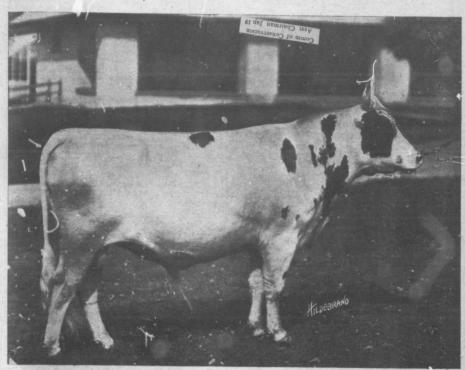
# FARM AND DAIRY RURAL HOME



BETTER FARMING

Toronto, Ont., October 31, 1918





NANCY'S MINT MASTER, JUNIOR AND GRAND CHAMPION AYRSHIRE BULL AT THE NATIONAL DAIRY SHOW

The Care of Dairy Cattle

A Detailed Study of Feed and Management. (Page 3.)

Preparing the Flock for Winter

Methods Followed at the Nappan Experimental Farm.
(Page 4.)

The First Calf Club in Canada
Sixty Youngstere Get Calves of Their Own. (Page 4.)

What of the Bull's Dam

Some Illuminating Experience at Cap Rouge. (Page 4.)

ISSUED EACH WEEK.

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## FARMERS' BUSINESS



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We have helped many over the rough places, and have aided many more to the highest plane of success.

We are prepared to extend you every aid within legitimate banking practice.

## Come in at any time and talk over your affairs with us. You are always welcom? THE MERCHANTS BANK Head Office: Montreal, OF CANADA Established 189 Established 1864.

with its 192 Benaches in Ontario, 33 Branches in Quebec, 19 Branches in Manitoba, 12 Branches in Sankstetwewn, 33 Branches in Alberts, and 8 Branches in British Columbia serves Rural Camanus of effect '94'. Columbia serves Rural Camanus of effect '94'. WRITE OR CALL AT NEAREST BRANCH.



#### Wanamaker's **Five Reasons**

Mr. Wanamaker, the millionaire merchant in Philadelphia, says:

"I have been asked so often about my own insurance that I am going to gratify a curiosity that some of you have expressed, perhaps, in regard to it."

"I simply worked out five conclusions as the result of my own thinking, without any moving cause except my own judgment."

"First: That at that time I knew I was insurable; and I could not be certain of immunity from accident or iil-health, and it might be that at some future time I would not be insurable."

"Second: That life insurance was one of the best forms of investment, because from the moment it was made it was good for all it cost, and carried withit a guarantee that there was protection in that investment that I could not get in any other."

"Third: That life insurance in the long run was a saving fund, that not only aswed, but took care of my deposits and gave me opportunity for pessible profits, that not infrequently returned principal and interest and groft:

"Fourth: That life insurance, regarded from the standpoint of quick determination, was more profitable than any other investment I could make."

"Fifth: That it enabled a man to give away all he wished during his lifetime and still make such an estate as he cared to leave."

## -Mr. Wanamaker carries sixty-two policies.

The Mutual Life Assurance Company of Canada Waterloo, Ontario

#### Ayrshires and Dairy Shorthorns at Monteith

N last week's issue of Farm and Dairy there appeared an announce-ment of the sale of pure bred stock ment of the sale of pure bred stock belonging to the Ontario Agricultural College. A change in policy, regard-ing the handling of the cattle at the college farm makes it possible to in-crease the Holatein, Ayrahire and Jer-sey herds. Therefore, there will be no pure bred females of these breeds of-fered. fered.

During the latter part of September, During the latter part of September, the college transferred all their dairy Shorthorns to the Ontario Department of Agriculture. The herd has been sent north to the Government Demenstration #arm and Breeding Station at Monteith. New Ontario. Station at Monteith, New Ontario.
The station is in a splendid position to continue the development of the dairy Shorthorn. They have there one of the finest imported dairy Shorthorn bulls in Canada. During the last few years the Station has been developing a milking Shorthorn herd. Quite extensive experiments have been undertaken in in-breeding.

It is also interesting to note that it is also interesting to artic that the Monteith Station is recommending by use of the Ayrshire and dairy 5. orthorn to the settlers of New On-tario. In regard to the Ayrshire, they argue that the animal is hardier and more capable of ranging over large tracts of semi-bush and picking her iving during the summer. At the present state of development the country is in need of large supplies of beef as well as milk. Hence the subnortice concluded that to meet this want, the dairy Shorthorn is the most suitable. living during the summer. At

#### Canadian Grain Wins Sweepstakes

OR several years now Canadian grain growers have ben carry-ing off some of the best sweep stake prizes at the International Soil Products Exhibition. This year the exhibition was held at Kansas city and Saeger Wheeler, of Rosthern, Saskatchewan, for the third time, won the International Sweepstakes Trophy for the best half-bushel of spring

Samuel Larcombe of Birtle, Mani-toba, won the sweepstakes for the best half-bushel hard spring wheat in the dry farming products section. With this win goes an engraved sliv-ver cup of the value of \$50 and \$35 in cash, in addition to the regular first prize of \$10. Samuel Larcombe of Birtle, Mani-

Mr. Larcombe was also successful Mr. Larcombe was also successful in a number of vegetable classes. The sweepstakes prize in oats went to T. R. Dickerson of Birtle, Manitoba, and the sweepstakes in barley to Nick Taitinger, Claresholm, Alberta. Prizes won by Canada were as followed.

Taitinger, Claresholm, Alberta.
Prizes won by Canada were as follows:—Manitoba, 8 silver cups, 33 first premiums, 19 second and 15 thirds. Saakatchewan.—Two cups, four firsts, five seconds, five thirds. Alberta—One cup, two seconds and one third.

The Plowing Match Cancellation MR. J. LOCKIE WILSON, secre-iary and managing director of the Ontario Plowmen's Associa-tion, still feels justly indignant at the enforced cancellation of the plowing match at Citams. The agricus of the enforced cancellation of the plowling match at Ottawa. The action of the Hon T. A. Crerar, Minister of Agricul-ture, in refusing the use of the Ex-perimental Farm for the match, was due to the urgent request of Mayor Fisher of Ottawa. When it was then suggested that the match be held on the farm of Mr. J. R. Booth nearby, Mr. Booth took the same action as the Dominion Government Minister. Mr. Wilson would like to know why farm Wilson would like to know why farmers were refused permission to meet in an open field at a plowing match while the transfer of the transfer o

Mr. Wilson also had the following let-ter from the Provincial Board of

Heaith:
"Understand that a plowing match
is in contemplation on the Experimental and Booth Farms, near Ottawa, on the 16th, 17th and 18th inst,
I have no hesitation in approving to
the meeting of the farmers and implement magnificatives; on this occasion,

the meeting of the farmers and implement manufacturers on this occasion, as the danger from so-called "Spanish influenta" is reduced to a-minimum by meeting in the open air.

The cancellation of the match is more than a disappointment to the Ordario Piowmen's Association. It involves a heavy financial loss to the Association and to the manufacturers and plowmen, who had aiready ahipped their equipment and teams to Obtawa.

#### Points to be Remembered

The war has cost Canada one billion dollars.
The war is, not yet ended.
Even if the fighting does end in the
near future, the milliary expenditure
will remain high until the soldiers are
demobilized. demobilized.

425,000 Canadians have gone over-seas and Lord Shaughnessy says that tt will probably take 18 months to bring them back

bring them back.

If the war were to end to-morrow it would probably cost \$250,000,000 to demobilize the Canadian soldiers.

For Canada's Expeditionary Force

Pay and Allowances alone amount to \$14,000,000 a month, whether the mea are fighting or not.
Of the \$500,000,000 desired through

the Victory loan, this year's war bill will be equal to four-fifths of R.

Bear in mind that a large portion

of the money received through the Victory Loan will go to finance sales of Canada's products to Britain.

#### Breaking Colts in the Fall

THE spring of the year is usually the coit breaking and colt training season. But why not break colts in the fall? The fall has soveral advantages not the least of which are a bracing atmosphere and a surer footing in field work, both of which make work easier to the Joungsters in training. The Breeder's Gazette of fers the following suggestions on fail breaking:

"Coits that were just a little too small last spring to put to work may advantageously be broken in now. Some farmers are putting in green colts so as to allow certain old work horses a rest during which they may fatten up a bit before winter sets in. fatten up a bit below which it is particularly desirable to give working broad mares such an opportunity to recuperate and go into the winter carrying a fair amount of

Whenever there are a number of colts raised each year it is well to break in the fall the larger ones that would ordinarily be left at liberty unwould ordinarily be left at liberty sit-ill another spring. This distributes the colt-training better, and avoids that come from attempting to work too many coits at one time in the spring. A man can handle one col-in a team with easy and very little clark. If he has two colls in a loss. delay. If he has two colts in a four-horse team he wastes some time in making aure that neither of them gets away or does some mischief, especially in hitching up and unhitching. cially in hitching up and unnicana;
With two there is also greater liabiity of a runaway, for if any excitoment
occurs the two tugging colts offer
twice as much resistance to the driver

twice as much resistance to the driver and twice as much persuasion to the old stand-bys in the team.

"Cotts broken to work in the fall remember their training and go right to work the next spring much like eld horses. Usually there is more of a rush to get the work along in the spring and so this of itself is a distinct advantage on a farm where large acreages of spring-sown grain as acreages of spring-sown grain and corn are to be put in."

VOL.

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should be ould should about two c about two will not se three times milk just a tion and he curlier it o the oast is a substitute. milk to sky A young of whole n feedings, n is two or tiday. The somewhat commonwhat commo

as sour and weighed qu buckets, an Oalves so foeds should fow weeks outs, wheat cate and v BOLLO BE B calves can feeds than

fled to young

Probably clover and should be I seems to is be clean an For feeds This method from emelois should be p can exercise to do so. F the calf at a to about 50 to keep the and to use Plenty of cl ful cast rai kept in the such as cal a large num A well de

veloped dair

When the well fed and the should



Trade Increases the wealth and glory of a country; but its real strength and stamina are to be looked for among the cultivators of the land - Lord Chutham.

VOL. XXXVII.

TORONTO, ONT., OCTOBER 31, 1918.

NO. 44.

## The Care of Dairy Cattle

A Complete, Detailed Account of the Feeding and Management of Dairy Cattle, Both Young Stock and Old

HE proper care of deiry cattle demands of the desiryment a therough knowledge of feeding, miking, management, landing, housing or "biding and grooming. The care of the southern a tould begin at birth. After the call is drought at birth. After the call is drought at birth and the allowed to remain with its mother tor and though be allowed to remain with its mother tore about two days in order that it may get the colostrum or first mikin at frequent intervals. After the cast is about two days old, it should be removed to a well-water and the color of the call in the case of the color of the call in th rentilated, clean and warm shelter or barn where it will not see its dam, and there fed by hand two or three times daily. The calf should receive whole three times duly. The calf should receive whole mails just as it comes from the mother for from two ike, the exact time depending on the condition and health of the calf; the stronger the calf the surfler it can get along without whole milk. When earlier it can get along without whole milk. When the calf is from one mouth to ten weeks old, it may be find on elementary with a grain ration as a substitute for the butter fat in the whole milk. The substitution should be made gradually, two weeks at least being taken to change from whole with a distinction. milk to skimmilk

young calf is usually fed from four to six quarts of whole mak daily, divided if possible into three feedings, morning, noon and night. When the calf is two or three weeks old it may be fed twice each is two or tures weeks our k may be red twice each day. The exact quantity of milks to be fed topends somewhat on the strength of the calf. Milk that is ded to young coalves should be sweet, clean and warm, as nothing will develop scours in calves as quickly as sour and dirty milk. Food young calves regularly weighed quantities of sweet, warm milk in clean buckets, and most calf troubles will disappear

buckets, and most call froubles will disappear. Calives soon learn to set grafn and hay, and these foods should be given when the animaks are only a few weeks old. The grain should consist of ground only, wheat bran, whole corn and corn chops. Ground only, wheat bran, whole corn and corn chops. Ground only, wheat bran, whole corn and corn chops, Ground only and wheat bran mixed in equal parts make a very good ration for delry calives, and they should be given self they will sat up clean. The grain feeds sorve as a substitute for the butter fat in milk, and calves can be relieved at a much smaller cost on such calves can be raised at a much smaller cost on such feeds than on whole milk until they are old enough to live on grain and hay alone.

#### Roughage for Calves,

Probably the best hays for young calves are alfalfa, chown and peavine. Hay may be fed daily and drove and peavine. Hay may be fed daily and should be kept in a rack where the eart may have access to it at will. All hay fed to culves should be clean and bright, and free of dirt and mold. For foodings, calves should be fastemed in stanci-

For feeding, calves should be fastened in stanch-lone and the sak for livel, fostowed by the grain. This method will face livel, fostowed by the grain. This method will face lively a stance of the grain of the gr

such as cast sectors, seveneys, s. m many to make, a large number of the cally see. A well developed call usually means a well developed dairy cow, and the man who knows how to rake a dairy call successfully usually understands feeding and developing the dairy cow.

Feeding the Pregnant Cow. When the dairy cow is pregnant she should be all fed and cared for, especially while she is dry, so should be given sufficient feed to keep her body By PROFESSOR C. H. STAPLES

in good flesh and provide for the calf she is carry-ing. If the dairy cow takes on fat before the calf is born, it will usually be returned to the owner in the form of milk and butter fat, if she is a profitable dairy cow. The pregnant dairy cow should have the quantity of hay and stinge or root crops that she will clean up well. In addition, during the winter a light ration of grain should be fed. During the agray ranson of grain should be fed. During the summer she should have access to good pasture, which should be supplemented with a light grain ration several weeks before calving. The pregnant dairy ow should be fed grains that are light, easily diagneted and laxeltive, such as wheat bran, onte and seems of the off meaks. Cottonseed meal should not seems of the off meaks. Cottonseed meal should not seem to fit of the present selection of the con-tions of the off meaks. after the cow freshens. Shortly before calving, the cow should be placed in a clean, well-bedded box-stall and left undisturbed, unless assistance is necessary. In summer, if a well-shaded pasture is available where she will not be annoyed, that is preferable to a box-stall for calving.

After the cow has dropped her call she should be Ascer the tow has tropped her cats any anomal or kept for several days in a stall, or in summer in a pasture, where she will not be disturbed by other animals. If she fails to clean well within 24 to 36 hours and has not dropped the after-birth, it should be removed by a competent veterinarian, or some one who has had experience in this work. After the removal of the after-birth, the cow should be washed with a mild, warm solution of lysol or other antiseptic or disinfectant. It is a good practice for the dairyman to have a thermometer and take the temperature of the cow daily until the calf is several days old, and all chances of trouble due to calving have passed away. The temperature of a cow is a good index to her physical condition at any time.



After freshening, a cow should be fed a light ration of grain, consisting of wheat bran, ground oats and some of the oil meals, supplemented with clean hay and stage. The quantity of grain to be fed depends upon the size of the cow. Usually from sed depends upon the size of the cow. Density from three to eit ibs. aduly will be sufficient for the first three or four days, after which the ration may be increased gradually. The quantity given should be based on the amount of milk produced by the cow. The udder of the dairy cow should be washed and

in the form of hay and silage. In addition a wellin the form of hay and rilage. In addition a well-balanced grain ration should be fed in propertion to the quartity of milk and butter fat preduced. Usually, one pound of grain in fed for each three or three and a half pounds of milk produced, or better stift, one pound of grain daily for each pour. If the contract of the produced weekly.

The cow is fed for two purposes, namely, to sup-

The cow is fed for two purposes, namely, to sup-port and keep up the body and to produce milk and butter fat. If the darry cow is fed only enough to keep the body is good condition, she can not pro-dues much milk; therefore, she must be given in addition sufficient feed to enable her to produce milk to the limit of her capacity. The efficient dairy cow will convert rough feed into a valuable thuman food.

#### Feeding the Grain Ration.

Each cow in the herd should be fed individually, Each cow in the herd should be fed individually, and the grain feeds weighted at all times. It may not pay to weigh all the silage and hay for each cow separately. The best plan for grain feeding is to make up a grain mixture for the average of the herd and then feed each cow in proportion to production. Best results can be obtained only by carefully observable such cover in the production of the producti fully observing each cow and feeding her according to her requirements. Rations should not be changed suddenly. Several days should be allowed for any enddenly. Several days should be allowed for any material change in the ration, whether it is a change in laind or amount. The successful feeder will watch each cow in the head. From his own ebservations and with the aid of milk scales he can determine very accurately what the durry cow should be fed. Dairy cattle should have plenty of good pasture throughout the spring, summer and fall meshle. In throughout the spring, summer and fall meshle. In

throughout the spring, summer and sair measures winter they should he supplied with pienty of good sitage as d hay. Where the herd numbers less than ten cov.s. which is too small to warrant building a site, toot crops should be grown to take the place of silo, toot crops snound or grown to take the pince or silary in supplying succeivance during the time the cattle are off pasture in the winter. The best results can not be obtained from the dairy cow unless she receives all the succeivent feed she needs at all times, together with a sufficient quantity of roughage. is also well to have sufficient ellage to supplement the pasture in case the grass becomes short. The herd should have access at all times to a plentiful nerd smould mave access at all times to a plentiful supply of pure water. The dairy berd should be pro-vided with clean stalls and shelter. The dairy barn should be so built as to provide plenty of fresh dr and light. It must also be comfortable. The stalls should be constructed according to modern plans, with the idea of caring for all herd with the least



#### Keep Up Our Prosperity

HE Victory Loan is a vital factor in the creation and continuance of our pros-perity. The great bulk of our chief products are bought by Great Britain for the use of her civilian population at home and her armies in the field. She buys the sal-mon catch of the Pacific, she buys the ex-portable surplus of the wheat of the western prairies and of the flour manufactured from She buys the cheese of the eastern dairy farmer. She buys the output of the hun-dreds of munition plants of Canada which, In turn, take the product of our great steel plants. This means the employment of tens of thousands of operatives. How does Great Britain pay for all these products? For the greater part the Dominion Government furnishes her with the money. Where do we get the money with which to supply her?
From our Victory Loans—Sir Thomas White

Lean Kt. Pa Mi substitute that the season by a

work and at the lowest cost to the owner work and at the lowest cost to the owner.
The dairy cow should always be handled in a very
gentle manner. The successful dairyman never
abuses his cattle nor handles them roughly. All
animals in the herd—cows, calvee and the hall should be kept well groomed and clean at all times. should be kept well groomed and clean at all times. If the milking cows are brushed well cach time they are fed, the condition of the skin and hair will be much improved and the bord will present a much better appearance than when this is neglected.

better appearance than when this is neglected.

Winter Milsers Most Profitable.

Dairy cows should be bred during the months of December, January and Prirrary, is possible, an order to have them freshes in the fill of the year. Fall freshesing is desirable for many reasons. The cow will produce the maximum amount of milk and butter fat during her lactation period; the farmer has more time to devote to the herd during the winter months; sime to decore to the herd during the winter months; as a rule, dary products are worth more in the winter months; the weather is usually mild in the full and troubles from calving are not so apt to develop at that time as they are in extreme cold or hot weather; calves do better when dropped in the fall, since when weamed from milk the following spring they are old enough to eat grass; files are not so likely to worry the cow and calf as in hot weather. When the cow freshess in the fall, she will produce well for several months, then when springs comes and she is terued on grass the flow of milk will be

increased.

The milk from each cow should be weighed at each milking and the milk tested for butter fat at least once a month. The amounts of both the milk and butter fat produced should be recorded. A record should be also of the amount of feed consumed.

butter fits produced should be recorded. A record should be a also of the amount of feet consumed. With succords the unprofitable of the consumed of the consu be allowed to serve a cow only once while she is in

## A Farmer's Idea of Big Corn

ORE than a year ago," said a farmer to me under the other day, "I made un me are to me OHE man a year ago," said a farmer to me to the do ther day, "I made up my mind to stop using the small filnt corns for sliage purposes and grow some of the targer but later maturing kinds. I chought that if I changed my plans of

growing corn and used some of the big late varieties and sowed in rows three and one-half feet each way, in-stead of in hills, I would get more stalks as well as more grain. I am glad now that did not err too far in that direction. My big corn was the only thing to grow and he seeded 18 acres of Reid's Yellow Dent and Wisconsin No. 7. I got cold feet and instead of using Reid's or No. 7, planted six White Cap and six of

"I have been more than justified in selecting White Cap and Bailey," continued my friend. "This is particularly true of the last two years. The last two years. The White Cap and Bailey

days ahead of Wisconsin No. 7 and Reid's Yellow days ahead of Wiscorsin No. 7 and field's Yellow Dent. This fall, when the heavy frosts came, which killed the corn, my Bailey and White Car were in good condition for the silo, while my neighbor's still good condition for the site, while my neighbor's still needed-two weeks of good weather to get to the same stage of maturity. The result was that he didn't get weather and his No. 7, and especially Rodd't Yellow Dent, was much too immature to make good

As an afterthought this good friend added further As an afterthought this good friend added further: "in all fairness to my neighbor I had better adult that my corn was grown in a field that was in a better state of tith and fertility. Moreover, in my opinion, growers would have better results if they sowed in hills three and a half feet apart acan way instrad of acwing thickly in drills. It is decidedly instead of sowing thickly in drills. It is decidedly noticeable this fall that corn c win in stills obtained a stronger growth, producing more and maturer grifn. Generally speaking the majority of farmers have come to the bonclusion that in order to have good silage there must be plenty of fairly well ma-tured grain."—C. E. McD.

#### Agriculture Must Be More Intensive

A Prophecy of After the War Conditions By Henry G. Bell.

THE day for more intensive agriculture in Canada is here. The events of recent years have exceeded shose of the past two centuries in injecting Canada into world politics and world business. The fact that our armies are fighting on the ness. The fact that our armies are fighting on the battle front of Europe for liberty and human rights, has made us part and parcel of the commerce of the world. For three reasons, then, we must prepare by intensive agriculture to take advantage of these colorged opportunities.

First, the commerce of this country has increased enormously within the period of the war. There is a constantly enlarging call for Canadian products both on this continent and in Europe. Second, labor to produce our creps has become alarmingly scarce. Such conditions force us to devise ways and means Such conditions force us to evisee ways and measure to maintain greatest production with a minimum of labor. The third reason is found in the seconomic problem which the demobiliting of a great army is bound to precipitate. In order to take our part on the field of honor it has been necessary to drain the the field of honor it has been necessary to drain the marspower of Canada. At the close of the war there will be the problem of assimilating a considerable number of Canadians who have laid easiled the cruel business of war and are glad again to take up the arts of peace. Productive farming therefore, be-comes the natural outset for such a fund of energy.

The whole matter resolves itself into a business proposition. country. Then what more natural line can we follow at the close of the war than of pro bucing the greatest at the close of the war than of pr' uchng the greatest quantity of crops and ilve stock of highest quality? This will necessitate the development of the foreign market. It is not a case of seeking the foreign market, we are already in it. With broad-minded statesmanship at home and keen, after business men on the outposts, Canada should find title difficulty in marketing materials of the quality she is capable

Considering the trend of the times, soil fertility



Harleyholm White Rosie 3rd, Grand Champion at The National Dairy Show.

This grand cow, owned by R. R. Ness, Howick, Que., has a great show-yard record to her writte than any property of the grand conv. owned by S. R. Ness, Hownek, Que., has a great show-yard record to her are rather large yieldors and as regards may be annexed the same title in competition with all America. Mr. W. F. Stephen, Secretary, the state of the same title in competition with all America. Mr. W. F. Stephen, Secretary, the same title in competition with all America. Mr. W. F. Stephen, Secretary, the same title in competition with all America. Mr. W. F. Stephen, Secretary, the same title in competition with all America. Mr. W. F. Stephen, Secretary, the same title in competition with all America. Mr. W. F. Stephen, Secretary, the same title in competition with all America. Mr. W. F. Stephen, Secretary, the same title in competition with all America. Mr. W. F. Stephen, Secretary, the same title in competition with all America. Mr. W. F. Stephen, Secretary, the same title in competition with all America. Mr. W. F. Stephen, Secretary, the same title in competition with all America. Mr. W. F. Stephen, Secretary, the same title in competition with all America. Mr. W. F. Stephen, Secretary, the same title in competition with all America. Mr. W. F. Stephen, Secretary, the same title in competition with all America. Mr. W. F. Stephen, Secretary, the same title in competition with all America. Mr. W. F. Stephen, Secretary, the same title in competition with all America. Mr. W. F. Stephen, Secretary, the same title in the same title in



They Placed the Ayrshires at Columbus. They Placed the Ayrantees at Columbus.

On the left is Prof. H. H. Kildee, of Ames, Lown; on the right Wm. Hunter, of Freeman, Ont. Togother the allotted the Ayrshire honors at The National Pairy Show and only once did they disagree seriously enough to make it necessary to call in a referee.

and proper fertilization becomes a problem of natio-al importance. It should receive closest attention from Canadian farmers so that they may beneft by present high prices for farm products, and may best prepare for the period of readjustment at the best prepare for the period of readjustment at the close of the war. Marketing and production must join hands as never before, but let us be careful, first of all, to produce a maximum of high quality products before we seek preference in the new mar-kets of the world.

#### The Swing from Horses

Is it True that Fewer Mares are Being Bred, S EVERAL owners of stallions of draft breeding tell us that more mares have been bred on their routes this season than for three or four years. That this is not generally true in America is evident from the following comment in The Breeders'

The undoubted tendency of farmers all over the "The undoubted tendency of farmers all over the country this year is to swing away from horse breed-ing and devote attention almost exclusively to grain and meat production. In this instance the desire for prompt profits is augmented by the patriots for prompt profits is augmented by the patriose motive, so that many farmers pr ses to feel almost compelled to restrict horse breeding and throw grala and meat onto the markeds as fast as possible. They count in bushels of corn and oats the feel required to raise a cott to maturity and it startles them. A few ears of corn or a gallon of oats represent 5 or 10 cents' worth of grain that can be resent 5 or 10 cents' worth of grain that can be used as a flour substitute. This grain makes a sure profit when marketed immediately and so the pre-sure to follow the grain-cashing route is well-nigh

"One after another farmer gives these for neglecting to breed mares this season. The situation savors of a national movement away from horse breeding. Each man argues to himself that enough others will keep on with their customary breeding operations so that when he himself wants breeding operations so that which he work out in this service there will be plenty of suitable young mares or geldings available."

If the situation be as serious as here outlined, then big prices will be realized for good, young, draft horses. We do not believe that the swing from horse is as pronounced in Canada as in the United States and this speaks well for the foresight of Canadian farmers.

The complaint has been made that the farmers do not pay wages which will attract laborers and this is true, but in many cases, the farmer is in doubt whether he can pay the high wages which other industries- are paying and come out Manufacturers, as a rule, know how much they will receive for their production, but the farmer, except in case of wheat, has no assurance what price he  Prepari Methods F

HE succ will dep at the Exper the brooming flock, pick o or any that n also any that and discard a ewe may b heavy milk f the flock as

All lambs If the r to be more ni or February, barning time Dem lembe

a light grain pound bran a ewe lambs ar but not give poor. All bre part of Octob sists in puttin tog them a Mg ing them a Mg oil cake meal in flesh. Th practice. Fir condition are Second, they more likely to better at lan making less In selecting

but not too fi to run with In dividing are put togeth lambs by ther one year old too, are given not get a fair ous ones. Th winter has be

choose the ve

The Firs Sixty Your

Saturday boys and a was the d complied with the first Boys chief movers i district repre Peel County N acting through girls a real in teach them th Of the 60 1 Holsteins, eigl

due to freshen were purchase Leitch, of the R. S. Stevenso were purchase is indicated by records running The boys and their notes fo per cent, the T bers being dra the number of progeny then I with the adv made with the chases and ac During the

quired to keep heifers and pr ing the greater

#### Preparing the Flock for Winter Methods Followed by Nappan Experimental Farm

HE success to be obtained from the farm flock HE success to be obtained from the farm flock will depend very largely on the way it has been at the Experimental Farm, Nappan, NS, is,—before the breeating season opens in the fall go chrough the fock, pick out all the non-producers, poor milkers, or any that may have bad mouths or spoiled udders; also any that may be too did for breeding, profitably, and discard the "... In selecting out the breeding fock looks alone is not the o by guide, as many times a ewe may be a profitable breeder, yet be very thin, due to the fact that she has been brought down by a heavy milk flow. Good ewes should be retained in lambs properly.

All lambs not intended for breeding purposes are sold. If the market happens to be flooded, it is found to be more profitable to feed them well until January or February, by putting them on good aftermath until

Ram lambs intended for breeding are placed in a separate field with good clover aftermath and given separate field with good clover aftermath and given a light grain mixture of half pour" of out; quarter pound bran and one-fifth round oil cake meal. The enve lambs are also placed in a field by themselves, but not given much grain unless the afterfeed is poor. All breet weeks are flushed during the latter part of October or the first of November. This conpart of October or the first of November. This con-sists in putting them in a good field of clover and giv-ing them a light grain ration of oats, bran and a little oil cake meal. Hence, the ewes make a rapid gain in fiesh. There are s advantages from this in flesh. There are se advantages from this practice. First, the ewes which are bred in a thrifty practice. First, the ewes which are bred in a thrifty condition are more apt to throw vigorous lambs. Second, they are more reliable breeders. Third, more likely to drop twins. Fourth, the flock will all breed more evenly together, which makes it much better at lambing time in that the lambs are all dropped within a short period of each other, thus making less work for the shepherd.

In selecting the flock ram it is the endeavor to hoose the very best, typical of the breed and vigor-us. Then he is fed well in order to keep him virile, ous. Then he is fed well in order to keep him virile, but not too fat. He never gets grain until about a month before breeding season. He is never allowed to run with the ewes continually but put in with them two or three hours each day.

In dividing the pen for winter, all mature ewes are put together; shearlings in another pen and ewe lambs by themselves. The latter are not bred until one year old. Should there be any weak ones, they, one year old. Snound there be any weak ones, they, too, are given a separate pen. Otherwise they would not get a fair show at the trough with the more vigorous ones. The above method of preparing sheep for whiter has been found to be most satisfactory.

#### The First Calf Club in Canada Sixty Youngsters Have Cows of Their Own

SATURDAY, October 19th, was a gala day for the boys and girls of Peel County, Ont. The occasion was the distribution of 60 heifers of dairy breeding to as many boys and girls in that county who had compiled with the conditions and become members of the first Boys' and Girls' Calf Club in Canada. The the first Boys' and Girls' Calf Club in Canada. The chief movers in the organization of this club were the district representative, Mr. J. W. Stark, and the Peel County Milk and Cream Froducers' Association, acting through their preeldent, Mr. Mamming W. Dohety. The object of the club 's to give boys and girls a real interest in the work of the farm and to teach them the value of good stock.

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Of the 60 heifers distributed, 12 were pure-bred eins, eight pure-bred Jerseys and the rest high nostens, eight pure bred servers and the rest high grades. All are bred to good pure-bred sires and are due to freehen in two to four months. These heifers were purchased by Mr. Doherty, assisted by Prof. Lestch, of the Ontario Agricultural College, and Mr. R. S. Stevenson, of Ancaster. For the most part they were purchased in Oxford County and their quality is indicated by the fact that some of their dams have is moticated by use tack chark colone or their daths nave records running up to 18,000 lbs. of milk for the year. The boys and girls who received these helfers gave their notes for 12 months with interest at six per cent, the notes being endorsed by parents or guardians. The distribution was made by lot, numguardians. The distribution was made by lot, num-bers being drawn from a box which corresponded with the number of one of the heffers. The heffer and her progeny then become the sole property of the boy or girl and shall be managed by their young owners with the advice of parents. Arrangements were made with the Dominion Bank to finance the pur-chasee and accept the notes of the children,

causes and accept the notes of the children.

During the coming year the youngsters will be required to keep records of the milk production of their before and prices will be given to the members making the greatest profit. The following fall an auction will be held just before the notes become due, at

which all of the cows will be sold. Members will take the money received, pay their notes with interest and keep the balance. If a member prefers, he may bid in his own cow, keep her and pay the note. Losses by death of animals are provided against by insurance. In purchasing the boys and girls gave notes for three dollars per head more than cost at point of purchase. This levy of three dollars will point or purchase. This levy of three dollars will not only pay expenses of collection and distribution, but insurance against death during the year. For their own profit the boys and girls will have not only the increased value of the heifer, but also the profit on her production and a well-bred calf.

Boys' and girls' calf clubs are now quite common, all over the United States. Now that a start has been made in Canada, it is probable that the fide will be pushed vigorously by the district representa-tives. The organizers of the movement in Peel Cou-lives. The organizers of the movement in Peel Coutives. The organizers of the movement in Peel County hope to greatly extend the calf club idea another year and it is possible that hereafter a much larger proportion of the calves distributed will be pure-bred.

#### The Future of Farming Will the Small Farm Disappear?

N his book, "The Lure of the Land," Dr. Harvey W. Wiley discusses the question, "Is the small farmer to disappear?" and in concluding this discussion he

a to disappear?" and in concluding this discussion he gives voice to these prophetic words: "My hope is that there may be developed in this country millions of land owners, v.ho have a personal interest in the body of land on which they live, who



fhe Grand Champion of Her Breed at the Central Canada Exhibition. Jessie Grace Keyes, exhibited at Ottawa by Cummings and Gosselin, was first in the dry cow class and also secured the female grand championship. She is a targe cow, of good type and was shown in excellent fit.

care for it as they would care for their horse or their child, who take a delight in the fertility of the fields and know the methods of maintaining it, who are not ambitious for high social or political preferment, but are ambitious to lead clean, wholesome and useful lives of industry, and who in the association of their neighbors and friends, may no longer be isolated, but may have, in enduring the toil of the farmer, the privileges of social advancement and association

"And yet this vision, which it seems to me would be the ideal one of the future, is clouded with that other mist of the landed proprietor, with his hum-dreds or thousands of acros, with his huge machines for plowing and cultivating and harvesting, living perfor plowing and cultivating and harvesting, living perhaps in a palace, and surround " with the huts of peasants, men who have no interest whatever in the soil itself, but who live simply to have enough to eat and something to wear. There may be a few middlemen by means of which these two conditions may partly coalesce, but to my mind the tendency is

either one way or the other.

"Farming, then, will not only become a science but a business, as clearly defined as manufacturing or distribution, and there will be farmer princes and cap-tains of industry, as there are to-day in manufactur-

ing, distribution and banking.
"This is the most serious question of all: Does
the future afford no promise for the farm laborer?"

The per cent of fat shown by seven-day records gives very little, if any, basis for estimating the average richness of the milk which a cow will produce throughout the year. For example, a cow owned by the University of Missourt Colego of Agriculture made a seven-day record showing 5.4 per cent, while her average for the year was 25 per cent. Numerous examples of similar results have been shown by figures published by breed avsociations—Missouri News Builetin.

#### What of the Bull's Dam ?

Cap Rouge Experience Proves Her Importance

Normuch headway can be made in breeding up a dairy herd if the dam of the bull is not a good miker. This is now a well known fact and very high prices have lately been paid for bulls out

of heavy producing cows.

At the Car Rouge Experimental Station a very fine French-Capadian bull, which will be called Z, was bought a few years ago, one that would easily have won championship honors at any exhibition in Canada won championship honors at any exhibition in Canada equainst all comers. Moreover, this bull, according to ordinary standards, was of a conformation which induced one to believe that he was of a heavy miking strain and would produce good heifers. But, unfortunately, such was not the case and he did not leave a single heifer which was worth keeping as a milk

Cow A, to the service of another bull, produced a daughter which later qualified for Record of Per-formance with 7,794 pounds of milk, whilst to the service of Z, she gave a helfer which never gave 15 pounds of milk per day during her first lactation

period.

Cow B qualified for Record of Performance as a three-year-old with 5,332 pounds of mik, gave 4,824 pounds during her first period of lactation and averaged 6,117 during her first five years in mik. Her daughter, by Z. gave only 3,040 pounds during her first period of lactation.

Cow C was out of a dam which qualified for Record of Performance with of Performance with 9,747 pounds of milk, but herself failed to qualify, though tried two different years. She gave only 3,297 pounds during her first period of lactation and her daughter, by Z, only gave 2.800 pounds during her first period of lactation

Cow D qualified for Secord of Performance with 8,358 pounds of milk and her daughter, by Z. only gave 2.776 unds during her first

lactation period.

Cow E qualified for
Record of Performance as a two-year-old with 4,547 pounds of milk and as a threeyear-old with her daughter, by Z, only averaged 2,731 pounds during the first two periods of lactation.

Cow F is the dam of a cow which gave 10,-229 pounds of milk in 365 days, and her daughter, by Z, only

gave 2,401 pounds during her first lactation period. gave 2,401 pounds during her first lactation period. Cow G averaged 5,271 pounds during four lactacap periods, going up to 6,224 in one of them, and her daughter, by Z, only gave 2,947 pounds during her first 365 days in milk.

The cost of barn room, care, feed, has gone up faster than the price of milk, so that every dairy farmer must see that he does not use a bull like Z.

#### Finding New Ways

A LL the worth-while improvements that have been made within recent years in the applications of electricity, in the improving of the steam engine or the treatment of steel and other metals have on the treatment of steel and other metals have on the treatment of steel and other metals in the steam of th

want practical men." Such remarks merely advertised the ignorance of the men making them.

This has been particularly true with respect to agricultural machinery. Till the present time its development has been entirely empirical—that is, by the cut-end-try method. There never has been any careful study of underlying principles, and in consequence literally hundreds of badly designed machines have been offered to the public. Just consider the plow, for example. Men have been making plows of one sort or another for thousands of years. Our present types of plow shares are nearly old years old, but so far no scientific study has yet been undertaken to determine whether they are the best that can be devised for the purpose. The development of farm machinery has been empirical, in the hands of practical mechanics, and they have done yed, but they have gone just as far as they very well, but they have gone just as far as they can go. The next step in the development of farm machinery roust be made by careful scientific methods.—Country Gentleman.





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#### FEEDERS CORNER

Wintering Dairy Heifers

R. HUNT, of the Virginia Agri-cultural Experiment Station, has just concluded an experi-ment covering three years, testing the merit of different feeds for the wintering of dairy heifers. His conclusion as to the merit of corn ensile age as the only roughage is interest His work is summarized as

Daley heifers may be carried through the first and second winters on corn silage as a roughage when suitable amounts of concentrates are added to the ration. The heifers winter as well on silage as on clover hay and at smaller cost.

"The following are the maximu amounts of corn silage that should be fed per day to heifers: 20 pounds of silage for a 275-pound heifer; 25 pounds of silage for a 425-pound heifer: 30 pounds of silage for a 650 nound helfer

"Dairy heifers may be profitably wintered on corn silage without any additional roughage when supple. nented with a good protein concen-

trate that is not too bulky.
"Dairy heifers should gain at leas one pound per head per day during the first and second winters."

In one respect Mr. Hunt's concluvary from those of most other investigators, in that he endorses cottonseed meal, which he says makes an excellent concentrate to supplement corn silage for wintering dairy heifers." He found that this meal is not too constipative when fed corn ensilage. was found to be very palatable, slight ly laxative, but not too laxative, and is one of the best conditioning con-centrates. Wheat bran was the least satisfactory of any of the concentrates tested and should not be used as a oncentrate to supplement corn silagé for wintering dairy heifers. It is too bulky. In considering these conclusions as to amount to feed it is well to remember that Virginia has a mild climate compared with most sections of Canada, and larger rations might be necessary here for helfers of the same age.

#### Cottonseed Cake or Barley

N order to determine whether cottonseed cake or barley is hest to add to a beef-producing ration of corn silage, Colorado Experiment Station placed two lots of ten steers each on feed March 6, 1918, and fed 126 days," says T. E. Leiper, of the Colorado Agricultural College.

Lot No. 1 was fed as follows: 22.96

lbs. of corn silage, 2.99 lbs. cotton-seed cake, 3.88 lbs. sugar beet mo-lasses, and 9.35 lbs. of alfalfa at a cost of \$13.93 per hundred pounds The average initial weight was 839.2 pounds and cost \$90.21 per head. They gained 1.931 pounds per head per day, making a final weight of 1,082.6 pounds. The average cost of feed per head was \$33.91 making a total cost of steer and feed of \$124.12 They brought \$16.25 or \$165.39 per head and returned a margin of \$41.27 of steer. They shrank in transit of 13 hours on cars 5.9 per cent and dressed 59.5 per cent.

sed 59.5 per cent.

Lot No. 2 was fed 21.02 pounds
corn silage, 3.20 pounds molasses, 5.77
pounds barley and 8.51 pounds of
affalfa at a cost of \$15.76 per hundred
pounds gain. The average initial weight was 827.8 pounds and cost \$88.99 per head. A gain of 1.85 pounds per head per day was made, making the final weight of 1,060.9 The average cost of feed per pounds. head was \$36.74, making a total cost of steer and feed of \$125.73. These were sold for \$16.00 per hundred or \$161.07 per head and returned a mac-gin of \$35.34 over the cost of feed and initial cost of steer. They shrank in transit 5.1 per cent and dressed 59.8 non cont

'wo pounds of barley were required to give the same gain as one pound of cake. The addition of cottonseed cake increased the rate of gain, cheapened the cost per 100 pounds cheapened the cost per 100 pounds gain by \$1.83 and returned a greater margin by \$5.93. "We need the bar-ley for flour anyway!" adds the re-

#### Benefits of Silage Feeding

ILAGE is much relished by stock especially by cattle and sheep. It is palatable, cheap and succulent, thins and cools the blood, imand hair, tones up the digestive sys Breeding females are put any. Breeding females are put in good condition for producing healthy offspring, and after parturition at a better able to give plenty of milk than when on a totally dry ration. To a large extent it is a preventative of di gestive troubles, and with dairy cows of milk fever and garget. Silage-fed steers bring from 20 to 50 cents per hundred more than steers fed roughages, owing to the better finish and quality

Silage, while a first class feed should be considered only as a rough age containing a relatively small amount of dry matter. The real value of silage lies in the low cost at which it can be produced rather than in any high feeding value per ton. think when silage has considerable grain in it that no concentrate feeds are necessary when silage is fed. This is a mistake, as stock are better able to make use of grain feed when getting silage than when fed dry rough-While silage may be fed without roughage in addition, it is better for winter feeding to let stock have some dry fodder, such as hay, corn in addition to silage.-C. I. Bray.

#### SHEEP AND SWINE

Supplementing Corn is Profitable

ORN is becoming more and more the principal hog feed large section of south-western Ontario. Experiments by W. L. Robinson at the Ohio Experiment Station, to test the efficiency of corn as an exclusive ration compared with corn and supplements are, therefore, of interest to Canadian readers. His results show that farmers may produce from one-fourth to one-half more pork from a bushel of corn if proper supplements are fed.

Eighty-pound pigs fed on corn alone in dry lot returned a little more than nine pounds of pork for each bushel of corn fed; a similar lot of pigs, however, when given 5.5 pounds of tankreturned 13 pounds of pork for each bushel of corn with tankage. The pigs fed on corn alone gained a little more than one-half pound per day while the tankage-fed swine gained than one pound per day.

When skimmilk was used as the protein-feed even more profitable gains were secured, although younger pigs were used in the experiment. In this case 21 pounds of pork were produced from each bushel of corn when 168 pounds of skimmilk was frd with it. Comparative tests with the skimmilk-fed hogs show a return of only a little more than 11 pounds of pork to the bushel when corn alone was fed

Rations which may be more profit-ably used than corn alone for hogs tankage on are: corn nine parts, tankage one part; corn five parts, linseed oilmeal one part; corn one part, skimmük three parts. Green pasture crops are comparatively high in protein, in



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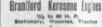
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Starting

HIS is a for thos to bu broading It to nurchase e than it is Many farm with lambs,

them too lon It is not nece ewe lamb t nermanently 1 permanently | the present property | 15 lbs. and cordip next spring which, at 70 worth \$3.50, original involved have at more for bree average ewe h It is true, of which nossibly against ft. but mount of rot Ontario farms sary to exact a

Mony farme keep one sheep tle their nastm tle additional e be convinced o emontly increas of them might and it would 1 own benefit an

Fall Plowing N case the so was experien ing corn, for in often wonders w in such land. ( wheat, clover as erains and field ess and are al same rotation s plowed up troul wireworms are to one of the sm clover and corn be observed. Co wireworms is a the numbers ar mum by crop re

Beside the accontrol, with las are destroyed a given time to s subsoil and to es grains thrive be tablishes so well relieves the am time and helps age problem oc. to pulverize the spring and to early start,-Ma

When You The motorist Boston's streets

man approached "Sir," said he ceased its funct "What?" gas "Your illuming

ed in unmitigat don't quite-"The effulgen "My dear felle

"The transvers in your incande continued." Just then a l

over and said: "Say, mister, y which corn is deficient, and may be plant the use of some nitrogenous con contrate

#### Starting With Ewe Lambs

HIS is a good time of the year for those intending to keep a small flock of sheep on their on their small flock of sheep on their farms to buy up young lambs for breeding. It is often more difficult to purchase good breeders of maturer age than it is to purchase good lambs.

which possibly should be charged up against it, but since there is a large nount of rough forage about most amount of rough forage about most Ontario farms, it seems hardly neces-sary to exact a heavy feed bill. Many farmers find it possible to keep one sheep for each head of cat-

8,

tle their pasture will carry at but lit-tle additional expense. If they could be convinced of the actual need of a be convinced of the actual need of a greatly increased wool supply, many of them might adopt such a practice and it would be very much to their own benefit and an assistance to the country.-S. A. F.

#### Fall Plowing and Insect Control

N case the soil is known to be in fested with wireworms and trouble was experienced this year in growing corn, for instance, the cultivator often wonders what crop he may plant in such land. Oats, barley, rye, ?:uck-wheat, clover and other similar small grains and field crops seem to suffer less and are always included in the same rotation system with corn. the same way, when meadow land is plowed up trouble may be avoided if wireworms are abundant by planting to one of the small grains followed by clover and corn when less injury will be observed. Complete eradication of wireworms is almost impossible, but the numbers are reduced to a mini-mum by crop rotation.

Beside the advantages of insect control, with late fall plowing weeds are destroyed and the furrow-slice is given time to sattle down against the subsoil and to establish good capillary subsoil and to establish good capillary connections for moisture. Small grains thrive better on a fairly conjuct seed-bed which fail plowing establishes so well. Fail plowing also relieves the spring rush at seeding time and helps solve the labor shortage problem occurring at that time.
And, after all, the climate compels us and, after an, the climate compens us to pulverize the seed-bed well in the spring and to give the plants an early start.—Maine Agricultural Sta-

When You Motor In Boston.

The motorist was a stranger in loston's streets. It was evening. A Boston's streets man approached.

"Sir," said he, "your beacon has ceased its functions "What?" gasped the astonished

"Your illuminator, I say, is shrouded in unmitigated oblivion." "I don't quite-

"The effulgence of your tradiator

"My dear fellow, I——"
"The transversal ether oscillations in your incandenses have been discontinued."

Just then a little newsboy came ever and said: "Bay, mister, yer lamp's out!"

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#### Orchard and Garden

The Storage of Potatoes

HE following suggestions regard ing the storage of potatoes, if followed carefully, will practically eliminate the losses from decay

1. Spray your potatoes frequently and carefully during the summer with Bordeaux mixture.

2. Delay digging your potatoes, if ossible, until the tops are dead and

Do not cover potatoes, after they are dug, with the tops, even to pro-tect them from sun or frost. Tops

4. Carefully examine all potatoes to be stored, and remove immature, broken, cracked, chipped, sun-bitten, 5. Never store your potatoes while

6. Have the tubers free from dirt. If dirty, the soil fills up the spaces between the tubers and prevents the circulation of air.

7. Provide a dry cellar with abund-

ant ventilation, where the tempera-ture can be between 34 and 40 dy-

8. Keep the storage room as cool as possible directly after the product is

stored. 9 Fill your bins gradually; by so doing, the potatoes that are put in first have lost their heat before they are covered by another layer.

10. Carefully sort your stored nota toes at intervals during storage, and remove all tubers showing signs of disease or decay.

Plant a few daffodils, tulips and hyacintha in nots for spring blooms

The Canadian Fruit Crop

THE Dominion Department of Agriculture has just issued a report for October in which they have summarized the conditions throughout

summarized the conditions throughout Canada which are as follows: The situation in Canada at the time of writing is better than a month ago, of writing is better than a month ago, despite the extremely unfavorable weather conditions which have prevailed in Ontario, Quebec and the Maritime Provinces. All parts of Ona satisfactory developtario report a satisfactory develop-ment of fruit, particularly in regard to size and quality. There are, of course, a number of orchards which have been neglected to a greater or less extent, ever since the outbreak of the war, ever since the outbreak of the war, and in these the crop this year is of low grade; but in those orchards which have received proper care, the results of thorough spraying are much evidence. We therefore anticipate a hetter crop of apples in Ontario, both

as regards quality and quantity than was reported in our last report. In British Columbia, the total output will British Columbia, the total output will be approximately the same as last year; there is a lighter crop in the Okanagan, but this is balanced by a considerable increase in the Kootenay Valley. Size and quality are excellent. In Nova Scotia the crop now promises to be cleaner than was indicated early to be cleaner than was indicated earlier. There is apparently no tendency towards speculation and it is to cohoped that the crop wil! move cut steadily with no undue inflation of prices or holding of stock. The fruit is of excellent size and much of the mestic. The total crop will reach somewhere around 400.000 bbls. In somewhere around 400,000 bbis. In Prince Edward Island the crop of Wealthies and Wagners is good, but the total crop will only run about 65

per cent of last year. ium. There has been a heavy crop in couver island and the lower mainland. show an increase of 15 per cent over last year, the Okanagan Valley a 40 per cent increase, and the Kootenay Valiey a 30 per cent increase. The quality and size are exceptionally good in all the districts

in all the districts.

The crop of grapes in Niagara is not as good as was anticipated, and it is doubtful if it will exceed 60 per cent of an average yield. In fact, most vineyards are running below 50

Fall Care of Bush Fruits

OW many farmers' tables are ith an adequate mall fruits, notwith-with which they can amount standing the be grown? It is not an uncommon thing to see a farmer buying straw is not an uncommon her small fruits in town home and treated as a to be luxues produce all that his family will need.

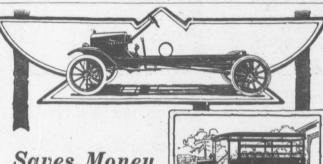
A few hours work in the fall before
the frost hardens the ground, would very materially increase the quality and yield of many home bush fruit

The bushes of currents and goose-berries, also raspberries, are the better of being pruned immediately after bearing, but in case they have not, it will be wise to remove all dead wood now. No pruning of live canes should be attempted late in the fall. Bush fruits respond to fall cultivation as readily as any other farm crop. Taxe a plow and go through the rows and fall plow the land between the bushes. Plow five to six inches deep in the centre of the rows, gradually getting shallower as you approach the bushes. Too deep cultivation will injure the surface roots. The plot may be man-ured in the fall, or in the spring and plowed under. When put on in the fall plowed under. When put on in the fail and applied around the base of the plants, # will afford considerable pro-tection during the severe winter weather. In some parts of the cou-try, winter protection for the ram-berries would yield splendid results. It is not difficult and takes but little time. It is done by bending down the time. It is done by bending down its canes and placing a little soil on the tips. If a little earth is removed on one side of the canes, cher can be best over without breaking. Sometimes they are entirely covered up with a mulch of some kind, but this is hardly necezsary as the snow will lodge against the bushes, finally covering

#### Doing It Up Right.

A colored woman recently lost her son, and she immediately swathed herself in black, even to the extent of buying, at quite as exponses for her, black underwear. "Ien't that overdoing it a little,

Ellen,", asked her mistrees—"weating black underwear?"
"No, ma'am; no, ma'am," said the bereaved mother. "When Ah mourne, Ah mourns clear through."



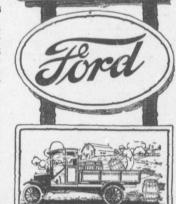
## Saves Money For The Farmer

PRICES of farm products have reached a high level. The farmer can take full advantage of this situation only by adding to his equipment of time and labor-saving machinery. Time and labor are money. When time and labor are saved, money is saved.

Time and labor-saving devices for working the land do not produce complete results in themselves. The farmer must have rapid and dependable means of placing his products on the market.

The Ford One-Ton Truck will make trips to town so much more quickly than the horse that you will have many extra hours of time to devote to productive work. A large number of farmers have proven the Ford One-Ton Truck to be a time and money-saver-have you?

Price (chassis only) \$750 F. O. B. Ford, Ontario



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FORD MOTOR COMPANY OF CANADA. LIMITED FORD ONTARIO

Value INSEED cent pro fat, mak

a . nutritions try mash. the fall or d tor flaxsped subjected to painters' oil is ground to ing some oil genous eleme healthful food Eed in the

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Being of a over amount of looseness to young stoc will regulate It is claime spoonful is a sufficient quan of about 1 to seed to ten meal, wheat The writer ha by feeding it nounds to on ground grain a being 15 per daily, the year

mash mash.

Ducklings ting May or Juprofit. Those bigger price The best se ens are June.

the demand for and Christmas Turkey diet beneficial to pacidity of the often caused

Abo OOSE fer G are apt

best to wash t using plenty o ammonia to a rinse and dry. White duck 37 to 39 cents : about 17 to 23 About ten make a pound

The goose fe spread in some they should b fork every few dried. If pla steamed they them, removing they naturally requires

make a pound The average It is estimat ion of p 15,000,000 pour In the "fea pounds of filth

from every 10 Five average the

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#### Value of Linseed Meal

INSEED meal contains 30.9 per cent protein, and three per cent a nutritious ingredient for the poul-try mash. It is especially valuable in

the fall or during the molting period.

Linseed meal is the residue left after flaxseed has been crushed and subjected to extreme pressure to re guspected to extreme pressure to re-move the well-known linseed or painters' oil. The cake that is left is ground to fine meal, and, contain-ing some oil and being rich in nitro-

ing some oil and being rich in nitro-genous elements, it forms a rich and healthful food for poultry.

Fed in the fall of the year it acts as a bracing tonic, largely assisting the dropping of oid feathers and growing the new. Its analysis comes near that of meat.

near that of meat.

Being of a very fattening nature, it
must not be fed too strongly. An
over amount is apt to bring on cases
of looseness of the bowels, especially of looseness of the bowels, especially to young stock, while properly fed it will regulate the bowels and keep the stock in a healthful condition.

stock in a healthful condition.

It is claimed by some that a teaspoonful is a good allowance for a hear; others say a quart of linseed is sufficient quantity to mix with half a bushel of meal and bran; and some others recommend it in the proportion of about 1 to 10—that is, one part linseed to ten parts mixture of commeal, wheat bran and ground out. The writer has obtained best results by feeding it in proportion of five pounds to one hundred pounds of ground grain and meat (the meat part being 15 per cent). This is given daily, the year around, as a morning

Ducklings that are marketed dur-ing May or June command the most Those marketed earlier fetch a bigger price, but it costs more to

The best selling months for chickens are June, July and August, but ens are June, July and August, but the demand for old hens is greatest in September. Michaelmas for geese and Christmas for turkeys.

Turkey diet is considered especially beneficial to persons troubled with acidity of the stomach, a condition often caused by an excessive beef

#### About Feathers

OOSE feathers being more oily Garage apt to sooner turn rancid than chicken feathers. It is best to wash them well in hot water, using plenty of soap, and a cupful of ammonia to a barrel of water. Then rinse and dry. White duck feathers sell at about

37 to 39 cents per pound; colored ones about 17 to 23 cents.

About ten ducks are required to make a pound of feathers.

The goose feathers are treated gen-erally in this manner: After being spread in some clean, dry, airy place, spread in some clean, dry, airy place, they should be turned over with a fork every few days until thoroughly dried. If placed in bags and well steamed they are more valuable, as the steam has a tendency to purify them, removing much of the oily odor they naturally have.
It requires about four geese to

make a pound of feathers.

The average life of feathers in pillows is said to be about 20 years. It is estimated that the annual conon of poultry feathers exceeds

In the "feather foundries," ten pounds of filth and dirt are removed from every 100 pounds of feathers. Five averaged sized fowls will yield a pound of feathers.

Goose feathers range from 60 cents a pound for white, to 50 cents for

The best time to market feathers is late in fall, during the winter, and early in spring.

Dry-picked turkey feathers comthan scalded ones.

#### Barley as a Poultry Feed

Barley as a Poultry Feed

Barley as a present prices is just about the cheapest food on the market. If barley could be substituted, in part at least, for the corn and oat ration for poultry, it should effect a considerable saving, providing it does not interfere materially with the egg yield. About a year ago now I was chatting with Prof. W. R. Grahum, of the Ontario Agricultural College, and he spoke favorably of barley as a feed for poultry, referring to its use in California. In reply to a recent letter, Prof. Graham speaks of recent letter, Prof. Graham speaks of barley in the following terms:

"I saw them using rolled barley in "I saw them using rolled barley in California just the same as we would use rolled oats here and they were, apparently, getting good results from it. I have not had any personal ex-perience in feeding barley to hens ex-cept belied along with vegetables and cept boiled along with vegetables and meat. You are well aware that birds do not care for barley in the ordinary state, but I think rolled or cooked it would give very good results."

would give very good results.

If present prices continue, it might
pay to experiment some with barley.
As Prof. Graham suggests, it could be led along with other feeds, but fed as a grain it certainly should be rolled, as rolled barley is more pala-table to any kind of stock than the whole grain and the pullets are then absolved from the necessity of eating the bulle Have any Farm and Dairy readers had experience with barley as a poultry food?—F. E. E.

#### It Pays to Finish Poultry

VEN with the present high price of feed no one can afford to but of feed no one can afford to but of but and especially cockerels, in a thin condition. The good prices naukry meat more than in a tain condition, the good prices received for poultry meat more than pay for the extra feed, and if there ever was a time when birds should be finished, it is now,

be finished, it is now.

As a war measure the marketing of thin chickens should be prohibited.

The most expensive part of the bird to produce and that which is of the least value for food is the frame. The least value for food is the frame. The cheapest weight for the feed fed is the flesh as it is all edible, the necessity of putting this flesh on is evi-

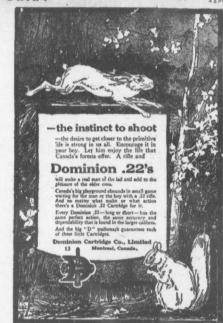
The most profitable weight at which to finish cockerels is when they weigh about four pounds, but even earlier birds may be fed with profit, as several experiments conducted at the Experimental Farm this summer go to prove.

Poultry meat of all kinds has been a good price. Hens have been selling as high as roasters and broilers have paid well. Leghorn cockerels at the Experimental Farm have been sold at about two pounds each, and be-cause of being specially finished on malk, brought good returns and paid well for extra feed. Four different lots marketed in August, 152 birds, lots marketed in August, 102 birds, weighed 280 pounds. They were fed for about 10 days during which time they gained 60 pounds, weighing at the end of the feeding period 340 pounds. They consumed 180 pounds of mash and 24 gallons of buttermilk. The mash was composed of two parts corn-meal, one part middlings, and

one part buckwheat screenings.

The cost of feed was 180 lbs. at four cents a pound, or \$7.20; and 24 gallens cents a pound, or \$7.20; and 24 gailens milk at five cents a gailon or \$1.20, making a total of \$8.40 for feed and milk. Add to this the value of the birds at the start, 280 pounds of thin chickens that would bring 35 cents a pound, \$98, and it makes a total cost for thin chickens and feed of \$18.60.

The weight of the finished chicks





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Farm and Dairy stands foursquare against everything that is detrimental to the farmers' interests, and whatever appears either advertising or editorial, is guaranteed reliable.

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# Wasting Cream Profits

NINE out of ten dairy farmers are actually throwing away \$20.00 per cow pay year They are doing it by using wasteful, inferior cream separators—or, even worse, by clinging to the old-dashloned graytly, sindlow-pan model of separation. Stop this cream waste at onco on your farm,

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Antonia in management of the contract of the c

was 340 pounds, having gained 60 pounds in the 10 days feeding. The value per pound was increased because of the quality of the fiesh to 50c per pound, making the total value of the birds \$170.

This meant a revenue of \$54 for the care of 152 birds for less than two weeks. It also showed that for every pound increase on the birds it took three pounds of mash and four pounds of milk or an average cost of 14 cents per pound of gain.

#### Tractor Questions

As asked by the Department of Agriculture of the United States and anewered by Manufacturers of Farm Tractors.

Tractors for Belt Power

Why should the farmer consider the adaptability of a tractor to do belt work, and what effect will belt work have on size and type of tractor he

BOUT one-third of the work required of a tractor on the farm is belt work, and in the purchase of a tractor the farmer should carefully consider the size of his farm, the character of the work, and ot the size tractor that will enable him to most economically per-form that work upon the basis that the larger tractor for the larger farm enables one operator to do much more work, and he should also consider the belt driven machinery that his farm requires and also any that he may have on hand already for which he intends the tractor to furnish belt power.-Avery Co.

Nearly every farmer needs belt power for such operations as hay baling, threshing, silo filling, etc., and farmers are rapidly purchasing their own machines for these purposes. In purchasing a tractor its belt power should be ample to drive such machines to their full capacity and still have ample reserve to meet unusual conditions.—Advance-Rumely Thresher Co., Inc.

OVERNMENT statistics show that 50 per cent of all the work done on the farms with tractors is done on the belt and 33 1-3 per cent plowing. Plowing percentage will decrease as other farm work for which tractors are well adapted is developed. but do not think the 50 per cent belt percentage will ever decrease. Therefore, care should be taken to purchase a tractor that is highly efficient on the belt.—Elgin Tractor Corporation.

For the operation of feed grinders, ensilage cutters, small threshing ma chines, etc., tractors having a calling, etc., traxors having a beit power rating of 20 to 25 h.p. will best meet the requirements and in deter-mining the size of tractor to be pur-chased the belt power requirements should receive careful consideration. Emerson-Brantingham Co.

Belt work is very important for running of ensilage cutters, small grain threshers, feed grinders or corn shellers. The power necessary to pull three plows is about right for these belt demands .- Hart-Parr Co.

THE government is responsible for the statement that practically 50 per cent of the time that the average tractor on the farm is in use is for belt work. The tendency at the is for belt work. The tendency at the present is toward more belt driven machines on the average farm. This is evidenced by the fact that thousands of farmere are building siles and like numbers are buying small threshing outfits. The time of the large threshing outfits beems to be past and the small rigs are taking their places. The adaptability of a tractor to do belt work should determine very largely the type of tractor to buy. a tractor is not well adapted to belt work, it will not be of maximum service to the average farmer. As belt work and drawbar work, according to work and drawfar work, according to government figures, are divided nearly equal on the average farm, a tractor that is not well suited for belt work could not at the best be of greater than 50 per cent of service to the average farmer. The more belt work a farmer has for a tractor in addition to the field work, the greater the number of days the tractor will be used. This will result in the tractor being more economical. In other words, overhead expense will be spread over more days service.-International Harvester

A farmer should seriously consider the ability of a tractor to do belt work when he is making the purchase. The reasons for this are obvious, since it is clearly seen that the farmer who is resourceful enough to discover various uses for a tractor will be able to get a great many more days' work out of it, and it will not have to stand idle except when there is drawbar work to do. We believe that 25 h.p. at the belt is the minimum that a farmer should consider in his pur-

THE man who said there were two sides to were two sides to every question had never heard of Victory Bonds. The ques-tion, "Should I buy Victory Bonds?" admits of only one an-swer. It is "Yes." The man The queswho would argue to the contrary is either a traitor or a lunation There are only two places where he is fit to abide. The one is a jail; the other is an insane asylum The patriotic argument is con-

clusive. If you believe that Germany deserves to win; if you think our soldiers should not fight; if you hold that we have no business in the war; then you will not buy Victory Bonds.

The economic argument is conclusive also. If you hope to see Canada wrecked; if you would have liked to see her resources handed over to Hun exsources nanded over to hun ex-ploiters; if you wish to see her future efforts crippled; then you will not buy Victory Bonds.

If you decide against Victory Bonds you set your face against patriotism, prosperky and progress. But if you are a loyal Canadian YOU WILL BUY VICTORY BONDS. There will be no other side of the question for you.

chase. It takes practically 25 h.p. to bandle the smallest separators which are being used.—Minneapolis Steel & Machinery Co.

TRACTOR with 18 h.p. on the belt will handle any power driv-en machinery that can be used economically on the average farm.

The farmer should consider the ability of the tractor to do belt work as this is of great importance for the reason that if the tractor should not handle the average belt driven machinery successfully, other gas engines would have to be bought that would easily equal at least onehalf of the price of the tractor.—Moline Plow Co.

We do not think it advisable for a farmer to buy a large traction engine simply because he has a large old style threshing machine. It would be more advisable for him to dispose of his threshing machine that required larger power and purchase a machine that would take less men and less power, which would be more adapted to the work that he has for it and could be operated by a medium sized tractor. Again we have found by experience that a three plow tractor will have from 25 to 30 horse power on the belt, which is a very good average horse power requirement.—Wallis Tractor Co.

#### Notes, Queries and Answers

#### Road Through Property

I S it lawful for one man to stop and from crossing over his farm where road has been open for over 30 y for use as a winter road? It is the bush where no harm can be donot even a tree having to be cut dow J. B. O., Muskoka District, Ont.

Where a road has been opened through property and has been ac-tually enjoyed by any person claiming a right thereto, without interrup-tion, for a full period of 20 years, their right to cross property cannot be interfered with by the present owner, unless their right has been en joyed by some consent or agreement joyed by some consent or agreement expressly given or made for that pur-pose by the owner of the land by a deed or writing.

#### Lice on Colt

HAVE a colt four years old which has considerable lice on it and have to a considerable lice on it and have to did me to have it clipped. Others have advised me not to clip it as they asy the hair grows in long and you have to repeat clipping. Please lot me know its best remedy to use.—R. A. H. Colchetter Co., N.S.

By all means clip him, and then wash with a warm 5 per cent solution of one of the coal tar antiseptics. Repeat the washing every ten days until fresh vermin cease to hatch. Clipping horses has no effect in causing the hair to grow long or coarse.

#### Infectious Ophthalmia

HAVE been having trouble with my sheep. They apparently go blind and run considerable at the ness. Kindly advise what can be done."—C. B., York Co., Ont.

This is infectious ophthalmia Isolata This is infectious ophthalmia Isolate the diseased in a building excluded from drafts and strong sunlight. Purge each with four ounces Epson saits. Get a lotion made of ten grams sulphate of zinc, twenty drops fluid extract of belladonna, and two ounces distilled water. Bathe the eyes well three times daily with hot water, and after bathing put a few drops of the lotion into each.

#### Worms

HAVE a mare loaded with worms. It don't seem that I can get anything is clean her out. She has pin worms and I have seen her pass them about eight inches long. Is there anything I can give her?—J. A. B.

Mix three ounces each of sulphate of copper, sulphate of iron and tartar emetic, and make into 24 powders. Give her a powder twice daily, and in about twelve hours after the last one has been taken give her a purgative of eight drachms aloes and one drachm of ginger.

#### Mammitis

B have a cow which gives thick milk from one teat. Sometimes to their lit closs and at other times it is just like water. The milk that comes out of that teat is very hot. Please let me know if anything can be done.—J. P. E., Pontiac Co., Qat.

This is due to inflammation of the quarter. Give her a laxative of one and a half pants raw linseed oil and follow up with four drams nitrate of potassium twice daily for three days. Bathe the udder well three or four times daily with hot water, and after bathing rub well with hot camphorated oil, and milk the quarter four I HAVE and he for two up all rigalime combangs low ing.—M. S. Give he four dram pared chi add to he of its bu the lime chacked.

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They must The great Other food etftutes to tions, have in like man grains (and cluded hay position in be beef, por fluctuates, t scale, but, relative por wages, has

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#### Diarrhoea

Diarrhoca

JiaAVB a sick cow. She has diarrhoca
and has not been eating or drinking
for two daw. She lies down and gets
dime comes out of grides her teeth and
hangs low and her eyes appear dead looklag.—84. Sh. Astigenish Co., N. S.
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lime water for a considerable
time after the diarrhoca has been
checked. If her appetite does not
improve give her a heaped tablespoon three times daily of equal parts spoon three times daily of equal parts powdered sulphate of iron, gentian, ginger and nux vomica.

#### Claim on Sheep

W JEEN a woman is given six sheep and in the course of four years three of them die, what diam would she have on a flock of 16, seven years later?—Subscriber, York Co., M.B.

Where a person is given six sheep, that person is entitled to all the na-tural increase, but what the increase

#### **FARM CHATS**

#### Wheat and Wages

H. Percy Blanchard, Hants Co., N.S.

F we ask the man on the street why it is that wages to-day are so high, he in all probability will reply that the value of gold has fallen. He may point out that the opening of the Klonpoint out that the opening of the klon-dyke has vasity increased the gold supply, and that gold mining ma-chinery has largely reduced the ex-pense of production. In perplexity we complain that the same thing holds good as to silver. Its production has increased and machine the increased, and machinery for its reduction has in similar fashion affected duction has in eliminar tassion ampeter in cost. And yet, to-day, silver in double the value it was in the old 16-to-l days. And as to gold; while as a monetary standard its value is fixed at about \$20 an ounce, gold bullon is quoted as worth \$40.

After all is said and done, it is not the gold miner that in reality sets the

wage scale, but the humble farmer.

That they may work, men must live.

They must have food and raiment.

The great food product is wheat.

Other food grains that serve as substitutes to a certain extent or as addi-tions, have a relative food value, and in like manner the products of these grains (and among these may be in-cluded hay and roots) also take their position in relative value, whether it be beef, pork, wool, hides, or the like. In consequence, as the price of wheat fluctuates, the prices of all these other commodities slide up or down the scale, but, in the main, keeping their relative positions.

Now, the price of labor-that is, wages, has been the sum necessary to provide the laborer with such a living provide the laborer with buch a living as rould satisfy him. An American has a certain standard of living; a Chinaman has a different one. To fill the requirements of the white fill the requirements of the white man's living standard, and which con-sists to a large extent of food and clothing, it is evident that his wages must approximate a sum sufficient to buy these commodities in quantity as demanded; in other words, the price of a day's supply of these commodities plus extras like rent, etc., is a day's wages. If this economic fact could only be seen and recognized, it might be possible to fix a sliding scale of wages based directly, and not indi-rectly, upon the value of wheat. This ald have two advantages, one of ich would be that in the times to

, when wheat will undoubtedly

fall again in price, wages would auto-matically follow; and second, that, re-cognizing this basic law, the laborer cognizing this basic law, the laborer would willingly acquises in the reduction, knowing that he was really suffering no actual but only a relative reduction. This is no small thing for consideration in the "readjustment" days ahead of us.

In the city we sometimes now see a in the city we sometimes now see a little jealousy and envy toward the farmer. The farmer is getting rich, they say. But once the city people realize that prices and wages are all in a free market relative, and rice and fall together, they will see that the price of a commodity rising is followprice of a commonity rising is islicow-ed by an equal increase in the cost of its production; and so their grounds for ill-feeling will disappear. It is not gold that rules the world, but wheat.

#### Blackleg

B LACKLEG is a disease that affects cattle. In Canada it has caused heavy loss in many sections in both dairy and beet herds. The first indication of it is depression, loss of appetite, a failure to ruminate and a thick favor. The breath sion, loss of appetite, a failure to rum-inate and a high fever. The breath-ing becomes rapid, the animal meves with difficulty and lays down often. In a few hours ewelling: appear un-der the skin, and in 12 hours the ani-mal may become paralytic. The mus-cles of the affected quarters become cless of the affected quarters become cles of the affected quarters become dark brown or black.

Gres of the antector quarters become dark brown or black.

Blackleg is caused by a germ found in the soil in some sections. These germs get through the skin by way of scratches, pricks of horns, stubble beards and penetrating foreign bodies which may puncture the skin. Cattle between six months and two years are the most susceptible. The distance has been seen that the seen seen the most susceptible. The distance has been seen that the seen seen the most susceptible and the seen seen animal to animal but the germs from the sick or dead animal get into the soil and from the soil to another animal. For this reason the dead quimial should be hurned or buried (at mal should be hurned or buried (at mal should be hurned or buried (at least six feet deep) and quick lime

THIRTY-FIFTH ANNUAL

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sprinkled over it. In case of burning it must be done thoroughly, then dis-infect thoroughly.

The cattle can be vaccinated against

blackleg. The Veterinary at Ottawa furnishes this vaccine free. Where blackleg is known to have occured all cattle should be vaccinated.—N. D. A.

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## FREE!

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The Rural Publishing Company, Ltd. PETERBORO AND TORONTO

"Read not to contradict and to confute nor to believe and take for granted, but to weigh and consider."-

#### SAVE TO BUY VICTORY BONDS.

#### Farmers in Politics

HE election last week of Beniah Bowman, the farmer's candidate in Manitoulin, has done more to give the farmers' movement a standing before the public than any one event that has happened since the organization of the United Farmers of Ontario. During the past four years the farmers' movement has been looked upon by the politicians and the city interests in Ontario as a good deal of a joke. We have been handed out the thread-bare warning that "farmers will never stick together," and have been lectured as to what we should and should not do by people who themselves knew but little concerning what they were talking about.

To all such the result of the Mankoulin election came in much the nature of a bomb-shot. The Toronto Telegram, which has lost few opportunities to attack the farmers' cause, devoted a column of editorial advice to the government and concluded by expressing the hope that Premier Hearst would be able to read the hand writing on the wall. Premier Hearst and the Toronto Globe ascribed the results largely to the Military Service Act. The Toronto News accused the Mennonites of having gone against the Government. The Toronto Star recognized that the result was a good deal in the nature of a political sensation and warned the farmers that hereafter they must expect that their movement will be taken more seriously and that they will meet with more opposition. The facts are that the Military Service Act was discussed but little during the campaign while the number of Mennonites in the constituency, according to 1911 census, was scarcely a dozen. The victory indicates that The United Farmers of Ontario are becoming a force to be reckoned with in the public affairs of the province, just as their brother farmers have been for years in Western Canada.

New Problems for Farmers

THE result of the Manitoulin election reveals clearly that the farmers' movement in Ontario is assuming a new phase. It will have the double effect of stiffening the opposition to it by politicians and of encouraging farmers to stand by it more loyally. This condition will be intensified by the fact that in North Oxford the Liberal candidate Mr. Calder, who has been elected by acclamation. is a U. F. O. member and received the endorsement of the farmers clubs in his riding. This endorsement would not have been granted to certain other candidates had they succeeded in obtaining the same nomination. Mr. Calder has accepted the platform of the United Farmers and has promised to support it in the Legislature. Thus already the united farmers have two representatives in the Ontario

Further interest is added to the situation by the fact that Mr. R. H. Halbert, the president of the United Farmers of Ontario, has received the unanimous nomination of the United Farmers Clubs in North Ontario and appears to have an excellent chance of being elected in that riding.

The success thus already achieved, with the promise of still further success in the future, brings increased opportunities for service as well as dangers to the farmers' movement. Past experience has shown that these dangers are real. As long as the farmers' movement has to struggle for its existence it is supported only by those whose loyalty to the farmers' cause cannot be questioned. - When, however, it appears to offer promise of political advancement there is a tendency for men who are more concerned about gaining political honors than they are in promoting the farmers' cause to quickly identify themselves with the movement for the purpose of gratifying their own personal ambitions. Such men may quickly wreck any cause.

#### They Set the Pace

AN we do it?" The citizens of the United States were anxiously asking themselves this question just two days before the conclusion of their great drive for a subscription of six billion dollars to the fourth Liberty Loan. There were just two days left. The loan was still two billion short of a full subscription. If the issue were to be successful it was necessary to raise \$1,000,000 a minute for every minute of the next two days. One breeder of dairy cattle, attending the National Dairy Show at Columbus, became so concerned over the apparent lagging of the loan, that he wired his bankers away back in Oregon to double his subscription. Evidently many others must have done the same, for when the two days were completed the loan was vastly oversubscribed.

The Liberty Loan drive in the United States has set the pace for the Victory Loan drive in Canada. Our \$500,000,000 objective may seem small compared with their objective of six billions, but when population and resources are considered, we have set ourselves to the greater task. In the past four years, however, we have become accustomed to shouldering great tasks and this loan will be carried through with the same spirit that we have displayed in all our other war efforts. But a word of warning may be necessary. Our first loans were subscribed very largely by financial houses. This loan, more than any other, will depend for its success on the small subscriptions of citizens in moderate circumstances.

The Morals of Protectionism

HE manufacturers of Canada have now come out openly for high tariff protection on goods of their own production. The subject is open for discussion. But while discussing the business aspects of the tariff let us not forget that it has its moral aspects as well. Away back in the earlier days of protections in the United States the Republican party lost the support of one of its most enthusiastic supporters in the person of that great Christian preacher, Henry Ward Beecher. He left his party because of its advocacy of the tariff. In a great address be explained his action as follows:

"I reject the doctrine of 'protection,' as opposed not "I reject the doctrine of 'protection,' as opposed not only to the principles of liberty but to the essential principles of Christianity. I regard it as in its very essence anti-Christian and immoral. And the fact that such theories as have been advanced by the high protectionists have found so much favor in this The fundamental dootrine of Christianity is that all men are brothren. The fundamental doctrine of protectionism is that all men are not brethren. Christransity teaches that all men, in all parts of the world, should love each other. Protectionism teacher that all men on one side of an imaginary line should te, or at least disregard, all who live on the other side of that line. Not only so, but protectionism teaches Christians to have their fellow-Christians teaches Christians to have unear realow-Christian more than they do the pageans. We do not build up our tariff against heathen countries. Our Congress-men are not specially concerned to keep out the pr-ducts of Africa. It is against Christian countries that all the energy of protectionism is directed. And England the country which is most like our tters of religion, being all Christian and mainly Protestant, is the very country which our protection. Protestant Christians in America hate the most and strive to injure the most. We send missionaries and strive to figure the most. We send missionaries abroad to convert pagans into Obristians and teach them the arts of civilized life. And then, the moment the missionaries have, with infinite pains, taught the converted pages to make anything fit to soul to this market, we hasten to build up a high tariff wall to keep it out. Our country was a large exporter of religion, sent militions of dollars to heathen contries to instil the principles of Christianity into the

Henry Ward Beecher's great indictment of the protective tariff as morally wrong stands as true to day as when his words were uttered.

"Soldiers and the Soil"

F VENING paper, sir." We were on our way back from the National Dairy Show at Columbus, Ohio, and in exchange for two small American coppers we secured a copy of The Detroit Journal. We read the war news and turned to the editorial page, hoping for more light on the United States attitude toward the great problems of the day. The first editorial to attract our attention was one headed "Soldiers and the Soil." The editor at mitted the seeming indisposition of returned men to take up farming, but expressed his settled conviction that this could not be due to army training as it was veterans of the Civil War who had developed the American West. Then followed a couple of paragraphs which did credit to the economic insight of this city editor. He said:

"It is a notion common enough in America that the desertion of the rural districts came about simply through the attractiveness of the urban communities. It is probably nearer the truth that the desertion was due to the better opportunities of the city, its higher standards of wages, an employment which did not depend upon seasons, easier credit greater freedom from commercial exploitation-is short, to economic advantages. Man goes where he profits best. And for many years in the United States the chances of fair livelihood were better in the city than in the country.

"It is proposed to make unusual inducements to draw the returned soldiers to the soil. The movement, we believe, will succeed if it shall be made plain to these men that economically they will be decidedly better off on the farm than in the industrial center."

This editor has gone to the root of the problem. Our soldiers will return to the land when they have reason to believe that the farm will yield them so good returns for the same investment of time, energy and intelligence as will other lines of commercial endeavour. Unfortunately, in Canada, as la the United States, the attention of our legislators has been focused on urban development and this has been largely attained at the expense of our rural districts. In working for the removal of the disabilities that have been placed on agriculture, the organized farmers of Canada are really doing a greater work toward settling soldiers on the land than is the Soldier Settlement Board, which is not blessed with such clear, economic insight.

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Cave Food to Starving Sister

A PATHETIC instance of the straits to which the starving children of Behluim are reduced comes in the form of a letter to a lady in Montreal, the Inhabitants of that unhappy country. The recessities that fally confront the Inhabitants of that unhappy country. The recessities that the conficulty of the con

#### Letters to the Editor

Endorses "Company Farming"

Endorses "Company Farming"

DITOR, Farm and Dairy.—A correspondent in a recent issue of your valuable paper doubts that a your valuable paper doubts that if farming the paper of the paper

openers as to the seal financial condi-tion of the farmer, though we doubt that the revenue in country will be greatly increased to the property. Like your correspondent, I am pay. Like your correspondent, I am pay. Like your correspondent, I am pay. Like your correspondent, I am pay the favor of company farming as outlind favor of company farming as outlind in your editorial and think that you should have given it your unqualified approval, as it shows that the Re-sources Committee is willing to back up their faith by their works, and other people's money, and thus great-ly add to the production of food for the Empire. the Empire.

The fact that those who put their money into the scheme should kiss it money into the scheme should kiss it goodbys for ever, does not detract from its value. For those who are so them its value. For those who are so little informed of financial conditions on farms as to subscribe for stock would listen to any other get-rich-scheme and if they are going to lose their money, they better put it where it will not money, they better put it where it will not money, they better put it where it will not money, they better put it where it will not put in the war. In any case, as horsemen say, they will "get a good run for their money" and will add greatly to, their knowledge of the real profits to be obtained from farming—G. F. Marsh, Grey Co., Ont.

#### The Bird-Law "Reed"

DPTOR, Farm and Dairy .-- How Dirrok, Farm and Dairy. How often we see in the papers are frantic appeal to observe, and sometimes to strengthen, the law to protect wild birds! If such did not broken reed" no harm would be done by it, but 6,000 years should teach us by it, but 6,000 years should teach us that the birds were only intended to preserve "the balance of power" be-tween the insect and vegetable worlds. A winter thaw in Sasksatchewan, with its consequent crust keeping them from their shelter under the snow, came nearer exterminating the part-leges than the pattlers" guns ever could, and billions of quail are slain by blizzards in the U. S. A. The in-evitable destruction of their nesting places by farmers and others is the worst enemy bird life has, and man should supplement its efforts with

paces by tarmers and others is the worst enemy bird life has, and man should supplement its efforts with traps and poison as never before.

On my first observance of city street lights in summer | noted large of the hought was given me that if soap and the constraint of the hought was given me that if soap it would be a searchight attracting to it the mild searchight attracting to it the mild searchight attracting to it the mild searchight attracting to turn inght into das for the power used to turn night into das for the power used to turn night into das for the power used to turn night into das for the mild the hought of the mild that the might select a little later, and to give them a street car ride, that they might select a little later, should produce light to mission when hidden away for winter, etc. Who had not turned a rall, board or leaves and found blowdies, etc., under them? The day is past for needing them, or crows or buzzards, to remove carrion. But I doubt not our naturalists, with study, could find a domesticatable bird study, could find a domesticatable in the side of the power of the me of the me of the power of

weeds. Mice and other vermin could be caught by fur-bearing animals, though making houses, 'barns and granaries mouse and rat-proof, with traps and poisons, for such a part of our school children's education and service should supplement them.—A. N. Day, Sask.

#### Clean Milking Pails

HE chief cause of inferior milk is The chief cause of interfor milk is the presence of bacteria. Milk ordinarily contains from fifty thousand to a million or more bacteria per cubic centimeter (1 cc. equals 15 to 18 drops). Most of the bacteria which get into milk come from pails, which get into milk come from pairs, strainers, coolers and separators which have not been thoroughly clean; the strainers of the University of Minnesota recommends the fallowing method for cleaning utensils:

1. Rinse with cold or lukewarm water as soon after use as possible.

2. Wash with brush and hot water which contains washing powder.

3. Rinse with clean water.

4. Steam for 30 seconds if live steam with pressure is available, or for five minutes if the farm steam sterilizer is used.

used.

used.

5. When steaming is impossible, thoroughly sunning and airing is next best, care being taken, he ver, that road or barnyard dust does not undo

the good work done.

6. After steaming or scalding cans, palls, etc., they should be dried by their own heat and by allowing steam to escape, not by wiping the inside with a cloth. Wiping reinfects the surface so recently cleansed.

7. Keep dry and protected from

flies and dust.



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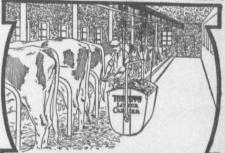
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#### DON'T BE A SLAVE TO WORK!

Having to push the old wheelbarrow around the farmyard, often ankle deep in muck and mire, has done more to make farm life a drudgery, than anything else.

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He had followed the river to its source on the high rocky plateaus that shed water like a roof; for six years he had

watched it and measured it—surface flow and underflow alike he knew to

an acre-foot its maximum and its mini-

mum and its total flow in those years Three times he had seen

down with a rush, bank full, 25 feet deep and 1,000 feet wide. Once, in the

early days, it had caught him unready,

and swept away several months' labor It would come again, he knew; would come with the Fall rains or the melt-

come with the Fall rains or the mel-ing snows of Spring—might come any-day if a cloud happened to burst in the right place over the gorges in the

Stevens, however, was not uneasy. No flood was to be expected for two months and in two months his work would be finished and he would be in

He had known her all his life, but

seen her on a hurried trip to Wash seen her on a hurried trip to Washington that Spring. Hardly could he believe her the girl he had known before. Either she had changed or hed—perhaps both; years work quick magic in women, and the solitade of the desert—aven the magnetic state.

magic in women, and the solitude of the desert—even the man-peopled solitude—arouses primal passions in men. Stevens had been East for only

the East-with Her

mountains two hundred miles away.



THERE is nothing so powerful as truth; and often nothing so strange. D. Webster

#### The Building of the Dam By Crettinden Marriott.

OHN Stevens, resident engineer, stood on the nearly finished head-works of the canal and looked about him. On his left the solid about him. On his left the solid masonry of the great dam, 600 feet long and 200 feet in sheer beight. barred the gorge of the Gila and abutted against Pedro Ridge beyond. On his right, stretched away in diminishing perspective the cement core-walls of the mile-long dike that continued the barrier over the low land of the south bank. Before him the bed of the future reservoir glittered arid in the Arizona sun, trampled and fouled by months of work. All around him was the hum of strenuous toil. Beneath his feet a travelling crane was lowering the 100-ton canal-gates into the sildes; overhead shrieked the aerial trolley as it came and went from bank to bank; from the north came the whirl of the cement mills; as he watched, a train shot out from the distant south and hurried up the dike into the middle distance, where rumble announced that a few hundred more tons of stone had been added to the rock fill.

John Stevens, resident engineer, sighed contentedly. The dam, the reservoir, the headworks, were his work servoir, the headworks, were his work—all his. His had been the reconnaissance party that first spied out the site; his the preliminary surveys and estimates of cost that determined the practicability of the project; his the final construction; his would be the transformation of the country that would speedily follow. Other projects were being built by contractors; this was the first, and the only one constructed by the Government directly on "force" account.

Stevens drew a long breath. Well he remembered his first view of the valley six years before. Standing on the slope of Pedro Ridge he had seen in imagination the barren sands trans-formed—had seen the dam, the ce-ment-mill, the busy railway, the great holes whence the rock for the fills had been blasted, the thousands of workmen. And he had seen more: had seen the land as it would be in the days still to come—the great lake of living water; the expanse of bordering orchards, gardens and vineyards; the white roofs peeping from the green; the sound of church bells; the happy voices of women and children. Then the vision had faded, melting mirage-like into the blistering sands, and John Stevens had rubbed his dazzled eyes and set to work to complete his reconnaissance and demon-strate to his chiefs in far-off Washstrate to his chiefs in far-off Washington that here, on the Glia, were the essentials for the construction of a great reservoir that would irrigate 300,000 acres of fertile land and furnish bountful homes for 7,000 families off Appendix of the property of the property

of American citizens.
Six years had passed since that
day—three years in surveys and estimates, one in making ready, and two more in the actual construction now drawing to a close, and here stood the result the first great reclamation project of the United States Govern-

ment. The masonry dam was done; ment. The masonry dam was done, the headworks of the canals were done; there remained only a few weeks more work on the earth dam, a few thousand tons of rock-fill to dumned another layer of riprap to be dumped, another layer of rapidly to laid in cement on the slope—practi-cally the thing was done—raw, un-kempt, ugly, but strong and efficient. In two months the Fall floods were to be expected, but before they came all would be completed-all down to the



A Specimen of Flower Garden some 300 Miles North of Toronto.

When we think of such places as Halleybury, "up North" in New Ontario, we do not usually think of flower gardens and fine homes. The illustration herewith, however, shows a fine home and garden facing the lake, which is a specimen of numerous fine gardens in that town.

last rivet in the huge hydraulic gates.

He had been practically alone in th task. Assistant after assistant had come to him-college boys who had passed civil service examinations over which practical men had broken their which practical men had broken their knees—had come and had gone. One had been incompetent; several had been unable to handle men; others had broken down under the strain of incessant labor in the broiling sun, the typhoid epidemic that had deciated the force, the strikes, the maddening delays in the arrival of materials, the endless convolutions of red Only two remained, and these had been with him for only the last few quiet months-not long enough to prove their worth.

Stevens, resident engineer, looked down at the tiny stream that trickled sluggishly through the sluices in the foot of the masonry dam. Nightly it rose and daily the thirsty sun drank it up again. It seemed incredible that it could ever fill the gorge, much less the great basin floored by twenty-five square miles of burning sands.

But Stevens was not deceived. He knew well the habit of Arizona streams in general and of the Gila in particular. He knew those yellow particular. He knew those yellow sands were eighty feet deep and were filled with water to the brim; that a few cloudy days would see the river shoulder itself high against the barrier he had flung across its course.

speak would be madness had restrain ed him from asking her to marry him then and there. As it was, he had told her, in everything short of the bare words, that he would come back for her in the Fall when his work was done. His meaning was unmistakable, he asked nothing in return; she was free to wait or not, as she saw fil-

Stevens, resident engineer, came out of his day-dreams with a start as an engine and two cars came swinging around the curve of the five-mile spur that the Santa Fe had built from the main line to the reservoir.

That's a private car," he grumbled. "Who in thunder have I got to show around now?"

But of course it was She

"I've come on business," clared when the greetings were over "I want information on a matter of grave importance. Of course I might have written, but I hate writing, and so I got Cousin Jack to lend me his private car and just came myself. Be-

private car and just came myself. Be-hold in me the man of the family." Stevens smiled. "Oh! the man of the family, are you?" His glance took in the many feminine touches in the well-appointed car. "You don't look it," he laughed, "and your sur-roundings are hardly in keeping. But I suppose I must take your word for it. So—take off your hat; have a nigar2"

Miss Winthrop laughed. "You hor-rid boy," she exclaimed. "You men are so proud of your superiority. But, really, Mr. Stevens, I have come on business. I want your advice."

"It's yours for the asking. why the 'Mr.?' It used to be John. That was when we were younger,

Besides this is a business interview, you know

"Oh, I forgot. Well! Tell me all about it. I need hardly assure you,— and so forth."

The girl's face grew serious.
"Thank you John," she replied. "This is really serious. You see, if father were alive, I could follow my own inis really serious. clinations and trust to him to see that clinations and trust to him to see that I made no mistake. But, as it is, I must try to be judicial, and weigh things as father would have weighed them. Marriage is such an important aten

Stevens' face paled and his hand

Stevens' face passed trembled slightly.
"It is, indeed," he returned in a voice out of which all the fun had voice out of which all the fun had voice out of which all the fun had voice out of which all the returned to the property of the passed of the return of the passed of the return of the re

"I mean that I am not going into anything like a romantic girl. He seems very nice and clever, and he is undoubtedly a gentleman and all that, but—well, I know father would insist on knowing more about his ability and prospects, and so I came to ask you about him."

"About him? About whom?" tense anxiety spoke in Stevens' tone.
"Dear me! Didn't I say? About

"Simpson Yes. You know him, of course. He got a post in the Reclamation Ser-vice last Spring, and they sent him out here to help you. Surely, you know him!

know him!"
Simpson! The latest cub-assistant
sent from Washington to the Gild
Stevens' brow grew dark. Without
excuse he rose and walked to the far end of the car, where he stood staring

blindly into the gathering darkness. "Why should he have her?" he mut-tered to himself. "He can't love her What does a boy like him ng I do. as I do. What does a boy like aim
know of love? And she comes to me
—to me of all the people in the world
—to ask about him." He paused with
a short laugh. "And I've got to praise

He stopped again and his face grew flushed.

him to her!

"But have It" he resumed. "By Heavens, it's too much to ask! Way should I help him to win her wha a word from me—she can't care is him very much, after all, or she wouldn't trust anything but her our ntuitions. She'll get over it in time intuitions. ways is.

He turned and walked back to where the girl sat waiting.

abruptly, "that-"
He broke off as a man pushed in at the cardoor and hurried towards

"Beg pardon, Mr. Stevens," le asped. "But this telegram's just ome, and Mr. Simpson said to get it gasped. to you quick as-I beg your pardon

Stevens tore open the envelope Stevens fore open the envelope:
"Heavy rains on the San Carlos reported. Gila in flood. Cloudburst at the Verde. Should reach you by mk night. Looks bad."

Miss Winthrop had watched hi

"Is anything wrong?" she asked.
"Everything!" responded the engineer, shortly. "A flood is coming and will reach us by midnight. Heavy rains on the San Carlos and a cloub-burst on the Verde have joined hands to test the dam two months before they should have come. was well timed, Miss Winthrop. will see the coming of a great flood."

The girl ignored the last words

(Continued on page 17.)

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A Pa Be cont ye have; f

I am conte And Lord "O"Pe

solately fro cottage to the house in a little in a litte and had a father and quite so ha grass by through the hee sore melancholy to sleep by while he sh spake in h tentment It was th

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"But ques Brook," said thou not rat mighty ocean om the m riches of nat it laughed a the meadow, vain because out like the like the sea a river and I I give drink graze on the to the green fed. I laugh way onward like yourself. part in the which needs that there sh meadows and dens, mighty the commerce ble brook to water the kin and all beari the world, an Bur

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#### The Upward Look

#### A Parable of Contentment

Be content with such things as ye have; for he hath said I will never leave thee nor forsake thee.—Heb.

I am content with what I have, Little be it or much: And, Lord, contentment still I crave, Because thou savest such.—Bunyan,

H dear, oh dear," sighed Jan H dear, oh dear, signed Jau Peters one bright sunshiny day as he wandered disconsolately from his father's rose-covered solately from his father's rest-covered cottage to the meadow behind the house, "If only we were in a little better circumstances and had a dittle more money, that father and I did not have to work quite so hard, how happy I could be." quite so hard, how happy I could be."
Throwing himself down on the green grass by the brook that flowed through the meadow he closed his eyes, and giving himself up to his melancholy reflections, he was lulled to sleep by the song of the brook, and the satisfies the wind the series of the castle. while he slept the voices of the earth spake in his ear the lesson of contentment

tentment.

It was the brook that began it, as it gurgled and laughed and sang on its way to the see. "Don't you wish you had been born an orchid, my friend," said the brook to the buttercup that bloomed on its banks, "to be raised in a lovely greenhouse, and sheltered from the storms, to be admired by the from the storms, to be admired by the crick and adora kings' palaces. Surely such all fit is much to be preferred to thine." "Not so friend Brook, not so," said the Buttercup, "I could never be and the Buttercup, "I could never be an orchid nor would even wish to be. I am called upon to be content in the on your banks and to show forth in the my humble life the wondrous wisdom of the Creator. I love the warm sunshine of heaven and the gentle breeze that is wafted across the meadow and my petals are bathed in the sweet dew my potals are bathed in the sweet dew that descends from above after the heat of the day. Though only a hum-ble butterup, nevertheless I am clothed with a beauty the like of which the Lord of Glory has said the great ones of the earth have never been arrayed. If I am not content as a buttercup, my friend, think you I would find happiness and content-ment as an orchid? I trow not. My happiness consists in doing the will of Him who placed me here to adorn the meadows, whose all seeing eye takes pleasure in the things that only He can see, and to the heaven above I open my heart in thankfulness, content with the state wherein I am plac-

"But question for question friend Brook," said the Buttercup, "wouldst thou not rather be a river, or the broos, said the Buttercup, "wouldst thou not rather be a river, or the mighty ocean, and bear on thy broad bosom the might of the world and the riches of nations?" And the brook as it laughed and sang its way through the meadow, replied: "Do I flow in vain because I cannot spread myself out like the river or carry leviathans like the sea. I would not wish to be a river and I could not be the sea, but I give drink to the thirsty kine that graze on the meadow and sustenance to the green grass by which they are fed. I laugh and I sing as I wend my way ouward, content, friend Buttercup tike yourself, to contribute my little part in the service of the kingdom which needs for its full perfection that there shall be buttercups in the meadows and orchids in Queen's gardens, mighty seas and rivers to carry the commerce of nations, and the hum-ble brook to beautify the meadow and water the kine; each good in its place and all bearing a part in the glory of the world, and showing forth the ma-

jesty of an all wise Creator, all useful, all needed, all content." Unconscious-Unconscious ly in its enthusiasm, the brook sang louder than usual and Jan awake with a start. "I must have been dreaming. he said, "but my dream has taught me a much needed lesson. I see now that or discontent comes from within and that the heart that within and that the heart that is right with God need take no anxious thought for the morrow. I thank thee, oh little Buttercup. and I thank thee, oh Brook for the sweet lessons you have taught of contentment with my lot and humble dependence on the gracious bounty of an all loving Father, and that even when man is mute and forgetful, ye bless the Lord, ye praise Him and magnify Him forever." And the little buttercup noded its head in the breeze and the brook sang louder than ever on its merry way to the sea.—J. H. H.

#### Snapdragons for Winter Blooming

N October the Snapdragons (Antir-rhinum) in the flower beds are us-ually full of vigor. If frost did not cut them down they look, as though they would bloom till Christmas. So they will but not out-of-doors. They may be potted and taken into the house and if you have a sunroom or very sunny spot it will be a thing of beauty because of the splendid pots or boxes of Snapdragons.

or boxes of Snapdragons.

The Snapdragon like many other flowers puts forth more bloom the more we cut it down. When it is full of bloom cut off the clusters, give them away, and the plant soon has a lot of flower buds showing again. If the flowers are allowed to go to seed the bloom is curtailed.

bloom is curtailed.

Now is the time to pot the plants for winter indoor blooming. Pot firmly, set in a shady place for a day or two, watering well, then place in a sunny window and you should have flowers for most of the winter.

Petunius also do well in the house

and I am also do well in the house, and I am also potting some fine double stocks. I am hoping to grow pots of Lilyof-the-Valley also in the house, and the bulbs of Hyacinth and Daffodil and Tulip make a delightful and interesting study during the snowy

#### Getting in the House Plants

THE frosty nights we have had of late, reminds us that we must get our house plants in from the garden before they have been injured garden before they have been injured by heavy frost. The after success of house plants depends to a large ex-fent upon the trouble we take in pot-ting them. Good rich soil and clean pots or boxes with plenty of broken crockery or small stones are inport-ant points. Much of the trouble with plants that do not thrive indoors may safely be attributed to lack of proper sately be attributed to tack of proper drainage. The surplus moisture not required to keep the soil moist, if not drained off at once, soon becomes stagnant and kills the roots. Old plants that have done decora-

tive duty all summer on verandahs or other situations, or those that have been standing in shaded places by walls or under trees will require shifttimes the same pot or box will answer

by taking the plant out, shaking out or washing the old soil from the roots, and re-potting with fresh earth. New pots should be soaked in water before using and the old pots also soaked to loosen soil and mossy growths on the outside, then with a vigorous scrubbing they will be fresh and as bright as new ones.

and as bright as new ones.

The best soil for all plants is well rotted sod made fine. Say three-fifths of sod loam, a fifth of sand, and a fifth of well rotted crumbiy manure, all thoroughly mixed together.

#### Girl Ambulance Drivers

HERE are about 300 girl ambulance drivers in the Red Cross service in France. The only other women ambulance drivers in other women ambulance drivers in France belong to the First Ald Nurs-ing Yeomanry Corps. There is a friendly rivalry among the Red Cross girls in the matter of keeping their "bus" spick and span. Whenever a trainload of wounded arrives the Red Cross girls must be on hand, and this means constant duty, day and night, means constant duty, day and higher Exceptionally good driving is a char-acteristic of each girl, and before un-dertaking this dangerous and arduous work a girl is required to pass a severa test at Devonshire House. Among other things she must know how to other things she must know now to attain speed without jolting the wounded, as a bit of rough driving might prove fatal to the poor lad. Tenderness linked with courage of the finest and highest kind is always found in the girl ambulance driver shillings a week with expenses is the



"and they cost me less per pound gain"

> AN you imagine a manufacturer in the city CAN you imagine a manufacture in the feeding costly raw material into a machine without precise figuring of costs and the most careful selection? Can it possibly pay the "manufacturer" of bacon to feed hogs on the oldfashioned plan, without knowing the cost per pound gain? Decidedly not, in these expensive times.

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# Monarch Hog Feed

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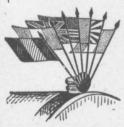
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#### Training the Children

No. 8

Isolation an Effective Punish-

Mrs. Laura W. Lawrence

F you should ask any kindergartner what punishment she relies on in all cases needing instant attention would probably answer, isolating she would probably answer, isolating a child from the group and excluding him from all work or play for a short time. Usually putting John to one side where he can see what he is missing will be sufficient, and the question, after a few minutes, as to whether he is now ready to join the close cars will meat with a ready class again will meet with a ready

acquiescence.

Does this plan work as well in the home as in kindergarten? It certainly does, but it must be differently managed. Since there is not so much definite work or play going on in the nennite work or play going on in the home as in kindergarten, exclusion has to be more complete to be noticed by the child. That is to say, something more will be necessary than simply having him draw his chair to one sid of the room. It must be, "Go away by yourself, John, until you are ready to be a pleasant companion again." Banishment must be complete even to closing the door. Of course, cries will ensue, sometimes screams, but they are caused by no physical pain, and the mental shock of being entirely the mental shock of being entirely alone and cut off from the family is generally all that is needed to stop naughtiness. After the tempest is over, the mother should go to her little one and say, "We want you when you are yourself again, John. Can we have you back now?"

Many of the minor naughtinesses, such as whining, teasing, mimicking, such as whining, teasing, minitexing, shoving, snatching and stamping, are easily managed in this simple way. Just here let me say we mothers must be careful in our choice of words

must be careful in our caones of words for wrong actions. Let us not call all of them bad, or even naughty. It a child is disagreeable or unkind when he is tired, we shouldn't tell him that he is bad. Save that worst word for he is bad. Save that worst word of real wrongs like glapping, sneaking or deceiving and the like. Then it will carry weight and mean something. Real wrongs must be met with sevice punishments, such as depriving the child of some cherished possession.

Even a baby as young as a year old feels isolation. One of our little ones forming a habit of throwing herself back in her high chair and screaming all during meal time be cause she didn't get things just as she wanted them. She was cured in less than a week by her father's taking her, chair and all, to the kitchen the minute she began and leaving her there behind a closed door until she stopped. How long did she cry? At most, two or three minutes, and less and less each time, until she gave up the habit entirely

Care must be taken to go to the child as soon as the storm passes, or he will begin to cry again from a feeling of neglect. The isolation method of punishment takes time, but any, kind of punishment takes time except the ever easy slap and shake which do so little good and soon breed in a

child the fear of physical violence.

By a little wise thinking and skillful management it is often possible to avoid punishments entirely method is to avoid the issue by diverting the attention. Another simple preventive is to explain actions and happenings to children, without any note of irritation in the voice. Even two and three-year-olds can grasp much more than most people suppose if it is only told them in language they at it is only told them in language they can understand. Explain what is go-ing to happen and why they should act in such and such a way; explain what did happen and why you asked.

them to act as you did. an action and establish a connection between effect and cause.

Of course, explanation may be car Sometimes instant and unquestioning obedience is necessary for safety. Positive commands will always be obeyed if the children know that as soon as possible explanations will follow. When a grown-up obeys blind orders he expects that the rea-son for them will be explained to him Why should not a child later. Why should not a child ex-pect the same treatment? This method develops the intelligent side of a child's mind, and helps much in good citizenship later on.

#### Sugar Beets to Save Sugar

ONSIDERABLE interest is being shown in sugar beets this season in their relation to helping out the sugar scarcity in our homes. At Home Economics Convention held in Winnipeg last spring, one of the papers which created a good deal of interest was one on sugar beets given by Mrs. S. Dumbrill of Charleswood. Man. After that convention Mrs. Dumbrill received several requests for further information on the sub As a result she gave an outline of her experiences in an issue of the Grain Growers' Guide. We also re-Grain Growers' Guide. ceived a letter from Mrs. Dumbrill and by combining the two we are able to present the following to our readers:

Mrs. Dumbrill's experience with sugar beets is as yet only in the experimental stage and she hopes to be able to report more fully a little later. It did not occur to her that the paper which she read at her convention would create so much interest, or she would have tested more fully before At first, Mrs. Dumbrill tells us only the ordinary sugar beets for cattle feeding were used and while they the feeding were used and white they made very nice pickles, it was found that the sugar content was not so high as the genuine sugar beet; hence the latter was adopted. There are two varieties of the latter, Kleinwanzleben and Vilmorin's Improved, but the seeds of these varieties are very scarce in Canada.

The method Mrs. Dumbrill has used

for preserving the beet is as follows: beets just large enough to fit well into the pot without breaking the skin. Scrub well with a vegetable brush to free them of any soil, then parboll. Plunge into cold water to slip skins off. Then run the beet through the food chopper, using one half to two-thirds of this pulp whatever fruit you are preserving and Set on stove and boll no sugar at all. until it becomes thick like jam. Keep stirring, for it scorches quite easily. Mrs. Dumbrill tells us that one has to cultivate a liking for this jam, but when combined with such fruits as grapes, chokecherries or other wild fruits it works very well but it is her opinion that if cultivated fruits were used the flavor would be spoiled. She then adds, "Hungry men do not stop then adds, Hungry her do not stop to taste the jam, however, and as long as it's sweet, that is the main thing." To prevent this jam from molding, as it does not keep very long after un-sealed, Mrs. Dumbrill advises using small jars which would only contain enough to last two or three days at a It is necessary also to seal the jam while very hot.

A very fine jam was also made from equal parts of apples and pulp. Mrs. Dumbrill finds that a nice pudding can be made by substituting the beet pulp for the carrot in carrot-fruit pudding. She has also tried the beets with Hubbard squash and raisins and flavored with a few drops of vanilla, which makes a tasty sauce.

A pickle which Mrs. Dumbrill calls Ladies' Delight is made in the following manner: One-half pound apples one-quarter pound beets, eight chilies, one pint best vinegar, one tablespoon salt. Chop all fine, boil the vinegar and add the salt, then pour over in gredients. Mix well and when cold.

pour into small jars

Then there is a table syrup which may be made from the beets. Wash well to remove the soil. in a large saucepan or preserving kettle. Cover with water and cook until soft. Remove the skin and slice them, cover with water and boil again for two or three hours, usually about three quarts of water to 10 pounds of the slices. Remove and strain into another saucepan. Strain again through a fine sieve or cheesecloth, Set again on the stove and allew it gently cook until dark and thick like gently cook until dark and thick like syrup. If three ounces of lime are added to every 10 pounds of beets and carefully strained, the vegetable taste is removed from the syrup. "I fear," adds Mrs. Dumbrill, "that the trouble in preparing the beets and the coverage of public skyrup, does process of making the syrup, does not appeal to some people, as it looks too much like work."

Beets need a great deal of cultivation and on comparing notes with another practical farm woman, Mrs. Dumbrill found that beets grown on alkali soil did not throw very large beets, but they had a very large per-centage of sugar content. The alkali centage of sugar content. The alkall spot where the beets were grown, however, was in good condition the following year for wheat. The beet seems to take the alkall out of the

#### Fats for Cooking

NE of the items of expenditure which count up quickly nowa-days is the outlay necessary for buying cooking fats such as lard. Wita lard, from 25 to 35 cents a pound it does not take long to run away with a dollar or two for this item alone. Miss Magdalene Hahn of the Colorade Agricultural College, suggests that housewives prepare fat for cooking in their own homes and in this way save from six to 10 cents a pound. Her suggestion is to purchase beef sust which can be secured around 124 cents a pound. This as compared with cents a pound. This as compared with leaf lard at 35 cents and butter at 10 cents, is a good argument for its more Beef suet is a little hard general use. to cook with because it does not cream readily in cake making. This may be overcome without greatly increasing the cost, by rendering it with a softer fat. Here are three methods of making softened fats which have proved be very satisfactory;

The first one is made at a cost of 18 cents a lb., from three parts unrendered beef suct and one part cotton The next is made at a cost of it cents a lb., from two parts unrender ed beef suet and one part leaf lard, and the third at a cost of 15 cents a ib., from two parts unrendered bed suet and one part chicken fat. To prepare, cut the fat very fine, of

put through a food chopper. Heat a a double boller until the fat is com-pletely melted. A double boller may be improvised by placing one vessei is a larger one containing water. using this method your fat will Strain melted fat through a cloth, squeezing to remove all fat. The cracklings may be used in making

Flank suct costs just the same at kidney suet and is usually of such a consistency when rendered that m other a need be added for softening. A cake in which the fut was entirely flank suct was tasted by at least IN women and not one could tell was the fat was and geveral thought it a butter cake.

If some of Our Women Folk try of some of these methods, and find then successful, we would be glad to hear

A thoughtful answer: "What's the first step toward the digestion of the food?" asked the teacher Up went the hand of a black-haired lib-tic fellow, who exclaimed with sap-erness, "Bite it off! Bite it off!"-American Kitchen Magazine.

"The dam ger?" she q "None! But there looked from ering dusk. now. I'm gi work to-nig fear I oan't ing. As to With a bo

Ten minu throp heard five times after a scor the sound. shift joined whistle of swelled the running in ed; the clati from the she ial trolley a farther bank the arc-lamp and of the skimmed alc the parts of Toot! To Toot!" signa swarmed do reservoir and thing that co

stood that n see the grou worked for s ately the co and incessan to the rock-fi and strength massive can toiled, lifting ed-so as to pleted dike. Above thes post. There, post. had no fear; in sand and r would with the long roo

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earth and m great canal would be gre would fight m dred and fort; of the river a top of the dik fointed rubble blended smoo of the dike, a two hundred down beneath reck. If the c sper freely or masonry dam feet before th Surely

the San Carle Still Steven staked all hos on the dam. At one o'clos of the fleed. stood principle sure, the unde gorge suddenly ward, the dry Pose.

Stevens saw "Clear out! the warning w

the gorge drop ran for their H Not a momen Mght, playing front of the a

#### The Building of the Dam

(Concluded from page 14.)

"The dam is safe? There is no danger?" she questioned anxiously, "Sixty feet high!" gasped Stevens, "Sixty feet high!" gasped Stevens, as the water struck, battering-wise looked from the window at the gathering dusk. "The men are at supper now. If give them ten minutes more, and the safe of the dam and hard the safe of slashing spray that swept clear over the two hundred-foot wall. Food is better than drink for the work te-night. You'll excuse me. I fear I can't come to dinner this evening. As for Simpson-I'll see you again."

With a bow, he was gone.

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Ten minutes later Margaret Winthrop heard the shriek of a whistle five times repeated, and an instant hve times repeated, and an instant after a score of others echoed back the sound. The construction-engines, waiting on the sidings for the nightwaiting on the signings for the night-shift joined in the chorus, and the whistle of the electric light plant swelled the uproar. The thud of men running in the semi-darkness followed; the clatter of the tools caught up from the sheds; the rattle of the aer-lai trolley as it swung out from the farther bank; the fizz and sputter of larther mans; one mer and sputter or the arc-lamps as they burs' into light, and of the great searchlight as it skimmed slong the dam, picking out the parts of the work one by one. "Toot! Too-0—out! Toot! Too. Oo—out! Toot! Too-man and man are mad down that he had on the state of the whistle, and man are mad down that he had on the state of the state of

swarmed down into the bed of the reservoir and began to remove every thing that could be moved. All under stood that never again were they to see the ground over which they had worked for so many menths. Desperately the construction trains puffed, and incessantly the stone rumbled in to the reck-fill, backing the core-walls and strengthening the dike. At the massive canal-gates the great crane tolled, lifting them one by one—their own machinery not yet being installed so as to give vent to the water and lessen the pressure on the uncompleted dike.

Above these gates Stevens took his post. There, if anywhere, the dam would fail. For the masonry part he had no fear; buried eighty feet deep in sand and rooted in the living rock would withstand anything. Nor did the long rock-filled dike give him much coacern. The gradual rise of the rocky floor toward the south gave k greater and greater resistance with every foot of distance. But where earth and masonry met—where the great canal began—the pressure would be greatest and the water

would fight most fiercely.

The base of the canal was one hundred and forty feet above the bottom of the river and mixty feet below the top of the dike. Its floor, paved with jointed rubble laid in cement mortar, blended smoothly into the revetment of the dike, and the whole sloped for two hundred feet upstream, dipping down beneath the sand to the bed reck. If the canal proved insufficient to carry off the waters, they could sper freely over the crest of the masonry dam to a depth of twenty feet before they would leap over the dike. Surely even the Gila aided by the San Carles could never rise so

Still Stevens feared. For he had staked all honor, reputation, fortune on the dam. If it should go out-

At one o'clock came the forerunner of the flood. By some little under-stood principle of transmitted pres-sure, the underflow in the bed of the gorge suddenly shouldered Atself up-ward, the dry sand whispering as it Pose.

Stevens saw it and caught at the

"Clear out! clear out!" shricked the warning whistle, and the men in the gorge dropped what they held and ran for their Hyes.

Not a moment too soon. The search-light, playing upstream, caught the front of the advancing Niagara, and

Then the river lifted itself bodily, foot by foot, fingering the rocks hun grily, teasing for an opening, a weak where it might burrow and wreck this maa-made obstacle across its path. Up it rose, till the gorge v filled and the water poured bank full through the canal gates! up! until gates had vanished, and only a swirl in the hungry water showed where

they were buried. As the night waned, came a new sound as the river reached the masonry dam and plunged, cataract-wise, on the apron beneath; and at dawn

the watchers gasped.

"Yesterday it was a desert; to-day it is a lake;" they murmured.

Stevens, resident engineer, sat on the headgates and waited. There was

me that you have not eaten or siept me taat you have not eaten or hiep:
for twenty-four hours. Come, John."
Stevens shook his head. "I must stay here," he answered. "But you must go. You ought never to have come. That trolley may fall in another ten minutes. Please!" He turned toward the car.

But Margaret shook her head. "Not without you, John," she answered.

Stevens stifled an exclamation. "Do you know what will happen if the water rises ten feet more?" he demanded harshly.

Margaret measured the flood with her eye. "I can guess," she answered. "Can you? Ten feet will bring the water over the crest of this dikeover the core-walls into the unfinish-ed rock-fill. Once there, it will not take it ten minutes to scoop a way to the foundations and then-Everything will go: Honor, reputation, hope for the future, fortune—and you. You don't want to die that way, Margaret?"

'Do you?" Stevens laughed wildly. "Why not? Everything else will be gone. Why should I not go too?"

But the girl shook her head. "No, John," she answered, and her voice

QUALIFICATIONS OF THE FARM WOMAN.

HERE is a larger responsibility resting upon farm women than upon any class of women living. The banker's wife sends around to the bakery and gets her bread; the nurse can be sent for from a nearby hospital and the doctor can be had in 10 minutes' time, while it is perhaps a matter of several hours before he can be brought to the farm home. The town woman may go frequently to the milliner and dress-maker, but in the country such assistance is more difficult to obtain, and the woman on the farm must know all kinds of work. She must be a rounded, well-educated woman.

More than that, the farm woman has an interest in the outside work. More than that, the farm woman has an interest in the outside work. She is the partner of her husband in getting his living. We are dependent on the boys and girls who come from the farms; colleges and professions are made up to a large extent of this element. It is essential to have a farm home which sends forth boys and girls of integrity, boys and girls who can take part in the world's work.—Cornell University, Dept. of Warms Enzongles.

nothing to do but wait-and thinkof Margaret and of his dam.

Painfully his mind went over his works inch by inch, wondering at what spot weakness would develop what apot weakness would develop. Here it paused on an odd-shaped stone, there on a trowel of mortar, yonder on the face of a chance work-man who had placed a particular stone on a particular day—chance memories, unrelated, that suddenly assumed enormous magaitude. Then it shifted to Marguret and his wrecked hopes. Then back again, in hopeless tieration.

less ateration.

Jinner and breakfast had been brought him successively, but he put them away untouched. Coffee, whiskey, tobacco, he put aside. Never key, tobacco, he put aside. Never readily approachable, ne one dared to force himself upon him in his hour of Still he watched and thought, and still the water rose, driving him and still the water rose, driving him at last from the headworks to the top of the earthen dike. All the dam bo-tween him and the north shore was less in smother of water. Only the long southward-pointing finger of the earth dam breasted the flood which was slewly creeping up its slope. An-other ten feet of rise and it, too, would be burled and then—too well Stevens knew what would happen

A light touch on his arm A agat touch on his arm roused him, and he turned to find Margaret beside him. Incredulously he looked at her, then at the foam between them and her train.

"You!" he exclaimed, raising his voice so as to be heard above the thunder of the fall. "You! How did you get here?"

Margaret pointed upward to the

aerial trelley swinging in the wind.
"By that!" she laughed. "Oh! such a ride!" Then anticipating the rebuke in his eyes. "Don't scold me, John. I had to come. I came for you. You must come back with me. They tell rang above the thunder of the water. 'All will not go even if the dam does A man will be left—a strong, brave man, a man who will rise again, a man who will not stay beaten, a true man

Stevens laughed aloud. "A true man?" he echoed. "A true man? No! not a true man, but a liar and a hypocrite. Listen! And then perhaps you will leave me to go down with my dam. Do you know what you did yesterday when you asked me about Simpson? You let the devil loose in For months I had been thinking me. For months I had been thanking of you— of nothing but you—hoping, lenging for you with all my strength and heart and soul. I had begun to hope when you came to tell me of

your love for the boy-"
He paused, shaken by his emotion. Miss Winthrop started and was about to speak. But Stevens unheeding,

"It maddened me!" he ocied, "Maddened me! I had always thought my self honest, but—I did not know.
did not know. At the first stron temptation, I fell. I opened my mouth to lie to you—to tell you evil things about the man you loved—when I was interrupted, as you know. But I-lied in intention. It was only an accident that I did not lie in fact. I-Miss Winthrop! Permit me to inform you that Simpson is a capable and intelligent young man, the best assistant that I have had on this work. He is still inexperienced but is learning fast. Further, he is clean and honest; I myseif ther, he is clean and honest; I myseif know him to be a gentleman with all that that implies. He is in every way worthy of you, and I believe you will be happy with him. Now you know how 'true' I am! Good-bye!"

The girl raised her eyes to his with an expression that a woman wears for but one man—an expression that made Stevens grow pale.

"Don't you despise me?" he faiter

"I think you are the bravest and truest and finest man in the world," she averred. "You have triumphed over yourself and that—but no matter that the second of the second ter! Bessie will be delighted to hear such good things of Mr. Simpson."

(17)

"Bessie!" Stevens echoed the name hoarsely.

"Of course! My sister Bessie! Why. you foolish fellow, did you think you so was inquiring about Mr. Simpson for myself? Bessie and Mr. Simpson have been dreadfully in love with each other for a year or more.

Stevens caught the girl in his arms. "Margaret!" he gasped. "Tell me-" "Margaret!" he gasped. "Tell me—"
"Oh, no! no! Not here! Oh! you great, wet, gaunt, hungry bear! Come back with me to dry land and—perhans-

Stevens turned toward the trolley, when loud above the roar of the water sounded the shriek of the steam whistle.

They are signalling! Listen!" he cried."

Teot! Toot! Toot, tooi! Toot, "Toot: Toot, toot! Toot, toot! Toot, toot! Stevens' face lighted up.
"Thank God!" he breathed. "The worst is over. That signal means that the water has begun to fall."—Sun-

shine Magazine.

Barley Flour a Good Substitute "Aunt Fanny," Peterboro Co., Ont.

LL the articles which have anpeared in Farm and Dairy con-cerning the use of substitutes for wheat flour and also the recipes published, have been of considerable interest to me, as I am trying to keep down my wheat flour consumption as much as possible. One day a few weeks ago I happened to be in town and decided that I would take home some barley flour and see what luck some pariey four and see what muss a would have with it. Corn meal, bran, grabam flour, and rolled oats had been my main standbys in the substitute line previously, but I was anxious to try out barley flour too. The first recipe I tried was a wheat-less war cake and it turned out.

war cake and it turned out splendidly, so I am sending along the recipe herewith. Here it is: One cup brown sugar; one and one-quarter cups water; one cup seeded raisins; two ounces citron peel, cut fire; one-third cup shortening; one-half teaspoon salt; one teaspoon nutmeg and the same of cinnamon; one and one-half cups barley flour; one cup oat flour or rolled oats put through the meat chopper; five teaspoons bakthe meat chopper; nee teaspoons one-ing powder. Boil sugar, water, fruit, shortening and spices together for three minutes. Set aside to cool, then add flour and baking powder which add flour and baking powder which have been sifted together. Mix well and bake in a bot even for 45 minutes.

We are very fond of gravy in our home and almost every time we have meat for dinner, gravy is also served. I find that in the thickening of gravy alone, quite an amount of white flour is soon used. Since securing my barley flour, however, I substitute it for

thickening purposes.

When making corn gems of Johnny cake, instead of using a cup of white flour, I substitute with part of a cup of barley and none of the family have yet been able to discern any differ ence. I also frequently make rolled oat macaroons or drop cakes, using white flour and rolled oats. Barley flour is now substituted for the white and my macaroons turn out every bit appetizing as previously.

Just one more recipe before I stop. It is for bran cakes which are very pepular in our home and I make them as follows: One-half cup brown sugar, one tablespoon shortening; one egg; one-half teaspoon salt; one cup white flour; two cups bran; one and one-quarter cups sour milk; one tea-spoon soda. Make a stiff batter and either drop on a buttered pan or put in muffin tins.

Another advantage the elephant has is that he can brush his teeth with his nose.

#### OFFICIAL PROSPECTUS

The proceeds of this Loan will be used for War purposes only, and will be spent wholly in Canada



THE MINISTER OF FINANCE OF THE DOMINION OF CANADA offers for Public Subscription the

## Victory Loan 1918

\$300,000,000, 51% Gold Bonds

Bearing interest from November 1st, 1918, and offered in two maturities, the choice of which is optional with the subscriber as follows:

5-year Bonds due November 1st, 1922

15-year Bonds due November 1st, 1922

15-year Bonds due November 1st, 1932

Principal payable without charge at the Office of the Minister of Finance and Receiver General at Ottawa, or at the Office of the Assistant Receiver General at Halifax, St. John, Charlottelown, Montreal, Toronto, Winnipeg, Regins, Calgary and Victoria.

Bonds in sub- registered as to principal or as to principal and interest, at any of the above-mentioned offices.

Interest payable, without charge, half-yearly, May 1st and November 1st, at any branch in Canada of any Chartered Bank.

Principal and Interest Payable in Gold

#### Issue Price: 100 and Accrued Interest

Income Return 51% Per Annum

Free from taxes—sacingling any income tax—disposed in pursuance of legislation enacted by the Parliament of Canada.

receds of the Loan will be used for war purposes only, including the purchase of grain, feederings, assumitions and other supplies, and will be seed of the Loan will be used for war purposes only, including the purchase of grain, feederings, assumitions and other supplies, and will be receded to the Loan will be used for war purposes only, and will be seed for war purposes only.

Payment to be made as follows 10 per cent. on application; 30 per cent. January 6th, 1919; 30 per cent. December 6th, 1918; 20 per cent February 6th, 1919;

\$1.16 per cent. March 6th, 1919.

The last payment of \$1.16 per cent, covers 30 per cent balance of principal and 1.16 per cent, representing accrued interest at 5% per cent.

A full half year's interest will paid on May 16, 315, making the cost of the bonds 100 and interest.

Bubbergions may be paid in fact of May 16, 315, making the cost of the bonds 100 and interest.

Bubbergions may be paid in fact of application at 100 without interest; or on any instalment due date thereafter together with making the cost of the bonds 100 and interest are a charge upon the Consolidated Revenue Found. This ioan is authorized under Act of the Parliament of Canada, and both principal and interest are a charge upon the Consolidated Revenue Fund.

The amount of this issue is \$300,000,000, exclusive of the amount (if any) paid for by the surrender of bonds of previous issues. The Minister of Finance, reserves the right to allot the whole or any part of the amount subscribed in excess of \$300,000,000.

Conversion Privileges

Bonds of this issue will, in the event of future issues of like maturity, or longer, made by the Government, during the remaining period of the war other than issues made abroad, he accepted at 100 and accrued interest, as the equivalent of cash for the purpose of subscription for such

All cheques, drafts, etc., covering instalments, are to be made payable to the Credit of the Minister of Finance. Failure to pay any instalment when due will rander previous payments liable to forfeiture, and the allotument to cancellation. Subscriptions sust be accompassed by a deposit of 19 per cent. of the amount subscribed. Official Canvassers will forward subscriptions or any branch in Canada or any Chartered Bank will accept subscriptions and issue receipts.

riptions and issue receipts.

Subscriptions may be paid in full at time of application at 100 without interest; or on any instalment due date thereafter together with accrued set to time of making payment in full. Under the provision, payment of subscriptions may be made as follows:—

If paid in full scalements paid on Dec. this payment is subscriptions of the percent of the per

Denomination and Registration

Bearer bonds, with coupons, will be issued in denominations of \$50., \$100., \$500., and \$1,000., and may be registered as to principal. The first coupon attached to these bonds will be due on May lat. 1915. Fully registered bonds, the interest on which is paid direct to the owner by Government choque, will be issued in denominations of \$50, \$100, \$400, \$1,000, \$5,000, \$10,000, \$5,000, \$100,

Payment of Interest

A full half year's interest at the rate of 51% per cent, per annum will be paid May 1st, 1919.

Form of Bond and Delivery

Subscribers must indicate on their application the form of bond and the denominations required, and the securities so indicated will be delivered by the hank upon payment of the subscription in full.

Bearer bonds of this issue will be available for delivery at the time of application to subscribers desirous of making payment in full. Bonds registered as, to principal only, or fully registered as to principal and interest, will be delivered to subscribers making payment in full, as soon as the required registratual meets must be made at the bank originally named by the subscribers must be made at the bank originally named by the subscriber. The payment is the subscriber will be trunished to all subscribers who desire to pay by instalments. These receipts will be exchangeable at subscriber's bank for bonds on any instalment date when subscription is paid in full.

Form of Bonds Interchangeable

Subject to the payment of H conts for each new bond issued, holders of fully registered bonds without coupons, will have the right to convert into bonds with coupons all holders of bonds with coupons will have the right to convert into fully registered bonds without coupons, at any time, on applicable the convert into fully registered bonds without coupons, at any time, on applicable coupons, at any time, on applicable coupons, at any time, on applicable coupons, at any time, or proper to the coupons will have the right to convert into fully registered bonds without coupons, at any time, or property that the convert into fully registered bonds without coupons, at any time, or property that the convert into fully registered bonds without coupons, at any time, or property that the convertible coupons will have the right to convert into fully registered bonds without coupons, at any time, or property to convert the convertible coupons, at any time, or property to convert the convertible coupons, at any time, or property that the convertible coupons will have the right to convert into fully registered bonds without coupons, at any time, or property that the convertible coupons will have the right to convert into fully registered bonds without coupons, at any time, or property that the convertible coupons will have the right to convert into fully registered bonds without coupons.

Subscription Lists will close on or before November 16th, 1918

DEPARTMENT OF FINANCE, OTTAWA, OCTOBER 28th, 1918.

Behind the Man the Dollar Behind the Gun the Man -Make Your Dollars Fight the Hun

October 21

Great Victor

III wintow Bowman. United F the Manitouli Government c created a poli same time, it the thousands Ontario, who I

The story of teresting one. ers as well a explain the vic claiming that ernment candi Monnanites on ly for Mr. Bow the farmers v

Bowman didate

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not discussed du played a part in action of the Go ers' sons and its of the Act reven Manitoulin as real say they he fact that they we sented in the H in the Legislatur rere willing to d but they felt th desired. It was t the farmers first for united action Another cause the action of the mment and of t ario in agreeing ided to stiffe t lic questions, and hat the farmers oth Premier He on, and to ask

Called a The farmers th nd a convention d by representat lubs in all parts ames of a coms

cognize a farme was placed in the

#### The Farmers' Candidate Wins

Great Victory for Farmers in Manitoulin Election—What Led to Contest—Facts About It

HE victory last week of Bealah Bowman, the candidate of the United Farmers of Ontario, in the Mantoulin by-election, over the Government candidate, B. H. Turner, created a Political sensation. At the same time, it deli vited the hearts of the thousands of Tarmers throughout Ontario wind land been following the

Ontario, who had been following the reports of the contest with interest. The story of the campelign is an interesting one. The Government leaders as well as city papers on both sides of politics have endeavored to explain the victory of the farmers-by claiming that the defeat of the Government candidate was due to the Menonites on the Island voting solidity for Mr. Bowman, by claiming that the farmers were opposed to con-



Beniah Bowman, the successful candidate in Manitoulin.

scription and to the bad weather that prevailed on the day of the election. The fact is the number of Monnonites on the Island is very small, while the Military Service Act was discussed but little, and the bad weather did not affect one party more than another.

Cause of Election.

While the issue of conscription was not been some of the consequence of the plane of the compagin, it planed a part in it, inasmuch as the plane of the consequence o

Another cause for complaint was the action of the leaders of the Government and of the Opposition in On-tarib a sure of the action they felt that is the sure of the content and by-elections. This action they felt indeed to stiff the discussion of public questions, and they did not feel inclined to submit to it. The result was that the farmers decided to-write to both Premier Hearst and Mr. Proudiot, the leader of the Libertal Opposition, and to ask them if they would recognize a farmers' candidate if one was placed in the field. Both replied to the same effect, declining to do so.

Called a Convention.

The farmers then decided to put a maddidate of their own in the field, and convention was called for that suppose. The convention was attend-five for the farmers to the riding. The many of a considerable, number of a considerable, number of a sufficient were suggested. As Manitative were suggested. As Manitative were suggested. As Manitative were suggested.

touin has been a Conservative riding for affreen years, these candidates naturally included more Conservative than Liberals. The choice of the convention shally rested on Beniah Bowman, a farmer and an active worker in the U. F. O. Mr. Bowman is only 32 years of age. He used to be a local preacher, and, therefore, has some voted only three times—once as a Conservative, once as a Liberal, and cones for an independent candidate.

Mr. Bowman's platform was a strong one. It called for a proper representation of the farmers in the Legislature, advocated the public ownership and operation of public warranty and the public warranty and the public ownership of great public utilities, opposed the granting of any more natural resources to private natural resources to private interests, favored direct legislation, and the public ownership of great public utilities, and advocated a reform of the Civil Service. In regard to his attitude on the war, Mr. Bowman said, "I have an intense delike for war, with all its horrors and atrocities, but the Allies found a war forced upon them by war-loving governments, who thus sought to dominate the world. On the part of the Allies it has become a war to end war, and as such it should be continued until the Allies achieve complete victory and establish the reign of international law, thus securing the peace of the world."

Farmers Worked Hard.

With their candidate in the field the farmers set to work armently and soon began to accomplish remetily and soon began to accomplish the firmers in the following the following the following the firmers as storekeeper. Although the set of the firmers are former to and fade to the firmers are for the firmers and for the firmers and for the firmers are formers and for the firmers are formers and for the firmers are formers and for the firmers and for the firmers are formers and for the firmers are formers. It is the firmers and for the firmers are formers and for the firmers are formers. It is the firmers are formers and for the firmers are formers and for the firmers are formers. It is the firmers are formers and for the firmers are formers and for the firmers are formers. It is the firmers are formers and for the firmers are for the firmers are formers. It is the firmers are formers and for the firmers are formers and for the firmers are formers. It is the firmers are formers and for the firmers are formers and for the firmers are formers. It is the firmers are formers and for the firmers are formers and for the firmers are formers. It is the firmers are formers and for the firmers are formers and for the firmers are formers. It is the firmers are formers and for the firmers are formers and for the firmers are formers. It is the firmers are formers and for the firmers are formers and for the firmers are formers. It is the firmers are formers and for the firmers are formers and for the firmers are formers. It is the firmers are formers and for the firmers are formers and for the firmers are formers. It is the firmers are formers and for the firmers are formers and for the firmers are formers. It is the firmers are formers and for the firmers are formers and for the firmers are formers. It is a former and for the firmers are for the f

Garry, Provincial Treasurer, went up, and are said to have spen about two weeks in the constituency. As the tide was still running against them. Hon. G. S. Henry, the Minister of Agriculture, went up and addressed a series of meetings. Finally the Premier, Hon. Mr. Hearst, visited the Island and addressed three meetings. Lady Hearst accompanied him and gave a tea to the ladies of Gore's Landing. Possibly the most effective help Mr. Dowman received was from Mr. J. J. Morrison, the secretary of U.F.O., who visited the Island twice, and who was accompanied for a few days on his accompanied for a few days on his accompanied for a few days on his fait frip by Mr. A. A. Powers, of Orono, a vice-president of the United Parmers' Cooperative Co., Ltd., Some of the arguments used by the speakers of the arguments used by the speakers of the arguments used by the speakers of the arguments of elect an independent candidate, so will be supposed Mr. Bowman would have to take down his milketool and to n. Het on the contraction.

Brought in Religious Issues.

A great effort was made to divide the farmers on religious and racial lines, an old game of the politicians. One of the chief actors in this was checked by the chief actors in this was checked by the chief actors and the Grand of The Orange Sentinel and the Grand The Orange Sentinel and the Grand the Grand of the Chief and the riding, but did not help and in the riding, but did not help and in the riding, but did not help and the riding that the riding was the riding to the riding t

#### When The Factory Closes

In a few weeks scores of the Cheese and Butter Factories over Ontario and Quebec will be closing for the season. At that time hundreds of the patrons of these will desire to form new connections for the shipping of their mills or crea a. The following list of firms are in position to handle large quantities. We suggest that you patronize them?

## MILK! CREAM

If you want a permanent market for both your cream and milk winer and summer—ship it to Peterboro'—the 'Electric City'—the hub of central Cntarlo. We can take large quantities. Splendid rall connection in every direction—C. P. R. and G. T. R.

If you live within 100 miles of Peterboro' write to-night for full shipping terms, prices, etc.

## Peterboro Milk Products Limited. G.A. GILLESPIE Manager PETERBORO. ONTARIO

Operating Milk Condensary, Creamery, Ice Cream Plant and city milk supply.

## CREAM WANTED

We are in the market for Cream. Our guarantee assures you:—
ACCURATE RECORDS, PROMPT RETURNS
HIGHEST PRICES, AND SATISFACTION
All express charges are paid and cans supplied. What more could we do? Write

The Toronto Creamery Co., Ltd. 9 CHURCH ST., TORONTO

#### CREAM WANTED

From 2,000 Cheese Factory Patrons

for the Fail and Winter months. We sell our butter direct to the trade. No middleman's provits. That is one reason why our price is always the highest. There are others. Make us prove it.

Write for free cans when ready to ship.

Valley Creamery of Ottawa, Limited 319 Sparks St., Ottawa, Ont.

Canada Food Board License No. 7-312

## CREAM WANTED

Cheese Factories are Clo. ing for the Season
How about your Cream?
We will buy your Cream all the year through
Returns are made every week
Ship your New Laid Eggs to us
We pay highest prices for both Cream and Eggs

Write us for Cans and Cases
THE BOWES CREAMERY COMPANY LIMITED
74-76 FRONT STREET E,, TORONTO, ONT.

en's arguments helped Mr. Bowman rather than Mr. Turner.

There was great delight when the results of the election became known. With two polls to hear from Mr. Bowman's majority was 230. It was expected to be over 300 when the final returns were received. Mr. Bowman returns were received. Mr. Bowman is of Swiss decent and belongs to

United Empire Loyalist stock. His election indicates what farmers can do to appoint their own representative when they make up their mind to do it and reduces to be led natray by racial, religious and other cries that have been used for the purpose of blinding them to, their own interests in the past.

## United Farmers' Discuss Important Problems

Will Draft a Revised Farmers' Platform. Should Farmers Form an Independent Political Party ? After-the-War Affairs

N important meeting of leaders and Tuesday of this week in the offices of the United Farmers' Cooperative Co., Ltd., to plan a policy for the farmers with a view to sub-mitting k for their consideration, both at the meeting of the Canadian Council of Agriculture, to be held in Winnipeg at the close of this month, and later at the annual convention of the United Farmers of Ontario, to be held in Toronto in December. The need for such action has been felt for some time, as owing to the action of the local organizations in several con-stituencies in putting farmer candid-ates in the field, it has been felt that a farmers' platform should be prepar-ed upon which all such candidates

Those who attended the meeting in-TRICSE who attended the meeting in-cluded members from the directorate of the United Farmers of Ontario, The United Farmers Co-operative Company, Ltd., The Farmers Publish-ing Company, and a few others inter-essed in the farmers' movement.

esced in the larmers' movement.

Mr. R. W. E. Burnaby acted as
hairman and Mr. Morrison as secretary. Nothing that was done at this
meeting was intended to bind the
farmers' movement in the Province. It was held in order to consider the problems that have arisen and to see that information concerning these is prepared in a way that will facilitate their discussion at the approaching convention

#### A National Policy.

The National Policy that was adopt ed by the farmers' organizations some three years ago was first considered in order to find to what extent it needed revision as several planks in it have been adopted by the Government since their endorsement by the farmers. In the main this platform was practically reaffirmed in full except that its wording was changed in a few particulars and a few new planks were added. The meeting re-affirmed its belief that the tariff at present is so adjusted that it bears with great severity on farmers as a while promoting city industries y. It was therefore held that it unduly. It was therefore held that it should be rearranged so as to promote agriculture in every legitimate way possible.

In this connection it was recon mended that the tariff should be reduced on agricultural implements and supplies purchased by farmers other supplies purchased by large as their raw material. It was also recommended that the British Preference should be increased until within five years Canada shall have complete free trade with the Motherland.

#### Free Speech.

Exception was taken to the action of the Government in curbing the freedom of public discussion and it was recommended that the freedom of speech and of the press should be re-established. Exception was also taken to the ruling of the country through Orders in Council as being directly contrary to the spirit of representative Government.

As a means of raising revenue a di-

rect tax on unimproved land values, including all natural resources, was advocated, also the principle of a sharply graduated income tax, inherit ance tax on large estates and similar taxes on the profits of Corporations. In connection with the latter the tax-In connection with the later the tale ing of watered stock was urged.

Other Reforms.

Other reforms endorsed were the

nationalization of all railway, tele-phone, telegraph and express com-panies, and similar public utilities. The Government was urged to refuse to alienate any more natural re-sources, but instead to bring them into use only under short term leases.

Direct legislature, including the initintered registature, including the initiative and the referendum was approved as well as publicity of political campaign fund contributions and expenditures, the abolition of the patronage system and Dominion prohibition. The stand was taken that Can ada should not be tied up after the war by its representatives to Imperial Policies without the people first being given an opportunity to decide upon the maters involved.

#### Farmers' Candidates.

A lengthy discussion took place re arding the advisability of the United Farmers establishing a separate party in the legislature and in the House in the legislature and in the House of Commons or working through the existing parties. A difference of opinion in reference to which was the best policy was evident, but the majority were in favor of following the practice that has been followed in Westween Canada.

ern Canada.

The view was expressed that were The view was expressed that were the farmers to attempt to establish an independent party there world be great danger of wrecking the whole farmers' movement as was done years ago in Ontario, as it would ultimately lead the two old political parties as well as other classes in the community to combine in order to defeat the farmers' party.

In western Canada the practice has been where the candidates of both parties agree to accept the Farmers'

parties agree to accept the Farmers' Platform, and where these men are acceptable to the farmers, not to take any part in the election, but allow the candidates to fight it out between themselves. Where's one and didate accepts the Farmers' Platform with the action of the candidate accepts the farmers' Platform. and the other refuses to do so then the farmers support the candidate that accepts their platform. Where neither party puts an acceptable candidate in the field, then the farmers

are free to bring out an independent candidate, where they so desire. As any action taken in this matter, far as federal politics is concerned, will be influenced by the support will receive from the farmers' organizations in other provinces, it was felt that this metter should be dis-cussed fully at the next meeting of the Canadian Council of Agriculture.

#### Members in Parliament.

A discussion was held as to whether or not an officer of the farmers' organizations, when elected to Parliament or to the Legislature, should resign his office in the organization, although not necessarily his membership. It not necessarily his membership. It was unanimously agreed that he should do so. A by-law bearing on this will be submitted for discussion at the next convention of the Associations.

The main reason that led to this decision was the possibility that when an officer of the association is elected to parliament it opens the way for the Government or his party, to work through such a member on the farm ers' organizations in a way likely to divide his interests and thereby possibly be prejudicial to the best inter-

ests of the farmers' movement.
The repeal of the "War Times Election Act" was recommended.

#### Returned Soldier Problem.

Sergt. Hunter, a returned soldier, addressed the meeting on behalf of The Great War Veterans' Association in reference to after the war problems.

A resolution was passed urging the government to start immediately to deal with the labor problems that are sure to arise after the war. In this connection it was urged that returned soldiers, who have had a practical training in agriculture and who desire to stay on the land, be given an oppor tunity to do so in the older settled dis-tricts of the province rather than in New Ontario, as cleared land in Old

Ontario is cheaper and better adapted in every way to the needs of the sol-diers than the land sparsely settled in

ne colder districts of the province. Messrs. R. W. E. Burnaby and J. J. Messrs. R. W. E. Burnaby and J. J.
Morrison were recommended for appointment as delegates to the next
meeting of the Canadian Council of
Agriculture in Winnipeg. A third

representative may be appointed.

The Dominion Government is to be urged to appoint a representative of the farming interests on the Dominion Railway Board, there being no representative of the farmers on the Board as there was when it was first appointed.

#### Why Farm Land Only?

HE returned soldiers, through the Great War Veterans' Association I Great war veterans Association of Canada, is pressing on the Dominion Government the necessity of bringing all unproductive agricultural land into use and even suggests not its confiscation should brought into early cultivation. Noth-ing is said about idle city land of which there are many thousands of acres and the demand for which is

keen in most urban centres. In an open letter to the Prime Minis ter, Sir Robert Borden, Mr. H. tor, 18r Robert Borden, Mr. H. K. Seeward, Secretary-Treasurer of the Great War Veterans' Association of Canada, writes in part as follows;— "It is understood that your Gov-erment has entered into negotiations with the several Provincial Govern-

THE PROVINCIAL PLOWING

HE unexpected cancellation The unexpected carried and of the Provincial Plowing Match, because of the influenza epidemic, which was to have been held recently in Ottawa, not only caused great inconvenience and loss to many of the exhibitors, who did not hear of it in time to cancel their shipments, as well as to people who went to Ottawa to see the match, but it led to Farm and Dairy making an announcement on its front cover illustration which was not in accordance with the facts as these later transpired.

Finding that practically all the large tractors had been entered for the match and expecting to have a full report of it in last week's issue, Farm and Dairy arranged in advance to publish arranged in advance to pupilist on its front cover last week an illustration of one of these makes of tractors. When the makes of tractors. When the tion of the plowing match be-came known this page of Farm and Dairy had been printed, making it too late to make the necessary correction.

ments with a view to acquiring, by purchase, a portion of the idle and un-productive lands within their respec-"The returned soldiers naturally wish to be made aware of the manner in which the Government proposes to

acquire these lands. Idle Lands Should be Penalized.

"Believing that a penalty should be imposed upon all those who hold agricultural lands in a state of unproductiveness, we suggested to the then Acting Manister of Finance at the time of the introduction of the Budget during the last session, that the Federal Government impose a super-tax on every acre of land fit for agricultural purposes held idle and unprocultural purposes heat are and unpro-ductive, such tax to increase in propor-tion to the acreage held.

"In reply the Hon. Mr. Maclean stated that he believed the matter

vidual, punishing all who do not work; and while, for the good of the country you have compelled the individual you have compelled the individual citizen of military age to place his person at the service of the State; we find that millions of acres of agri-cultural land are held by speculators in a state of unmolested idleness, al-though it is of vital importance to Canada that her agricultural resources be developed.
"As the matter is one of vital im-

portance to them, this association requests the favor of a definite reply to the following questions

#### Will Speculation Be Eliminated?

"(1) Will the Government consider the possibility of State expropriation by fixed schedules which will eliminate all speculative values and will not impose onerous burdens on the culti-vator who works the land, or on the

general community?

"(2) Does the Government intend to buy, at the public expense, such land as private speculators are willing to discorge at prices out of proportion to their 'prairie' value?

onsgorge at prices out of proportion to their 'prairie' value?

"(3) Will the Government, failing other measures, consider the idea of passing logislation whereby all idle agricultural lands in Canada, if not hrought under cultivation within a definite period (say, ten years), will revert to the Crown?"

#### The Manitoulin Election

THE Electoral District of Manitonin, in which the United Farmers of Ontario last week elected a candidate to the Outario Legislature, consists of Manitoulin Island, Cock-burn Island and a portion of the mainland to the north, commonly referred to as the North Shore. The available to as the rectal since. The wallands you at the election was about 4,300, of which about 3,400 were on the Manitoulin and Cockburn Islands; about 750 of these being in the towns of Gore Bay and Little Current. So far as complete returns are available, the towns on the Island polled about 75 per cent of their available vote and the rural sections about 79 per cent; this, notwithstanding that it rained all

day. Mr. Bowman, the farmers' candidate, obtained his largest majorities in the townships which had been most strongly Conservative. He received about 68 per cent of the rural vote so

far as the returns are complete. On the North Shore, with its large French-Canadian population, the vote was light, Mr. Turner, the Government candidate, obtaining a majority of 50. The normal Reform majority on the North Shore is about 200 on a straight north shore is about avoid a straight party vote. The women were as much interested as the men. Apparently, Mr. Bowman received more of the women vete in proportion than did Mr. Turner, the women being freer from political bias and in many cases voting against their husbands. In his home town of Little Current,

which is about evenly divided on a straight party vote, between Reform and Conservative, Mr. Turner received 281 votes and Mr. Bowman 40. In Gore Bay, which, on a straight party vote should give the Conservative a vote should give the constraints a majority (including the women) of about 125, Mr. Turner had but 34 ma-jority. Outside of these two towns Mr. Turner's majorities aggregate only about 160, scattered over 10 polling sub-divisions.

Mr. J. J. Morrison, Secretary of the

United Farmers of Ontario, and Mr. Powers, a former warden of the United Counties of Northumberiand and Durham, came to the assistance of the local farmers and encouraged the local workers by their presence. Their experience and their successful plattor in achieving victory. Mr. Borman's victory is all the more crelleable in view of the fact that Mr. Twner, who was a local storekeeper, the form work were a most important fac-In reply the Ross. Mr. Macionan stated that he believed the matter stated that he believed the matter (Would have the consideration of the Government during the recess."

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October 31

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One 6 mos given this year One 12 mos to 4.7 fat. Pri Thoir sire Al, brod from a Three Peki

WM. THOP

SUPERIOR

#### Ad. Talk

FALL SALE RAWBLES.

The busiest of the yearing's done, The winter sales are near.

So sings the poet, Of course, those are not his exact words, but that does not an exact words, but that does not an exact words, but that does not any of the poet of

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## **AUCTION SALE**

Owing to scarcity of stable room, I am obliged to offer by Public Auction, at my Farm, Lot 30, First Concession N. R. R. Charlottenburgh, three-quarters mile east of Martintown, Glengarry Co., six miles south of Apple Hill, on C. P. R.

Tuesday, November 5th, 1918

the following valuable Live Stock:

24 JERSEY MILCH COWS 1 JERSEY BULL, 1 Year old

All registered in the Canadian Jersey Herd Book. Age and Pedigree, with butter fat test, will be sent to any parties wishing them.

Terms-Twelve months' credit on furnishing approved joint notes, or six per cent off for cash. Sale to commence at 1 o'clock p.m.

D. D. McCUAIG, Auctioneer

WM. D. MUNRO, Proprietor

advertising appropriations. Send in your

C. G. McKILLICAN, Live Stock Representative, Farm and Dairy - Peterboro', Ont.

FORMER JERSEY SECRETARY DEAD. FORMER JERSEY SECRETARY DEAD.

M. R. RICHARD RIED, Agent general

of Ontario in the British lates, died
recently at his home in London,
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THE CANADIAN YEAR BOOK.

VOLITME seven of the Holstein-Friedman Program of the Holstein-Friedman Holstein ow ready for distribution of 682 pages, and as usual, contains a list of all official and semi-official butter and milk records of the Holstein-butter and milk records of the Holstein-butter and milk records of the Holstein-butter and Record of Performance, to-rether with a last of all record cows under the highest proportion of the Holstein of the Holstein Computer with a last of all record cows in each division. Grouped together, too, are the division of the together together together together. THE CANADIAN YEAR BOOK.

for sale (either sex)—A choice litter of 15. Just rendy to wean. Priced low if WM. R. DICKHOUT . R. R. 7. (This ad. will not appear again.)

#### Woodlawn Dairy Farm

Offers for Sale

eight young cows cising 3 years. Three of them due to freshen in December, the rest early. One buil raing 3 years, 6 will calves and a few helfer calves. Also good young cows due in February.

Jeremiah O'Connor

R. R. 4

Campbellford, Ont.

## Important Clearing Sale

**JERSEYS** 

5 BULLS

35 FEMALES

40 GRADES

GEORGETOWN, ONTARIO Tuesday, November 5, 1918

at 12 o'clock

The entire herd of B. PETCH & SON, to be sold at the Farm, near Georgetown

This is without doubt one of the most select Jersey Herds ever offered to the public. The result of twelve years of careful breeding and selecting. During this time the best of sires have been selected from the herds of B. H. Bull & Son, of Brampton, R. J. Fleming, of Pickering, and the present sire from the herd of James Bagg & Sons, Edgeley. This animal won first in his class at Guelph Winter Fair, 1916.

The farm is situated four miles from Georgetown G. T. R. where all morning trains will be met. There are gravel and stone roads leading to Georgetown from all parts of Ontario, making it easy for motorists to attend the sale.

For further particulars apply for catalogues to B. Petch & Son, R. R. No. 1, Cheltenham, Ont.

A choice 8 months bull calf will be sold for the Red Cross

#### - FOR QUICK SALE -

Two Choice Ayrshire Bulls

con a mouths old. Dam's record as a 2-year-old, 9.30 lbs. milk. Has given this year as mature, Tl\u00e4 lbs. per day, testing 4.3 fat. Price \$8.00. Ibs. milk this year as year-old, tested up to 1.5 fat. Price \$8.00. Ibs. max qualified this year as 2-year-old, tested up to 1.5 fat. Price \$8.00. Free \$1.00 for the year as year of the year as year of the year as year of the year

Trout Run Stock Farm Lynedoch, Ont.



#### SUPERIOR IS THE CARRIER THAT BOYS LOVE TO OPERATE

Consider primarily the advantageous merits of a Superior Litter Carrier-it will take a lot of vexation and drudgery out of your life and give you more time to enjoy a more congenial occupation than cleaning the stable with a wheel barrow. You will be interested in a Superior Carrier. Investigate its merits.

e for Descriptive Folder-GEO, P. MAUDE, Mgr. SUPERIOR BARN EQUIPMENT CO., FERGUS, ONT.

#### AVONDALE FARM OFFERINGS

#### HOLSTEINS

We want to clear our stock of Holatetin bull calves to make room for the coming crop. We have a number of ropally bred ones from heldes that we will dispose of at barrain prices. The dame all have the content of the property of the content of the

A. C. HARDY, Prop.

Avondale Farm

Brockville, Ont.

#### YOUNG BULLS FOR SALE

from R. O. P. Champions and from dams, daughters and sisters of R. O. P. Champions, and sired by Canary Hartor, and some by a sof Queen Butter Baroness, who is the dam of two Champions in 7 and 36 day tests. We invite inspection, and will meet visitor; at G. T. R. or C. P. R. stations, Woodstock or Ingersoll.

WALBURN RIVERS & SONS

Phone 343L Independent Line. INGERSOLL, ONT.

## -Bull Calf of Royal Breeding-

Born Dec. 27, 1917. He is a beauty, a show animal. His sire's seven near-est dams average over 30 hs. butter in 7 days, his 11 nearest over 39, and his 33 nearest over 37 hs. butter in 7 days. He dams, a Korndyke heifer, is a grand producer. Price, \$115. Write or come :und see him.

JOHN M. MONTLE, Prop. Sunnyside Stock Farm STANSTEAD, QUE.

#### - AYRSHIRES

If you want Ayrahires of the right kind, write us. Possibly we have what you want. NORWICH, ONTARIO PALMER BROTHERS

- ELMCREST AYRSHIRES. -

Herd Sire-Glenhurst Torrs Master, sired by Lesanessnock Comet.

Stock for sale, all ages, at reasonable prices, 75 head to pick from. Some good ng bulls. Call or write for prices.

SANDILAND BROTHERS

Young calves, either sex; soveral from R. O. P. cows. It will pay to come and see write for prices if wanting anything in choice Ayrshires.

R. R. No. 4 HENDERSON

#### LAKESIDE AYRSHIRES

A choice selection of young bulls for sale from lescord of Performance dams, imported the property of the Sires: Auchenbrain Sea Posm (imp.), 51137; a soft of the noted Hobsiand Perfect Picca. Write for catalogue.

GEO. H. MONTGOMERY Dominion Express Bidg., Montreal.

D. McARTHUR, Philipsburg, Que

THE EDGELEY CHAMPION HERD OF JERSEYS.

Write us about your next herd sire. We now have some of our present herd sire.

Edgeley's Bright Prince, who have not canada's champion butter cow, Sumbeam
of Edgeley is not the only high record cow
we have. We are based to show our herd at all times.

JAMES BASE & BONS (Woodbridge, C.P.R., Concord, G.T.R.), EDGELET, ONT.

-YORKSHIRE HOGS OF BEST WINNING STRAINS .holce stock for sale, all lugas. Sows bred and ready to breed, younger stock, both from suckers up. Good growthy fellows of good type and breeding. Nearly all less Turkeys, Geese, Ducks, Chickens. 109 yearling S. C. White Legtorn hens, for prices. MILTON, ONTARIO.

## THE OLD SUMMER HILL FARM

The home of the highest priced Canadian bred Oxford ram ever sold in Canada, sold to a Missouri man for \$380. We have for sale \$50 Oxford ewes from 1 to 5 years old, 50 selected yr. to 2 yr. rams show or breeding purposes, 100 rams and 100 ewe inmus of superior quality and a limited supply of ewes fitted for show-purposes. Justice and the superior sold a show flock to H. S. Currie, of Castor, Alia, which won 1st on aged ewe, 1st on ye, ewe, 1st on swe lamb, Champion ewe and Reserve, 1st on fock competing against two flocks for for all all the property of the superior and sows ready to wean at moderate prices.

Address all Correspondence to

Peter Arkell, Bus. Mgr., Box 454, Teeswater, Ont.

#### MARKET REVIEW AND FORECAST

TORONTO, Oct. 28.—Weather conditions emerging the weather conditions emerging the lower set hem as faytions emerging the lower set hem as faytions and the set of the lower set of the sections not enough. For evidence were
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The Ontario Dorates is a Carriculture reports that fail wheat is looking very reports that fail wheat is looking very the control of the control of

COARSE GRAINS.

COARSE GRAINS.

The course grain market is still consended unsettled. Development to eause a rise in mil feeds towards the end of the week. Corn on the Chalcago market closed several points higher closed several points higher closed several points higher the price of burley. There has been fittle dring in the market for Western cate, as October cate are non-being derings of On-terrio cate at abgoing points have been litch, but there is a good demand for them. Quotations—Mania C. C.W. 884s; No. 3, 134s; catrs No. 1 feed, 834s; No. 3 white, for the Theorem Control of the Course of the MILL FEEDS.

Mill feeds met with a steady demana at firm grices. Bran is quoted here in car lots, per ton, \$37.25; shorts, \$42.85; Montreal prices are quoted: Bran at \$37.25; shorts, \$42.25; moultie, \$68 to \$70

POTATOES AND BEANS.

POTATOES AND BEANS.

Chiaris petalese are now coming on the market in fairly larve quantities. Ordario and Queboe reactived limited shipments from the Martine Provinces. Prices have remained frem throughout the week at \$2.50 per 90-70. hag on the wholeants market become the market because the consideration of the provinces. Prices have perfectly supported by the provinces of th

HAY AND STRAW.

The tendency of the hay market is a little upwards. The demand esems to be greater than the supply. On this market No. 1 hay, on track, is quitted at \$22; mixed. 250 to \$25. cm 10 to \$

COUNTRY HIDES. Beef biddes, green, 19c; gart cured, 18c to 18c; cured, 19c to 28c; deadens or bid earl, 22 to 28; horselides, oceans or bid off, No. 1, \$6.56 to \$1.70 to 28.56 to \$6.50, No. 1 sheepstall, 18c; bot 28.56 to \$6.50, farmers glock, and probability of the EGGS AND POULTRY.

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Ed. S. And POULTRY.

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15 lbs. 20c to 23c 24c to 27c

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415 and over 24c to 00c 20c to 00c

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18c 25c to 00c 30c to 00c

25c to 27c 30c to 30c

25c 10c 27c 30c to 38c

DAIRY PRODUCE

DAIRY PRODUCE.

Bradstreet respects that the receipte of butter for the week ending Oct. 19th were 14,316 speckages, within a particular to the price of the price of the price of the price out for crossary subsets of the price out of the pric

GHERSE BOARD BALES.

Brokeville, Ont., Oct. 17.—4,609 with, 550 colored; offered, 344;; no make. Kingston, Oct. 17.—452 while driess of the colored of the c

LIVE STOCK. The only demand that existed tast were was for fairly choice steers, heliers and

#### Coming Fall Sales

NOVEMBER 5TH,-Munro Sale f Jerseys at Martistown.

NOVEMBER 12TH.-T. O. Do-on, R. R. 2, Brampton, Ont. Hel-

NOVEMBER 15TH.—Merritt sale of Molesteins at Beanswille.

NOVEMBER 20TH.—A. E. Smith & Son, of Millerove, Out., will dispurse their entire herd of representations by public acctic. NOVEMBER 27TH. - Dundar

NOVEMBER 27TH,-London Dis-trict Helstein Breeders' Club. DECEMBER 3RD. — Arbogut Bres., Sebringville, Ontario, Hol-steins.

DECEMBER 5TH.—Elgin Park Helstein Breeders. Sale of Bo-steins at St. Thomas.

DECEMBER 11TH. - Welland County Helstein Breeders' Club. DECEMBER 17TH. — Oxford county Holstein Breeders' Club. DECEMBER 18TH, -Brant Com-

DECEMBER 19TH. — Souther Counties Ayrahire Breeders Ca. DECEMBER 19TH. — Souther Counties' Ayrahire Breeders' Association.

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Lamb values are at their lowers and 200 three weeks ago.

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Heavy steers, choice ... \$13.00 to \$18 Butchers' cows, choice do, good
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Butchers' bulls, choice
do, good
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Freedars, best

October 31, 15

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THE FORESTER THE sale of Ho held on Octob ester, of Mitce bis herd of cattle and implements, was the quality of justified. This wrapidly spreading which was partic neighborhood at it are a let of the modd:



Choice FOR FA

LYNN RIV

. Holstein coming 3 year Pontiac Art Brookland Ko ord 31 lbs. bu a half brothe bull that he Price \$350 for

FOF + MILLS & Se

CHARLES CO.

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18.50 to common and springers, choice of the common c and springers 180.00 109.00 16.50 13.00 10.50 8.00 15.75 16.00 12.50 9.00 00.00 00.00 00.00 Less \$1 to \$2 on light to thin hogs; less \$1 to \$3.50 on sows; less \$5 on stags; less \$6c to \$1 on heavies.

THE FORESTER SALE AT MITCHELL. THE FOREST EN SALE AT MITCHELL.
THES Rade of Hebitelin cattle, which was
held on October 38 by Mr. Geo. Forheld on October 38 by Mr. Geo. Forheld on Cetober 38 by Mr. Geo.

Note of the Cetober 38 by Mr. Geo

sold: Johanna Korneyke Inka, \$172, Peter



\$100 Choice Bull Calf FOR FALL SERVICE

Write to-day for extended pedigree

LYNN RIVER STOCK FARM

#### Holstein Bull For Sale -

coming 3 years old, sired by King Portiac Artis Canada. Dam, Brockland Korndyke Wayne, rec-ord 31 lbs. butter 7 days. This is a half bother to A. C. Hardy's bull that he refused 50,000 for. Price 350 for a quick sale. CHARLES COAZ, CLAYTON, ONT.

#### FOR SALE

Four choice, registered Holstein bull calves from one to five months old. These are fine calves from high-producing stock. For further par-ticulars write to

t. MILLS & SONS, Beaumaris, Ont.

FOR SALE—One pure-bred, Helstein nill, registered, age 4 years, quiet and acily handled. Weight about one ton, same butchland Johanna DeKol. Price 356. For toll particulars apply Harry lokee, Waldord, Algoma, Ont.

WANTED—Persons to grow Mushrooms for us at home; from \$15 per week up-wards can be made by using waste space in calare, empty rooms, root houses, etc. (start now); liuratated wooklet sent free, Adress Montreal Supply Company, Mont-

WANTED—Cheese and Butter-maker or Cassel cheese and butter factory for he year 1919. Tenders received no later han Nev. 20, 1218. Season's output about 10 tons of cheese. All supplies furnished by Company. State salary and recommendations. Tenders received and parkulars furnished by the understands. All charters of the control of the

LAVES SURELY

with the old raliable Pleming's Tonic Heave Remedy. Cures both old and new cases, tones up animal's whole system. Pull price refunded if it ever fails. Write for Free Conv of Pleming's Vest Pocket Vet. Adviser. FLEMING BROS., CHEMISTS Dill, Dublin, Ont.; Lady Nudine Inka, 1446. Geb. E. Mook. Bornholme, Ont.; Calimity Lans, 164. J. R. Archibald, Sea. Goldmirty Lans, 164. J. R. Archibald, Sea. Goldmirth, Change, Change, Mitchell; Canary Seyi, 145. J. Johnson, Omrelle Brookbank, 1445. Robt. Thompson, Mitchell; Aagrie Pausine Merceda, 115. J. Fenning, Dublin; Gugartha Bells, 176, Robt. Thompson, Mitchell; the Bells, 176, Robt. Thompson, Mitchell; Della Servicka, 1145. L. J. Johnson, 2018.

Lady Elgin Snowfiake, \$145, L. J. Johnson.

Bealdes these a few yearlings were sold the price averaging a little better than \$100.

TWO NEW WORLD'S RECORDS.

TWO NEW WORLD'S RECORDS.

TWO new world records have been always and the property of the prope

DERE and above.

The dam of the older cow is DeKol The dam of the older cow is DeKol Jewel Pontisc, whose A.F.O. record is 464.1 Ba milk and 21 Bb. butter in seven days at the age of three years. The dam of the polymer of the days, and the age of the polymer of the days, and the days, and the days, and the days, and the days, under five years of age.

age.

Both of the cows which made the records first noted were sired by King Segis Pontiac Count, who has 30 advanced registry daughters to his credit.

#### THE MERRITT SALE.

ACK of help is responsible for another farmer quitting the shainess in Mr. I farmer, and the shainess the shock of farm implements and pure-bred with the shainess of the shainess of

ONTARIO LIVE STOCK STATISTICS. ONTARIO LIVE STOCK STATISTICS.

"His following table shows the numbers of the various classes of live bars of the various classes of live liberature.

The state of the various classes of live liberature.

Statistics and the Ontario Department of Agriculture:—

Horses.
Stallions, 2 years old and over 4,223

| Mares,<br>Geldings<br>Colts as | 1, 2       | years                                     | old a                | nd of | ver. |                              |
|--------------------------------|------------|---|----------------------|-------|------|------------------------------|
| 1918<br>1917<br>1916           |            |   | *****                | ***** | 7    |                              |
| Calves                         | und<br>2 y | reeding<br>s, in m<br>for 1 y<br>cars old | ear .                | r in  | calf | 1,102,03<br>691,44<br>257,27 |
| 1918<br>1917<br>1916           | 1          |   |                      |       | 2,5  | 72,722                       |
| Sheep a                        | nd<br>"    | tambs,                                    | 1917                 |       |      | 972,34<br>956,98<br>908,06   |
| Swine "                        | all        | **  | 1918<br>1917<br>1916 |       |      | 1,664,63                     |
|                                |            |   | oulte                |       |      |                              |

# **Highland Lake Farms**

For Sale—Two extra good (30-lb.) thirty pound bulls ready for heavy service. Priced to sell. Also younger ones by a son of May Echo Sylvia.

R. W. E. BURNABY BY - Jefferson, Ontario

## - Mapleside Farm

Complete Dispersion Sale of Farm Stock and Implements at

Beamsville, Ont., November 15, 1918

#### 17 Head Pure Bred Holsteins Head

Including my Herd Sire RIVERSIDE KORNDYKE HARTOG (27527)

His dam is Butter Queen Korndyke at 2 yrs. 20,65 lbs. butter, milk 434,2 lbs. His sire is Francy Bonerges Hartog, brothr of Jenny Bonerges Ormsby 4th who at 2 yrs. has a butter record of 24,15 lbs. Most of the cows in my h:rd are from tested dams with excellent official records. This is an opportunity to secure some good stock at reasonable prices as they must be sold.

G.T.R. and Radial lines run from Hamilton to Beamsville. Write me which way you are coming and I will meet the train.

Paul Merritt. Mapleside Farm, R.R. 2, Beamsville, Ont.

#### LAKEVIEW HOLSTEINS

Present offerings are as follows:—
Present offerings are as follows:—
Offerings are offerings are as follows:
Offerings as their dama are only nices and most certain to make big records this pipers.

Terms: Cash of the.

MAJOR E. F. OSLER, Prop. T. A. DAWSON, Manager Lakeview Farm, Bronte, Ont.

#### =Elmcrest Holstein Friesians=

Headed by RING SEOIS ALCARTRA JOSEPH (27808). Dam, BARONESE MADOLINE (16299) for three consecutive years in R. O. P. averaged 21,209 bis. milk, 991 bis. butter. In 7 days, produced 34.48 bis. butter, 141 bis. in 30 days. Sire a son of the \$50,000 bull from Fairmont Pontiac Calamity (143877A); butter \$5,37 bis. in 7 days, 142.67 bis. in 30 days. Cows and helfers in calf to him for size. Also 4 or 5 splendid young show bulls from dams up to 31.55 bis. butter in 7 days.

Prices from \$100 to \$300. If you are wanting persistent producers, give us a call—write or phone.

W. H. CHERRY Hagersville, Ont.

#### His 2 Nearest Dams Average 38.82

His dam, sire's dam, grand sire's dam and great grand sire's dam, average 35.6 lbb. butter in seven days, and over 112 lbs. milk in one day, which His name is ORMSHY JANE BURNER. His services may be hired by YOU. Cows and heilers in calf to him for sale. If you need a HOLSTEIN BULL write us.

R. M. HOLTRY. R. R. No. 4. PORT PERRY, Ont

#### -CLOVER BAR STOCK FARM OFFERS-

A few choice young buils for sale, from heavy producing dams, sired by a son of Francy 3rd. Write now for description, pheto and price.

P. SMITH

STRATFORD, ONT,

#### The "O'Reilly Stock Farm" Holsteins

27,221 ibs. milk and 1,660 lbs. butter in 1 year is average for the two nearest dams of a beautiful bill we are offering at the present time. His dam is our 25,060-b. cow, Calamity Johanna Nig, and his stre's dam is the 23,060-b. cow, Rauwerd.

He is about three months old, an Al individual and nicely marked. This line of breeding is hard to excel. Write us at once. HE IS PRICED REASONABLE.

JOSEPH O'REILLY R.R. No. 9 PETERBORO, ONT.

#### Brookdale Stock Farm

OFFERS

Four very choice registered Holetsin cows, to freshen before Decamber 1st, all good, large, straight cows in good condition. Price, \$350, at Philipse 1st and 1st and

WM. C. STEVENS - - -

# As a matter of business, what do you think of the plan?

You are a farmer.

Canada is a farming country.

Canada grows more food than the people of Canada need.

To prosper she must sell that surplus food,

Great Britain is our best customer for grain, pork, beef, cheese and other farm products.

Every practical man must see how important it is to hold the British trade. Canada wants not only the profit on this trade, she wishes to create a good-will in Britain towards Canadian products and thus assure our export business for the future.

At the moment Great Britain asks for credit, asks Canada to sell her the products of the farm, "on time." To hold her trade, it is necessary to give this credit.

This takes capital—immense capital. For, Britain's purchases from Canada are huge, and these purchases must be paid for in cash.

In these times, it is not easy even for a nation as wealthy as Camada to procure money. Certainly, no other country

can lend us money. The only way now open for Canada to secure money is to borrow from the people of Canada.

This is the reason for selling Victory Bonds.

Can anyone deny the sound business sense of this plan of protecting our valuable market?

From the standpoint of the man who lends, what better security could he get for his money? Where else could he get a five and a half per cent. return on such security? Where would he find an investment to pay interest so regularly and with so little trouble to the lender? Certainly Canadians have an opportunity to benefit very directly from this borrowing plan.

And the money Canada borrows is spent entirely in Canada—a very large part of it for the very crops the farmer has to sell.

Therefore, if the Victory Loan is a success, business in Canada must be good, the nation must prosper and so be able to carry on a vigorous war effort in France and Flanders.

As a practical man you must approve of the Victory

Then help it along. Put your own money into Victory Bonds; urge your friends to buy; work hard among your loyal neighbors to make the Victory Loan 1918 an overwhelming success.

## Buy VICTORY BONDS

Issued by Canada's Victory Loan Committee in co-operation with the Minister of Finance of the Dominion of Canada.