrian note, then felt the iron grip The old internationalism is in look to the future and wonder what hall protert us from the terrible dangers hat the mere national organization xamine the value of the led to reit so supremely good that we may pay
this awful price for it? Surely it is very Theod. It is marvelous a great area of peace stretch of country over which Americans may travel, finding everywhere our com-
mon tongue, our common ways of thinking and of doing things, in a word, our own folk. It is no small thing hat the world has got so far along that a together unarmed, peacefully may dwell their own ways, settling any differences in the courts of law. It means so much that we rejoice in patriotism and look
with just suspicion undervalues it.
But it is well to remember that, as the privilege of the few, patriotism is the many or granted to them it denied to sufferance. Patriotism is to-day a crime punishable by fine, imprisonment o
death in Belgium, in A in Poland, in Bohemia, in Croatian Armenia, in Syria. if patrootism, permitted in the Scandinavian lands, in
Holland, in Switzerland, in the Baltic
proveres, it is because the high command at Berlin is not yet ready to order otherPatriotism is Creat State. The Germans are at the consistent in their theory of government. They do not speak of the nation in the Greater Germanic state include subject nations to whom state many
shall be deniod shall be denied. When they declare that he small state has no right of existence Mey are true to the present world order antee of continued nationalism. We have a situation which makes nationalism imcnough to secure it, and to the weaker nations only pending the time when they may be included in some imperial scheme.
We need a new internationatism in order to save nationalism itself. Fortunately there are already indications of the direc. ion in which that supernational organization will be found. See it in that wide Nations, as the British Empire is more rightly called. Canada is a nation, AustraThey choose to yield their separate nations. of making war and to belong to the great league. The United States and Canada have a leage of peace symbolized in that protected frone thousand miles of unfaith with nation and has kept it for one humdired ears. There is something of hope in the coming league of American ities in the grand alliance of the free democracies now united in the fraternity of war. We may hope forever to be joined The deliberate iudgment susside the Germanic peoples well believe it will be reinforced by mil hons among then, is that war stupid must be a world order which will make var as impossible among the nations as it is now among the states of the America police must be established and the worl It used to be the theologians who
traduced human nature; it is now the traduced human nature; it is now the
editorial writers.
Human nature will not be changed of that we may be very sure. Original human nature probably has not been changet in these last five more civilization than was David, whe massacred his prioners, but at least some Plope do not massacre prisoners to-day. stuations in which human nature operate arned some deriencies and it can learn The new internationalism will not be the millennium. There will be quite enough Wirements satisfy the most exacting reBurements of a sceptic of human nature. reservet and it will have the wistom to secure a certain well defined super nations in, their peateful life and strike would disturb that peong

Flving from the barn of David Hamp-
 $5)^{2}=2$ ジveviver

Government Food Notice
The following order has been issued by 1. No person shail make in Canada for private coneumption, French pastrics
iced cakes, or biscuits or cake icing of cane sugar between the lavers, or added to the exterior; and no person shall use in Canada cane sugar for making. ly pellived candy.
2 Any person violating any of the
provisions of this Order shall be liable to the penalties enacted in the Order in Council, dated the twelfth day of March, 1918, P.C. sobe in which penattics are provided by the following clausess: provisions of these regulations, or the Order made thereunder, or obstructing or impeding any officer or person enforcing or carrying out any Order made thereunder is suifty of an offerce, and
shall be liable on summary fonviction before a Police Magistrate or two Justicces of the Peace to a penalty not exceeding one thousand dollars, and not liss than
one hundred dollars or to impris thant for a period not excedting thries months: or to both fine and imprisonment. (b) Where the proceedings in any cas in which a fine is imposed under the stituted at the instance of any municinal ity, or by any officer of a municipalit! the fine shall be paid to the treasurer surch municipality, to be disposed of at o time. And where such promeeding are instituted at the instance of, or
by any provincial officer, such fine shall by any provincial officer, such fine shal
hee paid to the provincial treasurer, to ine disposed of the provincial treasurer. tow

## Hope's Quiet Hour

The Victory of Faith
 And this is the task leferc In the gav timik and the sorrowfil time
li, must work; and do ... March when the strains are dumb nd smile with orward mar
For whet her life is hard or
The strong man keens the
for the desolate march The strongs soult finds the graces the silemt. There is something fascinating almout
that musterious siege of feric bo ducted by Joshaa under the direction on l.ord. The people of Jericho were liid!
ing behind their sin gates. No one went in or orth, for the
lear of Israel and Israel's Cood made them ers and watch the moverments of doshhaias It is early in the morning and the hest
of Isracl is astir Will the city" |ee at long proxession is streming out of the
camp and marching round the walled city. Not a word is spoken during that
stranker marh. The men of fericho
paze in aitoniturn gaze in astonisthment and farr. IT, this After encircling the cits once the prow
cession quictly returns io (ammp.
 Htark them.


## war contimue their weary sund monotwo

 round They are obering orders.soldiers are lound to dor-theugh it we.tis
 urders of their general.
 rumpers ring out and a great shout of
riumph suddenly rilence Instantly the massive walls:
vhich the long march had failed to shalkic:
 walls of Jericho was "FAI
Many are called to
pray for the soldiers. Let together and couraged beause we have to pray and (oy on praying. without secing the result orryer whenerse can see visible reselts we are not exercising faith at all. Faith not yet swallowed "pin in sight: it mean
trusting (iod in the dark rusting Good in the dark.
$1 t$ is not faith. (Our business is to pray That (iod's Nill may be done: that Righ may triumph over physical force, that
Peace may conquer war, that Love may Peace may conquer war, that Love may
prove mightier than hate. Then, having placed ourselves and our cause in (iod's phands, we can march steadily on-eve though we may seem to be making no cal headway. We can follow the example our soldiers, and
March when the music cheers us,
Narch when the strains March when the strains are dumb),
Plucky and valiant, (orward march And smile whatever may come.
ou mothers, who have prayed for years that your sons may find God, pray
ion unwaveringly. Perhaps the physical danger, which vou dread for the physica miay be the means (cod is using to answer. Wur pravers. One voung soldier said

Nil down like a houss: of carris, and the This misterious march, with its marvel lous result, is one of cod s great ob
Icsoons for His people in all ages. Kesson is one we all need to learn: We, like the Isaralites, are given a daily task to do for cod. We are His soldiers,
and our work is to fight for Him alsainst evil and extend His kingdom; yet the work most of us find to do
suems to have no baring on the extension
of (lhrist's kingetom. Every da) our of Christ's kingdom. Every day our
hands are full of commonplace duties, which have to be done all over again tomorrow. We s.em to make no progreas. shose we are trying to win for (hod are which we cannot break down. We are dumb on the subjects we care for most: Mo in we do speak, the words siem th leaving no impression on the soul wer to influence.
win the world for righteousness through His faith ful soldiers, and He can do it
any way or by any means. Ever day wirk, fait hfully and cheerily. done berause He has commanded it, makes more im. pression on the hearts of men than
preaching from the pulpit. When (ioxd preaching from the pulpit. When (iord
does give the order to s,eak, the words will come with tremendous force from those who have been doing their evern
dav work steadils and uncomplainingly

The Ingle Nook




Clothes Buying-a Fine Art.
A long time ago perple used to bu regard to anything else slightest in the room,-russ in the same way, was
and upholstered furnites the wall-paper swore at the rugs lor carpet, for russ were not fashionable
in those days): uphostery, and the carpet swore at the upholstery, and the upholstery at both
so that dwelling-houscs were yery dis tracting spots for artistic souls.
Now all that is changed. Every article
and item of house-furnishing has berome and item of house-furnishing has become has metter of serious attention, and so it houses and rooms that are to go into harmony and rest fulness realized. the same ery oven with has been just of most of us. Time was when memory bought without ans. thought hat was the rest of the outhit it was to be wour
with. and so on trou fh all the ouber with.-and so on throush all the other
articles of apparel. E.ven yet, it must artices of apparel. Even yet, it must
lre confessed, there are sinners in this Ire comessed, there are sinners in this
respect abroad in the land - But never,
never is one of themt the woman who never is one of themy the woman who
alwars ", "nooks "nice", or "smart," or
"sty lis"
Clothes-Tuying, in short, has became a matter of stud, also-a fine art- and,
really, it is a subject quite worth a litle really. it it a subject quite worth a little
thought and care. It is something for a thouight and care. It is something for a
woman always to look "nice". Besides, the women of best taste are often the mest economical buyers. They never
louy at haphazard. They make every cent count-In another class altogether yant, and the one who thinks so much atbout clothes that there is little else in her head -or reflected in her face eether. Such
an one never looks really "nice". She
in has let herself become a sort of clothes-
horsis. When one sees her one notices the clothes and forgets the womanFur clothes as it should no of the woman, not be an expression if her. After all, it is personality that counts, not clothes. When personality $s$ the thing that impresses, the clothes
weing wholl harmonious with it and with irtistic standards, then is
ruxal dressing accomplished.

There is a woman under the sun
(perhaps you know some like her) in hom this happy blending has been chieved. But it is with her clothes that
ce are to-day concerned, not with her rersonality:
She knows how to dress to look her best-and economically, too. She "make Analyze her and you notice thes things about her: She is always trin and neat-"well put together"-from head to foot. She is always gowner
suitably to the occasion. She wears only those colors that are becoming to her. She has that indescribable quality that is known as good style. shie wo the quiee
brighter ones only for evening wear or for lestive afternoon occasions.
Now analyze her methods and you you-as follows.
"I find it most economical, and most general day wear-or, at most, two wit which the same things can be worn
For instance, at present I have a navy For instance, at present l have and
blue suit, a navy blue long coat, and navy blue silk dress. My one navy hat and a pair of gray silk gloves, also gray
"fibre" stockings, go with all three My hat is of good straw, so next spring 1 shall color it black and it will have everything. If find it pays always, to buy a hat of a shape that will bear re
blocking. Between that and coloring it is good for severeal reincaratitions. My gloves are always gray or cham.
pagne, or white, (sometines black, in pagne, or white, (somet inies everywhere
winter), because they fit in ever

## ok 

THE FARMER'S ADVOCATE

| ever tramed of such a garb. The wo- <br> their share and that usually <br> excentad the amount done by women of <br> and never thought of wearing |
| :---: |
|  |  |
|  |  |
|  |  |

[^0]bungalow apron. Perhaps we have not Potato Doughnut
 that it is has excellent motto would say before you speack" and as an uncle "Think told us as children "Live and lete live."."
L.anark Co. "F.ARMER'S TWINs".

## Hard Soap

Two quarts of soft water. Heat until
blood warm and into it stir one can Giillett's Lyare. Melt four stir one can and stir the Lye and tallow together till it thickens a little, then cover and leave
till next day. Cut four quarts of soft water and into it put all the grease is disolved and put in a tub or box, leave until next day. Cut in pieces set on a board to dry, turn occasionally: Three tablespoons ammonia and one soap.
and like made this soap several times and like it better than some I buy: the soap and it will come out easier (Kindly sent some time ago by.

Potatoes as Wheat-Sparers Potato War Bread.
good patterns and make them at home of wash material; they wear so much better. But the material should be well
shrunken before cutting out. "Jewelr:?-Well I'm rat
that. With fine dresses I like just a touch of it-a chain of fine gold with a pendant, perhaps, and a little gold bracelet if the
sleeves are short Or a string of or amber, or amethyst, or jet, if one ha
any of them. A pretty pin, too, is ofte a necessity: But for ordinary wear I
peref none at all, or, if a touch of bright color is neressary, a string of beads adays, and, being less expensive than
real jewelry, are more in keeping for ordinary home or business wear.
"Yes, I make my things last a lon
time. Sometimes, in fact I am ired of them before the fact, I am quit

## well-dressed woman

The Uniform Question
Dear Junia-Just another letter for
the Niosk, regarding It is, no, doubt, hard for all to question. and have the same opinion, and indeed
we are heartily glad that opinions do
differ. and mayree with "Yours for Aprons" know what we are talking about, being
farmer's daughters and larmer's daughters and doing our share
of the work. We are quite ready to say that bloomers, are, without a doubt,
handier than skirts, but when Rosar handicr than skirts, but when Rosa-
belle says when she read that "Yours for tprons" had forked 7.5 tons of hay asking why she did not fork the hay with a tap tork, we think she is going one
step tor) far. Could any idea be more
ridiculow ment? We have forked hay statedriven the horses, thrown back grain
in the mow, milked cows, etc. many many times and have alvoays worn skirts, well, I venture to say, as Rosabelle does

Now rugrding the "false modesty",
she mentions. Now, I think if she will contess, she must say, I think if she will donned her bloomers, she felt a lietle bit she , tidnace. If she can truthfully say she didn't, we think she is different from sometimes this and perhaps will wear them coming from the fields, along the public feel, towe the least, awkward. In shall

Silk ones look just as well, so I wear them for best-good ones with double tips
and keep a pair of chamoisette ones for knocking about
well-shaped shoes and weakness for finc Being well-shod, well-gloved, and wellhatted means half the battle, 'Always look dressing
styles. They go out so quickly I cmit afford them. likeep rather closely to time, or that are seldom much out of safe. So are long, semi-fitted coats plain skirts and skirts with long tunics When I venture on a fancy gown "Trimmings?- I don't use many of seldom make anything look more beautiful. It's lines that count. I like a
little good lace on fine white waists. The little vests worn this season are "good",
(On dark dresses the merest touch hand embroidery in self-colored silk of braiding and beading, and silk banding and panels and all the rest of it-not Corme! "Collars" Yes, I'm partial to pretts Two-thirds cup sweet milk, 1 cup
potato, 1 cup flour, 1 cup any substitute flour except cornmeal, 1 teaspoon salt, 1 (easpoon sugar, $1 / 2$ yeast cake.
These measurements make Increase ingredients according to number of loaves you wish to make. One yeas

## cinnamon, $1 / 4$ teaspoon nutmeg, 22 teal

 spoons baking-powder. 1 cup riced teaMix sugar, s, ices, salt and shortening. well wald-beaten egg and milk. Beat which have been sifted together. Mold on board and roll to 1, inch thick, cutwith doughnut cutter and fry in deep fat.

## War Johnny Cake

salt 1 teaspoon. (Will make threr calkes salt 1 teaspoon. Will make three cakes No milk, no eggs, no baking powder no soda, no shortening.
Pour the boiling water on the cornmeal, about one cupful at a time, stir
briskly to keep from forming lumps this batter into well-buttered, hot pie tins. Spread evenly over the tins, then take a tablespoon of cream and smooth when baked. which makes a brown crust Bake in a hot oven about 40 minutes.
Ag1. Ext. Dept., International Harvester

## Hominy

In these days of wheat substitution has long been a favorite in the United Canada as it should be, its food value almost equalling that of the whole corn, while its flavor, when properly cooked, Hominy Porridge. - Perhaps when cooked as porridge that hominy
most recemmends itsall


Camouflage on an Italian Roadway
Heat milk to boiling point, then cool to put 1 cup hominy and a teaspoonful of
Bake-warm.
Bake or boil potatoes, then salt in the upper part of the dous luke-warm. Bake or boil potatoes, then salt in the upper part of the double-
mash or put through ricer. Dissolve yeast
boiler. Add
3 mash or put through ricer. Dissolve yeast boiler. Add 3 cups boiling water, set
cake in the milk. Nate a sponge as fol- on the stove and cook rapidly. 8 or 10 lows: mix milk, yeast cake, salt, sugar, minutes, stirring frequently to prevent third of the for riced potatoes and oneover night to risc. In the morning add balance of flour-let rise again until double in bulk, then mold into a loaf; let 40 minutes in a moderate oven. more flour will be required if potatoes are

Rice, oatmeal, rolled oats, barles Graham, buckwheat, milo or kafir Hour, peanut meap, cormeal may be used wit grain, excepteto and one-third white Bread. Bred mate Bread made of one-third potato, one-
third corn meal, and one-hird white
flour, sours lefore it sets lisht flour, sours betorn it gets ligh
One cupp potato. 1 cup substitute 1 cupp
white flour, 3 teaspons baking-prowde, I
scant
scant teaspoon salt, 1 tatbe-qpern butter
or lard, 1 teaspeon sugar.
the stove and cook rapidly 8 or 10
inutes, stirring frequently to prevent lumping Sext place over the hot
and cook about an hour longer.
with cream and sugar As hominy r
it may be prepared at any time when the
fire is on and reheated for using: or r may
fire is on and reheated for using; or it may
be left in the fireless croker be left in the fireless cooker over night.
When done the grains should be thorough. ly cooked, but distimet, not run into at
With the cooked hominy many other
dishes may be preared dishes may be prepared.
Hominy Pudding. iny add raisins, a little syrupered hom beaten egg. Bake in the oven until the raisins are cooked, and serve with cream.
Instead of the raisins chopped instead of the raisins chopped dates or
figs may be used, or a little jam.
Hominy for
hominy add chopped veal, chicken or lean beef also seasonings to taste and
meat stock. Cover with buttered crumbs

When Rhubarb is in

|  |
| :---: |
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the bottom of a cup. Always use pastry flour for such biscuits if it can be got,
and be sure to have the oven quick. Remove the very minute they have inished baking.
To Keep Syrup From Sugaring A teaspoonful of cream of tartar added
to the syrup and brought to a boil will to the syrup and brought to a boil will prevent it from sugaring.

Staking Raspberries
If your raspberries are not already staked do this at once to allow clean
cultivation.

## Strawberries.

When the strawberry blossoms appear When the strawberry cultivation and spread straw appear the plants. This will keep the fruit clean and conserve the moisture. Runners may be taken out carefully, potted, and
transplanted in August to form new transplanted in Au
plants for next year.

## Flowering Shrubs.

Cut the flower clusters off all flower-
ing shrubs when the bloom begins to fade ing shrubs when the bloom begins to fade This will conserve the strength of the shrubs and help to ensure bloom next
year.

## TheBeaverCircle

Our Senior Beavers The Brown Thrasher. (Toxostoma rufum). by alfred kcmmer When Morning break
Throned on the highest tree I listen long to his sweet son
Adream with thapsody ris wis
His dress is brow
His true renown
The mocking-bird
Alone is heard
When twilight gloam
Again he comes
And sings for waning light
And sings for waning light
His songs so rare
The nights prepare
For Heaven's sisions bright.
0 , Thrasher brown
What liquidid tones are thine!
A golden lyre,
With heart of fire.
Thy mission is divine.

## Little Bits of Fun

Jimmy giggled when the teacher read
he story of the Roman whe the Tiber three times before breakfast. swimmer could do dout, that a trained swimmer could do that
the teacher demanded.
"Buit if wandered why he didn Jimmy. it four times and get back to the side
his clothes were on?

## AL.esson in Grammar. (irac's uncle, met her on the street one spring dav and

 met her on the street one spring day andasked her whether she was going out with a pienic party from her school. anort repl
and dein
and

 xive her a little lesson in yr prommarect You
are not going: He is not going. We are not going. You are not going. The are
not going.


## "The Ten Fairies

Eisie; her muthere and litether wirl numeld
 way she had man

Then she got into a house
the could not even sweep the floor awn

Elsie's husband was getting cross be
cause he did not like to have to eat hall cause he did not like to have to eat half upset. He scolded Elsie and she cried bitterly. As she was crying a man in a gray cloak stood before her, Elsie told hin ll her trouble and that she wanted ter
airies. At once he gave her ten fairies airies. At once he gave her ten fairies
and he said, "I will tell you a place where you can hide them; in your fingers." He said, "Let me see your fingers", and Elsie's fingers began to mont away, and felt like working and she went to work. Elsie baked the bread, dusted the room everything went fine.
and good bread so he started telling his friends about the fine wife he had. He used to say, "My grandmother a good housekeeper, but mother was hold a candle to my wife!' FIsie's they don't "Elsie's husband used to
You'd think you had as many maids as you have fingers." But Elsie would or
S. S. No. A, East Gibbons, (Age 14.) I suppose you have summoned all the ten fairies to help you with war-
garden work this summer, Agnes?

-Dick.
-"Dick" was a duck, and was hatched out early in July with some chickens.
A hawk took the chickens, but Dick
escaped The old hen, after the chickens had been taken, took care of Dick. She wouldn't let him go near the water, and when it rained he would stay under the hen's
wing, and she would get soaked he grew up, he would run to shelter every time it rained. He also would stand by the pond, and watch the other ducks
swimming. wimming
and then I would hime he would come, if I would sit down, he would run ind my lap. He also would follow papa around the fields where he was plowing,
and he would get all the worms. But he got too bold with me, and when I would go to feed the chickens, he would knock he dish out of my hand, and eat it all One
and he tried to chase them away. up, When to be boss of everything.
hens, he would would be feeding the hens, he would stand outside bobbing
his head, and seeming to say " till she goes away from there, then I'll go in and get a feed." And, sure enough soon as mother was out of sight, he would trough, and eat it all himself.
I think Dick was a clever duck, don't Ienc: Gilchr Beaver,
Gist, (Age IEA: Gilchrist, (Age 11).
Shanty Bay, Ont.

Letter From Northern Ontario. first letter to your Circle. This is my I would like to be a litele beaver too. Mouth of Cochrane. Our farm, is 17 miles from the T. and $X$ Our farm is 1 mile The Ahitibi River is about three miles from where we live. One sunday in March we all went back to see the river It had frozen several nights before and
there was a good hard crust on the snown which made the walking delight sul. It wate deligheful walking through the bush the odors imme the Sprair, and emjoving

 and paphe got a tuft of hair off a tree
that a monse had leen rulbing om.


## Making an all-year-round Road with Tarvia-

$A^{\text {LL }}$ the year round this Tarvia surface a thin layer of smooth, dustless, mudless, and which the roller will presently ready for business! roll down into the Tarvia As the picture shows, the Thus is builta Tarvia-bonded broken
stone
has been
spread and
spread and now the steam
roller is
 macadam
road that road that
defies even our
Canadian frosts and with-
stands drawing over it a tank-wagon ""T via-X," heated by steam from the roller. A man at the rear directs the spray of the hot Tarvia upon the stone.
The Tarvia flows down among the broken stones, filling up and cementing it toge stone and cementing it together.
Behind the tank-wagon other truck and swift automobiletraffic.
Such is the ideal road for rural thoroughfares because it is economical to maintain and will last three to five times as long as plain macadam, although it is only slightly more expensive to construct We have booklets about Tarvia
which we should be glad to send

## The orepatis Company

MONTREAL TORONTO WINNIPEG VANCOUVER
ST. JOHN, N. B. HALIFAX, N. S. SYDNEY, N. S.

## THINK THIS OVER!

teadily working to promote the interests of farmers. In all that time it ha been owned and edited by practical farmers, and has refused thousands and thousands of dollars, not only in questionable advertising, but from outside

NO POLITICAL RING-NO
ave any say or control over the poNEM INTERESTS
Have any say or control over the policy of The Farmer's Advocate and
Home Magazine, and its independent attitude enables its editors to speak
out rankly and fearlessly in the best interests of its subscribers and Cana-
lian farmers geneally.
WHAT IS THIS WORTH TO YOU
cll yourport it personally by reading it and subscribing to it. But do you AT THE FIRST OPPORTUNITY
end in your neighbor's subscription with $\$ 1.50$, to cover his subscription
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der for $\$ 1.50$, covering same for one year. Please extend my sutiscription ame of sender

## Address

ame of new subscribe
Address
would be nice for you all to wite leteres
to
Oneta, addressing them directs to her at' "Potterssing Northern odirectly,
You see she has
Yos fario." she can answer tou all playmates. Then she can answer you all at once by writing
a letter to you through the Beaver Circle.

Honor Roll.-Bessie Thomson, Kenneth
Rath, Leila Kottmeier Dollie Ard, Rath, Leila Kottmeier, Dollie Ard, Amy
Edwards.

Beaver Circle Notes
In reply to Leila Kottmeier: The
little stories written yy paid storles written by Beavers are not
parcept by prizes in the competiIf "Miss McAuley", Lemieux, Ont."
had finished and the Lion it would have been published. It is better to write original stories, about occurrences near home, than to
re-tell stories alread) re-tell stories already published.
In reply to Dollie Ard: The Beaver Circle is for the children of subscribers to The Farmer's Advecate and Home
Magazine. It costs nothing to join it.

## Our Junior Beavers

The Jumping Mouse.
One fall when my father was digging mice. Father caught them and two little to me. I was afraid because I thought they might bite me, but they did not, snake one of them got away and went
down a stump down a stump, I brought the other up to lid and gave him rolled oats to eat Quite a while after we were asked to
go to a wedding. We thought he might be cold, so we put an old mitt in and quite a bit of rolled oats and went away.
When we came back we found the mitt all chopped up and made into a ball and inside the ball was the mouse. day Muriel, my sister, tried to catch him and he bit her.
He had a grey coat and long black legs and he had a white breast and let him go, so we had no more mouse to look at. Irwin Switzer, (Age 10). Irwin's letter, which w
when the list was published, won-looked

## The Windrow

France have been established by the thes in
Princess Victoria
In the effort to solve the problem of
providing adequate employment providing adequate employment to re-
turned soldiers in England and Scotland, looms are provided for the weaving of what are known as "Blighty Tweeds" Every piece of cloth bears the name of
the man who wove it the man who wove it. French soldiers
who are being cared for in the American hospital at Neuilly, France, are taught
bead-work, and are makiny beantify bead-work, and are making beautiful
necklaces for sale, all returns going directly to them.

Paris designers are planning that the
next fashion for woollen suits next fashion for woollen suits and dresses
shall be made of $21 / 2$ yards of 40 -inch goods-which means the straight silhouette, really more trim and smart than
the full styles which have been in for the past three years. The reall, reason the shortage of the change, however, is be spared for the khaki suits for the
soldiers

A Humane officer with an automobile has been appointed to go through the
State of Massachusetts to look after the work of prevention of cruelty to animals. "A mule", said Uncle Eben, "should
be a warnin" against kickin'. De becter The Hustess. "Are you a musiifint, Mr. Jones""
Jonce (dying to exhibit his powers)
"liell cr yes I think I might claim to The Hostess- -"Delighted. My daugh-
Ter is going to play. It would be st

Serial Story
An Alabaster Box. st mary m. wirins prrmun and morance By arrangement with McClelnand, Goodehild \&

History is said to repeat itself, as if
indeed the world were a vast pendulum, swinging between events now incon-
ceivably remote and near. And if in things great and herroic so also in the less significant aspects of Mrs. Henry Daggett stood, weary but preparations for a teception in the new church parlors, her broad, rosy face
wearing a smile of satisfation "Don't it look nice?" she said, by way of expressing her overflowing contentMrs. Maria Dodge, evergreen wreaths It certainly does look said she. "And I guess nobody but you
would have thought of hon Would have thought of having it."
Mrs. Daggett beamed. "I it the minute I heard about that city church that done it. I call it a real tasty way to treat a minister as nice as ours," air of complacent satisfaction with the minister. since Fanny's marriage to the preciate it."
Mrs. Daggett's face grew serious. Then her sorit bosom heaved with mirth. to have a ministery that's lucky enough said she briskly. "Melbe the family, hear a sermon preached every day in the been comparing this wiouser myself. I've had last summer It with the fair we but it's newer. A fair's like a grand and th Maria; sun and rain and dew mixed with garden them the henyard, al nixbaycs potatoes or moses to retch out the increase.. Mrs. Dodge stared at her friend in "That sounds real beautiful, Abhy" she said. "You must have thought it

Mrs. Dagyett what 1 done,", confrmed meditating about something, whilst I'Pa working 'round th' thouse. Whd it' amazing what thoughts'll come to a body from somewheres. What you "Why, I was thinking of putting', right up here," said. Mrs. Dodge, pointing. "A good place," said Mrs. Doinget. wieaths last summer? Preetty as them see My! My! What lots of that night. place in our midst since thengs, have took Mrs. Dodge, from the lofty elevation ${ }^{\circ}$ a stere . baskets," she sid "' and Me with two Black carrying a big cake, and a whole Glad they ain't enoing to be late like they was last year,", said Mrs. Daggett. about that fair till to-day; the so much the evergreens brings it all back. We was wondering who'd buy the things;
remember, Maria?"' "I should say I did," assented Mrs Dodge, hopping nimbly down from the it did at the fair: tooks even nicer than you think
"Well, here we are lovely, Maria. Mrs. Whittle as she entered. ": "I had to wait till the frosting stiffencel up om my to take the things out of to able and began Mrs. Daggett hurried forward to meet Mrs. Solomon Black, who wasa advancent
with slow majesty, bearing a huve dist Mrs. Black was not the only wornan in
he town of Brovkille who could the town of Brook in e who could now
namst sleeves mate in the latest Parisian style. Hers quicick black eyes had Parisian Mrs. Whitle risp, hlue tafteta, in which
mussin
gowns deck iored and and the fresh

 elaborate embroidery of her dress.
 think your arm would be most broke, "Thank you Abby; but wiot? das' $t$ ' resk changiny: it, Itl set it right
The brisk chatter and laughter, which by now had pervaded the big place, ceased as by a preconcerted signnal, and
a dozen women gathered about the table a dozen women gathered about the table
toward which Mrs. Solomon Black was moving like the central figure in some stately pageant.
"Fer , pity sake!" whispered, Mrs.
Mixter, "what d' you s'pose she's got Mixter, what that tissue paper?
Mrs. Solomon Black set the great cake still veiled, in the middle of the table: then she straightened herself and looked Irom one to the other of the eager, curious
faces gathered around. "There", she said
"There!"' she said. "I feel now 's 'o' I joggled it once, so's's t' hurt, since
started from home."
Then slowly she withdrew the shrouding tissue paper from the creation she ing tissuue paper iroml the creation she place of honor, and stood off, a little to
one side, her face one broad smile of one side, her face on
satisfaction.
"Fer
"Did you ev er!"",
"Ain't that just-"
"You never done that all yourself?" Mrs. Black nodded slowly, almost
solemnly. The huge cake which was buil up in successive steps, like a pyramid,
was crowned on its topmost disk by a bridal scene, a tiny man holding his tiny veiled bride by the hand in the midst of an expanse of pink frosting. About the
side of the great cake, in brightly "mites", was inscribed in "Grightly colored
Pastor and his Bride., Tasto 1 thought 'twould be kind of nice, seeing our minister was just married,
and so, in a way, this is a wedding reof you ladies'll think.
Abby Daggett stood with clasped
hands, her big sort bosom rising and falling

phad been done right up in heaven!"' Slack pund kissed her "Lois Daggett is going to fetch over a chocolate cake she comes." Applause greeted went on Mrs. Black, "and not so long ago, neither, when 1 was
afraid to spend a cent, for fear of a rainy day that's been long coming. 'Tain't got a lesson from her in generosity
don't mean to forget. 'Spend and be spent is my motto from now on; so I didn't grudge the not the sugar, spice nor raisins. There's three cakes in one - in token of the trinity (icked $\mathrm{t}^{\text {t }}$ mention $\mathrm{r}^{\prime}$ ligion in was baked in a milkpan, an' it's a bride's cake, being made with the whites of fourteen pertect ly fresh eegs, whe ner
layer is fruit and spice, as rich as wedding ake ought to blifted right off and given to Rever'nd an' Mrs. Wesley Elliott
I guess they'll like to keep the wedding A vigorous clappiny of hands forth. Mrs. Solomon Black waited modestly till this gratitying demonstration had subsided, then she laties'll $r$ 'member "I guess most of you ladiesi 1 member
how one short year ago, Miss 1 .ydyl (orr Bolton came a-walkin' int' our midst lookin' sweet an motest, and how down-1n-th -lyourth "e was al a-feelin', count
buy the things we'd worked $s$ " hard i make. Some of us hadn't no, more grit
 was changed from that minute
want we sh'd cut up that cake- after everybody's had a chance t' see it good of us have a piece, oout o' compliment eyes on one!"

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the canada starch co., limited, montreal.
when it some didn't gividin' unone, neither, Mrs. Mixter
remindered her
"That's so," assented Mrs. Fulson wake to greet the newly-married pairter's "My! ain't you proud o' her," whispered a perfec' pictur' $o^{\prime \prime}$ joy, if ever I laid my

Fanny stood beside her tall husband,
her pretty face i, her pretty face irradiating happiness. heart for Ellen Dix and Jovice Fulson and the other girls. Compared with her seemed cold and bleak to Fannir who crowiled she was talking to the women "Yes; we are getting nicely settled,
thank you, Mrs. Fulsom-all but the attic Oh, how'd you do, Judge Fulsom?",
The big man wiped the persiation from his babld forectead. the perspiration frezers,", he said, with his booming
chuckle. "I guess lim well , ben chuckle. "I guess I'm s well 's c'n be
expected, under th" circumstances mater litile mater was r minds me, parson, a , me. In fact,
Id thought of it, somed 'd thought of it, some time ago. No
more 'n right, in view o' th' facts.
mon' don't mind, I'Ill outline th' idee $t$ ' yout Fanny, striving to focus attention was making, caught occasional snatches of their conversation. Fanny had never of minister's wife, it was her hor new. role duty to love everyborly and to condole One could easily sympathize with Large Daggett, she was thinking; what would reflection o that mottled to face the that long, pointed nose, with its rasped hairpin crimp, and those small greenish eyes with no perceptible fringe of lashes? height into. Miss Daggett's upturned
face and pitied her from the bootom of "I hear your brother Jim has gone t'
Boston," Miss Dagget a simper.
Fronn
Fen herl From the rear Fanny heard Judge auldremsed to her huskond.
$6910,000,000{ }^{29}$


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live in; but we'll have $t$ ' enter a demurrer
against her staying there f'r good.
''. see-,"
"Yes," said Fanny, smiling at Mi
Daggett. "He went several dis
"H'm-m"", murmured Miss Dagget ou mean Miss Orr?'
Bolton's a good 'nough name for her., Bolton's a good nough name for her."
From the Judge, in a somewhat louder
"'That's th' way, it looks t' me, dominic; an' if all th leadin' citizens of Brookville'll opinion they will, when charge t' th' ju
$y$, as she gazed at her husband ansent-
udge.
Wesley, was speaking so earnestly to the Judge, ,yet in such a provokingly low tone
of voice.
gg of her hastily. name 'at a don't b'lieve in givin' out a sharply. "She'd ought $t$ ' 'a' told right out who she was, an' what she come t
Brookville for , Judge Fulsom
Joved still fom and the minister had some alarm, felt herself alone
"I don't think Miss Orr meant to be
deceitful,", she said nervously.
"Well", th',"family, 'it's natural you sh'd think so," said Lois Daggett, sniffing loudly. Fanny did not answer.
proclaimed Miss Daggett. "If they ain', they'd ought t' b
"Why should you say that, Miss Lois?"
asked Fanny hurriedly. "They are very good friends."
Miss Daggett bent forward, lowering her voice.
"The's, one thing I'd like t' know f'r
certain," she said: "Did Jim Dodge certain, she said: "Did Jim Dodge
find that body?"
Fanny stared at her inquisitor resent. fully.
"There, were a good many persons
searching, she said coldly,
Miss Dagrett Miss Daagett wagged her head in an
irritated fashion. "Wh course I know that", she snapped. What I "want $t$ know is whether Jim
Dodge-",
"I never asked my brother," interrupted Fanny. "It all happened" so long ago Why not-". "It was th' first o' Novem
ber. "X' I've got a mighty good reason
reason 'r askin'.' "You have?" murmured Fanny, flash
ing a glance of entreaty at her husband. "Some of us ladies was talkin' it over, pursued the spinster relentessly, 'Wh
I says ${ }^{\text {t Mis' D Mac?n Whittle: }}$ Mo
counted th' money at was found on counted th' money 'at was found on
Andrew Bolton's body?' I says. 'W'y, 's'
she, 'th' ones 'at found him out in th' woods where he got lost I s'pese'. But come ,' sift it right down , ' facts, not one o' them ladies c'd tell f'r certain' who
't was 'at found that bod 'The' was such an' excitement ' 'n' hullabatloo, no-
body 'd thought $t$ ' ask. It wa'n't Deacon Whittle, n'r it wa'n't th' party from th
Brookville House: ner Hank Simonson Brookville House; ner Hank Simonson,
ner any o' the bors. It was Jim Dodge, an' she was with him!'

She looked up to meet the minister' eyes, with a sense of strong relief. Wesley
would know just what to say to this prying woman "What are you and Miss Daggett
talking about so earnestl?", asked the taking about so earnestly?" asked the
minister
When informed of the question under discussion, he frowned thought fully. "if you will fetch me the dinner bell from Mrs. Whittle's kitchen, I shall be happy to answer your question and others like it which have reached me from time
to time concerning this unhappy affair," to time concerning this unhappy affair."',
"Mis' Deacon Whittle's dinner bell?" gasped Lois, Daggett. "What's that got'
 Smile What are you going to do, Wesley whispered Fanny,
He gazed gravely down into her lovely "Dearest," he whispered bark, "trust
me! It is time we laid this uneasy ghost: don't you think so?"'
By now the large room was well filled
cream was weing passed around when bell, vigorously operated by of a dinne arrestedattention.
The minister's got something to say shouted the boy. Wesley Elliot, standing apart, lifted
his hand in token of silence, then he "I have taken this somewhat unusur method of asking your attention to matter which has for many years past "I refer to the Bolton affair." he began
The sound of breath sharply indrawn and the stir of many feet died into proslowly and with frequent pauses: "Most of you are already familia sary for me to go back to the day, now now nearly nineteen years ago, when many
of you found yourselves unexpectedly impoverished because the man you rusted had defaulted. There wa and sincering in Brookville that winter parish I found it-sick Bece to this rime of Andrew Bolton. No. I repeat ville was with emphasis: Nol Brookloomy and sick, despondent, dull of Andrew Bolton's crimes- not because Brookville had never forgiven Andrew element - hate is the one destructive that, friends? It is impossible for a man And I'Il who hates another to prosper. be true tell you why this is-why it must of hate. Hence All Power is enlisposite the side of love Think this over and you'll know it is true. Now the
Bolton mystery: holding a fair in this year ago we were sick and impoverished because it was never forgiven the man who stole its
money. monion. You all remember that ocnobody had money things to sell; but wasn't a pleasant occasion. Noborly was enjoying it, least of all your minister.
But a miracles in the world place-There are came into Brookvill thank God! There who was moved by love. of her heart: everything she she didpulse inspired by that mightiest force of the She had been called I.ydia Orr, as back as she could remember; so she did
no wrong to anyone by retaining that name. But she had another name, which hissing in Brookville. Was it strange that she shrank from telling it? She believed in the foregiveness of sins; and she had did what she could, as it is written of another woman, who poured out a fragrant off ering of love unappreciated
save by One. There quickly followed the last chapter in the tragedy-for it Was all a tragedy, friends, as I look at it: he theft; the pittul attempt to restor return of that ruined man, Andrew Bolton, after his heavy punishment; and hi tragic death. Some of you may not
know all that happened that night know all that happened that night. You
do know of the cowardly attack made upon the helpless girl. You know of the flight of the terrified man, of how he was found dead two days later three miles from the perished from hunger and exposure The borly was discovered by James bodge, with the aid of his dog. With Boston, employed by Miss Bolton, and myself. There was a sum of money hound on the body amounting to some thing over five thousand dollars. It had
been secreted loneath the fllors of Androw Benton's chamber, before his arrest and imprisonment. It is probable that but failed, owing to the illness of his nife. This is terrible story, friends and it has a sad ending. Brookville ago formed the terrible habits of hate suspicion, enve, sharp-tongued of hate
and the resture remain herr. Lydia Bolton could not place and her hough it was her birthplace and her home. wher birthu gave her-a stone!" The for bread and
listeners
of relief "Fer pity sake!" faltered Abby Daggett, her beautiful, rosy face all quivering
with grief. "Can't nobody do nothing?" of Judge Fulsom"' ""We shouted the big voice thing. I ain't going to sum up the case against Brookville; the parson's done it already; if there's any rebuttal
coming from the der ciming to bring it before the, now's the Nothing to say-ch? Well, I thought so!. We' re guilty of the charges preferred, and rm going to pass sentence. the parson didn't mention, that in my Lydia Bolton's money-all to wit: Miss came to her from her uncle, an honest hardworkin' citizen of Boston. He made see 'twas clean money; and he left it to his niece, Lydia Bolton. What did to do with it? You know! She poured it out right here in Brookville-pretty nigh here; but mighty little bot her place her trustee, and I knowe The fes. T'm and dollars found on the dead body Andrew Bolton, has been made a trust fund for the poor and discouraged of this community, under conditions anybody office can find out. "step in to my The Judge paused to clear his throat while he produced from his pocket, with document dangling leny, a legal looking and sealing wax "This Bond of
going to ask every man, woman I'm hillage of Broolveill an up'ards, of the of the First Part, to sign, reads ter known Know all men by these presents thlows citizens of the village of Brookville First Part, are held the Party of the irst Part, are held and firmly bound known as the Party of the Second Part of the Second Part (don't firget Party means Miss Lydia Bolton) did in behalf ceased-pay, compensate, Bolton, dequore, remunerate, recompense and re-
quite all legal indebtedness incurred by
said of the afuressid Part of the , and in behalf to "You offit me? If you don't, just come of the legal terms not understood, compreof Brookville. Form the feeble-minded "We, First come, first served: ourselves, and each of our heirs, execeutors,
administrators and assigns, jeintly
seat severally, firmly by these presents, and at
all times heraifter to sule den harmless and indemmirl, the end, keep
Party of the Serond Paitt (Vifs
Paid costs, damages, expense, distarayenenents
(that means spitecul gissip, ladies!)
molet (I could sar, more, but weverations, etc.
thing to so sone whereas, the said Party of of the Second
Part has been actually dronce to Bostum ations isplersions and sand lithelecer, calumni-
the suidh we, and dogrone mean, as ! look at it (w, mind ourselves, our heirs, exeruturs, ad mimistrators an assigns to quit all' such
illegalities , rom this day forth, and for-
'"w "You want to get out of the hathit of one thing. It's been as atching as
measles in this town since Ian annem ber. Andrew Boltur's dead and buried
in our cemetery; beside his wife. Wiell oe there oursclves, some day: in the "And whereas, we the. Pum. of First Part, otherwise known is thic village plicate and plead the frkiveness of the
Part: of the Second Part known as Miss Lydia Orr Bolton: Aud we alss hereby request, petition, implory
$a n$ ' importune Miss I,ydia ()rr Bultor otherwise known as the Party of the
Seerond Part, to return to Brookville aud make it her permanent place of residence ifter, tos save, defend, keep harruless ane
itemify her against all unfriendliness, of

THE FARMER'S ADVOCATE.
Whatever sort: and pledging ourselves to
be good neighbors and loving friends from the date of this document, which, When signed by th' Party' of the First
Part, shall be of full force and Sealed with our seals. Dated this servent day of June, in the year of our Lord nineteen hundred-'
in the pause that applause broke loose in the pause that followed; then the
minister's clear voice callect for sit ""Thore. filled to its capacity," he said. "Come forward and sign this-the most remark-
able document on record, I am not afraid to say. Its signing will mean the wiping out of an old bitterness and the dawning of a new and better day for Brookville!" The Reverend Wesley Elliot had mixed his metaphors sadly; but no one self, as he signed his name in bold blackcharacters to the wondrous screed, over which Judge Fulsom had literally as well as metaphorically burned the midnight Postmaster and Mrs. Dagrett signed the latter with copious tears flowing over her smooth, rosy cheeks. Miss Lois Daggett "I guess I ought to be written down
near the front", said she "ssening I' as much to blame, and like that I'm ful anybody." "Come you, Lute Parsons!" moared the Judge, while a group of matrons meekt some live men-foll-s on this. "W ment. Aw, never mind, if you did We all know you wa'n't yourself that night, Lucius. . That's right come right forward! We want the
signature of every man that went out there that night, full of cussedness and
bad whiskey: Come on, ever body! Get busy!! " Nobody had attended the door for the witness of the proceeding a spellbound chanced that nobody saw two persons, man and a woman who entered quietly if doubtful of almost have said timidly; as if doubtful of a welcome in the crowded sight of the girl's face shining caught the soft dark of the summer night like a pale star. "IIhy, my sakes alive!" she cried, "i there ain't Lyddy. Bolton and Jim Dodge As she folded the girl's slight figure her capacious breast, Mrs. Daggett sum med up in a single pith. med up in a single pithy sentence all the legal phraseology of the Document,
which by now had been bods old enough to write their by evers come home, Lyddy; an' we hope yourt youll

Current Events requirel to register by June lst will not Mecrill Iniversity, Montreal, has de
cided to admit women students to de faculties of medlicine and dentistry to the by a Cerman submarime has in Ireland and is now in the Tower of $L$ ondon await
ing trial hy Conrt-martial It has been officially ammounced that
over $500,(0) 0(0)$ I nited States seltiers the Italian front. The administration intends men, and will send them ower at the rate

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they stopped for a moment to look at the new pictures.
a lion. Mut mo," replied her hostess: "it's it home that it looked a when he brought like one of them things you mention."
Chicago Record-I Ierald.

THE FARMER'S ADVOCATE.
Founded 1866

## The Dollar Chain

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least of the covering of every bed. They are not expensive, if you consider their durability, and if washed properly do
not fill up, but retain their soft, fluffy look Be last.
Before beginning to wash blankets,
it is advisable to have in readiness it is advisable to have in readiness
plenty of hot water, melted soap and
ammonia, so that no time will be in waiting after the work of washing is commenced. The blankets may then be gotten out-and dried in the early part
of the day. The Te
The temperature of the Water. should be from 35 degrees Centigrade
to 45 degrees Centigrade, or lukewarm. to 45 degrees Centigrade, or lukewarm;
hot water would act injuriously on the fibres. Prepare in two large tubs a rather
strong solution of soap lather to is added a small quantity of ammonia,
in the proportion of about two table, in the proportion of about two table-
spoonfuls to every gallon of water. and press and knead against a time and sides of the tub. Then wring tightly and repeat the washing in a
second soap lather, when they will be ready for rinsing. The washing should
be done as far as possible by or kneading, as rubsing helps to en-
tangle the surface fibres and is one of the causes of shrinking. Even more
detrimental, however, is too strong an
alkaline solution. Blankets must be rinsed in plenty
of clean water. To insure all the soap being removed, the first water ought
to be warm, as cold water tends to solidify soap and part of it minht re-
main in the blanket to the detriment of the fabric. To the last water a little
bluing might be added, to improve the Blankets must be wrung tightly:
Before hanging them out to ought to be thoroughly shaken; generalpeople, as blankets are large and difficult
to manage. This treatment helps to
preserve the preserve their softness and elasticity:
Each blanket should then be hung over a mee keping it as nearly single as
possible to cnable it to dry quickle, and
pegging it closely to proent its falling and getting soiled.-Sel.
Another Method.

[^1]Questions and Answers.
 2ard-Questions should be clearly stated and
plainly writen, on one side of the paper only,
and must be and must be accompanied by the full name and
address of the writer. 3rd-In veterinary questions, the symptoms
especially must fuyly and cuearly stated, other-
wise satisfactory repies canot be given. 4th-When a reppy by mail is required. to urgent
eetrinary or lega! enquires, $\$ 1.00$ must be veterinary
enclosed.

## Miscellaneous.

Binding a Bargain
I sold a cow to a dealer who paid one dollar down. He did not take her away mouth agreement binding? How much money does it take to bind a bargain, when there is no written agreement?
Ans.-In order to make an agreement Any sum of money will bind a bargain if real estate is not involved.

Raising Lambs.

1. Can lambs be raised on cow's
milk? Do you add water or sugar? If so

## Ans.-1.

Ans.-1. Very good lambs have been
raised on cow's raised on cow's milk. While some advocate diluting it with water and adding
a little sugar, it is not entirely necessary unless the milk is very high in fat. Fresh milk is the best up to the time the lambs are about six weeks old; after that some
feed separated mill with feed separated milk with a little oil meal
added. Pseudo-Scorpion.

1. What kind of bug is the enclosed?

Ans.-1. The so-called "bug" is what
we know as a Pseudo-Scorpion. These
creatures are to true score cosens but allied in structure
they are harmless and not abundant. I have only seen a attached to flies but it is not definitely known whether they feed upon the flies or not, or whether they are merely being transported by means of the fly from it is believed, upon do teed, however I have occasionally found them insects and once found one attached to a fly,

Kill the Fly Before He's

## Born.

## Wherever it mav be, to-sere is the place

fo the most effective work. kill him beof the danger of the houss fould know comes direatly from the sick room, the millions of tiny particles of filt depositing them on food which is later Why not start a campaign for up" day, for a garbage can back of every residence, for keeping all fruit off and
sidewalks, for screens on the counters, for wrapping of every loaf milk and meat supply: protection for the The one most essential thing in fighting horse barn and cow stable, not forgetting
the corrals, where conditions are ideal for flics to hreed. Aiter all, it would require
very little work, if all would co-operate to make your town almoust flyless nexte,
summer. It would save several accidents from runaways, much profanity, human lives. And last but not least, ryy
to estimate, if you can, the mental anguish to estimate if you can, the mental anguish
it will save hovsewives, dumb animals and
pald headel men

## Barron's English Leghorns



AYLMER, ONTARIO
GILLETT FARM
VANTED FEATHERS OF ALL KINDS
 Choice Egg for hatching thim fre moned

 Rose-Comb Rhode Island Reds





 FOR SALE Importos and Requad


## CREAM









 The Toronto Creamery Company Hondio:

Resorts in the Canadian Pacific
Banff, Lake Rockies
Banff, Lake Louise, Field and Glacie Rockies, and on the main line of the Canadian Pacific Railway.-
Very Slow. For two years the most decorous courtship of Sandy and 'Lisbeth had after a silence of an hour, 'Lisbeth mur-
"A penny for your thochts, Sandy. "Weel," replied Sandy, with boldness, ye, were tae gie me a wee bit kissie."
"An' what are ye thinkin' aboot the noo, Sandy-anither?"
"İs it, laddie?" asked 'Lisbeth, softly, her heart going pit-a-pat. "An" what "I was jist thinkin'," answered Sandy, "he that penny for my thochts." paying Didn't Know Him.
The day after the draft quota had ached Exhibition camp a rookie strolled ast a sentry he was challenged.
"Machine Gun 301," answered the
"Advance to be recognized." I've only
"Aw, you don't know me.


BARRED ROCKS EGGS
from FOR HADCerful producers
(trapnested)
per
CANADIAN RINGLET BAR Betting ROCKS
 EXTRA SPECIAL HATCHING EGGS, BAL ANCE of season, fromr our trapnested, Barred
and Buff Plymouth Rocks, 1.75 per $15, \$ 300$ per
30. W. J. Johnston, Drawer 246 . EGGS FOR HATCHING-FROM WORLD'
best S.... Black Minoncas, balance of the sea-
son 82.50 per 15 , nearly every egg hatches alaso
Wh.is.

EGGS AND CHICKS FROM THE BEST
Claying strains of white and brow Chicks, twelve dollars . per hundred; eggs, five
dollars per hundred. M. Shantz, Ayr. Ont. S.-C. Ancona, Mammoth Dark Cornish. Hugh
McKay, 33 Curry Ave., Windsor P. O., Ontario
great layers, 10c. each. Hastings Bros., Guelph
FOR SALE-MUSCOVY DUCKS, 8 , A PAIR
Egg for hatching $\$ 8$ a setting. J. A. Tancock "FAIRVIEW"
HATCHING EGGS-BABY, DHICKS - UTIL ITV laying strains. Eggs, $\$ 1.50$ per seting.
Barred Rocks, Rhode Island Reds, White Ieg. horns, White Wyandottes, Golden Wyandotes, Tor price list.
Poultry Farm, Perthosfaction guaranteed. Tay
INDIAN RUNNER AND MUSCOVY DUCKS,
Barred Rocks, Rhode Island Reds, Black Span isharred Rocks, Rhode Island Reds, Black Span-
John Aneas, Campines, Hamburgs. Eggs only.
John Anesser, Tilbury, Ont. PLYMOUTH ROCK EGGS-O. A. C. LAYING
strain, 81.50 per setting. Mrs. Berry, 52
Uueen's. Queen's St., Guelph, Ont. one-fifty a setting. ORKEY EGGS-WE HAVE 50 HEALTHY
Bronze Turkey Hens med young and oldd toms, eggs madted to to strong, husky,
per 10 eggs; few toms left. Send in yoason at 4.50 Mave the eggs ready for you. Every your order, we
bred poultry-write us first. We want puresurplus of eggs and baby chicks. $\begin{aligned} & \text { Ste want your hight } \\ & \text { appreciated. Yamaska Poultry } \\ & \text { cinthe, Quebec. }\end{aligned}$ Farms, St. Hya

TWENTY - FIVE YEARS A BREEDER OF
Barred Rocks that are barred and bred righ
 from this advt. Satisfaction guaranteed. Walter diret
Bennett, R. R. 1 , Cottam, Ont.
TILT STRAIN PURE BRED ROUEN DUCK
egs. 1.50 per eleven. A. F . Thornton, Thames WHITE WYANDOTTES; IMPORTED
bred-to-lay. Cocks dams



## A silo that lives up to its name 

 YOU should exercise just as great care in choosing a silo as a cream separator.You can afford to have none but the best.
You want a silo that gives you the best silage.
You want a silo that's durable-one that will last the longest; one that is the most economical in the long run.

## You'll never regret buying an IDEAL GREEN FEED SILO

When you consider that the average life of an IDEAL is from 15 to 20 years; that it pays for itself the first year and that each year thereafter it earns for its owner a profit equal to its first cost, you will appreciate why the IDEAL is the best-paying silo you can buy.



The Waltham Watch

ALADY'S watch, while necessarily very small and dainty, should also possess the quality of unfailing accuracy The Waltham Ladies' Convertible Bracelet Watch answers these requirements. An exclusive feature of its construction is the disappearing eye" which enables the watch to be worn in several different ways, as the caprices of Dame Fashion may dictate. Waltham quality in every detail assures enduring satisfaction.
'Your jeweler will show you'
Your jeweler will show you the Waltham range of high grade watches including many exclusive models for both ladies and gentlemen.

Waltham watch company, limited
MONTREAL

Points on the Cultivation of Some Vegetables Most Difficult to Grow.
Cauliflower, although one of the most delicious vegetables, is one of the hardest to grow in many parts of Canada. lamps off easily in the hot-bed, is ofter requently does not head well. In raising plants, transplant them from the see row, pot or flat to a distance of about two
inches apart each way as soon as possible aches apart each way as soon as possible a freer circulation of air between the
plants and makes the danger of damping off much less. Root maggots are bad nearly every year in many places in all the plants from heading. Figgs are soon hatch into maggots which eat int sap. To prevent injury from these, a plant close to the ground at the time ef planting. It will be tow late otherwise.
Full particulars in regard to the use of the dise can be oltained from the Department ing of cauliflower is a failure, a second planting should be made, as cauliflowers are much easier to mow in late than in
earlier summer, as the maggots are not so troublesome at that time and there is
usually an ahmont supp of moisture
If the suil in when

## NORTHERN ONTARIO <br> are calling for cultivation

Thousands of tarmers have responded to the call of this fertile country, and are being
made comtortable and rith Here. right at the door of Old Ontario, a home awaits you.
For full particulars as to terms, resulation
H. A. Macdonell. Director of

Colonions and settlers' rates, write
H. FERGUSON, Minister of Lands, Forests Buildings,

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For good service and better prices, ship your cream to us.
We guarantee the test, and pay 50 cents a pound buttertat. We remit daily and pay

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743-745 King St. W. TORONTO
Clydesdales and Holsteins

## HIDES-WOOL

our best attention. Highest prices always paid Trompt returns made.
sk for tags and list
William Stone Sons WOODSTOCK, ONT.

## Summer Resorts in Ontario.

 and Cieorgian Bay Resorts; French and Pickerel Rivers; Rideau Lakes; Severn Kuartha Lake, Mazinaw District and ticulars from Canadian Railway, ParGreat Lakes Steard.Advt. Canalian Pacific Steamship Service. an how leaves Owen Sound 10.30 panithur and Fort Williamte. Marie, Port
possible in the spring so that the onions
will mature while the warm weather continues, thus ensuring a thorough ripening and curing of the bulbs. To ly in places where the season is short, ly in places where the season is short,
young plants are set out instead of the seed being planted. Onion sets will ensure good bulbs also where the warm season is short. Root maggots often
do much harm in the onion plantation. do much harm in the onion plantation.
Watering the row every four or five days with hellebore and water in the proportion of two ounces of hellebore
to one gallon of water while the insects are most troublesome will control them to a considerable extent. Except in the warmest parts of Canada the ripening of many of them. The warm season is too short. To overcome this, melons should be started in hot-beds nights in June or even July. Malons require heat below and heat above, hence the necessity of keeping the soil warm by having a good bed of manure. They
will not succeed in cold soil even if the air above ground is warm. Melons require a plentiful supply of moisture in the soil however, should be delayed until the ground is sufficiently warmed up so that
heavy watering will not cool it too much heavy watering will not cool it too much. in hot, dry weather and unless the autumn is a long one without severe frost, they are not satisfa tory. It is important, therelikely to develop where the season is short and the dwarf ones have been found the
most satislactory -Experimental Farms

Just Ahead
The road to yesterday-why travel it? A tangled skein-so why unravel it? The future calls you on, the past is dea
All, all you hope to do lies just ahead.

## As Easy as Rocking a Cradle

There is as much difference between the old-fashioned, back-breaking washboard and the modern Patriot washing machine as there is between carrying a heavy baby and rocking a cradle.
The rural housewife has enough hard work to do, without doing any that isn't necessary

## The

Patriot
Spiral Cut
Gear
Hand Washing Machine
has made life easier and more
cheerful for thousands cheerful for thou sands of
women. Will you let it do the women. Will you let it do the
same for you?
Ask your dealer to show you a Patriot or write to us for
descriptive pamphlet.

Dowswell, Lees \& Co., Limited Hamilton, Canada

The Improved McGill Autopower Attachment


With an AUTOPOWER AT-
TACHMENT on your FORD CAR, you have the best 14 h..p.
Portable Gasoline Engine in the
world atasolutely world; absolutely no injury to ment makes it possible to to convert your Ford into a power plant in two minutes, or back to a pleasure
car in two minutes. In this new car in two minutes. In this new
attachment, the casting, which stays on the car, makes an excellent
holder for your licen atthe same time nearly hides from view the casting on the car, as shown in any way. IT HAS THE POWER
You know the power of the Ford. It is brought home to you every time
you climb a hill, or you see the heavy loads the Ford truck you ask why cannot 1 use this power on my farm? Autopower makes this possible. The gasoline consumption alone over the ordinary stationary
engine will pay for the attachment in the engine will pay for the attachment in a short time. Just think of having
a portable power plant at your control, that you can take the a pertable power plant at your control, that you can take to any job with
the Attachment on you wish, and furnish heaps of power to grind as high as 60 bushels of oats per hour; run your Ensilage Cutter to its fullest capacity run a wood saw with two notches of gas; runs hay presses, pumps, and, in our
Canadian West, farmers are running 28-in. Separators with anadian West, farmers are running 28 -in. Separators with bower attached,
threshing as high as 700 bushels of wheat in 10 hours, or 1 , oop 10 hours, or 1,000 bushels of oats The Attachment has an auxiliary fan which keeps the engine cool under and then pull in the load. The attechment is fully guaranteed, over 1,000 in diameter by 4 而 the road at 20 miles per hour, which is about 1,000 R. P. M.; 40 feet of belt should be used.
Price, $\$ 60.00$, F. O. B., Toronto.

Order now and get some use out of your car this andurn summer. We will ship C.O. D. $\$ 60.00$, and after this
days trial, if not absolutely satisfoel
it may be shipped back and money refunded.
A. M. McGILL

203 Lee Avenue Toronto, Ont.


Gossip.
The Watt and Gardhouse Offering. Readers of these columns will note that
the annual sale of Shorthorns offered from the herrs of J. A. Watt, Elora, and this year in the Winter Fair Buildings Guelph Ont., on May 21, instead of at
Mr. Watt's Mr. Watn's Salem Farm as formerly. The change has been made with a view
of furnishing this year ande of urnishing this year ample accommoda-
tion in the sales ring for each and every visitor, and and also offering better train ac-
commoder each and commodation to of hose from a distance-
As stated in the As stated in the advertisement elsewhere
in this issue, there are in this issue, there are sisty lots catalogued
for this year's sale. Twenty of the breed ing cows, however, will have calves their sides, and both as breeding and show propositions the entire offering far sur-
passes that passes that of any former selection ever
offered by these offered by these two well-known breed-
ers. The families represented could not be more attractive. Thepresented could not Missies, Nonpareils, Rosemarys, Broadhooks, Crimson Flowers, Butterflys, Mayflowers and others-a most desirable lot par with its breeding. Of the is on a breeding cows, five are imported and all big roan, calves at foot, Among these is a
breeding fiver-old cow by the goor breeding bull Prince Victor. She has an
inported-in-dam bull calf at foot Moni
keld year Bellona, another roan and only a cow which also has a bshank-Duthie-bred nice roan got by Archer's Hope. In addi-
tion to the other tion to the other imported cows, and be
fore getting down to the home-r there are also several choice American
bred cows that of interest for the reader add a great deal high-class for the reader who appreciates
lies, perhanial. The choice lies, perhaiss, in the big, red show cow
Lad's Missie and the Orange Blossom cow, Glean five-vear-old got by Silver Dale, one of the best son, straight bred "Missie" The former is a daughter of the noted Choice Goods. She bull, a solid a strong, seven-months-old gouble Dale. Lady Castremont, a thick,
good type of show cow, has a pedigree of

## Heney 電 Hamess



Examine a set of Heney Har ness. Look at every detail, every inch of stitching, every treme precision and carefulness of detail with which every bit of workmanship is finished. Such an examination will be your own eye-proof of the
superiority of the Heney Harness and will explain why experienced harness buyers for the las half century have preferred Heney Crown Brand Harness. Insist that your dealer show you the Heney Brand-the
brand that guarantees a perfect set of harn Sold by dealers all over the Dominion for fifty years. heney carriage and harness co., ltd.
Under Management of

Under Management of
 Western Branch, 150 Princess St., Winnipeg

$\left\lvert\, \begin{aligned} & \text { rich Waterloo breeding and will also have } \\ & \text { a calf at for }\end{aligned}\right.$ a calr at foot by sale time. Still a few
other mature cows that can scarcely be passed by without notice, are cows like Orange Princess 2nd, an attractive Orange Blossom cow got by the Gordon-bred bull, Village Duke, and selling with one of the
best roan Right Sort heifers at foot have seen for some time. This calf is a full sister to the $\$ 4,000$ calf sold at the Harding sale in December, and also the February. Nonpareil of Hillside 2nd, by the great bull Republican, carrying a straight Nonpareil pedigree and catalogued along with a bull calf, Nonparecil
Choice, is a five-year-old with Cruick shank-Broadhook breeding throughout; while Lady Madge, a thick, well-proporford Marquis calf by hing with a Gaincompletes a line-up of hifteen side, partly of the strongest breeding cows this sixten Ce representative has ever seen in one Canadian sale-ring, and to make them all the more noteworthy many are saefly
bred to that great sire and champion bull Gainford Marquis (imp.). Others are bred which promising son Gainford Sultan of threerries the blood of the champions gree, and the worth of top of his pedisafely bred to either of these females, will be hard to sum up. Then, again
among the heifers ane younger things listed are ten "Gainford." three butls that are all got by bulls, it is enough to say that all three
are of the sort usually seen and the calf, Gainford Conqueror which will show in the senior-yearling class at ing younssters, is one of the most promising youngsters Gainford Marquis has ever
sired. Several of his heifers which already been referred to are also of the strongest of show calibre. Gainford Belle, circuit last year and on the Canadian (iainford Conqueror, mentionell above shows this year as a senior yearling and
undoubtedly will be one or things out. Lady Secret, first as a junio yearling at Toronto last year, wivl sell
with a heifer calf at foot which is got by her own sire, and Gainford Silver is an
especially good junior, that will also be
around the top at any


## NO CAITOUFLACE III THIS STORY

Apply a few drops, then lift touchy corns off with fingers.
Doesn't hurt a bit ! Drop a little
Freezone on an aching corn, instantly that corn stops hurting, then you lift it right out. Yes, magic!


Rapla Stock Farm Shorthorns and Cotswolds Five choice 13-month old bulls, straight Fifteen yearling rams, good flock CHAS.J. SHORE, Glanworth, Ontario

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The success of our customers means success to ourselves. We are with you all the way.


Sandusky 10-20


Separator


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Mr. Purchaser:
You require full information on these three.

The Geo. White \& Sons Co., Limited

ГHE FARMER'S ADVOCATE.

 of one pound of water through 1 dearree
Fahrenheit. is a correspyonding "Heat of costance there which is inomariag "Heat of Combustion"
is exprescoal is expressed as as the number of heat units
or B. T. J 's. given off hy the and of 1 pound. The This off by the combustion
of matter how slowly or hove the same no combustion takes place, and it hav the fire. If connce to the temperature of the ber of heat units are is producid a large numtime and conseque:tly the ted in a short of heat units per second slow the number heat gets a chance second is small and the
consequentl. Consequently the temperature is $1 \cdots$.

When Wood is Wet,
evaporated is wet the water must all be fuel, and this takes the burrning of some of the
heat. To heat una the ordinary temperature to water frion point, evaporate it and heat the steam to
the temperature quires about 1,220 B. T. quires about 1,220 B. T. U. Conse
quently for very pound of water in the fuel, this amory pound of water in the
chimney. This of heat goes up the chimney. This loss is peatent to a ap theater
or lesser extent with all fuel or lesser extent with all fuels but is par-
ticularly important with may contain 2 or 3 per cent. water or 40
to 60 pounds per ton. Green contain 1,500 to ton. 2,00 green wood may per cord. Air-dried hardwood holds atout
720 pounds per cord. The reason for de 720 pound per cord. The reason for de-
manding well-dried wood is, therefore,
quite obluious Why Woods Differ. The next statements may not seem
quite so evident but they are equally true. The "Heat of Combustion" or
"Calorific value" is, within nars
. "Calorific value" is, within narrow limits,
the same for all woods. That is, a pound of one wood will give off almost exactly the same amount of heat as a pound of a
different wood different wood. This does not mean that
a cord of one wood will give the same heat as a cord of any other wood, because one cord may be mucre highly resine ther
Some woods are pine, for instance-and these have ${ }^{a}$
slightly higher heating value on this slightly higher heating value on this ac
count but the difference is not great count but the difference is not great
The reason for all woods having equal
Calorific Values is not far to seel. Caloritic alues is not arartast of the same
mentally, all woods consist
substance and one species differs from other chiefly by the way this is arringet
in the wood structure. Since all do consist chichly of the one sulstance,
the Calorific Values of all of them must be the same. Measurements of the
Calorific Value show that 1 pound of Calorific Value show that 1 pound of per-
fectly dry word yields $x, 220$
F. T. 1 . For comparison of good hard coal sields atout
poudt
12,000 to $1,3,000$ B. T. U. and poor coals go very much lower. Perhaps it would
be better to compare these in terms of cords and tons. One cord of air-dried lbs.of dry wood and alount $\overline{z 20} 1 \mathrm{ll}$. of of






## Kodak

## on the Farm

Photography serves a double purpose on the farm. In the taking of home pictures, in the keeping of a happy Kodak record of every outing, in the making of pictures of one's friends and the interesting places that are visited, it appeals to country people and to city people alike.

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And you can make such pictures the simple Kodak way You can finish the pictures yourself-or can have this work done for you. And it is all less expensive than you think.

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Collingwood, Ont.

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 mik and rither mimik. Wruletot price.
The Cansea stareh Co I tid
 $23^{\circ}$ PROTEIN


THE successful farmer of to-day is the one who builds permanent recognizes that he is under a great handicap in his efforts to make recognizes that he is under a great handicap in his efforts to
money, if he has continually to sink profits in temporary repairs.

## "What the Farmer Can Do with Concrete"

is an aid to successful farming. Over 100,000 farmers have realized this. Many thousands of these have completely made over their farms, while others have acted on some of its valuable suggestions. Only with concrete for his building vermin-proof, permanent and sanitary.

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HEREFORDS
Nawarme aiduank
 Alloway Loige Stock Farm Angus - Southdowns - Collies Sums and ewes. Heifers in calf to Oneen's Edward Robt. McEwen, R. R. 4, London, Ont. ABERDEEN-ANGUS

Bulls of serviceable age and
females not akin.
WM. CHANNON \& SON P.O. and 'Phone

Kennelworth Farm ABERDEEN-ANGUS PETER $\begin{aligned} & \text { Rot by Victor of Glencairn I Imp, } \\ & \text { A. THOMSON. } \\ & \text { IILLSBURG, ONT. }\end{aligned}$ Tweedhill Aberdeen-Angus

ABERDEEN-ANGUS

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The Oldest Stud in America
"Hillhurst Pride"" 741 -bay, foaled 1908 , sired by "Hillhurst Sensation"- 58 -one of the
best of the get of that fammous sire a big, stylish mare of the blood-like type so much in demand,
with high, all-round, natural action; the fourthe generation fre
 champion, "Viscountess"- $773=245$ ( 4860 ), promises to make one of the best show stallions in
America,
U. H. registry.

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LENNOXVILLE, P.Q.

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 spection invited. Apply to Blond these are an excerptionally fine lot; also a number of females. Ind
J. CALDER, GLANFORD STATION, R.R. 3. Columbur Stables. We have on hand at present one of the strongest selections

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| "The Fifth Horse on the Farm" A Bicycle will increase your profits, get you anywhere at a mo- ment's notice, take you to town and back in record time, and enable you to do a better day's work every day. No cost for upkeep-no hitching <br> Twice as easy as walking Three times as fast |
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 Bulls all sold. One extra god roan bull call


Plaster Hill Herd Dual PPropose Shor thorons

Evergreen Hill R.O.P. Shorthorns
 Good, Growthy, ReR SALEEE Shorthorn Bull
9month oldiddam by Broadhooks Prince $=55002=$
$(88049)$, grade herr.
E. J. Brady, Will sell reasonable for to imprick sale a
Glanworth. Ontario Spruce Lodge Shorthorns and Leicesters heifers in ail akes. of good brued bing and ouality. and
W. A. DOUGLAS, CALEDONIA, ONTARIO

Farm-A Training School.
"Yes, he came from the country; was
born there and grew up on the
 listening with great ploasure toan addees
given by the president of a college. One
One given by the president of a college. one
thinn which atracted my attention was
the Fenis.
 someting in nature, some illustration
from the farm or some hapoening in
mountry country life More and more 1 pasceng oom-
ing to bo beieve that somet ing to believe that sometime this dis
tinguished man must have been in close
 forcibly, And the result of my in inuiry
proved it proved it. He came straiinh from triy
farm. Hiss strength of thought, his wealth of illustration, and his sood common sense
had been drawn the life in hisen early trom a heart to heart
lis manhood with the great out-ol-doors. And how often this is itrue
ot he great men, who are to-day holding places of prominence in pubbic affairs.
Torct hem anywhere and we find
derneath derneatro country boy. This is no
more true of the leadin. than it is of women prominent on the stage of life to-day. All have walked the
farm path up to success.

$$
\begin{aligned}
& \text { farm path up to success. } \\
& \text { Here, then, is someth }
\end{aligned}
$$

Here, then, is something worth think-
ing about by every day they are building character that will be called into fullest play to-morrow Not all will become presidents of colleges; many will keep their homes always on the the same sound judg, there is need for of purpose, and just the same devotion to the right. Not one step can any of us
see into the future; but it stands us in hand to be ready for anything which may come to us. Whether that call be to put
the very best there is in us into farming,
or whether it tide of life strikes hard in public place, we must have our loins girt about, so that we may do and be our best. Two or three things will help to pre-
pare us for such a future. First let us pare us for such a future. First let us
put earnest purpose. There is not much put be expected of a young man or a young
woman, who has no fixed determination woman, who has no fixed determination
as to his own life. To-day it may be one as to his own life. To-day it may be one
thing that seems most attractive, tomorrow another. First one thing, then
another claims the attention of the unstable in heart. Worth everything is a
strong settled conviction as to one's life purpose. I know a young man, born on the farm, who has to my knowledge spent
thousands of dollars-or his parents have for him-in fitting himself for four different occupations, and he will stick to
none. What a waste of time, money and energy! So, then, let there
heart a steadiness of purpose
Not less fine is a brave, cherry spirit,
Anything but a sour, bitter, faultinding Anyng person! A smile is what wins When you smile you help all men about you to be better and to take brighter
views of life. Nor can this be a hie on the outside, put on to suit the occasion, It has a deeper root in the very life itself, one root that strikes straight down into the earth. This is the tap-root. Break
that or cut off its connection with the deep fountains of the earth, and you will
kill nature is the tap-root of character. See that it never is injured.
But finer still is deference to and respect for father and mother. Nothing will exalt a man more surely than to love and
honor his parents. He may be lacking in wealth or opportunity to do great
things, but if he stands four-square in his regard for those who carried him in their
arms when a baby, he will win out. Nothing can prevent it, for there is a great promise for him. Never do or say
a thing which will bring tears to the pillow of father or mother. Be proud of them.
Give them the best love of your heart and it will cause the sun to shine on your
pathway as long as life shall last.- Edgar


Several members of the House were
in the cloakroom discussing the large
number of officers on duty at Ottawa.
"Why is it," somebody asked, "that

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##  <br> mon

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FLETCHER'S SHORTHORNS


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JOHN MILLER
$M$ yrtle Station, C.P.R., G.T.R.
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We have a choice offering in young bulls, fit for service. They are all of pure Scotch breeding
SHORTHORNS-T L Mercer Markdel Ont ROSEWOOD CHAMPION, by Nonpareil Archer. Imp., at the head of the herd. I have almost 100
Shorthorns in my stables at present. Marr Missles. Campbell-bred Clarets. Nonpareile, Minas, Rose.

Robert Miller, Stouffville, Ontario
 Whe uality, and the frieght wil be widite for anything in Shorthoras. One hour from Toronio SEVEVTY-THRE HEAD OE SHORTHORNS


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30 Shorthorns for Sale Eirith bull and a bot of good breeding revistered ferales
Sprucedale Dual-Purpose Shorthorns

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$$




$$
\begin{aligned}
& \text { ies. English LLadys, Duchess of Glosters, etc. Present offering of young bulls are } \\
& \text { M. Metter Miste, Junior Champion at Brandon ithe oummer } \\
& \text { GERRIE BROS., ELORA, ONT }
\end{aligned}
$$




[^2]
$\qquad$



## Flintstone Farm <br> Fintstone


Bertshire Swing

Liberty Bonds, besides conturbut ing
tothe Red Cross, Red Tringle and
other war funds.
Eight of our men are in the service.
Two of them are already in France.
Those still with us are carrying on
the extra load placed on them
willingly and cheerfill.
Dalton
Massachusetts
$\qquad$
Shorthorns for Sale
Evaviz
C. N. Blanshard, R. 2, Freeman, Ont BULLS
an offering. for immediate vel., three sood


A. G. FARROW, OAKYILLE

Mardella Shorthorns
Dual-purpose bulls, 20 young cows and
heifers-bred, some calves by side. Size.
 great massive Duke dam gave 13,599
bs. milk, 774 lbs. butter-fat - at the head




## Live Stock Show

of the Live Stock Breeders' Association of the district of Beauharnois
Ormstown, Quebec, June 4, 5, 6, 7th Prize List for 1918 is increased to $\$ 15,000$ IN PRIZE MONEY Show will open at 8 p.m., June 4th, in the large Stadium, with judging
driving horses, and continue daily at 10 a.m., 2 p.m., and 8 p $m$. Horse racing on June Plan to visit this show this year and see one of the lrest live stock
shows in Canada. Admission, adults 25 c., children 15 . Neil Sangster, President, W. G. McGerrigle, Sec.-Treas

## SALEM SHORTHORNS



## MAPLE HALL SHORTHORNS

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## FIFTY IMPORTED SHORTHORNS

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 Here at Present- TEN IMPORTED BULLS SHORTHORN BULLS Will Al . Dryden

## Questions and Answers.

 Miscellaneour.Does Not Wish Daughter to Marry N 1 have a daughter who wishes to get married, but I object to her fiante. Both
are over eighteen years of are over eighteen years of age. Can prevent the marriage?
Ans.-1. Unless you can appeal to your we doub her marrying the man of her choice.

## Lump-jaw

What is the best treatment for lump affected and woung heiler which possible. I only noticed the lump a few days ago, and I believe it is fast to the bone. Would iodide of potassium be all right for feeding calves? A. A. R. Ans.-If the bone is not involved, the
quickest method of treatment to dissect the tumor out. As the lump was only noticed recently, As the he comp iodide of potassium three times daily, commencing with one-dram doses and in-
creasing the dose by one-half creasing the dose by one-half dram daily
until she refuses food and water, fluid runs from the eyes and mouth and the skin becomes scurfy. When any of these symptoms become well marked cease giving the drug. If necessary repeat treatment in three months. The disease in the
early stages is not likely to affect either early stages is not likely to affect either
the milk or flesh; at the same time few people care to use either from a diseased cow. We doubt if there would be any
danger from feeding the milk to calves.

## Calves Unthrifty

1. I have four calves in a pen, which silage with rolled oats and a little hay The calves hav: been doing well, with treely and is troubled with does not eat One of the other calves has an iarrioea ment on each side of the jaw. What is
the cause? Ans.-1. The diarrhcoa is possibly
caused by overfeeding, or by feeding caused by overfeeding, or by feeding
the milk a little colder than usual. If possible give the calf whole milk and add to it one-quarter of its bulk of lime water. Give it a few rolled oats, a little oil cake, and a reasonable allowance of clover
hay. We cannot diagnose the case in hay. We cannot diagnose the case
regard to the lumps, as it would require a personal examination to enable a cause. We have seen lumps appear on the jaws as the result of injury. There
are some forms of stanchions which are some forms of stanchions which
calf puts its head through but has difificulty in getting it back. This has caused lumps or a thickening to form on the jaw. When a calf is through drinking out of a pail,
some have the habit of taking the pail by some have the habit of taking the pail by
the handle and giving it a ierk in order to get it away from the calf. The edge of the pail str
cause a lump.

Material for Barn.

1. How will I get the most returns is 30 by 40 feet, and is practically all cedar logs but the two sill and two wall plates. The other is attached to this bar and therefore has onty one end, there is just one sims are 30 by 30 cet lons it erect a new bank barn with cow and horse stable under it, would it be advisable to sell the cedar logs or have them saw and rebuild with cetar fumber instead out of the two barns to build all the cement walls and cover the cost of nails and
stable fixtures. Ans.-1. As to which would give the better returns would depend somewhat on the market available for the logs and
the distance you would have to draw them to be sawed. It is not customary to use cedar lumber in the erection of barns.
While the material is lasting, it does not While the material is lasting, it oes ther
hold the nails as well as some of the other timbers. For flooring it might be used in your neighborhood for long cedar posts and you could possibly sell them to ad-
rantage; if so, we would prefer to dispose of them
building.

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shipping charges.

The Cutter Laboratory, Berkeley, Callif. "The Laboratory That Knows How"
The Cutter Laboratory of minois, Clicas

## HOLSTEINS

from a $231 / 2 \mathrm{ya}$ old. 3 -year-old dam. 1 bull 18 mos. old,
fne R. M. Holtby, Port Perry, Ont.


Entor "The Drink and Music
 hope of heaven is in his heart if and
when he falls in battle. He firctits ateter
when be when he
training
other
clean and theod ansaits fighting or an somethin
and buve and social pleatene comforts, the ganes
Men's Christian A sse, which the Young Christian service of ofsociation in Young Men' camps of Canaca, of in the training
France, and in the organized business. This war zones is an
by a head staft trained and paid workers. These wort by devote themselves sedulously to providing Games are suplierts for soul and body -footballs, bupselod in abundant measure boards and pieces. Musicts, checker by phonographs, by distinguished artists and companies of artists, and by song Facilities form home are supplied wing precious letters ery, ink and pens, and the tables chairs required for the comfortable writing of letters. Tea and comfere and
cocoa are served free, at the " $Y$ " canterons $y$, and often wat canteens where intoxicants thus the had are much less visited than they and physical benefit to the men. moral are given by good men as a form of
entertainment and to with the helpful thingep mey in touch separated from by enlistment. Religiou services-and holy communion services comforting and soul held for the spiritual blessed fruitage. And alwars men, with meet together for social intercourse in
the huts of the Young Non's. Association, which are the recognized
rendervous rendezvous of all classes.
To The huts of the $V$.
able homes for our boys oversere verit may be unattractive architecturally, but
they look bequt
them on beautiful to those who know and magazines, and billizem are books are even arm-chairs sometimes,
moving pictures and formances, by the men themselves and sometimes by London companies. But
the work of the " Y , the work of the " $Y$ " is not confined to the
hut activities. It is carried on in the ne said -ut in the trenches is, as some men, and here is poovire served to the comfort there men provided the spiritual
when on the When on the eve of going over the top.
The magnificent work of the $Y$. "over there" will be better understood
if a few specific illustrations of it be given.
One million sheets of letter paper are distributed free each month in England
and France- $12,000,000$ sheets Thirty thousand letters dail, it is esti-
mated, are written by Canadia soldier mated, are written by Canadian soldiers
in ""y", huts overseas. This works oot to be over $10,000,000$ letters a year. One hundred pianos, three hundred large moving-picture machines are pos.
sessed by the Canadian Y M. C England and France.
for Candor baseball equipment amounted to $\$ 25,000$. All athletic equipment is furnished to the men free, and this
year the outlay will year the outlay will amount to $\$ 100,000$.
$\$ 1,000,00$ monthly is spent alone this in England. These concert thousand men.
One hundred and forty thousand
magazines are distributed gratuitously magazines are distributed gratuitously
every month to the men. The " Y " men keep close to the battle
fronts to give drink and food, and cheer and comfort the the men before and after
an engagement. It is frepuently assoriated
with the Arm. Yedial S.

saving the lives of hundredsls of men by
this servici

 Some ext
S. G. \& ERLE kitchen

## If we are to win the war we must GROW MORE WHEAT and

## Use Sydney Basic Slag

LET US LEARN EVEN FROM OUR ENEMIES In a Bulletin issued in. 1916 by the Board of Agriculture "Had it not been for that:
" use of commercial fertilizers the German Empire would have been at the end of its food resources long before the end of the second year of the war.
It is also shown that in Germany the average production of grain has risen from $1,024 \mathrm{lbs}$. per acre in the five-year period, 1879-83, creased from $305-10$, and that the yield of potatoes had incompletely diso tons to 5.40 tons in the same period. This ompletely disproves the dea that exists in some men's minds the soil Dirled ane the soil. Drop us a line and let our representative call and have THE GROSS FERTILIZER CO., LIMITED Sydney, Nova Scotia
CHOICE BULLS-Ready for Service
 calves, from $\$ 200$ to $\$ 1,000$. W
HIGHLAND LAKE FARMS
Manor Farm Holstein-Friesians If it's a herd sire you want, write me. I have sons of both my senior and junior sires: King Segis
Pontiac Posch and King Korndyke Sadie Keyes. All are from good record dams. I am also offering a limited number of young cows, bred to one of these two sires. Good individuals, Gordon S. Gooderham Farm on Tororito and Hamilton Hilighway Clarkson, Ont.

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SUMMERHILLHOLSTEINS 30.76 junior four-year-old; sire's dam 34.60 . The three nearest dams average over D. C. FLATT \& SON, $\quad$ R. R. 2, HAMILTON, ONT.

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and
Choice Grandson of Queen Butter Baroness
 WALNUT GROVE HOLSTEINS


## SOVEREIGN STOCK FARM


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## Butter Prices Will Be Maintained

THE Food Controller for Canada states: "I do not expect that price of butter. The overseas demand is practically unlimited For years after the war Europe will require all the butter which Canada can producefor export, and the prices are certain to be high." High prices for butter make every pound of butter-fat saved a source of extra profit that is a revelation to many farmers and
dairymen. The

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saves you about one half-pound of valuable butter-fat, per cow, per week, over
other machines, even if they are in running condition, and much more if they are
not running properly. Multiply this half not running properly. Multiply this halif pound by the number of cows in your
herd and then calculate what this means to you in dollars and cents per year. Will it pay you to continue losing monece by using in ordinary macnt mane? The Renfrew
gets all but the last three ounces of butter-fat in a ton of milk skimmed.


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CLEANLY AND EFFICIENT



WRITE TO-DAY
C. RICHARDSON \& CO.
D. M. WATT


May 16, 1918

$\underset{\substack{\text { Questions and Answers. } \\ \text { Miscellaneous. }}}{\text { Q }}$
Fencing
Must I build a fence along the road to keep cattle off my premises? -Ans.-No; b Ans.-No; but perhaps it would be best
for you to do so. Replevying Wire.
I sold my farm and on it at the time of
selling was a roll of fence wire that had been used for a temporary fence but at
the time of selling moved it was frozen down so that I could not get it out, and in the spring when I went for it I' was refused possession, it
having been moved to the back of the having been moved to the back of the
farm and later it was taken to the adjoinfarm and later it was taken to the adjoin-
ing farm, which also belongs to the man
who bought claim my fence and damages for having of removed and putting me to the trouble of going after it in vain? F. A. H. the Division Court.
Separation Allowance.
One of our neighbors has been in the
army for some time, and his wife and army for some time, and his wife and
four children are left to work the farm, four children are left to work the farm,
the older one being a the older one being a girl of about 12
years. I have been batching for some time, as my sister who was going to keep house for me has been poorly and not able to work; so I called the other day
to see if I could make to see if I could make some arrangements
for her to come and keep house for me and I would look after her farm for her as the farm joins mine, and she has a hard job to get any one to do the work for her. Would there be any danger of her losing her separation allowance in this Ontario.
Ans.-We cannot say that there would be no danger. There ought not to be. Unthrifty Team.
I have a team of mares rising five years They are fed on good timothy hay and they get two and a half quarts of chopped ing. After a few days' work they become gaunted up and do not look well. Kindly advise what treatment to give. J. R. Ans.-We doubt if you are feeding
quite heavily enough when the horses are working hard. Many teamsters feed four
and five quarts of whole oats three times a day. Some feed a little heavier than this. Of course, it depends on the quality
of the grain. While rolled oats are of the grain. While rolled oats are
recommended by many horsemen a little larger quantity by measurement could be they should be of equal weight. It is possible that the mares' teeth need at-
tention. Have your veterinarian examine tention. Have your veterinarian examine
them. Thorough grooming and regular them. Thorough grooming and regular
feeding and watering go a long way in feeding and watering go a long way in
keeping the work team in a thrifty conkeeping
dition.

Mutual Telephone Company 1. A year ago we organized a mutual
telephone company and received our charter. We built our line the required distance to meet all shareholders. Some parties living along the line did not come now. Can we take them on at the same rate as it cost us, or have we the privilege of charging them a higher rate owing to
the increased cost of material? The Act states that we must give service to any one desiring it. Would that mean on the 2. We are asked by four parties to extend our line an additional four miles
in order to reach their relatives. have to help build that line, bear equal expenses with them and have our money a year and let them in on equal basis
with the chartered members? We understand that a mutual company must do Ontario. S. S. C.
Ans-1. Seeing that you can do Ans.--ly nothing in the ways suggested
practically
without the approval of the Ontario Shropshires and Clydesdales ings, I haver the three year of ram and ewe shearCairntreis Heir 18299 . Write quick dont wait.
W. H. PUGH, Myrtle Station, R. R., Ontario. Cloverdale Shropshires and Berkshires-40
shearindy rams. 70
ho hearling ewess an exceptionally
 Without the approval on pursay and Municipal Board pursuant Statistics of Ontario, 1914, chap. 188), we think that it would be best for you to
write the Secretary of the Board at Toronto for the desired information. We
could not undertake to say what the Board might cor


## 7300 ding ray

"My overalls and shirts are the best made, because they are roomy and comfortable. I designed them with the idea that you might want to stretch your arms and Insist on "Bob Long" brand. Ask your dealer for Big 11 -the big grey overalls-the cloth with the test.
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## JERSEYS

According to the R.O.P. records, a four-year-old and a matur Jersey cow have each produced more butter in one year than any CANADIAN JERSEY CATTLE CLUB

## BRAMPTON JERSEYS

 B. H. BULL \& SON BRAMPTON, ONTARIO WOODIEWE FARM CANADA'S MOSTMBEAUTIFUL JERSEY HERD JERSEYS $\quad \begin{aligned} & \text { This bull, with his get, won first prize on the island of Jersey, 1914, second in } \\ & \text { 1916, and again first in 1917. Present onering A few yearling heiferd }\end{aligned}$
 THE EDGELEY CHAMPION HERD OF JERSEYS who is a son of Canada's champion butter cow, Sunbeam of Edgeley. Pay us a visit. Sunt Prince JAMES BAGG \& SONS (Woodbridge, C.P.R., Concord, G.T.R.) EDGEEX, ONTARIO THE DOII JERSEY MERD-
OFFERS:-Several young bulls, all of serviceable age, and all from R. O. P. dams. These are priced
right. Interested parties should write or see these at once. We also have females of breeding age RECORDOF PERFORMANCE JERSEYS CHOICE BULLS AND FEMALES. We have six young bulls of serviceable age, all
from R.O.P dams. Three are by our senior sire
by our junior sire, Brampton Dairy Farmer. and three are

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## Yorkshires



WELDWOOD FARM

TAMWORTHS

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| ELMHURST LARG |  |
| Credit Grange Farm Berkshires M. J. R. PLARSON Moung boars and PLARSON Manager |  |
| Yorkshires | Patent Solicitors $\begin{gathered}\text { The herersonhauh } \\ \text { The }\end{gathered}{ }^{\circ} \mathrm{Co}$ <br>  |
| ting Advertisers | please mention Advoca |

Founled 1866
Agriculture in England.
Editor "The Farmer's Advocite":
March has been a beautiful month so far as the weather is concerned. It has the custom. Whier and less windy than is tributed to the success factur has conefforts on the Western fromt $\cdots$ and they may have assumed a totally different aspect by the time this reaches you-it portuni bor fie farmer a better opportunity of getting his land ready for in spring crop, than he would have had in different circumstances. The result is the grass laws are still busy turning down he grass lands for spring cropping. Of orrse, this cannot continue much longer and even now one sees the seed drill at work preceded by a drag harrow, but this is rather an uncommon sigit as most of the grass land is properly laid up with the broadcast and harrowing. In many places the grain is already growing nicely, and some fields is being made rapiay green. Every effort which I referred to in a letter many promb ago. It is falling somewhat short of what was desired, but that was inevitable The advice given to the farmer has changed rather rapidly at times, and has
certainlv resulted in much delay. Just now, the authorities are asking particularly for increased production in hogs and potatoes. The Board of Agriculture has issued stirring appeals to this effect. The Prime Minister has addressed a stirring appeal to the whole nation to increase the production of
potatoes, in which he has particularly addressed himself to the man who can only plant a small allotment in any case. The counties have, then, taken up the campaign and have posters and pamphlets,
showing the production and consumption showing the production and consumption
of potatoes in the country for the year of potatoes in the country for the year
191. In this manner the people are shown the deficit in production as com² pared with consumption, so we are get-
ting on. Intelligent and well-directed propaganda is what is required, not educa-


The campaign for the increase of hog
production has been largely due to the production has been largely due to the
Daily Mail, and has assumed some very funny aspects. To begin with, the fixing of prices and the prohibition of certain ioodstuffs as live stock fords, has almost
driven many of driven many of the farmers out of the
live-stock business, and driven a large number of the remainder to despair what was about to happen, and so commenced a vigorous campaign to save the hog. Accordingly, we have, through that press, been given an education from of hog raising experts on the gentle art contributed their share and many of the gentry have taken a hand. Lord Chaplin is especially enthusiastic and assures a
doubtful people that a good sow will give doubtful people that a good sow wil yiv He even cites a case where he knew of sow, which had, within 13 months, thre No doubt he will in this way arouse many an amateur to great enthusiasm, which enthusiasm will be greatly reduced when first years his returns at the end of the irst year, but nevertheless the effort pu production of the country the pigs and potatoes, so say we all. All the papers advise them, everybody talks about them, and presumatly every one is lending a
hand in redoubling the efforts of the
country The live-stock situation is rather doubtful here, owing to shortage of food sup plies. In one particular respect, how
ever, this has been improved by the fine March weather. I refer to the lamb crop. epens forl all over the country state and the flocks that I have heen able to see certainly look very thrifte: As the less difficulty in keeping their flocks thrifty, so that I believe the sheep incustry will not suffer such a severe setstock industry have. Wie must be prepared to expect difficulties, however, until the obstacles caused by the war are
removed by the cessation of hostilities and a retu

## STAMMERING

Our method marks
odder. Reforences giv

## ESNWOE'S War Time Production Seeds

THE farmer will be well advised who makes certain of a good crop of potatoes, In selectWe have secured a supply of Roonied seed the best. We have secured a supply of good seed potatoes absolutely free from disease: but the suppty is limited and we advise you to send your order
right away.

## Seed Potatoes







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When buying from dealers insist on Rehnie's Seede.
THIS
 KING \& NAARKET \&TS LIMITED NTREAL SORONTO

## Since 1914 the price of Hogs, of Cattle, of Wheat has more than doubled. The price of MIITON BRCTK

 has advanced VERY LITTLE. NOW is the time to tmprove yourfarm by building an attractive, warm, substantial Milton Brick
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MILTON PRESSED BRICK CO., LIMITED Head Office: Milton, Ont. Toronto Office: 50 Adelaide St., West

## EDUCATIVE LITERATURE

There is no department of finance of such importance to the average man as Life Insurance, and
none, generally speaking, of which he knows less.
To those wishing to in po those wishing to investigate the possibilitities of Life Insurance, the extraordinarily liberal
advanionseo modern Policies the CERTAINT of the protection afforded, the comparative
af various Plans the West Life Assurance Company will be pleased to send an fully explanatory and so forth, The Great-
various phatlets in which the various phases of Life Insurance are clearly referred to. The Company will, at the same time,
be pleased to give personal advice and information and these
frexplanalill freely given thoughthenal advice and information, and these explanations will be none the less
The Great-West Policies ape profit returns to policy yholders remarkably form their liberality and value." Rates are low, and the

THE GREAT-WEST LIFE ASSURANCE COMPANY
Head Office, Winnipeg

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Mutual Life Companies are on the same sound basis as other legal reserve companies, and Our method marks a new advance. Write for have the great feature of mu-
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## Pocket Money

$\$ 2.00$ A WEEK and more if you want money for most boys. You can do this on on if you are earnest and determined to succeed in what you undertake.

In Spare Time
One of our boy representatives earned 130.00 in two months. Another made 82.50 th first afternoo
These are just two examples. Boys, Girls, ane grown-up people too, all over Canada, ar making money to buy things for themselves
by giving us a few hours of their spare time

We Payinell For Their Assistance and the work they do is easy and pleasant, and

## How is it Done?

If you want to know, cut out the coupon at the bottom of this advertisement, and we will how you what others have done and tell you



You have heard or you have read all of the reasons and arguments why we must produce more food.


You may have been troubled by the confusing, ignorant or malicious statements of those who have asserted that there is no lack of food.

## But This Fact is Clear

Your Government would not be carrying on this propaganda if the food situation were not critical. IT IS CRITICAL.

We and our Allies have our backs to the wall.
Our men have been fighting and must still fight like Demi-Gods to hold the Huns out of Ypres (of Immortal Memory) and from the Channel Ports.

Our faith is that they will hold the enemy and that they will drive him back.

LET US, THEN, SEE TO IT THAT OUR VALIANT ONES DO NOT LACK FOOD.

## Farmers of Ontario-Our Faith is in You


[^0]:    II, wre not very big either (only 5 feet
    Che and 5 feet $21 /$ inches). We have
    thonizh before we have spoken and

[^1]:    Another Method.

[^2]:    

