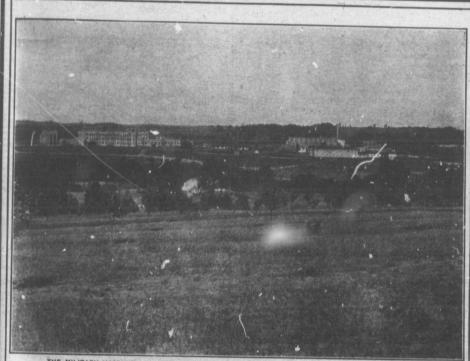
# FARM AND DAIRY RURAL HOME







Toronto, Ont., May 2, 1918



THE MILITARY HOSPITAL, GUELPH, WHERE RETURNED SOLDIERS WILL BE GIVEN VOCATIONAL TRAINING.

War Time Savings in the Herd
Principally Feeding Suggestions. (Page 3.)

Farming at the Military Hospital It's a big Diversified Farm. (Page 3.)

Peter McGregor's Tile Drains
His Best Investment, He Says. (Page 4.)

Pure Breds a Good Investment
Three Examples of Success. (Page 4.)

#### Not made over— Not added to— Built right, basically

That's the Sharples Suction-feed Cream Separator.

No loss-alarm talled onto it to remind you to turn feeter.

Sharples skims clean at any speed, so it is not necessary to put on a contraption to prod you up to a fixed spred. You can judge how important this is when tests show that 95 per cent. of all separators are turned under speed much of the time, causing a waste averaging 10 pounds of butter per cow yearly. Sharples saves all this—automatically.

### SHARPLES CREAM SEPARATOR

The skim-clean-at-any-speed principle (suction-feed) is built into the Sharples, just as Nature built teeth into you. When you

don't have any Nature-teeth, store-teeth are better than none, but they never measure up to the built-in kind. Think that over! Sharples construction has also eliminated troublesome discs—the simple tubular bowl containing but one piece. There are only half as many parts as in other separators—that's why a Sharples lasts longer than any other. Write for catalog to nearest office, addressing Dept. 79

lar bowl containing but one piece. There are only half as many parts as in other separators—that's why a Sharples Insta longer than any other. Write for catalog to nearest office, addressing Dept. 77

\*\*Excente, Out.' The Sharples Separator Co. Regins, Seats.

The Mitchell & McGregor Hardware Co., Brandon, Man.

\*Distributors for Mentions

THERE IS ONE BOOK

That we would like to sell in the house of every dairy farmer in Canada. It covers every subject in dairying, from growing the feed—to
teating your herd. The price of the book could be saved in two weeks'
time from the economical feeding methods outlined in the content of the control of

Price is but \$1.50

Book Dept.

FARM & DAIRY

Peterboro, Ont.

Fertilizers Will Be Scarcer Next Fall
Therefore arrange for Supplies of

······

# SYDNEY BASIC SLAG

In 1913, the first year of its introduction into Ontario, 230 tons were used on Fail Wheat. In 1917, the consumption was 6,242 tons, and would have been still greater had we been able to supply the goods. We want agents in districts where we are not already represented. To get big crops you rust use fertilizer and Sydney Basic Slag has proven itself the ideal and most economical article on Fail Wheat. You will need some yourself this season. Why not take a carload of 20 tons and distribute the balance among your neighbors? Drop us a line and let our general Representative call on you. He will help you to place the carload. Write us now. It may seem early but in these war times arrangements for supplies must be made some time ahead.

The Cross Fertilizer Company, Limited SYDNEY, NOVA SCOTIA

#### The Food Production Campaign in Canada

The Necessities of the Case Explained by Hor. C. A. Dunning

"The world is on fire," said Mr. Dunning, in his opening remarks, and "famine is approaching. Can't we get together and by submerging our personal interests agree on a broad platform that we will do what

broat piatrom that we will do what is possible to save the situation?

"The decrease in grain production in the Allied countries since the war commenced amounts to 2,000,000 miles in the Allied countries of Europe had decreased up to last June by 115,000,000 head. Surely these figures show where we are drifting? We are interested in the situation net only from the standpoint of our allies, but because of our own needs.

because of our own needs.

"From now on the food situation is going to be in favor of Germany, Owing to the failure of Russia to do her part Germany now has the edge on us as she will be able to draw her to the control of the contr

250.000,000 Bushels of Wheat.

"In order to maintain the present reduced food ration of England, France and Italy this continent will have to send 250 more million bushels of wheat to them this year than we sent last year. Reports show that the American wheat crop this year is likely to be the poorest in years. It will be only about three-quarters as large as the crop of last year. Allowing, however, for an average yield in the United States and Canada we must give 160,000,000 bushels extra to make up for the decreased production in Europe. Reducing this down to the responsibility that rests upon the average for a resident seven bushels last year must produce 10 bushels this year if the situation is to be naved. Cultivation methods under these conditions must not be allowed to go stack.

slack. "In western Canada it is already too late for most of our farmers to do much to improve the situation. Matters of this kind mugi be prepared for a longer time in advance. In eastern Canada the situation is some-eastern Canada thas never grown enough wheat to feed its own population. In Quebec 4,000,000 bushels were raised last year. To grow enough for their own needs Quabec should produce 11,000,000 bushels this year.

year.

"The outlook for 1919 is still darker.
Owing to the lack of fertiliser, which
is essential in France, her production
of wheat has decreased since the outbreak of the war from 219,060,000
bushels in 1914, to 144,000,000 bushels

last year. The land of France becomes dead without fertilizers as far

as cereals are concerned.

"England so are has been able ig maintain her production of what. She has done this by increasing the area under cultivation through breaking up new land including some of her large estates. Only the breaking ap of this new land has ean' and her to maintain her yield. She has not much more land that she can break up and a decline is consequently threatened in her production.

"As the Farmers' Difficulties.

"As the Farmers' Difficulties are placed in a difficult position. The cost of our equipment since the outbreak of war has increased 50 to 100 per cent, and our Phor 100 per cent. It is harder for us to secure capital because of for us to secure capital because of the control of the contro

"In addition to all these difficulties we have a Bolshevith sentiment in Canada which, I am afraid, is growing. We might easily spend time criticising the Government, but that will not enable us to increase production. Our Dominion Government has carried and is carrying a load which no other Government ever had to face. All we ask of the Government is to do something that time may not be lost and that the situation may be saved. As farmers, we know that when we strive to increase production

Report any Offender
Who Insists on Purcha e of
Flour for Shipment of Feed.

Flour for Shipment of Peed.
The Canada Food Board has issued a request that farmers or others having definite information that any dealer in feedingstuffs has been insisting on the purchase of flour as a condition for the shipment of bran and shorts, should notify the Feed Board at once, giving as much detail as possible. The request adds that all such cases will be throughly, investigated, and if the information is found to be authentic the guilty dealers license will be cancel will be a will be cancel will be cancel will be a will be cancel will be a will be will be a will

our expenditures start immediately, while our crop returns are not received until months later. Standard values are disappearing. Great efforts are being made to maintain the standard value of the dollar. All these problems are crowding upon us.

"If production is to be increased we

"It production is to be increased we must make it easy for men to increase we must make it easy for men to increase production. This means that we must give them the things they need, and on the easiest possible terms. In control of the second of a crimination of the second of a crimination of the second of t

Boiling water used in liberal quatities will drive away the germs that thrive in the crack; and croress of dairy utensils and which are respossible for apoiled milk and cream is not weather.



We Wele

VOL. XXXVI

W HILE the g agriculture and t where it will de a great future fo as the most eco of all domesticate poultry third and there is every re animals on earth daley cow returns food as the beef netition becomes and feed advance. animal to a larg part of the huma animal fats for pr products is one of sity, and a standa The war is dest

well as other agr

beginning to realiz

man are altogethe keeper is the one

m high prices,

to be forced out dalyman is stand holding his own. origing along and ji confronted with a prices increasing if the increase of a standard prices increasing if the increase of the increase of

When Reducib The Food Contre Needless to say, even fo one way or ano shortage of feed are derstood this call deven on the amount on the waste, or ell the dairy business the amount of feed the, while other z decreased the amount decreased the amount only cut down on the group, those who has the cow, I will say if they thought the

Rather than saving

properly and follow supplies just enough

poor grade to keep

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 Chotham

VOI XXXVII

and

TORONTO ONT. MAY 2 1918

# War Time Savings in the Herd

Considerations in Economical Feeding of the Dairy Cow-By M. O. Maughan

W HILE the great war now raging is directly a struggle for democracy, it is indirectly, among other things, a struggle for better agriculture and live stock farming. Heeding the great call for food conser-ation and the using of it where it will do the most good, there is evidently to the conservation of t great call for food conservation and the using of in where it will do the most good, there is evidently a great future for dairying. With the dairy cow as the most economical producer of human food of all domesticated animals, with the hog second, posity third and the bee coming along in the rear, there is every reason to be optimistic and happy that we are Zairymen, and dexling with the best animals or earth. For a given amount of feed the control of the control of

The war is destined to revolutionise dairying, as well as other agricultural pursuits. Men are just beginning to realize that a cow keeper and a dairying are altogether two different people. The cow keeper is the one who is now suffering decidedly from hish prices, and he is the one who is going to be forced out of the business. The so-called dairyman is standing the pressure fairly well and bolding his own. The cow keeper who has been going along and just barely breaking even is now going along and just barely breaking even is now going along and just barely breaking even is now going along and just barely breaking even is now going the prices for the prices. A study of the increase of prices for his prices. A study of the increase of prices for his prices, and the increase in price of other staple foods.

However, there is one thing to be considered, and that is when the other products begin to decrease in price, dairy foods will continue or linger eat at high price fully long enough in all probability to compensate for the present relatively low price. Therefore, the men in the dairy business should not become discouraged if they are subsides to be road dairymen rather that prove them subsess to be road dairymen rather than cow keepers, they have a bright future. The war is destined to revolutionize dairying, as

have a bright future.

This war is going to eliminate the man who does not know dairying, and who fails to feed and breed properly and follow other proper methods, and who subplies just enough dairy products of more or less peer grade to keep the prices down.

When Reducing Rations Is Unprofitable.

When Reducing Rations is Unprofitable. The Food Controller has made a call to save. Needless to say, every dairyman is attempting this is no se way or another. The high prices and the sherizer of feed are demanding it. Many have 1-versiood this call to mean that they are to extend the same of the amount eaten rather than to cut down on the amount eaten rather than to cut down on the amount of the tentilety. Some men in the dairy baniness have, therefore, cut down on the amount of feed furnished the cow for production, while other men in the business have not becaused the amount, eaten by the cow, but have decreased the amount, eaten by the cow, but have decreased the amount, eaten by the cow, but have decreased the amount, eaten by the cow, but have decreased the amount, eaten by the cow, but have decreased the amount, eaten by the cow, but have decreased the amount, eaten by the cow, but have decreased the amount wasted. To the first one of the cow, but have the cow, they are missing they are making a mistake, if they thought that they were saving by cutting they are the cow, they are wrong, kather than saving they are wasting. A few defi-

nite Sacts will illustrate this. An average cow giv-ing about 20 lbs. of milk per day will use practi-cally one-half of her feed for maintaining her body, keeping herself alive, and the other half will be used for milk production. The cow first uses a part of her feed to supply the maintenance requirement, and then all above this goes to production.

of her feed to supply the maintenance requirement, and then all above this goes to production.

Let us assume the average on lust mentioned costs \$100 for feed. As stated with \$20 lbs. of milk per day. Out of this \$100 worth of feed, \$50 worth goes for maintenance, and the other \$50 for milk. Let us further assume we attempt to save by cutting down on the feed supplied her, and only feed her \$75 worth instead of \$100 worth. As stated, the first supplies the maintenance requirement, and will, therefore, turn \$50 worth of feed toward keeping heresif alive. Only \$25 worth will, therefore. Be left. She can only produce one-half as much milk, or 10 lbs. per day, unless she takes flesh from her body, and this is not the proper suction. For \$75 worth of feed, she will, therefore, only one-half as much milk as for \$100 worth of \$60 mily one-half as much milk as for \$100 worth of \$60 mily one-half as much milk as for \$100 worth of \$60 mily one-half as much milk as for \$100 worth of \$60 mily one-half as much milk as for \$100 worth of \$60 mily one-half as much milk as for \$100 worth of \$60 milk per day will cost \$75, and 10 lbs. of the second 10 lbs. will cost \$25, or only one-half as much milk as for \$100 worth hesofigures it is plainty should as much. From these figures it is plainty should as much. When this is one that the surface was a supplementation of the second 10 the worth of \$60 milk the own and the late of the state will the own and the state will the own the second 10 milk as the worth of \$60 milk the own the second 10 milk the own

enough to maintain life.
Of course, one can feed too much. When this is
done the animal begins to turn the extra milk into
fesh and will show quite plainly, especially when
weighed. But it is very plain that one must not
try to save by depriving the cow of her full ration.
We can not afford to reduce her feed. However,
saving can be perfected by various other methods.

#### Cutting the Roughage.

First, by cutting the roughage, as well as grinding the grain, it is possible to climinate waste due to coarse stems being left by the cow and undigested grain passing from the cow in the manure. The question has often been asked in the past, "Does it pay to grind the hay?" Now it is no question with

feed prices as they now are. It is a fact that it does feed prices as they now are. It is a fact that it does pay, and pays well. Not only does it pay to grind the hay, but also the straw, and often mix them together or pour over the straw molasses, etc., which will make it quite palatable.

will make it quite palatable. Cutting the roughage not only makes it easier to handle on the part of the cow, but it also affords a chance to add other hays and straws not so valuable, to which I will refer later. The cost of cutting hay is often figured at 75 cents per ton.

Think have also shown the advantage of spindings.

hay is often figured at 75 cents per ton.

Trials have also shown the advantage of grinding
grain. No whole grains should be fed. All should
be rolled or ground, and preferably ground. Many
localities have rollers which are wonderfully ineficient. I often find the so-called rolled grain, especitly agas and beglev coming through the animals cient. I often find the so-called rolled grain, espe-cially eats and barley, coming through the animals undigested, and on examination find that they were never broken by the rollers. The dealers in small localities find good rollers too expensive.

#### Utilization of Straw.

A second method of saving is by utilizing the various straws which have heretofore been wasted. They can be fed alone, but are better when given with some other feed which is highly palatable. Pea with some other seed which is nightly palatable. Pea straw, I find, is a very excellent roughage, being far superior to other straws, and comparing rather favorably with alfalfa hay in total digestible matter. invorably with alfalfa hay in total digestible matter, but being, however, somewhat lower in protein, con-taining only a little more than one-half as much protein. This is very successfully fed with alfalfa hay when chopped. Several farmers feed it half and half.

half.
Oat straw may be mentioned here. It is the most valuable of the cereal straws, but not so valuable as field pea straw, as it as field pea straw, as it may be considered to the most straw may be cut and much most star with the more platfable, possible most seem of the most straw may be cut and much most straw may be cut and most straw may be cut and most straw m

Spread on the mixing noor the following: 1st, a layer of cut straw; 2d. a layer of silage; 3d. a layer of cut hay, each about two or three inches deep, and then repeat until about three feet deep. Damp en with water and cover with gunnysacks and allow en with water and cover with gunnysacks and allow to stand twenty-four hours and then feed. They recommend a mixture of 150 lbs. of cut alfalfa, 750 lbs. of silage and 200 lbs. of cut straw, to be supplied twenty-five cows for one day, together with a grain mixture

Next to oat straw of the cereals in feeding value comes barley, then wheat straw and then rys. The last named straw is rather unpalatable and is sel-

#### Feed Good Ration.

A third way to help solve the feed problem is to feed a balanced ration and a good ration. Just as the feed as balanced reads something besides meat or breaking man needs something besides meat or breaking the properties of the properties of the properties of the properties of the properties, in the form of soy hear after amount of proteins, in the form of soy hear after amount of proteins, in the form of soy hear after a soling of the properties of the prop A third way to help solve the feed problem is to

Too many people feed their dairy cows on production alone, and forget that many of their dairy (Continued on page 6.)

A Message to Farmers By Hon. T. A. Crerar.

ON. T. A. CRERAR, Minister of Agri-By Hon. T. A. Crerar.

ON. T. A. CRERAR, Minister of Agriculture, has sent out the following message to Canadian farmers, saking them in order to avert famine to every possible acre in wheat: "Let me again draw the attention of the farmers of canada to the great need there is of planting every acre of land in wheat that seems favorable to growing it. The news that comes daily of that awful, grim struggle now being fought in France and Flanders brings home to us clearly and unmistaken by the face—that, after almost four years of war, human liberty is still in the balance. The call for men is urgent, and they must, to the full limit of our power, be sent. Their places at home must be taken by those who remain. Despite the difficulties, we must produce more food than we have ever done before. Set apart all your land fit for growing crops and plant as much wheat as you can. Plan to bring as much new land on your farm under cultivation as possible, and thus increase your acreage for next year. It will be needed then just as much as now."

May 2, 1919

#### Why Keepand Feed Live Stock?

A New Ontario Reader Gets an Answer

66W E farmers get plenty of advice through the farm papers and government bulleting telling us to feed the crops that we grow or the farm and sell the finished products," writes a subscriber in the Slate River Valley of New Ontario. "What I question is, does it pay, in a climate where stock requires stabling and feeding on garwhere stock requires stabing and leading on gar-nered feeds for seven months in the year, and where it is out of the question to grow corn on where it is out of the question to grow corn on account of summer frosts? Would we not be fur-ther ahead to sell our crops?" On general principles the editors of Farm and

On general principles the editors of Farm and Dairy might have answered that a permanent agriculture can be built only on a live stock basis. Instead we wrote to the district representative at Fort William, who was thoroughly familiar with conditions in the Slate River Valley, and naked him to reply in detail to our reader's query. Mr. Col-

lins writes as follows:-

lins writes as follows:—
"In answer to this enquiry I would say that a profit can be made from either dairying or beef-raising in this district, providing good cows or real beef producing animals are kept. It is my opinion that dairying will be found more profitable than beef raising; and where clover hay, roots and green

feed (oats and peas) can be grown abundantly; and where the pasture remains green until covered with snow, as is the case in this district. not necessary to grow corn in order to feed cows A mixture of cats, peas and vetches will yield abundantly, and will take the place abundantly, and will take the place of corn in the silo for winter feed-ing. Plenty of good clover hay, however, with a liberal amount of however, with a liberal amount of roots and some concentrates will keep up the flow of milk if the cow is inclined to be a producer. Three years ago A. Felker, of Murillo (about eight miles from Slate River), had a cow which received this kind of feed during the ceived this kind of feed during the winter and which produced 14,000 lbs of milk in one year. The pro-fit from this cow for the year was about \$200. Hence the determin-ing factors in this district are the cow and her care and not the climatic conditions.

matic conditions.
"With regard to beef I would say
that one of the beef breeds—Aberdeen-Angus, Shorthorn or Hereford—should be kept. The calves ford—should be kept. The caives should be dropped in the fall and fed well through the following winfed well through the following win-ter and summer, and sold at the age of one year as baby beef. Animals which are not thrifty should be kept over the second winter on rough feed and fattened on the pasture the following sum-mer, and sold when two years old. I would not advise feeding beef animals through our long winter after they are two years of age; as the gain in weight will not be in proportion to the value of the feed consumed."

FARM AND DATRY be to change it from one pair of cows to another, brush the udders ahead of the milker and strip be-hind the milker.

#### Peter McGregor's Tile Drains The Best Paying Investment on His Farm

HE farm of Mr. Peter McGregor, of Maxville in Glengarry County, is one of the best in the district. It comprises 200 acres of level, clay district. It comprises 200 acres of level, clay land, well watered by a creek that runs along the line fence without cutting the farm, well built upon and well stocked with 40 milkers and a nice showing of young cattle. But the part of the farm that ing of young cattle. But the part of the farm that gives most satisfaction for the outlay in cash is the system of tile under drainage. Practically all the farm is now under drainage. Practically all the farm is now under drainaled. Some of the lower fields have a whole net work of drains installed according to the plans of a drainage expert. Other fields in which the drainage was fairly good except in the lower parts, have had these parts drained first as being mos\* in seed. In all over three miles of tile have been said.

of the have been isid.
"One of the ways in which tile under drainage
pays for itself quickly is in the saving of time," said
Mr. McGregor, when I visited him recently. "They
let us get on to our land one week earlier in the



Within the past month or so there have come under my observation a great many example of the value of pure-bred stock as an investment. The following three cases are taken at rate

dom:
The first case is that of the Hillcrest dispersion
When Mr. Brethen started breeding Relseeins did not pay fabulous prices for his foundation sloe did not pay fabulous prices for his fc. nuation size. Possibly the highest-priced animal at hir, recensule would cover the initial cost of his foundation cows; yet at the end of ten years, after retaining cows; yet at the end of ten years, atter retaining this two foundation cows, his present herd sire as eight caives, he turns over the remainder of his stock for the round sum of \$25,000. This is no. all. During that period of time he had had the continuous revenue from milk sales, and an income from sale of stock amounting to several thousands

from sale of stock amounting to several thousand of dollars in a year.

Another instance on a somewhat smaller scale is that of Mr. Carman Baker, of Brighton. A year ago Mr. Baker paid \$330 for a cow. He millied her for a year, she had a bull calf, and at the recent Believille consignment sale, after she had made a test of 32 lbs. of butt.. in a week, he sold the calt for the price which he paid for the cow, and sold for the price which he paid for the cow, and sold the cow for \$1,125—pretty good between the paid for the great on the monger invested.

the cow for \$1,125—pretty good in-terest on the money invested, con-sidering the fact that he has a year's milk thrown into the bar-

The other case is that of We The other case is that of Mr. George Gregg, of Ingersoll. Ser-eral years ago Mr. Gregg laid his foundation for a herd of Holstein He bought cattle of good breeding. He bought cattle of good breeding, and while he paid good round seques, he kept well within the bounds of economy. While he did no official testing, he was a good feeder, and the reputation of his herd for producing large quasities of milk was well established in his local neighborhood. This herd, after bringing in a good in herd, after bringing in a good in herd, after bringing in a good to come for a few vears, during which come for a few years, during which they increased in number to over 60 head, were recently dispersed and thanks to extensive advertis-ing, combined with their local re-putation, they brought in a total of over \$11,000.

These cases, picked at random from many others, give the proof that while the income per year of that while the income per year of the farmer with pure-bred stock may not be in proportion to his investment, yet with careful man-agement his capital increases at a wonderful rate, and when he comes to turn off his capital, in other words, his herd of cows, he is usually surprised at the results.

usually surprised at the results. The above results could doaldless be duplicated in the experience of many of our readers who are breeders of pure-bred eating, and should prove an incentive to many a young beginner in the purbred business.



Two Champion Makers of the Western Provinces.

A feature of the dairy exhibit in connection with the last annual aneeting of the Manitoba Dairymen's Association, was the interprovincial competition in butter and cheese, maker from the three prairie provinces competing. To the left is J. E. Kehoe, buttermaker of the Crescent Creamery, Winnipeg, and on the right is Albert Carriere, cheesemaker of Iles des Chenes, Man. The rapid improvement in the quality of prairie dairy produce speaks well for the dairy manufacturers of the West.

#### A Double Unit Milker

It Gives Complete Satisfaction

Geo. S. Wallbridge, Prince Edward Co., Ont.

NY farmer who will use a little good common A sense and use his cows as he would like to be used himself, will save himself a lot of hard work and extra labor by having a milking machine. From my experience I would advise a man to have a milker if he had only 10 cows. Of course it depends a lot on the man's circumstances, how much help he has to milk and how much land he has to work. If you have a milker, the more cows the better. You don't mind the milking and you can use a gas engine for lots of work besides milk-The cost of new repairs does not amount to Gas is high but it does not take much when running about an hour night and morning

If you want to make time you cannot leave the milker on every cow until she is dry. have bad shaped udders, high in front and low behind and difficult for any milker to stay on. Other cows that have been used to hand milking, some times will not milk any more than two-thirds out with the machine. We have weeded out such cows.

Our milker has not had any bad effects on the cows. We have just one double pall, milking two cows at a time and holding 60 lbs of milk. We have one set of teat cups that fit any cow's teats and no girts. One pall is enough for one man to handle. It will keep him as busy as he wants to

spring than we formerly could, and the value of spring man we isomerly could, and the value of this is very difficult to estimate. In the same way we can get to work more quickly after a heavy rain. On this level farm, water would formerly lie for a week on top of the ground. Now it will drain away in two hours. The physical texture of drain away in two hours. The physical texture of the clay soil has been greatly improved also. Where formerly some of the heavier clay parts of the farm would be like putly at plowing time, either pushing the plow out of the ground or dragging it in so deeply that it would stick the team, now the land turns up like ashes."

While Mr. McGregor has no figures available to show the increase in the crop he says he can notice considerably larger yields off the field since drainage, and that he gets a better sample of grain. In a dry season, it is noticeable that in those fields where drains have only been placed who ly needed, that the best corn and grain grows in the section along the drains. In the same way the ground along the drains. In the same way the ground along the drain warms up quicker in the spring and the grain gets started there first. "The Gregor, "is the drainage. It would double the crops and more."—S. R. N. H.

And he gave it as his opinion, that whoever could make two ears of corn, or two blades of grass to grow apon a spot of ground where only one grew before, would deserve better of mankind, and do more essential service to his country than the whole race of politicians put together.—Dean Swift.

#### Buy Feeds or Grow Them? The Opinion and Practice of R. M. Holthy

The Opinion and Practice of K. M. Holtby

64 T is my belief that the best farm practice is to
grow all the coarse feeds and buy all the cocentrates," says R. M. Holtby, of Ontario 6.

Ont. "You can then keep more stock on a give
number of acres and feed as you like. Even whe
you do grow your oats, there is not enough profes
in them to give a properly balanced ration. I cosider cottonseed the cheapest feed, oil cake part,
then bran, then gluten feed. I would feed bran say
way, especially if feeding heavily, as it lightens be
reached. The proper proper stock up to a year old. ration. I would grow some oats for the horse ast they are fine for young stock up to a year old. I would not think, however, of attempting to gwe enough grain to form the basis of my ration. We buying concentrates I can keep more cattle per are. The cows are limited only by the amount of road-age and the land becomes more fertile. We get just enough grain to keep the land seeded down as

just enough grain to keep the land seeded down as produce all the milk we can, for we have to go to be station with it anyway and we might as well have enough to make the trip worth while.

Mr. Holtby makes an additional comment or ten on his experience in feeding cottonseed. "A fer years ago I bought a ton of cottonseed." as it was afraid to feed it and gave it a headful. time. In our immediate neighborhood we now feel two or three carloads of cottonseed where we use to feed two or three tons. We feed t along will to feed two or three tons. We feed it along with oil cake and bran, as it is safer when fed in such



This Dairy Barn

Prison Farm at that time the self-respect to Last December I aga same institution, b remodelled, refitted erected for the accon convalencing from th and Belgium. I took atted as comfortable equipment which mad and foundry combined the big farm that is In all there is abou

ed in connection with all the way from a repairtying is the main sideline to the dairy, out in orchard and be out in orchard and be set apart as a gamilitary hospital is surequired, and large querement institutionest of the land is commanded diversified frovince. In 1917 was roughly as follow acres; mangels and tu green feed for cows 30 acres, and beans, f the cash crops of the the cash crops of the of pasture, but as parture rough, and as pasture brought in for the ab pasture to put the steheifers have to be past. This, however, will be

The C harley mixture—Alaska as recommended by D the Alaskan oat mature the mixture has proven also grown for seed f also grown for seed five varieties were test C, 72, Banner, Siberian Siberian and Banner The O. A. C. 72 showe was probably due to the manured the previous control of the lodged badly.

With a dairy herd of young stock, great der is placed on the corn of as a result of the big in corn last year no high bought this winter ing bought this winter is something new in tory of this farm. I siles, 20 x 38 feet, wer in the fall and along; ary they were re-fille the 10 or 12 acres of co had been stooked. plans call for 75 acry rar, and perhaps sile.

The Dairy Here My chief interest wa thown for several years of the best grade I herds of its size in trunce. At the time visit there were 68 coving and the daily pro-



This Dairy Barn Accommodates 70 Cows and a Large Number of Young Stock. In the Creamery the Milk is Cared for and the Surplus Made into Butter.

THREE years ago I visited the Prison Farm at Guelph. At that time the object of the institution was to reform and re-

institution was to reform and re-store self-respect to fallen men. Last December I again visited the same institution, but it is now known as the Military Hospital, remodelled, refitted and with three new buildings erected for the accommodation of returned soldlers convalescing from the wounds received in France and Belgium. I took a run through the administration building, looked into the one time cells, now stited as confortable bed rooms for the returned men, explored even so far as the kitchen with its equipment which made it look like a machine shop and foundry combined, and then went out to explore the big farm that is run in connection with the

institution.

In all there is about one square mile of land owned in connection with the institution and running all the way from a medium clay to a light gravef. Deliving is the main line, with pigs an important ideline to the dairy. Twenty acres have been set out in orchard and bush truits. Another 20 acres is set apart as a garden and from this area the military hospital is supplied with all the vegetables required, and large quantities are shipped to other government institutions throughout Ontario. The rest of the land is cropped as would be any well managed diversified farm of the same size in the province. In 1917 the acreage in ayerious crops was roughly as follows:—Hay, 135 acres; green feed for cowa and pigs, 15 acres; potatoes; 39 acres, and beans, five acres. The latter two are the cash crops of the farm. There is a fair acreage of pasture, but as part of the pasture land is very rough, and as pasturage is required for the abottly the pasture to put the sock through, and some of the leafers have to be pastured out during the summer. This, however, will be remedded as more of the land is claired.

The Grains Grown. In all there is about one square mile of land own-

is cleared.

The Graine Grown,
The grain grown last year was mostly an oat end
lade mixture—Alaskan oats and O. A. C. 21 barley as
recommended by Dr. Zavitz. It was found that
the Alaskan oat matures evenly with the barley, and the mixture has proven very satisfactory. the mixture has proven very satisfactory. Oats are also grown for seed for the other institutions and five varieties were tested last year,—Alaskan, O. A. C. 7t, Banner, Siberian and Industrial. The Alaskan, Siberian and Banner were the most satisfactory. The O. A. C. 22 showed a tendency to lodge, which was probably due to the ground having been heavily casured the previous season. The Industrial Oats are

Basical task previous season. The Industrial Based badily, herd of 70 cows and a large number of your stock, great dependence is placed on the corn crop, and as a result of the big acreage in corn last year no hay is being bought this winter, which is something new in the history of this farm. The two slice, 30 x 38 feet, were filled in the fall and alohn in January they were re-filled from the fall and alohn in January they were re-filled from the fall and alohn in January they were re-filled from the fall and alohn from the fall and along the form that the fall and along the form that the fall and along the fall and the fall an

The Dairy Herd. My chief interest was in the dairy herd, which has been

hown for several years as one of the best grade Holstein herds of its size in the province. At the time of my risit there were 68 cows milking and the daily production

## Farming at the Military Hospital, Guelph

The Well Managed Diversified Farm Maintains a Productive Dairy Herd of Grade Cows-By F. E. Ellis, R.S.A.

chauc close—by F. L. Ellis, 35.A.

ran around 1,600 lbs. Some months previous, 71 cows had hit the 2,000 mark. They are bred to freshen, as much as possible, the year round to ensure a uniform supply of whole milk. What is not used as whole milk in the hospital is made into butter in the model creamery, which is one of the features of the model creamery, which is one of the features of the model creamery and the intermediate of dairy cown. In the first place this heard of dairy cown. In the first place this heard of dairy cown. In the first place this heard of dairy cown. In the first place this heard of dairy cown. In the first place this heard of dairy cown private herds all over the province. Good sires have been used and practically all cows required to replenish the herd are now being raised, the total number of live stock being 129 head; and a more promising bunch of grade helfers it would be hard of find. Last year, helfers and all, the herd average was 9,000 lbs. of milk, the mature cown averaging about 11,000 lbs. Some of the helfers coming in with first calf promise to establish a new standard of production for the herd. One helfer produced 60 lbs. of milk testing 3.3 per cent. fat in one day. Two more went over the 50-lb. mark and two more beat 48 lbs., these helfers testing from 3.3 to 3.6 per cent.

per cent fat.

No force feeding is done; in fact, many good dairy farmers would consider that the herd is underfed rather than over-fed, so far as meal is concerned. Cows that are milking well get 40 bs. of enalizage, 15 to 20 bo. of roots, six to seven pounds of hay and six pounds of the grain mixture daily. An extra good producer may get seven pounds of grain per

The old barns which did service on one of the farms purchased when the government farm was established have been rearranged as headquarters established have been rearranged as headquarters of the swine department. These quarters what rough, perhaps a little hard to need to tell the head to head to the second as the intention to erect a new piggery as soon as the present war conditions will allow. Large Vorkskines is the breed favored. The sucklings are started off with skim milk and middlings and then a bit of choice kitchen swill. As they get old enough to stand it, oat and barley chop finely ground is added and the proportion of middlings gradually decreased until when turned off they are getting practically no middlings there is to feed most largely of farm grown grains. The sows, except when with litters, get nothing The sows, except when with litters, get nothing more than kitchen swill, an economical source of feeding stuffs not available to the majority of pork

The farm end of the Military The farm end of the Military Hospital is under the efficient man-agement of a returned soldier, B. H. C. Blanchard, B.S.A., a graduate of the Ontario Agricultural College, at one time associate editor of Farm and Dairy, severely wound-ed in France and now thoroughly

enjoying himself in the management of a good big dairy farm. So other returned men have not figured largely in the other returned men have not figured largely in the working of the farm. Several have been employed and more will be as they return from the front. But the several have been employed and more who desire instruction in the front grant man the front grant from the front struction in the theory and practice of agricultars. Vocational training is given the conhection with the several factories which form a conhection with the several factories which form a work of the institution. As yet, the classes are small, but as a matter of time till the numbers will be greatly creased. The military hospital at Guelph may yet prove an important connecting link between returned men and the land.

#### Advantage of Tile Drainage In One Instance the Crop Increased 108%

T the Experimental Station, Ste. Anne de la

A T the Experimental Station. Ste. Anne de la Pocatiere, Que, an experiment on drainage has been conducted, the results of which aboud be of great interest to farmers, as they teach an eloquent lesson in favor of good soil drainage, a practice which should be encouraged as much as possible in these days when maximum production is the

tice which should be encouraged as much as possible in these days when maximum production is the duty of every farmer.

A certain area of level land was taken for the experiment and divided into two fields, A and B, absolutely similar in every way. Field A was under-drained by means of three-inch tile placed at a substitution of the desired results of the control of the control

normal year.

The difference in crop yields. however, is not the only point in favor of tile drainage. There are other good effects also. After three years the experiment has proved that the soil on the tile drained area has be on the the drained area has be-come much more porous and more mellow, than the soil which was only surface drain-ed. It can be cultivated more easily, and can be worked and sown earlier in the spring. It sown earner in the spring. It will be readily seen that this is of great importance in Eastern Quebec where the springs are often late and the growing season relatively short.

The cow on half rations is never as profitable as the one that is getting plenty to



The Horse Barn at the Military Hospital. It accommodates 32 Horses and was not Completed

(8)



Farm and Dairy stands foursquare against everything that is detri-mental to the farmers' interests, and whatever appears in its columns, either advertising or editorial, is guaranteed reliable.



#### Good enough for town streets, uet cheap enough for country roads

This street is just good macadam which has been "wear-proofed" by spraying with "Tarvia-B" from a modified sprinkling-cart.

Tarvia applied thus every three or four years is the cheapest known method of road maintenance. In fact, it lowers road costs so much as to make macadam more available than ever before for rural highways. The old fear that macadam would cost too much to maintain is removed-Tarvia makes the macadam endure.

The Tarvia actually enters into the road, cementing the stone together, making a tough, plastic surface over the whole road, excluding water and frost, and making it automobile-proof, dustless, muddless, and durable.

Thousands of miles of cross-country roads in the Dominion and the States are tarviated now as a matter of net economy.

The main roads of whole counties in the States have been converted to Tarvis. Some counties have fifty miles or more of tarviated rural roads that are just as good as the nice residential street in Woodstock shown below.

Booklet telling about the various Tarvia treatments free on request.



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



Winnett Street, Woodstock, Ontario, treated with "Tarvia-B" in 1917

#### War Time Savings in the Herd

cows are still young and immature, and they fall to feed a certain amount for growth. The following incident illustrates this point: A short time ago I went into a dairy barn where good methods were supposed to be practiced. They told me they were feeding on the basis, of production. In the barn were young heliers which were possibly only two-thirds grown, and yet they were being fed on production alone, thereby supplying nothing for growth. It is needless to say that all the "almais were undersized."

The question may here be raised concerning the feeding of a herd of cows. Should they be fed separately, cows. Should they be fed separately, each according to its own weight and production? No. Ordinarily this is quite impossible. One would have too big a bill for labor. However, one can get an idea of what his cows average in weight, and can find out quite definitely what the individual production is, and also what the average production is, and then figure out a balanced ration for the herd, knowing the average waight the average test and the average yield of milk. He can then feed as much hay and straw and roots and silage as the animals will clean up, and then can feed his grain according to their individual yields, feeding for Jersey approximately one pound for each three and a half pounds of milk, a high-testing cow receiving a little more than a low-testing one giving the same amount of milk.

#### What is "A Good Ration."

By a good ration I not only mean balanced ration, but one more than that. A ration may be balanced and then not be the best. We like, be-We like, be then not be the best. We like, be-sides a balanced ration, one with variety, bulkiness or lightness, pala-tability and good mineral matter or ash content. The failure of many high-record cows to breed is often at-tributed to lack of mineral matter. Mineral matter is especially good in the legumes such as clover or alfalfa but is rather poor in the grains.

Of course, we must mention, among the essentials of a good ration, the point of low cost. Naturally this is one of importance and one most often considered of first importance. With many of our grains that we have been feeding to our cattle, and yet which can be used for human consumption, will have to be replaced by products and by-products not used for human

Too much emphasis can not be laid on studying the feed market. Farmers should club together and buy in this manner

#### Take Good Care of Cows.

A fourth way to save is to study individual cow and give her the best possible care. No two cows are the same. They are just as different the same. They are just as dinerent as people. Some cows are very delicate; others are good feeders and strong. The extent to which one can cater to the individual wants of the cow depends largely upon the kind of business conducted by the dairyman, whether he is attempting to feed for records or feed only for fair yield.

We can generally save by groom ing her occasionally. It is often said that a curry-comb and brush on a horse are worth half a feed of oats This is applicable to the dairy cow and will generally pay. Warm and and will cenerally pay. Warm and comfortable quarters during the cold weather will also pay. There is no need, however, of providing too elaborate and costly quarters for the elaborate and costly quarters for the cow. Too many men over-estimate the "alue of fancy equipment, and underestimate the value of proper methods in the production of milk. Recent findings show no direct com-nection between the score of a dairy

(Continued from page 3.) farm and the quality and cleanliness

of the milk. of the mik.

It is being found that too much amphasis is being laid on equipment even in the score-

Another frem which may be men. tioned, namely, one relating to water supply. One will find that it will pay to devise some method for heating the drinking water through the winter months, rather than forcing the cows

#### Bulld a Summer Silo.

A fifth way to save is to build a slio. They are exceedingly valuable both summer and winter and will very soon pay for themselves. Experience has shown several feeds make good slige besides cora, among which are oats and poas together, winter wheat vetch and many others. Of course, corn still seems to be king. If the silo, or siloes, are filled with corn in the fall, and one is emptied during the winter, and corn-stalks are still available, they can be cut and placed in the silo with plenty of water added and good silage will result.

Many dairymen now assert summer feeding is a more se more serious problem than winter feeding, because pastures are too often short, and suc culent feed, therefore, not available It is now a common practice to grow a spring crop and feed as much as one can, and then fill the silo with the recan, and then his the silo with the re-mainder, thereby providing succulent feed for the rest of the summer in the form of silage. Oats and peas are especially good for this. In the old especially good for this. In the old country the soiling system is employ-ed whereby they have several green succulent feeds coming on in rapid succession throughout the summer, and when one begins to go another is ready to feed. They sometimes feed ten to twenty different crops during the summer months. Their labor is or has been, cheap. Here it is en-pensive, and I hardly believe this system will work here for the reason of the expense making it almost impossible. The summer sile will offer us a good substitute for such a are

#### Rations for Young Stock and Bulls.

A sixth way to save is to carefully feed throughout the winter the dry stock and the young calves and bulls stock and the young calves and bulks. Too many people try to keep the growing helfers in what we may call show condition. To do this require unnecessary feed. In a feeding a periment which I recently conducted, I fed three aroups of helfers various rations for six months in winter, and then turned them all to pasture in the spring time. One group of four dairy helfers was fed a ration which allowed of but limited growth, name ly, one-fourth pound per day. ration was timothy or wild hay and silage. Some could not gain on this and had to receive some little grain Group two was liberally fed roughage and only given two pounds of grain per day. Group three was heavily fed, receiving all the alfalfa and silage fed, receiving all the alraita and singe and grain they could eat. Some con-sumed as much as eight to 10 pounds of grain per day. I may here say I was not afraid of them losing their dairy characteristics and powers for milk production by becoming fat as some people believe. The results showed that they all grew about the same in height, which was rather surprising, while the gains were one fourth pound per day for group one, one pound for group two, and one and one-half pounds per day for group three. The interesting part came when they were all placed on patture. Group three, the fat ones, led and lost heavily, the medium fed one lost a little the first month, but galled well thereafter. Group one, the low feds, gained very rapidly. end of six months winter and in months summer, making the one yest,

the ones under fed i far below the others fat ones were no fu then, the excess gra

The baby calves started out on whole end of ten days or t changed to separ by three weeks of a skim-milk entirely two or three weeks ration is three par ration is three pal ground oats, three p ground corn, three I bran and one part li

Mention must her buils. They will d 10 to 12 pounds of nounds of silage w nounds of grain per



On Boo

OOSTERS in con B tario are rare only examples this "extinct species will collect dust in museums. This wil They have us stuffing. home in the matter -though their specia saying, however, in farming communities sit tight. Our fa to sit tight. Our fa stantial buildings. 'handed down to us fr ers and now with hig wheat we feel that thing. So why reach

And the boosters the strength of our rayon portrait enl Western building lots chasers on the conce tario. Then we had t well we remember hi face, ornamented wit hat set rakishly on head, and the smart seems but vesterday t of embossed green an tificates. But nothing him save a memory. like the morning mist agents offer their was getically. Yes, the be tario has gone to se smug to make good p

But last summer I tario. And the first my old friend of t tario He was driving the station to the he town in which I stop bell—not exactly the But boosters ardized like Fords.

"What do you gro try?" I asked him. It trance to the country proach through the stretching from North bury, had not led me thing very wonderful farming lands.

Iriehman-like he ar question, full of fine was you rose?"

On receiving my s fession that I had spe Me outside of New Or the ones under-fed in the winter were far below the others. They surely had been retarded in their growth. The fat ones were no further ahead than the medium fed ones. Evidently, then, the excess grain fed to the fat ones was thrown away or wasted

ones was thrown away or wasted.

The baby calves likewise must receive special attention. They can be started out on whole milk, and at the end of ten days of two weeks gradually changed to separated milk, so that by three weeks of age they will be quismountly entirely. When they are two or three weeks old, they will begin for fibble hay and grafe. A good ration is three parts by weight of ground corn, three

Mention must here be made of the bulls. They will do better work if fed only liberally. A good ration is 10 to 12 pounds of hay, eight to 15 pounds of silage with possibly two sounds of grain per day.



#### On Boosters

BOSTERS in conservative old Ontario are rare birds. Soon the
tario are rare birds. Soon the
tario are rare birds. Soon the
tario are rare birds.

"exinte species" of a specimens with
the a couple of stuffed specimens with
the second of the specimens with
the specimens will indeed be a
change for the boosters—to be stuff,
ed. They have usually done the
stuffing. But they will be right at
home in the matter of collecting dust
—though their speciality was some
one hard-earned gold dust. As I was
saying, however, in the older settled
farning communities we have learned
farning communities we have learned
farning communities we have been
handed down to us from the speciality
wheat, we feel that we have a conwheat, we feel that we have a conwheat, we feel that we have a con-

And the boosters seem to realize the strength of our position. Time was when wild cat mining shares, was when wild cat mining shares, and the strength of the

But has summer I visited New Ontario And the first chap I met was my old friend of the button-holling days. He was driving a stage from the station to the hotel at the first town in which I stopped in the clay bek—not exactly the same man you know. But boosters are now standardized like Fords.

What do you grow in this country." I asked him. It was my first entrace to the country and the long approach through the rough country, stretching from North Bay to Halleybury, had not led me to expect any, thing very wonderful in the line of farming lands.

irishman-like he answered by a question, full of fine scorn, "Where was you rose?"

On receiving my shamefaced confession that I had spent most of my Me outside of New Ontario, he began

with my education. He informed me that the farmers in the clay belt can grow "every doggone grain or vegetable ever attempted in Old Ontario and beat Old Ontario and beat Old Ontario and beat Old Ontario and beat Old Ontario all to mush and molasses at its own game. Where will you see a garden like that in the will you see a garden like that in the old Old Ontario and the see that the see that the open of the control of th

Ing country.

I found the people throughout this new district all boosters, or if there were a few who could see the drawbacks to their own country they were looked upon with suspicion. When such an one passed down the streeg, the neighbors might be observed tapping their foreheads significantly, or mak-

ing circular motions with their hands in the vicinity of their ears. The typical posture of the citizen of

The typical posture of the citizen of this as of any new country, is that of the barker at a circus—left thumb in armhole of waistcoat and right hand extended. Instead, however, of saying, "Here, ladies and gentlemen, we have —" he steps back and allowing the visitor to gaze his fill at the field of clover or peas ufficer surveillance, he asks, "What do you think of that?" And one can only numur over and over again, "Wonderful! Wonderful!"

We in the East, particularly in the older settled communities, are often looked upon by our fellow countrymen of the newer opened districts as being more or less atrophied. They think because we do not try to seli

them, by mail, town lots in our back pasture, that we have lost the sip of youth. In reality I believe, however, youth. In reality 1 believe, however, youth. In reality 1 believe, however, and the second of the s

(7)

Sam Ray



# A Truck for the Farmer

FARM equipment which will effect a time and laborsaving, and therefore a money-saving, must be carefully considered by every good farmer now-a-days.

The farm wagon, which for years was the most useful of all farm equipment, is now being replaced on the best farms by a sturdy, dependable motor truck. The truck will haul any farm product—fruit, grain, vegetables, stock, fertilizer, or wood—around the farm, or to the town or city many miles distant, in half the time, and at a much lower cost.

The Ford One-Ton truck is a rapid, economical and very serviceable means of transport. One of these on your farm will save you weeks of time in a single season and will enable you to pass through a crisis of labor shortage with less difficulty.

The Ford truck is supplied as a chassis only. This permits you to select any of the many body styles especially designed for the Ford truck and already on the market. Thus you can mount the one which suits your individual requirements.

Price \$750 f.o.b. Ford. Ont.

See any Ford Dealer in Canada, or write for a catalog

Ford Motor Company of Canada, Limited Ford, Ontario



Three of the many body styles that may be mounted on the Ford truck chassis

#### CREAM WANTED

It will pay you to send us your cream. We supply cans. We pay express charges. You can count on our prices being right.

We Want Your Cream

LINDSAY CREAMERY, LIMITED

## CREAM WANTED

We Buy Cream and what's more important We Pay for It

TWENTY YEARS experience is at your service. We furnish cans and do all that any other reliable firm can promise.

---- ANY BANKER ANY CREAM SLIPPER

TORONTO CREAMERY COMPANY, Limited 9 CHURCH STREET, TORONTO, ONT. A Line Brings Particulars

Make yourself more efficient. Improve your spare time by reading. Send for our descriptive catalogue of Farm Books. A postal will bring it to your address. Write

Book Dept.

FARM & DAIRY

Peterboro



# POULTRY

The Last Chance

THIS week and the early part of next, the farmer or his wife, whichever takes charge of the poultry, will have a last opportunity of setting eggs that will hatch profitable layers for next winter. The most profitable chicks of all are hatched out around April 15. These early chicks will lay in October and will be profitable in every winter month. Every effort should be made to have all of the chicks out by may be patched up HIS week and the early part of the chicks out by the 24th of May, at-though Leghorns may be hatched up-to the first of June with prospects of a fair egg yield before Christmas. Prof. F. C. Elford, of Ottawa, makes the statement that at least 90 per cent. of the pullets in Canada were not lay-ing during November and December of ing during November and December of the past winter because they were hatched too late. Prof. Graham, at Guelph, states that pullets hatched in the middle of May will not start laying until six weeks later than those until six weeks later than those hatched the middle of April, but that hatched the middle of April, but clast those hatched two months late are apit to be four months later in getting started laying. These statements are in line with the experience of all good poultrymen and emphasize the im-portance of making the last settings

immediately.

The greatest difficulty in getting early chicks under farm conditions is that hens are slow in becoming broody that hens are slow in becoming broady early in the season. This difficulty may be gotten around by the purchase of a small incubator, say a 140-eg size, by getting someone who has ex-tra incubator capacity to hatch for tra incubator capacity to hatch for their neighbors, or to purchase day-old chicks. The latter is the plan which seems to be commending itself to the majority of farmers who realize the najority of farmers who realize the advantage of early chicks, and the day-old chick business is growing apace. In fact, many commercial poultrymen are now making no pens ship hatching no chicks. They depend altogether on day-old chicks for renewing their flocks. Late hatches are always a mistake and will involve .more financial loss this year than in any year in the past.—J. B. L.

Incubation Pointers

Incubation Pointers

THE keynote to successful winter
egg production is "early hatching." It matters not whether
the natural or the artificial method of
incubation be used, the chicks must be
hatched early, if the best results are
to be obtained. If it is impossible to
secure enough broody hens carly in
the season to hatch the number of
chicks required, purchase an incuhator. bator.

bator.

In buying a machine, it should be borne in mind that at the most only three hatches can be taken off in the proper hatching period. The incubator, therefore, should be of sufficient capacity to produce at each hatch at least on-or-third the number of chicks required.

There are a lot of good incubators on the market. Do not be deluded into buying a machine just because it is low in price. The low-priced incubater is very often the most expensive in the end.

The incubator should be placed in a room that is fairly even in temperature, has a good, solid floor, and that can be well ventilated without draughts

in running any incubator, the manufacturer's general directions should be carefully followed, as he is the one that should know best what his machine requires.

chine requires.
At the same time, a little variation
in the handling will often greatly improve results. Climatic conditions
sometimes alter requirements. A machine that does not require added
mointure in one locality may in
another. A relative humidity of between b5 and 50 inside the egg chamber gives the most satisfactory re-sults; if a machine is not giving these

#### CREAM WANTED

We again solicit the patronage of both old and new shippers for the coming season.

Shipments will receive the same careful attention as in the past and highest prices will be paid and highest prices will be paid promptly for good churning cream WRITE US FOR PRICES AND PARTICULARS

Reference, Merchants' Bank, or

Valley Creamery of Ottawa 319 Sparks St., Ottawa

#### GREAM WANTED

For better service and higher market prices, ship your cream market prices, ship your cream to us. Cans supplied free. Watch this space for prices. Our price next week 52c per lb. fat. A card brings particulars.

MUTUAL DAIRY AND 743 King St., W., Toronto



#### HAULING RIGGER, LOADS

without extra spanning is easily accomplished when you

MICA AXLE GREASE "Use half as much as any other

Axles are rough and porous, causing friction. The mica flakes fill the pores and the grease keeps tilem there. Mica Grease prevents locked wheels and hot boxes, gives sure relief for unnecessary strain on horses and harness.

#### **EUREKA** HARNESS OIL "Lengthone leather life"

replaces the natural oils that dry out of the leather and puts new life in old harness. It penetrates the leather leaving it soft and pliable, and overcomes the worst enemies of harness-water and dirt.

field in standard sized packages by I've

IMPERIAL OIL LIMITED



May 2, 1918 This may best be

tray or above it, dep In starting the n In starting the masser all days until is isted before putting two kinds of therm monly used are the should register about hanging, which is should register 102 slow in coming off, ture in succeeding wersa.

From the second begin to pip, they twice a day. The cooled, the length of depending on clima temperature at is being run.

during the hatchand again about the all dead germs shoul little practice will what it is safe to tal lange in

As soon as the e teenth day, close up the temperature rise expected at this tin It is due to the by the chicks strugg batching is over and become thoroughly ing the machin-

Brooding ! N our poultry exp mothered by hens, to equipment for artifici with all systems of the pipe brooders of poultryman, and are dvice on brooding whom we sell eggs the light of our own would advise that w method of broading over 100 chicks are would be better to a sideline a worth wh plan on 300 chicks or number, proper equip good investment, and can be handled actu trouble than 100 chief

If the natural methbreeds, such as Rod dettes, will make bett will Leghorns or Anec planned to have the planned to have the several broads at a til 15 to 18 chicks to each selecting those that in the best mothers. the best mothers. I gotten back into the gotten back into the Fer each brood we pre familiar "A" coops, we frequently to freeh gr were kept housed we were small, and alwa morning while the deve on the grass. At press rar only one or two using eggs purchased trymen, with the id ceckerels to mate wit the following spring.
Practically all of coronded artificially, a ence is for the coal home of these brooders

date from 200 to 500 der is set in the c the chicks brooded the longer need artificial her is then taken out the summer, the coc moved to fattening pe lets are reared in the which they were brochouse eight feet squar date 300 chicks.—F. E conditions, moisture should be added.
This may beat be done by placing a
tray of wet sand either under the egg
tray or above it, depending on how the
machine is heated.

machine is heated.
In starting the machine, run it for several days until it is perfectly regulated before potting in the eggs. The lated before potting in the eggs. The should register about 10.2, and the handing, which is usually hung and should register about 10.2, and the handing, which is usually hung and should register 10.3. If the hatches are slow in coming off, ruise the temperature in succeeding hatches and vice

versa.

From the second day until 'he eggs begin to pip, they should be turned viece a day. They should also be cooled, the length of time for cooling depending on climatic conditions and the temperature at which the machine is being run.

is seeing runit is advisable to teat the eggs twice during the batch-once about the seventh day, when the infertile eggs and "blood rings" should be removed, and again about the fourteerth, when all dead germs should be taken out. A little practice will soon teach just what it is safe to take out and what to

leave in.

As soon as the eggs begin to pip,
which will usually be about the eighteenth day, close up the machine and
leave it until the begin to the second leave it until the
period of the second leave to the second leave it could be
expected at this time, and is a good
sign. It is due to the heat generated
by the chicks struggling to free themselves from the shells. Wait until the
hatching is over and the chicks have
become throughly fried before opening the machine. — Experimental
Farms Note.

Brooding Methods

In our poultry experience we have come up all the way from a batch mome up and up and

If the natural method of brooding is to be followed, birds of the heavier breeds, such as Rocks and Wyandetts, will make better mothers than will Leghorns or Anconas. We always planed to have the chicks come out several broods at a time and then give 15 to 18 chicks to each hen, carefully selecting those that promise to make the best mothers. The others were gotten back into the producing flock. For each brood we provided one of the bmilliar 'A' coops, which were moved frequently to fresh ground. The hens were kept housed while the chicks would be a supported to the complex of the com

tyshen, with the reas or reasons cockarels to mate with our own birds the following spring.

Practically all of our chicks are brooded artificially and our preference of the coal burning brooder. The coal burning brooder is the coal burning brooder from 200 to 500 will accommodate be coally be commodated to the coal will be commodate from the cockered are removed to fattening pens, and the pullets are reared in the same house in which they were brooded. A colony house eight feet square will accommodate 300 chicks.—4°. E. E.

\$2.21 Per GUARANTEED CAND WHEAT



Oats, Barley, Flax, Live Stock GREAT OFFORTUNITIES

IMMENSE WE\_LTH IN WESTERN CANADA

SEND FOR

and Settlers

LOW

FARES

100,000 FREE FARMS
OF 160 ACRES EACH. Coverment, I ands along the Canadian
Northern, surveyed and much for most price price in stuffing, and a share
of the three-quester billion delays for crops part in stuffing, and a share
for farmers this Fail. Estimated crop values of Whata, Oata, Barley and
631,863,700,000 er 1971 in Manifolios, Sankarchwan and Alberts is

IMPROVED LANDS FROM \$15 UP PER ACRE

ALONG CANADIAN NORTHERN. R.c., well located farms, close or nilway—immediate producers—can be purchased on easy terms ash, or cash and crop payments. Means schools, good roads, telephone and convenient transportation. Act now get away this

Tractors other Farm Implements
Easily available—new Government assistance plan.
Capital or no capital—the work, the opportunity, is then not the
capital writing the control of the capital of the capita

When Writing Mention Farm and Dairy

Brantford Kerosene Engines

11/2 to 60 H. P. Stationary, Mounted, Traction



These engines are the perfected product of years of study and experimentation with Internal Combustion Engines on the state of the stat

runs on coal oil or naphths.
We also manufacture a full line
of WINDMILLS, Grain Grinders,
Saw Frames, Pumps, Tunks, Water
Boxes, Concrete Mixers, etc.
Catalogue of any line malled on

690LD, SHAPLEY & MUIF CO., LTD. Brantford, Winnipeg, Regina, Calgary.



# **Bissell** Service

ARE ONE. The Implements bearing the Bissell trade mark stand always for service—one goes with have time and again made a record for themselves doing double the work against all competitors.

The merit of the Bissell implements is strikingly proven by letters from representative farmers in Canada, United States and New Zealand—one of our many satisfied users writes as follows:

Mesvin P. O., Sask., Canada, T. B. Bissell Co., Edd., Elora, Ont.

Daer Siers—
Yore Disk, which I have used fug jon years, has given me excellent sicilitation. I have only get one pide; the state of the Dear Siras

The particular impressing fea-ture of "Bissell" implements is their durability. Words of Praise encourage us to make "Bissell and Service" greater than ever. The name Bissell has the con-

The name Bissell has the con-fidence of all farmers because of the assurance they have in the service and guarantee that backs up the implement bearing the name. Becognition of this fact is the Foundation Stone of Bissell's Service.

T. E. BISSELL CO. LTD. ONT. FLORA.

Sweet Fresh Ensilage down to the last forkful THE HYLO SILO is per-fectly air-tight. No frozen or spoiled ensilage around the walls. Convenient and perfect itting deces, adjustable without

### BSORBINE

Reduces Strained, Puffy Ankles, Lymphangitis, Poll Evil, Fistula, Boils, Swellings; Stopa Lamenese and allays pain, Heals Sores, Cuts, Bruises, Boot Chafes. It is a SAFE ANTISEPTIC AND GERMICIDE

Does not blister or remove the Does not blister or remove the hair and horse can be worked. Pleasant to use. \$2.50 a bottle, delivered. Describe your case for special instructions and Book 5 R free, & BSORBINE, JR., satisful fainess for mashind, re-bects brains, Phink, Kostend. Swiller Veins. Concess-tation of the Concession of traced—only a few drops required at an application. Price \$1.25 per bottle at dealers or delivered. W. F. YOUNG, P. D. F., 123 Lymans Bidg, Montronf, Cam-

Absorbine and Absorbine, 3r., are made to Canada.

#### HORTICULTURE

Orchard and Garden Notes D LANT peas, onions, radishes and

lettuce now.

Don't let the hotbeds and cold

frames get too warm. Ventilate well when the sun gets high. Plant parsnips, carrots and Swiss

Be sure the fruit trees are thorough sprayed this spring. Wormy fruit is

It is usually a safe plan not to be in a hurry to uncover fruits or perennial plants in the spring until warm set-

plants in the spring until ward, stilled weather.

A small kitchen garden near the house is worth more than a large one half-a-mile away, and will be more

Children should be taught to care Children should be taught to care for a part of the garden. If properly directed, they may be interested in plant life very early in life and really can do much useful work.

can do much useful work.

Uncover strawberries before the follage becomes bleached white. Leave the covering on as long as possible. It may prevent their blossoming in time to be struck by a late frost

#### Mice or Rabbit Injury

S mice or rabbits have, doubt less, injured many trees in Canada during the past winter, the following information is given in re gard to the treatment of the trees in order to save them. If a tree is badly girdled by mice or rabbits, it usually dies if left untreated. If, as soon as the wound is noticed, it is cleaned and covered with grafting wax or some paste, such as sulphur, cowdung and chay, and wrapped with cloth to exclude air and prevent the wood from drying out, there is a possibility of saving the tree if the girdle is a of saving the tree it the girdle is a small one, as the sap which rises through the wood will continue to do so, and returning through the inner bark in an elaborated condition will cause growth to be made all around the upper part of the wound, and if the latter be not too large there is a chance of its healing over. If, however, the wood becomes dry before the bandage is put on, the tree will almost certainly die, although it may continue to grow throughout the sea-When the wax and bandage are applied the tree should be headed back considerably to lessen the amount of transpiration of moisture as there will not be as much sap rise as if the tree were uninjured, and the wood will thus dry out sooner than if it were headed back. If the girdle is near the ground, in addition to covering the injured part with wax or cow dung and clay, it is advisable to mound up the soil about the tree to cover the wound and shus help to prevent the wood from drying out. The mound should be up about six inches

mound should be up about six inches above the wound and be about two feet across at the base. Bridge Grafting. Girdled trees are frequently saved, and more surely saved than by the above method, by connecting the upper and lower edges of the girdle with scions, which are inserted about an scions, which are inserted about an inch apart all around the trunk. This is known as bridge grafting. The more scions that are used the more quickly they will grow together and form a new trunk, but two or three scions successfully grafted on a small tree will carry enough sap to keep the tree alive. A slanting cut is made at each end of the wound in the unlaying and the state of the science of the state of the science of are to be inserted. Strong, plump scions of the previous season's growth -not necessarily from the same tree nor even the same variety, cut a little longer than the distance between the slanting cuts, are made wedge-shaped at each end. They are made a little at each end. They are made a little longer than the distance between the cuts in order that when inserting the

nds into the cuts it will be necessary I ents into the cuts it will be necessary to bend them, and thus have them un-der pressure, which helps to keep them in position. After inserting, some of the inside bark of the stock should remain in contact with the inside bark of the scion, as it is here, or at the cambium layer, where union or at the cambium layer, where union takes place. As soon as the scions are all placed, the wound, especially about the ends of the scions where inserted in the stock, is covered with grafting wax. The ends are also at the same time bandaged with a piece of sacking around the trunk to aid in keeping the scions in place and to exclude the air.

The tree should then be well headed The tree should then be well headed back. The scions, if properly made and inserted, should soon unite with the stock and then carry the sap to the top of the tree.

the most natiafactors methods of utilizing the badly girdled tree is to cut it off close to the ground tree is to cut it off close to the ground and insert a scion of some good variety. This graft should grow at least three feet in height the first sea-son and make a nice young tree.

A young tree may sometimes be saved when the girdling is well above saved when the girdling is well above the graft by cutting the tree back so as to remove all of the injured part. Under such conditions, young trees will usually make new growth, and the strongest shool may be selected to form a new trunk and top for the tree. This method is not usually very satisfactory if the injury occurs more than two years after the tree has been

S CABBY potatoes are worth much cooking purposes because a considerable portion has to be pared off and the parings as a general rule tain the best part of the potato. Potaagainst scab when sowing their seed Scabby seed may be treated by soaking for two hours in a solution of formalin, one pint of formalin to 40 gallons of water in a barrel. I change the water every day as it loses strength after a certain number of potatoes have been soaked in it.

Potatoes should not be treated with formalin unless they are scabby enough to warrant treatment. The formalin treatment will put back the growth of potatoes 10 days, because all the buds that have started will be killed by the same agent that kills the scab and growth will have to begin all over again.—Douglas Maynard, Leamon Ont

#### Windbreaks for Comfort

GROVE on a farm greatly improves its sale value. Trees arranged in nice shape around farm-house and buildings will raise farm in the estimation of a buyer, who wants an attractive home, a good many times the value of the time and money put into the planting of the

trees. Windbreaks are a great protection from the hot, dry winds of the summer and the cold, chilling winds of the winter. They are especially beneficial to orchards, preventing the winds from blowing off the blossoms in the spring and shaking off the fruit in the fall. Windbreaks also protect fruit trees from blight and winter

A well arranged strip of trees is a great protection against drifting snow. Clover and winter crops, such as winter wheat and rye, protected by a belt of trees which prevents the snow from blowing off, will produce much better and be less subject to winter killing. In summer and spring a tree belt protects from hot, scorching winds, which cook the grain bethe ground before it sprouts.

The protection which a good wind-break will give to stock in winter will pay in a short time for the cost of establishing the windbreak.-W. H.

#### A FORTUNE IN POULTRY



Increase yield by hatching our high-to-lay R dottes, Reds. eggs from Rocks, W.
Leghorns

Our 264 Egg Kind L. R. Guild. Box 76, Rockwood, One

#### UTILITY POULTRY FARM

After 15 years' careful breeding, we feel that we can supply you with the best day-old chicks procurable in Canada at very handsome prices.

Get your orders in early and avoid disappointment.

E.F.MONTGOMERY, Mgr. STRATFORD, ONTARIO

#### THE REPLACE OF THE

To cure use Fieming's Pietula and Poil Beil Ourse. Basy and simple. Cures the older cases. Moncy refunded if it ever all write for copy of Fieming's Vest Pocket Vet. Adviser. Sent PRES on request. FI.-PMING BROSS., CHEMISTS 83 CHEMISTS, VORDONTO, ONT.

#### FOR SALE:

One heavy duty type "SUC-CESS" Churn, 1,000-lb. capacity, enamelled white. In good order. W. A. DRUMMOND CO.

77 Jarvis St. - Toronto, Oat.

#### 243 Acre Farm \$3,000 Pr. Horses, 8 Cows

Pr. Horses, 8 Cows
Bull, heifer, hog, poultry, mower,
rake, plow, harrow, cultivator, porake, plow, harrow, cultivator, potato digger, wagon, carviage, harculded by invalid owner if takes
quickly. Mail delivered, convenification of the convenicondition of the convenification of the convenience of the convenience
convenie

E. A. STROUT FARM AGENCY. Dept. 9. 150 Nassau St., New York, N. Y.

#### FOR SALE AND WANT ADVERTISING

THREE CENTS A WORD, CASH WITH ORDER WHITE AND COLUMBIA WANDOTTES, LIGHT BRAHMAS, & C. WHITE LEGHORNS.

Michael K. Boyer, Box 23, Hammonton, N.J.

FARMERS' STATIONERY—100 letter heads, 3 x 11; 100 envelopes, good stock, printed name, address, etc., anywhere in Ontario, \$2.25; cash with order. Farmers' Printery, Beaverton, Ontario.

POR SALE—2 Unit Sharples Mechanical Milker, has been in use about 3 years. In good repair. Terms reasonable. Do not need it, as I have sold my farm. Phone or write. JOHN McNAT, Box 286, Seaforth, Ont.

Box 364, Seaforth, Ont.
IMPERIAL RINGLET BARRED PLY.
MOUTH ROCKS—Winners. Both mains, sages 31,00 per 15. Bred-to-lay White
Wyandottes, Martin's Dorcas strain, 34
per 15. J. H. Parsons, Coatlook, Que.
LADIES WANTED—To do plain and LADIES WANTED—To do plain light sewing at home, whole or si time, good pay, work sent any dista-charges paid. Send stamp for particul National Manufacturing Company, Me

DUCKS.—America's greatest winning heavy egg producting (300 strain) Barberd you'll eventually keep. Lay more eggs than hens on less feed. Largs more white ferthe eggs, 31.50 the settle. Special price on large lots. Apply La Murray, Harrow, Ont.







Appearance, Performance. Comfort, Service and Price

my LY,

Light Four Model 90 Touring Car

Willys-Overland, Limited Willys-Knight and Overland Motor Cars and Light Commercial Wagons Head Office and Works, West Toronto, Ontario Branches: Montreal, One., Winnipeg, Man., Regina, Sash,

Improved methods of building cars, that build them better and save millions of dollars to the public is one of the substantial advantages you get in this Model 90.

Select this Model 90 and you save money in the first cost and in the maintenance cost. You can not get complète satisfaction from less advantages

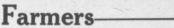
And you cannot get as much value in any other car for the

It has a powerful, fuel-saying motor; narrow turning radius; rear cantilever springs: 106" wheelbase: 31x4 tires. non-skid rear; Auto-Litestarting and lighting and vacuum

Because this Overland Model 90 gives every essential for complete satisfaction, the farmer's family can enjoy it as much as the farmer can employ it.

Order your Model 90 now.

Catalog on request-Address Dept. 1910



# 303

# BOYS Are Ready for You

They left the Schools, Monday, April 22, and are awaiting your calls for them

#### Wages \$15 to \$30 a Month with Board

If you want some of these boys send in your application at once. First come best served. Don't wait till last minute and be disappointed.

Address Applications to your Nearest

#### Ontario Government Employment Bureau

15 King St. East, Toronto

Phone Main 7621

85-87 James St. North, Hamilton

Phone 1882

108 Dundas Street, London

Phone 5295-6

139 Queen St., Ottawa

Issued by Organization of Resources Commin Co-operation With Canada Food Board

# PEERLESS PERFECTION A RUNAWAY HORSE can't break a Peerless Fence. No fiery bull can make a dent in it, hogs can't push through the spaces. it in it, stogs can a plass through the spaces. It holds them all securely. Ask your nearest desire to show you result of the start fencing. See the heavy, crimped horizontal wires that also expansion or controlled in extenses of sumpeature. See the last particular to controlled in extenses of sumpeature, she the last particular to the second of the Letters Like These from Hallfax to Vancouver

#### Farm Management

#### About Sweet Clover

HAVE purchased a large farm that has been cropped almost to death has been cropped almost to death over and well worked. I have a 18-acr over. How many pounds of seed could recover. How many pounds of seed could report the seed of the

all the clovers as a soil improver. It will make a stand and a fair growth on soils so poor that other clovers could not succeed and there are well authenticated instances of where the wornout soil of whole communities has ben restored through the use of sweet clover, accompanied of course, by an improvement in general arming methods. We have visited farming methods. farming methods. We have visited farms in Onjario on which worspout fields were improved to the point where they could grow any crop through cropping with sweet clover. The amount of seed per acre recom-mended varies from 12 to 20 pounds.

meneed varies from 12 to 20 pounds.
It is seeded along with spring grains as is red clover, but as the first crop of aweet clover is cut so early in the spring, it would be a waste of good seed to include timothy. In cutting seen to menue thirding. In certain, the grain crop an ordinary amount of stubble is left. It is in the cutting of the first year's hay crop that the stand is frequently killed. It will be found necessary to shoe the cutter bar of the mower, and some growers additionally and the mower, and some growers and the mower. vise leaving a clover stubble of as much as eight inches, although such much as eight inches, although such a long stubble is not usually considered necessary. It should not be forgotten that sweet clover, like red clover, is a biennial, and can be cut for hay only for one season. If not pastured too closely it will reseed it. self and some growers are using it as a permanent pasture. In choosing varieties, white sweet clover is usually recommended, although one strain of yellow clover, the Albotrea, has given excellent results on many farms in Canada.—F. E. E.

#### Satisfied With Stump Puller

Chas. Hutchings, Leeds Co., Ont. You know and I know that stump fields are costly investments.
You are paying interest, taxes, upkeep on something which is abso-

lutely a burden to you. But the question is, "How shall I clear it?" There are several ways, some of which I will

mention here.

I. as a pioneer of this country where wood and stumps have always been plentiful, have had some experiences plentiful, have had some experiences at pulling stumps and clearing land. The laborious method (when time and labor was hardly considered), was to remove the stumps with axe and saw and dig them out. Nowadays time is money, and before one attempts the pulling of stumps, they should have the quickest and best method. I did very good work blowing them out, but on figuring up the dynamite bill and help, found it too expensive and decided to give up the clearing proposition unless some cheaper.

proposition unless some method was available. Bef proposition unless some cheaper method was available. Before giving up, however, I answered an advertisement in Farm and Dairy of a stumping machine known as the Kirstin one-man stump puller, and in a short time to my entire astifaction, have found it the cheapest and most convenient device I have veer seen. My stumps which at present are elm, ash, maple, but chiefly pine, are in clay loam. They average from 12 to 36 inches in diameter, and I have pulled stumps 40 inches in diameter and I have pulled stumps 40 inches in diameter and I have pulled stumps 40 inches in diameter and that pulled stumps 40 inches in diameter and that pulled stumps 40 inches in diameter in less than 10 minutes. They were good, solid ones, too, and only required one man at the handle. A number of people have stopped to see the machine in operation, and have another delight the work. tion, and have expressed surprise at such a little machine doing the work.

Besides pulling stumps it can be used for other work or on anything that

for other work or on anything this meeds to be moved.

I have also tried to pull with hones and double block, but with poor success, and, besides, I nearly runed os of my valuable horases, so I have laid the old methods saide, and will now pull with the Kristin. I truly than that the Kristin way is the only mobile of the control of th ern way of clearing stating and would advise any one having stumps to get rid of them this spring and turn your stump field into crop this summer by investing in a Kirstin stumping machine.

#### Eradication of Bladder Campion Prof. J. E. Howitt, O.A.C., Quelph, Ont

P.ef. J. E. Howitt, O.A.C., Cuclph, Ont.

A METHOD of cultivation for the cradication of bladder camples or cow bell is as follows: Bady infeased fields should be compared to the compared of the compared of

Special attention must be noring out any patches of bladder can pion which may appear in the core crop, and which are not destroyed by cultivation. If in the fall there is any bladder campion in the field, it will be necessary to plow fairly deeply and cultivate thoroughly, and the follow-ing spring repeat the frequent cultiva-tion until it is time to put in a best core be necessary under ordinary can come be necessary under ordinary can describe the control of the control of the con-vention. One spring's thorough call-vation, followed by a well great in hoeing out any patches of bladder cam ditions. One spring's thorough cultivation, followed by a well cared for hoed crop should destroy practically all the bladder campion.

#### Cut Grants to Fall Fairs

N reply to a deputation to Unionist members of Parliament, including W. F. Maclean of South York, whe waited upon him to protest against the proposed reduction of the Dominies Government's grants to agriculture fairs and exhibitions, Hon. T. A. Crerar, Minister of Agriculture, clearly stated the policy and position of the

The Government, he said, recog nized the great importance of agriculture fairs and exhibitions and de

culture fairs and exhibitions and estared to encourage the same. Owing however, to the heavy commitment of the Government in respect to the war it was found necessary to release the grants this year by 25 per ceet. As a matter of general policy, however, the minister stated that the Germment expected in the future to brease rather than curtail its financial grants to these fairs and exhibitions throughout the country, recognizing at it did their educational value and its stimulus they gave to farming and have stock industry.

#### National Live Stock Council

THE various live stock organizations represented in the Notional Live Stock Council to Canada, have appointed their representatives. The five Western mea art. Pr. Tolmie, Victoria, B.C.; J. H. Waters, Chre, Alta.; F. H. Audi, Ragia, and Dr. J. G. Rutherdovi, Calegr., Alta. The Eastern representalise are: W. E. Dryden, Brocklin; J. Bryan, Hidgestown, and Goz. Poyer. Toronto. The Nata by Robk Ellier, Stouffville, W. F. Stephen, Huntingies and Wm. Smith, Columbus, whe will act as chairman of the council. THE various live stock organiza-

set as chairman of the council.

Questions of national scope will be considered by the members of this live stock council, and it will act he advisory capacity for the live soci industry, as does the Canadian Manfacturers' Association for the manifecturers'



Ontar Su

It may as Ontario d own need farmer w urged to this year wheat she that port overseas.

For this who has land is b because grown ar wheat and and, that should the people, and other



Some food much space



Upon the 1918 crop from Canada and the United States depends the fate of the democratic peoples of the world-

If that crop is sufficient the Allies can be fed.

If that crop is not sufficient, the Allies may have to accept a German peace.

#### Ontario's Wheat Crop Does not Support Ontario's People

It may astonish you to learn that in 1917 Ontario did not grow enough wheat for its own needs. Consequently, every Ontario farmer whose land is suitable has been urged to sow five acres more spring wheat this year so that Ontario's demand for wheat shall not be met at the expense of that portion of the Western crop that should more rightfully be shipped overseas.

For this same reason every householder who has a garden or a piece of vacant land is being urged to grow vegetables, because the more vegetables that are grown and eaten in Ontario, the less wheat and meat there will be consumed; and, that being so, the Ontario wheat crop should then be sufficient to feed our own people, and leave more Western wheat and other foods available for export.

#### Why Substitutes for Wheat Cannot be Sent

Some foods, such as potatoes, occupy too much space in proportion to their nourish-

ment. But people often ask: Why not send corn instead of wheat? The chief reason, at present is because for two months after the first of April corn will not keep during shipment abroad, for that is the germinating season. Wheat, on the contrary is a durable grain.

And, though some do not realize it, the Allies have been using much corn in their bread, as high as 30 per cent, a far larger admixture than we have adopted.

# In Appreciation of the Farmer's

We are not unmindful of the magnificent results of your work last year. We recognize the difficulties that you have to contend with, but we know that your heart is in the Cause.

This year, we are glad to say, the labour shortage is not as great as it was last year, and if you need help, communicate with your County Agricultural Representative, or the Public Employment Bureau in Toronto, Hamilton, London or Ottawa, and help will be forthcoming.

# Lack of Food—threatens the Battle Line



(14)

Rural Home

"The Farm Paper for the farmer who milks cows."

Published every Thursday by
The Rural Publishing Company, Limited
Peterboro and Toronto. 47

SUBSCRIPTION PRICE, \$1.00 a year. Great Britain, 20 a year. For all countries, except Canada and Great SUBSCRIPTION PRICE, \$1.00 a year. Great Britain, BLB a year. For all countries, except Canada and Great ADVERTISHING RATES, 12 cents a line flat, \$1.65 an Inch an insertion. One page 50 inches non column 11% of the page 50 inches no column 11% of the page 50 inches one column 11% of the page 50 inches and Water Streets.

Toronto Office—Stanter beginning.

New York Office—Tribun building.

CIRCULATION STATEMENT. The pdd subscriptions to Farm and Dairy appreximate Some The actual disculation of each issue including collections. The actual disculation of each issue including collections are accepted at less taight in arreary, and sample copies, where from 18,00 to 28,00 copies. No subscriptions are accepted at less than the contract of the page. Sworn detailed the contract of the page, showing its distribution by counties and provinces, will be mailed free on request.

showing its distribution by counties and provinces, will be mailed free on request.

We guarantee OUR GUNANYEE.

We guarantee to the second of the second control of the reliable. We are able to do this second the advertising columns of Farm and Dairy are as carefully edited as the reading columns, and because to protect our readers are all the reading columns, and because to protect our readers are all the second of the reading columns, and because to protect our readers and advertisers. Should any advertise the second of the se

ness men bankrupts.

The Kural 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."-

#### The Cen orship

ARM and Dairy has received a letter from one of Ontario's leading dairy farmers protesting most vigorously against the Government's re cent conscription measure. Our friend attacks the measure as a violation of pre-election promises, a slap at production, and asks Farm and Dairy to champion the side of the farmers. Because many farmers are greatly aroused over this measure we would point out that in the first place no time was given for public discussion of the measure, either in the press or on the platform. The measure was an nounced and made law in less time than elapses between two issues of Farm and Dairy. In the second place, for the benefit of those of our readers who may wonder at the silence that we may be obliged to preserve when measures of similar import come up in the future, we can only inform Our Folks of the restraints now imposed on the press. According to an Order-in-Council of recent date it shall hereafter be an offence punishable by a fine not exceeding \$5,000 or by imprisonment for a term not exceeding five years or by both fine and imprisonment, to print, publish or publicly express:

(a) Unfavorable statements, reports or opinions concerning the causes of the war or the motives of Canada or any of the allied nations:

(b) Adverse or unfavorable statements, reports or epinions respecting the action of any of the Entente Allies:

(c) False statements or reports respecting the activities of any department or officer, including any Canadian military or naval officer, which may tend to inflame public opinion, hamper the Government, or prejudicially affect the prosecution of the war;

(d) Any statement, report or opinion (either true or false, we presume), which may tend to weaken or in any way detract from the united effort of the people of Canada in the prosecution of the war;

(e) Any report of a secret session of the House of Commons not communicated through the Director of Public Information;

(f) The contents of any confidential public docu-

Members of Parliament alone are permitted freedom of speech and they only when in the House. Even this freedom is qualified, as the Speaker may suspend publication of Hansard while the chief censor determines what portions of any address to which he objects may be deleted. The net result of the new order will be that the public will receive only such information as the Government deems it wise to give them, and criticism of public affairs can be indulged in only under danger of fine and imprisonment. Thus is it declared necessary to suspend freedom of debate under authority of the Defence of the Realms Act for military purposes.

#### The Duty on Implements

HE farmers of Canada contributed \$2,119,267 to the federal treasury during the fiscal year 1916-17 in customs taxes on agricultural implements and farm machinery. These figures were supplied to the House of Commons at Ottawa in reply to a question by one of the Western members. The customs taxation for the year on threshing machinery and outfits totalled \$477,895, on traction engines and portable engines, for farm power, \$896,356, on harvesters, reapers and similar equipment, \$89,257, on plows and parts thereof, \$373,504, and on other farm machinery, \$280.255.

These figures are of special significance in view of the demand of the Government's Director of Production, Hon. Chas. A. Dunning, for the removal of all duties on agricultural machinery. On the surface the amount does not seem sufficient to justify the importance that Mr. Dunning and the organized farmers place on this reform of the customs sched-A trifle over two million dollars is not a large sum when divided among Canada's agricultural population. The factor that the protected interests would gladly have us overlook, however, is that whether implements are purchased at home or abroad, we pay the duty just the same. In the case of imported equipment the duty is paid into the coffers of the Government. In the case of equipment manufactured at home, a similar amount is exacted by the manufacturer. In any case the payment of the enhanced price is a tax on production, and as there is from three to six times as much equipment purchased at home as abroad, the amount taken out of the pockets of Canadian farmers annually by the direct and indirect influence of the protective tariff, will be from six to twelve million dollars, too great a sum to be passed over lightly. We understand that a motion is soon to be introduced into the Dominion House, asking for the removal of all duties on farm implements. In accepting this motion, the Government will, in a measure declare whether their interest in greater production is real or simulated; whether they are with the farmers, who ask nothing but a square deal, or with the interests who demand a continuation of their special privileges.

#### The Ontario Dairy Council

T a meeting held in Guelph the early part of last month, representatives of all the dairy interests of Ontario approved of the formation of a Provincial Dairy Council. It was decided that such a council would be useful as a clearing house for all the present existing dairy organizations, but as none of the present organizations were officially represented it was decided that a future meeting should be held, composed of two official representa tives of each organization and two delegates from the Department of Agriculture. This committee, when it meets, will formulate a definite basis of organization. The appointment of the Department's representatives and the calling of the committee together, was left with the Minister of Agriculture, who is also the Premier of Ontario.

Farm and Dairy can readily understand why definite organization was not possible at the Guelph meeting called by Prof. Dean. If the Provincial Dairy Council is to be composed of representatives of existing organizations, then these organizations must act officially through their executives. But why could not the Guelph meeting have appointed a

convener, or a convening committee, that could have gotten in touch with the officers of the various organizations interested and called the committee together independent of departmental control? As it is, the initiative is left altogether with the Provincial Premier, a situation not to be desired by the dairymen, and an awkward one for the Minister As we see it, the duties of the dairy council will be largely legislative. Two suggestions as to its possible avenues of usefulness, made by Messrs. Dean and Ruddick, both had to do with the legislative side of its functions. In other words, Premier Hearst is asked to be instrumental in organizing an association whose influence, it is very easy to conceive, might be marshalled in opposition to some of his own schemes, or, more frequently, used to draw concessions from him for the advantage of the dairy industry. He cannot be expected to use his influence to promote the organization of a strong independent Dairy Council, and his representatives from the Department may take much the same posttion. Nothing would more surely neutralize the usefulness of the proposed Ontario Dairy Council than to have it tied up in government red tape, and the first duty of the committee, when it meets, will be to delcare its independence of any measure of political control. We say this with full knowledge of the present Minister's whole-hearted interest in agriculture, but we believe that sturdy independence is a necessary attribute of every worth-while farmers' organization. In no case, however, should the movement be allowed to lapse.

#### When the U.F.O. Met Labor

NE of our contemporaries is quite worked up over the action of the executive of the United Farmers of Ontario, in allowing that association to be represented at a meeting held in Toronto. having for its object the formation of a Canadian Labor Party. The avowed socialistic ambitions of the English Labor Party and the socialistic ideals of many Canadian labor leaders, does not commend itself to our contemporary any more than it will to the more individualistic spirit of the farmers who compose the membership of the U.F.O. Many of these members are now asking if the action of this executive has committed their association in any way to the platform that may be adopted by the proposed labor party. It will be good news to these that the U.F.O. is in no way committed either to the policy of forming a labor party or to any platform that may be adopted. Both matters will be submitted to the United Farmers in convention assembled, and they will then take what action they deem best. Just why the executive thought it well to be represented at the organization meeting in question, is well summed up in the following paragraph from a recent letter by W. C. Good, one of the U.F.O. representatives in attendance;

"Just as it has been in the selfish interests of Spe cial Privilege to keep farmers divided into Grits and Tories, and thus nullify their power at the polls, so it is also in the selfish interests of Special Privilege in foment any trifling misunderstanding between city and country workers so that they may be prevented from combining to overthrow a common enemy. No: just as Grit and Tory farmers should get together and discuss their common problems, so, also, should city and country workers get together. Thus and thus only will they find that their interests are identical and thus will they learn to unite for a common pur-

Farm and Dairy commends Mr. Good on his reasoning. In the old days when farmers were the great majority of the population, the professional politicians set farmer against farmer and retained control for themselves. With almost equal success they set working man against working man. Farmers as a class, however, are now getting together The city working classes are doing the same. What a capital stroke it would be if the professional politicians, who are often the representatives of wealthy interests that prey on both classes, could set these two great groups of citizens against each other and retain the control that seems slipping from their grasp. It was against just such a danger that the U.F.O. executive was guarding, when it sent its representatives to the organization meeting of the Canadian Labor Party. The move was a wise one.

In

A New Ch MEETING of farmers livin of Otonabee ing the east side o

was held in 22nd, at which a to principal speaker. Cowan, Editor-in-C Dairy, who made a conditions in Can when farmers form of the population a in its government, populations are abo of the country has the hands of urban that of the banks, newspapers, manufi and others of the sa result has been th ests have obtained in which the farmer representation. The to transfer the bu taxation largely in the rural di le that the farming p years and is small was forty years ag which led to the st ers' movement wer development descri

visability of becom the movement with resolution was of officers were electe Rogers; Vice-Presid Secretary, M. S. B. Wm. M. Reid, R. A. erts, Alex. Hewson, Coughlin, all of Pet will select the and make arranger meeting. An invi An invita farmers' clubs that ized for some time Every 1 meeting. Ever

Disputes Ov Gordon Waldron, U. F.

A FEW disputes tween the Co and the Fai mainly to misunder contracts made. Teases a loose or an of the contract. Agreement or a me of the contract. of the contracting words, it is an offer In the simplest for other, I offer, and Business accept. the courts are bus simple form. The ought to state his c the acceptor ought the meaning of the to say I accept or I that there may be

ing on a contract whale. The law has that no contract for for the price of \$40 be allowed to be go buyers shall accept of the goods; or, 2, earnest to bind the payment; or, 3, The memorandum in wri made and signed be charged by such It is over this me: ing usually of letter

the terms of the co

A New Club Formed

MEETING of a number of the farmers living in the townships of Otonabee and Douro, adjoinne the east side of the city or exercised of the city or exercised of the city of the conditions in Canada 75 years ago, when farmers formed a great majority of the population and were influential in its government, with conditions for day, when the farming and urban population and were influential in its government, with conditions for the country has largely passed into the hands of urban population and the country has largely passed into the hands of urban population of the country has largely passed into the hands of urban population of the country has largely passed into the hands of urban populations of the country has largely passed into the hands of the former share and others of the same character. The result has been that business interest have obtained control of the legislatures and of the House of Commons in which the farmers have a very small representation. The effect has been to the country of the people living the rural difficults with the result that the farming population of Eastern Canada has been decilining for years and is smaller to-day than it was forty years ago. The influences which led to the starting of the farmers' movement were explained and its development described, as well as the prospects for the future of the movement of the moveme

A discussion was held as to the advantility of becoming identified with the movement with the result that a receival or was carried deciding to form a local branch. The following edicers were elected: President, R. B. Rogers: Vice-President, Jos. O'Reility: Servitary, M. S. Burnham: Directors, Wm. M. Reid, R. A. Wilson, Wm. Roberts, Alex. Hewson, C. Brown, and Jos. Coughlin, all of Peterboro. The executive will select the place of meeting and make arrangements for the next meeting. An invitation may be sent to the control of the control of

#### Disputes Over Contracts

Gordon Waldron, Solicitor for the U. F. O.

FEW disputes have arisen beverse have copen and
the Coppen and
the Coppen and
mainly to misunderstanding as to the
contracts made. There was in some
cases a loose or ambiguous statement
of the contract. A contract is an
agreement or a meeting of the minds
of the contracting parties. In other
words, it is an offer and acceptance,
in the simplest form one says to the
in the simplest form one says to the
higher and the contracting parties. In other
words, it is an offer and acceptance
in the simplest form one says to the
which result from departure from this
simple form. The maker of an offer
ought to state his offer precisely, and
the acceptor ought to note carefully
the meaning of the offer, and he ought
to say I accept or I do not accept, so
that there may be no misunderstand-

as an an area of the second of

It is over this memorandum consisting usually of letters and telegrams that trouble arises. It must contain the terms of the contract, that is, a description of the thing contracted for, the price, time of delivery, and so on, and it ought to contain the terms of payment.

Zeal was added last year to these disputes by the great rise in the prices of commodities between December, 1916, for example, and June, 1917. Contracts, in some cases, made in November or December were not precise as to the time of delivery, or if the time of delivery was at dirst procise as to the time of delivery, or if the time of delivery was at dirst procise as to the time of delivery, or if the dispute of the delivery was at a direct processes of the delivery and the delivery in June by \$500 or more, and with the banefit of that in view nen were prompted to make claims and disputes, which otherwise they would not not be delivery of the del

You ought to consider carefully your crudit methods. If you accept an ordor from a club, payment to be made on delivery, and you order from a dealer and pay at once, you may lose heavily in your bank interest account, if delivery is delayed. In such cases, you ought to add interest to the price payable by the club, if you would escape loss.

Another point to which I would an a practicable, you would escape loss.

Another point to which I would draw your attention is that in so far as practicable, you ought to act as a mere go-between, and atjuntate that your duty to the club is performed by placing its order promptly and precisely with a reputable manufacturer

#### The United Farmers of New Brunswick

A "Important forward stride in the "United Farmers" movement was made when over 200 farmers met in the opera house on April 23rd in Woodstock, NB, and organised the United Farmers of New Brunswick and the United Farmers' Cooperative Co, Ltd.

The delegates present represented

The delegates present represented 20 clubs and 918 members, the work of two monkls. Three counties are partially organized. The officers and directors of the new organization are men of exceptional ability and the control of the co

J. J. Morrison, secretary of the U.F.O., and representing the Canadian Council of Agriculture, was present to assist in the organization. He is also going to Quebec for a few days.

Parmers should devote more attention to finding and keeping records of their cost of production. When men representing business industries approach the Government for assistance, they are able to show by their cost system wherein their costs have been increased, and why they should receive the assistance for which they receive the assistance for which they are the second of the

"We are making a desperate drive at spring work." writes A. D. Foster, of Bloomfield, Ont., in a recent letter to Farm and Dairy. "We are cutting down on part of our corn crop, and will use affalfa clover and rye in the sile instead."

# There's no use crying over lost milk

IF you had had an Ideal Green Feed Silo this last winter, your cows would have given 25 per cent more milk and your feed bills would have been 20 per cent less, in the bargain.

- From this you can figure how much bigger your profits would have been, with milk at such high prices.
- You can't remedy your oversight now, but you can prepare now to get all the milk you are entitled to, next winter.

#### NOW is the time to install an IDEAL GREEN FEED SILO

Summer will soon be here, and the first thing you know another winter will come around and you'll have no silo.

Write, today for our catalogue, which not only shows why the Ideal is the best silo you can buy, but contains much valuable information about silos and silage.

#### THE DE LAVAL CO., Ltd.

LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA

Sole manufacturers in Canada of the famous De Laval Cream Sejaran Silos Alpha Gase Engines, Alpha Churus and Butteroortics, Ingues of any of our lines mailed upon request MONTREAL PETERBORO WINNIPEG VANCOLIVER

VANCOUVER 50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

#### When Writing Mention Farm and Dairy



TORONTO

SEEDS

# How the Y.M.C.A. Contributes to Victory

#### "Earn and Give" Campaign for Boys

Serve your Country by your labor and make a gift to the Red Triangle Fund from your earnings! What a fine chance to do a double service! Six thousand boys are asked to give \$10 each. Of the total. \$50,000 goes to help the soldiers, the balance for boys' work. Gifts must be at least \$10, the standard unit. A boy may subscribe more than than \$10 in \$10 units but not less. A beautifully engiven to each subscriber. Ask your local Y. M. C. A. entative for pledge card and full information.



Y. M. C. A. man serving coffee 100 yards from German Trenches

7PRES, Langemarck, Festubert, Vimy Ridge, Paschendaele-how the very names thrill! They stand for deeds of the bravest of the brave-our own Canadian lads! They fight and win, not always by strength of numbers, but by unbeatable fighting spirit, or "morale."

Said a British Staff officer: "I have known morale to be found in a cup of hot coffee. I have seen it sustained by a man's merely writing a letter home. If you want an easy and short definition of 'morale' you will find a good one in the four letters Y.M.C.A."

# PMCA Red Triangle Fund \$2,250,000 May 7, 8, 9 Canado Mat Appeal

The staff officer pointed to the men trooping into the big Y.M.C.A. hut and continued: "Those men are going to the front line to-morrow. In the Y.M.C.A. some of them will be playing games, others attending divine service, but each in his own way will find a strengthening of his 'morale' in the comradeship of his fellows under the Red Triangle. All this is a thing which is going to turn the balance in our favor."

Through the hell of battle after battle, our brave soldiers fight. Through fire, water, mud, filth and deadly danger follows the ever faithful Y.M.C.A. man, even if he can bring but a bucket of invigorating coffee to fagged fighters. Will you help us to supply the coffeeand to render the thousand and one similar services to soldiers everywhere?

The Y.M.C.A. needs at least \$2,250,-000 to meet the tremendous demands. Be generous!

#### Bits from Soldiers' Letters

The Hut is very well termed

"I went home for the first time in 18 years and I had not written for 13 years. I have given up my old habits of drinking and gambling and thank God for it. Thanks and thank God for it. Thanks to a little word caught at one of your good-night ser-vices."

"From one end of the train to the other I heard nothing but good of the 'Y.' Your representative did his best to representative did his best to supply our needs, purchasing stuff at rock bottom prices and letting the boys have it the same way."

"They send guides out with parties of soldiers on sight-seeing tours all over London."

German prisoner said: "Who pays? I don't know. But whoever they are, God oless them. They are the

#### Tributes

Lord Northcliffe: I do not think the war can be fought without the

Maj.-General Burstall: "The benefit to the troops is beyond calculation."

Lt. Colonel Mayen: Comme Mayers:

"Cames have a tendency
to increase fighting spirit.

Any efforts on your part
to expedite delivery of
athletic equipment will be
of national service."

Harry Lauder:

"We took the responsibility of sending these boys to defend us, and we must not fail them. The Y.M. C. A. huts are the soldiers' 'Home from Home.'" Brig. Gen. Odlum;

irig. Gen. Odlum;

"I want to let you know how
much I was impressed with
the work done by the
Y.M.C.A. It was simply
magnificent. All ranks are
enthusiante. I have recommended one of your
officers for the Military
Cross. The Y.M.C.A. has
endeared itself to the
soldier in France as no
stake institution has."

### National Council, Young Men's Christian Association

Campaign Directors for Red Triangle Fund:

Ontario: Dr. John Brown, Jr.,

120 Bay St., Toronto

Quebec: P. S. Dobson, Y.M.C.A., Sherbrooke

# Morale!

# British Staff Officer Defines It —How Y. M. C. A. Enhances This Great Factor of Victory

"IS VICTORY always on the side of the biggest battalions?" was asked of a British staff officer, as recorded by Dr. John R. Mott in the "Ladies' Home Journal."

"It is and it isn't," he replied. "There's something else. You cannot chart it, you cannot express it in any military figures. But Napoleon knew what it was and he called it 'morale.'

#### How Morale Is Created

"I cannot define for you exactly what morale is, but I can tell you it comes in many different ways. I have known morale to be found in a cup of hot coffee. That sounds unromantic. But think what that means to a man who has had ten hours consecutive shelling.

"I have seen morale created by a man's taking a big risk; I have seen it sustained by a man's merely writing a letter home just before he went into action. You can describe morale," he continued, "in a score of ways, little and big.

"It may come from faith in a future life or from the thought that one is protecting the loved ones at

home. But if you want an easy and short definition of morale, you will find a good one in the four letters Y. M. C. A."

#### Strengthening Morale

And he took his questioner to the window and shewed him men trooping into a Y. M. C. A. but

"Those are men," he said, "who will be going up to the front line to-morrow. Some of them will be playing games, others will be attending divine service, but each in his own way will find a strengthening of his morale in the comradeship of his fellows beneath the symbol of the Red Triangle and the inspiration for which it stands.

#### Y.M.C. A. Playing Big Part

"All this is a thing which I cannot show on my charts. But it is also a thing which is going to turn the balance in our favor. Go back and tell che people at home that a dry soldier, concerned alone with military calculations, believes that the Y.M.C.A. is playing a far bigger part in winning the war than any mere civilian can recognize.

"I do not speak to you as a philanthropist. That is not my job. But I want to see the end of this horrible business, and if a soldier's words have any weight, tell them at home to help the Y.M.C.A. to carry on its work."



ORE things are wrought by prayer than this world dreams of. -Henry Ward Beecher.

#### The Heart of the Desert

(Continued from last week.)

self.

Rhoda.

limit of its endurance, Rhoda avoid-

ed talking to him as much as she cou'd and Kut-le, seeming to under-stand her mood, left her much to her-

On the fourth day they camped on a canon edge. After Rhoda had eaten she walked with Kut-le to the tar edge and looked down. The canon

distance away, near where it opened on the desert, lay a heap of ruins. "Is that another pueblo?" asked

"No, it's an old monastery. Part of the year they have a padre there. I

was very deep and narrow.

S OMETIMES you forget to act like a coldblooded Indian." Kut-le gave his familiar

chuckle. "Well, you see, I've been contaminated by my long association with the whites!"

And so again the nights of going During her waking hours, Rhoda spent the greater part of her time spent the greater part of her time considering arguments that would have weight with Kut-le when the struggle came which she knew was imminent

If she had suffered before, if the early part of her abduction had been agony, it had been nothing

in comparison with what she was enduring in putting Kut-le aside for DeWitt. And, after all, she had no final guide in holding to her resolution save an instinct that told her that her course was the right one. All the argu-ments that she could put into words against inter-race marriage seemed inadequate. This instinct which was wordless and formless alone remained sufficient

And with the ill logic of womankind, through all her arguing with herself there flushed one glad thought, Kut-le knew that she loved him, knew that she was suffering in the thought of giv-ing him up!! His tender, half sad, half triumphant smile proved that, as did his protective air of ownership.

Rhoda noticed one condi tion of her keeping to her de She was very firm in it at night when the desert vas dim. But in the glory of the dawns and the sun-sets, her little arguments seemed strangely small. Sit-

ting on a mountainside one afternoon Rhoda watched a rain-storm sweep across the ranges, across the desert, to the far-lying mesas. Normally odorless, the desert, after the rain, emitted a faint, ineffable odor that teased the girl's fancy as if she verged on the secret of the desert's beauty on the secret of the desert's beauty. Exquisite violet mists rolled back to the mountains. Flashing every rain-bow tint from lits moistened breast the desert lay as if breathing the very words of the Great Scheme.

Suddenly to Rhoda her resolution seemed small and futile, and for a long hour she revelled in the thought belonging to the man she loved. And yet as night descended and the infinite reaches of the desert receded into darkness, the spell was broken an the old doubts and misery return-

And so again, the nights of going But the holiday aspect of the flight was gone. Kut-le moved with a grim determination that was not to be misinterpreted. Rhoda knew that they were to reach the Mexican border with all possible speed. The young Indian drove the little party to the

and grief-stricken "Do you love me—and better than u do DeWitt?"" insisted the man.

Kut-le took her trembling hands in

Still the sun flickered on the pine-needles and still Molly hummed over her stew-pot. Still Rhoda stood look ing into the eyes of the man she lov ed, her scarlet cheeks growing each

"Because you are an Indian. The instinct in me against such a marriage is so strong that I dare not go against

Kut-le's mouth closed in the old

"And still you shall marry me,

"I am a white woman, Kut-le.

said Kut-le quietly, "that I am civilized.

You are externally, perhaps," said the girl. "But you yourself have no proof that at heart you are not as unclvilized as your father or grandfather. Your stealing me shows that. Noth-ing can change our instinct. You know that you might revert at any

Kut-le surned on her flercely.
"Do you love me, Rhoda?"
Rhoda stood silently, her cleft chin
trembling, her deep gray eyes wide

Suddenly Rhoda lifted her head

proudly.
"Yes," she said, "I do love you, better than any one in the world; but I cannot marry you!"

"Why not, dear one?" he asked

moment more deeply crimson.

A Western Canada Beauty Spot where Gardens are Scarce. Flower gardens on the wind-swept prairies of Western Canada are scarce and for this reass they are greatly enjoyed by those who see them. This garden adjoins the C. P. R. station groun at Moose Jaw, Sask, where people by the thousand admire it each year.

wish I knew if there was one there "Why?" asked Rhoda suspiciously

"Don't bother your dear head," an-swered Kut-le. Then he went on, as if half to himself: "There's been an awful lot of fooling on this expedition. erhaps I ought to have made for the Mexican border the very night I took you." He looked at Rhoda's wide, troubled eyes. "But no, then I would troubled eyes. "But no, then I would have missed this wonderful desert growth of yours! But now we are going straight over the border when know a padre that will marry us. Then we will make for Europe at once.

The morning sun glinted on ine-needles. Old Molly hummed pine-needles. Old Molly hummed a singsong air over the stew-pot. And Rhoda stood with stormy, tear-dimmed eyes and quivering lips.
"It can never, never be, Kut-le!"

"Why not?"

"We can't solve the problems of race adjustment. No love is big enough for that. I have been civilized a thousand years. You have been savage a thousand years. You can't come forward. I can't go backward."
"You know well enough, Rhoda,"

can't marry an Indian. The difference is too great!"

Kut-le turned abruptly and walked Kut-le turned abruptly and walked to the canon edge, looking far out to the desert. Rhoda, panting and half hysterical, watched him. The mom-ent which she had so dreaded had ar-rived, and she found herself, after áll her planning, uterly unprépared to meet it save with hackneyed phrases.

It seemed a long time that Kut-le ood staring away from her. Rhoda could bear the silence no long-er. She ran to him and put her trembling hand on his arm. He turned his stern young face to her and her heart failed her.

you won't help me to do right, who will? It's not right for us to marry! Just not right! That's all I know about it!"

Kut-le put both hands on her shoulders.

"Look here, Rhoda. What you call the 'right' instinct is just the remnant of the old man-made race hatred in you. It's just a part of the old con-ceit of the Caucasian."

Rhoda stirred restlessly, but Kut-le held her firmly and went on.

"I tell you, if we're not to go mad, we've got to believe that great things come to us for a purpose. There is no human being who has loved who does not believe that love is the greatest thing that has been given to man. The man who has loved knows that the biggest things in the world have been done for the love of woman. Love is bigger than nations or races. It's human, not white, or black, or yellow, It's above all we can do to tarnish it with our little prejudices. When it comes greatly, it comes supremely." He lifted the girl's face and looked deeply into her eyes.

"Rhoda, if it has come as greatly to you as it has to me, you will not pause for any sorrow that your coming to me may cost you. You will come, in spite of everything. I be lieve that if in your smallness and ignorance you refuse this gift that has come to you and me, you will be outraging the greatest force in na ture.

Rhoda stood sorrow-stricken and confused. When the deep, quiet voice ceased, she said brokenly:

"I haven't lived in the desert so long as you. The way does not lie so clear to me. If only I had your conviction, I too could be strong and walk the path I saw unhesitatingly

walk the path I saw unnestraingly. But I see no path!"
"Then," said Kut-le, "because I see,
I'll decide for you! O Rhoda, you
must believe in me! I have had you

in my power and I have ken the faith with you. I am going to take you and marri you. I am going to make this gift that has come to you and me make us the big man and women that nature needs To-night we shall reach the padre who will marry us."
He watched the girl keenly

for a moment, then he again turned from her deliberately and walked to the edge of the canon, as if he wanted her to come to her final decision unbiased by his nearness. But he turned back to her with a curious expression on his face.

"Come and take a good-by look, Rhoda! Your friends are below. I hope it will be some time before we see them again!"

Rhoda went to him. Far. far below, she saw little dots of men camping beyond the monastery near the desert Suddenly Rhoda sank to her knees with a cry of longing that was heart-breaking.

"O my people! My own people!" she sobbed, crouch-ing upon the canon edge.

Kut-le watched the little figure with inscrutable eyes. Then he lifted the girl to her feet.

"Rhoda, are you going to eat your heart out for your own kind if you marry me? Won't I be sufficient? It hadn't occurred to me that I might

"You haven't given up your people," answered Rhoda. "You are always going back to them."

"But you aren't really giving them up," urged Kut-le, "It really is I who make the sacrifice of my race!" "And that is the reason for one of my fears," cried Rhoda. "I am afraid that some day you would find the price too great and that our marriage

world be wrecked."
"Even if I went back for a few

months each year, would that make you unhappy?" asked Kut-le. "Kut-le!" exclaimed Rhoda. "I am not talking of externals. I mean that if your longing for your own kind made you lose your love for me. Oh, I can't see any of it straight, but I'm afraid!"

"Nonsense, Rhoda! I fought that (Continued on page 21.)

May 2, 19 The I

Trusting 66 FOLLO prehen am a Jesus."—Phil

More than sacred duty a tinually befo possible, a l ship with t Christians, to ties of cultiva granted, may arge majority by a Divine occupied with it can scarce they hear of t sense of its and there is sacrifice to b But they are

they never that the at fully suited to not the doing does not demi simply weakn faithful one c Abiding in Hir ing His salvat let Him do all through us. It us,— the fruit redeeming lov to yield, to tru He has engage It is this qui fidence, resting that in Him th prepared, which

when He says fers Himself, th slumbers not r the soul, where of His grace w The idea they that their conv God's work, bu to God, it is t Christians, and is always the pray for help, i topeless; and increases the h dering one; as thee when He Jesus who kee "Abide." The grace to abide

the time or the

Abide in me: law of Moses, sinful what th They are the co is ever only a shape. It is w utterly passive on what Christ or what Christ orgies are stir activity, and the fectually because works in us. It word IN ME the love reaching or and to hold us t our will is rouse This connecti

work and our v pressed in the low after, if that whereunto ed of Christ Je he knew that i faithful One had glorious purpose with Himself, the to grasp the glor the experience,

#### The Upward Look

Trusting Him to Keep You FOLLOW after, if that I may apprehend that for which I also am apprehended of Christ

am apprehended of Christ Jasus."—Phil. iii, 12.
More than one admits that it is a sacred duty and a blessed privilege to abide in Christ, but shrinks back continually before the question. Is it possible, a life of unbroken fellowally with the Saviour? Eminent Christians, to whom special opportuni-Christians, to whom special opportunities of cultivating this grace have been granted, may attain to it; for the large majority of disciples, whose life, by a Divine appointment, is so fully eccupied with the sfairs of this life, it can scarce be expected. The more they hear of this life, the desper their sonse of its glory and blessedness, and there is nothing they would not sacrifice to be made partakers of it. But they are too weak too unfaithrail. But they are too weak, too unfaithful, they never can attain to it

Dear souls! how little they know that the abiding in Christ is just meant for the weak, and so beauti-fully suited to their feebleness. It is not the doing of some great thing, and does not demand that we first lead a very holy and devoted life. No, it is simply weakness entrusting itself to a Mighty One to be kept,—the un-faithful one casting self on One who is altogether trustworthy and true. Abiding in Him is not a work that we have to do as the condition for enjoyhave to do as the condition for enjoy-ing His salvation, but a consenting to let Him do all for us, and in us, and through us. It is a work He does not us.— the fruit and the power of His redeeming love. Our part is simply to yield, to trust, and to wait for what He has engaged to perform.

It is this quiet expectation and con-ience, resting on the word of Christ that in Him there is an abiding place prepared, which is so sadily wanting among Christians. They scarce take the time or the trouble to realize that when He says "Abide in Me," He of-fers Himself, the Keeper of Israel that alumbers not nor sleeps, with all His power and love, as the living home of power and love, as the living home of this grace will be stronger to keep than all their feebleness to lead astray. that in Him there is an abiding place than all their feebleness to lead astray. The idea they have of grace is this, that their conversion and pardon are God's work, but that now, in gratitude to God, it is their work to live as Christians, and follow Jesus. There is always the thought of a work that has to be done, and even though they las to be done, and even though they pray for hely, still the work is theirs. They fail continually, and become lopeless; and the despondency only increases the helplessness. No, wandering one; as it is Jeaus who drew thee when He spake "Come," so it is Jeau who keeps thee when He says "Abide." The grace to come and the grace to abide are alike from Him

Abide in me: These words are no law of Moses, demanding from the sinful what they cannot perform. They are the command of love, which is ever only a promise in a different shape. It is when the soul becomes utterly passive, looking and resting on what Christ is to do, that its en-ergies are stirred to their highest activity, and that we work most ef-fectually because we know that He works in us. It is as we see in that word IN ME the mighty energies of love reaching out after us to have us and to hold us that all the strength of our will is roused to abide in Him

our will is roused to abide in Him. This connection between Christ's work and our work is beautifully expressed in the words of Paul: "Tollow after, if that I may apprehend that whereunto I also am apprehended of Christ Jesus." It was because he knew that the mighty-and the faithful One had grasped him with the faithful One had grasped him with the glorious purpose of masking him one with Himself, that he did his utmost to grasp the foolrous purpos. The faith. to grasp the glorious prize. The faith, the experience, the full assurance,

"Christ hath apprehended me," gave him the courage and the strength to press on and apprehend that where-

press on and apprehend that where-unto he was apprehended.

Paul's expression, and its applica-tion to the Christian life, can be best understood if we think of a father helping his child to mount the side of some steep precipice. The father stands above, and has taken the son stands above, and has taken the son him to plant his feet, and he will help him to plant his feet, and the help help ward. The leap would be too high and dangerous for the child alone; but the father's band is his trust, and he leaps to get hold of the point for he leaps to get hold of the point for which his father has taken hold of him. It is the father's strength that secures him and lifts him up, and so aim. It is the father's strength that secures him and litts him up, and 35 urges him to use his utmost atrength. Seld is the relation between Christ. Seld is the relation between Christ. Seld is the relation to the livery of the livery it is nothing less than the livery it is nothing less than the livery it is nothing less than the livery in the live

trust Him, who sought and found and brought thee nigh, now to keep thee. Gaze on that arm of power, and say Gaze on that arm of power, and say whother thou hast not reason to be assured that He is indeed able to keep thee ablding in Him. And if ever doubts again arise, or the bitter experience of failure tempt you to despair, just remember where Paul found His strength: "Tam apprehended of Jesus Christ." In that as surance you have a fountain of strength. From that you can look up to the whereunto on which He has set His heart, and set yours there too. From that you gather confidence that the good work He hath begun He will also perform. And in that confidence you will gather courage, day by day, afresh to say, "I follow on, that I may also apprehend that for which I am apprehended of Christ Jesus." It is because Jesus has taken hold of me, and because Jesus keeps me, that I dans to say: Saviour, I abide in Thee."

#### HOME CLUB

"Just Me," Makes Her Debut MILE a smile!

When you smile, another smiles, And soon there's miles and miles of smiles,

And life's worth while if you but smile

Smile a smile!

That's the "advice" I have in large rante the "advice" I have in large crayoned letters, pinned on the kitchen wall in a conspicuous place, and 
it usually does the job. "Jonn's wifeand "Aunt Fanny" have both lately 
suggested the desirability of practising saughs and grins. Yos, and even 
the Book leneff says, "A merry heart 
doeth good like a meeticina." Get the 
habit' Gentle of the control of the 
habit' of the control of the 
habit's control of 
habit's 
habit's control of 
habit's 
habit's bit! Smile a smile!
"Aunt Greta" deplores the inadapta

"Aunt Greta" deplores the introduction bility of our men to conform to the new food conservation rules. That's bility of our men to conform to the new food conservation rules. That's where we have to tackle a problem that has its root and branch clear back to the beginning of, thm: We have to combat, all of a sudden, habits and desires inherited and re-inherited from generation to generation. Men are not naturally such lightning change artists as women; and, when you think of the long ages woman has catered to the desire



MADE IN CANADA

Bread is the cheapest food known. Home bread baking reduces the high cost of living by lessen-ing the amount of expenelve meats required to supply the necessary nourishment to the body.

REFUSE SUBSTITUTES.

EW.GILLETT COMPANY LIMITED







Get This "Universal" **Food Chopper** 

Send us only 3 new subscriptions to Farm and Dairy, and we will send you this well-known food chopper free of cost to you. You can get these sub-scriptions to-day if you try. FARM and DAIRY Peterbere, Ont.



#### SAW-BI

PRICE OF SAW BLADES F.O.B. FACTORY 84.70 26". 8.16 28 9.25 me and money. Simply, mention disassets to with size of help wanted, and remit with rder, I ship promptly. Catalogue, "The Heart of the Farm, ing Lundy Oil Engines, Saw Frames, Grain, Etc., and I as

A. R. LUNDY,





omach, 'tis small wonder we find him clinging like "a burr to a woolen sock" to the old order of things. From sock" to the old order of things. From time immemorial it has been proven that the best conqueror and preserva-tive of man's affection, has been the preparing of appetizing things to eat. (And we women have enjoyed doing There's nothing more gratifying, nothing that gives a Woman more nothing that gives a woman more solid a isfaction, than her man's evi-dent enjoyment of the food she pre-pares). Even Adam fell a victim: "John's Wife" advocated touching a man's funny bone to win his loval and man's funny bone to win his loyal and lasting love,—and submission (?). I wonder what luck Eve would have had, had she tickled Adam's funny bone instead of offering him "cets"? It's a chance if he'd have known what she meant! But "eats" That's a language they all understand. And now, the signs of the times indicate that man must change his viewpoint and "Loyalty First" is demanded us hope our men will rise to the oc

us hope our men will rise to the oc-casion, of their own free will, and vithout the old Adamic pill "The woman Thou gavest me," thrown in. "Merry Margaret" saks what we may do to make the farmeress coe-tume more attractive. I'm sorry I haven't a chance to be a farmeres, as I have two men and a bunch of healthy youngsters to look after, but if I had, I'd wear something along the line of a gymnasium suit, knicker booker drawers with a loose boyish bloneo And, I'd be very particular to have a nice, clearly defined waist line woman, to look her nicest, positive ly must have a good waist line. Its waist line is a joy to the eye of man; and I venture to say that with such as I have in mind, no with a spark of sentiment would say, Scoot Margaret, someone's comin'. He'd have his Margaret right alongside close un

And, speaking of knickers. don't more of our men wear them? I'm sure they are neater and much more becoming than pants turned and re-turned up. And what a waste and re-turned up. And what a waste of perfectily good pant leg! Ever since I have been quite a small child the sight of turned and rolled up trousers has made me feel quite ill.
Think it over men.—"Just Me."

#### Oil on Troubled Waters

M AY I be permitted to fill a chair in the Home Club circle again, even though it is not long store even though it is not long since I dropped in for a chat? I have read the letters from "Aunt Greta" and "A Perplexed Housewife," and thought I would like to have my "say" too. This subject of conserving the food supply surely one of the vital questions to-day. There is no fake about the food shortage, but it is an appalling fact, and unless waste is stopped and production increased, we cannot tell what suffering will be entailed.

Regarding the 'contention that the men on our farms have much to do with conserving food, I heartily agree and I am of the opinion that the objections raised by the menfolk when we endeavor to use substitutes for beef and white flour, cause many heartaches. There are two of three points I would like to raise, however,

substitute dish that it is both nutri-tious and palatable? The reason I mention this point is on account of an incident which came to my attention not long ago. A woman who was anxlous to serve substitutes decided that she would try something new for din-ner. When her husband sat down to the meal, she proceeded to tell him that this new dish was rich in protein.

in this connection. Are we always sure when serving a carbohydrates, etc., and that it con tained so many calories of energy Her husband did not relish the dish however, and asked her how he was going to eat enough of that tastele's mees to work for half a day. We must exercise considerable judg aent, therefore, when selecting absolutely new dishes in order that our men folk

may have something really appetizing.

Then there is another point to be considered. Have we seriously taken this food situation to heart and talked the matter over with husband and the If we really study the food situation intelligently as husband and wife. there will surely be a better chance for cooperation

'A Perplexed Housewife' brings up the question also of the objections raised by the hired men, and hore on ue can afford to lose our hired men in these days of labor scarcity. It seems to me, though, that if the hushand in the home sets the good exband in the home sets the good example of being willing to sacrifice a little in connection with his meals, that the hired men will be almost ashamed to object.

My husband. I am thankful to say, My husband, I am thankful to say, has not raised any objections to my conservation methods up to the pres-ent, so I am fairly hopeful of the future. One of my favorite substitutes for white nour is Johnny case, either baked in a regular cake pan or in little patty pans. We also use catmeal cakes of various kinds, Graham biscuits and gems, buckwheat pancakes, rolled oat porridge and so forth.—
"John's Wife."

#### Planting Hints

BOUT the second week in May A is the best time to sow most flowers out of doors, except sweet peas. Dig the ground deeply and pulverize the soil for annuals. Do not dig fresh strawy manure into ground where seeds are to be sown. Well rotted barryard manure may be dug in deaply. The soil for seeds should in deeply. The soil for seeds should be of a light, loamy nature, and be packed firmly before sowing the seed. It is best to sow, in drills, except with fine seeds. Drills should be ti is best to sow in drills, except with fine seeds. Drills should be about eight inches apart. Thin the plants later on to about six to eight inches apart in the drills, according to the habit or growth of the variety. to the habit or growth of the variety.

A little brushwood spread over the ground where seeds are sown will act as a slight shade until the seeds are well up, and help some of the finer seeds to grow and germinate better. Remove this shading in dull weather.

#### What is Food Control? By Ernest B. Roberts.

HAT is food control, this new knowledge forced on man by war? It is the most appalling undertaking the collective world has It is the fight against World Famine "fixing" prices for the masses than it is spoon-feeding for the individual.

Price-fixing is a small, often only an insignificant part of its ramifications. Food control in its last terms is food production, food possession, food dis tribution and food allotment by th the state. In its international aspect, food control now means or will shortly control now means or will shortly mean, the finding of food for be-tween 400,000,000 and 500,000,000 peo-ple three times a day for seven days week as long as the war lasts and as long afterwards as may be requisite to restore, all over the world, the disturbed means of distributiona period put at anywhere between one and three harvests.

There is something odd and unex plained to us in Canada, living on the fulness of things by the profits of war orders from the Mother Country, to be told that four neutral nations are on bread rations. Holland, Switzerland, Denmark and Sweden have less in-tr'ns eally to do with the war than Carada has. Their existence is not directly at stake. Why should they have hardships and deprivation? Switzerland is reported to be on shorter rations than even any of the warring countries, to be almost as short of food as overrun, broken Bel as glum. Our duty, next to that of the

#### ONLY \$1.00 Dier and we will SONOLA



cabinet in ment, oak, hogany or nut finish, record file index. Play records, V

Sonola, 7 Pitt St. W., Dent. F., Windoor, Ont.

#### MUSIC TAUGHT FREE

y the Oldest and Most Reliable School Music in America—Established 1991 ano, Organ, Violin, Mandolin, Gultar Banjo, Etc.







Miles on a Gallon of Casaline!

Write today for prices and terms, also about the fibre Attarbases—tits any old biles.

SHAW MARUFACTURING CO. Dept. 185 Galesburg, Kens., U.S.A.

#### **CABBAGE PLANTS**

Of all leading early and late varieties, 450 per hundred, mail prepaid: \$2.50 per thousand, exprescollect. Also cauliflower, Brussei sprouts, celery, onion and tomate plants. Ask for price list.

hierold's Farms, Fruitland, Ont. Niegara District.



May 2 Affles, is t innocent n

bood of na ularly little here. What the United Italy (in th retioning) sible in Ca importing a in mass at down to the aunnlies s tributed, or in mass. s territory, E calities. Control cor Canadian e arc. as eas tal importa sideration o their eye or tributive ar

"We have American y The envine them to bec lies largely with the Fo ministration ized thus: States suppl bushels show by conserva

the export b

will have re

200,000,000 b

ously what

f our both nound less and one pour taken out n British Food Hoover on Ja Unless you Allies at les wheat over a exported up tion to the Canada, I can of assuri will be enou. -Extracts fi

Food Control The He (Contin

battle long be is absolutely I am ge my life amon shouldn't may wish I had h to it fully!" Rhoda stoo trouble, hove

earshot. you mi went on, "cor mights? Fors 'And will

offer him?" 1 lessly. Rhoda wine 'I wish. never will kn had come to the sacrifice Rhoda look

tion, was the was his great test That a heart scourgi would come

enough to an and fears, T

Affles, is to share our food with such innocent neutrals. This international sharing of food means a new brotherbood of nations

Warnings are known to be of sing-Warnings are known to be of sing-ularly little use. Yet one is obligatory here. What is imperatively imposed in the United Kingdom, France and Italy (in the form of compulsory food rationing) is not now necessarily possible in Canada. Great Britain is an sible in Canada. Great Britain is an importing country; her supplies enter in mass and can be checked right down to the consumer. Canada has her supplies, so to speak, already distributed, or rather, not yet gathered in mass, spread over 4,000 miles of territory, most of them produced in localities where they are consumed. Control consequently is impossible in the same sense as in Great Britain the same sense as in Great Britain. Canadian exports, where the commodity is once massed, can be, and are, as easily controlled as are British imports. Yet that is not a consideration of those who just now with their eye only on their own little distributive and eating area, ask vacuesly what the Food Board is doing.

"We have but one police force, the appeal of Mr. Hoover asking for food saving. The saving of foods to enable lies largely with the consumer, not with the Food Board.

with the Food Board.
In a survey by the U. S. Food Administration the situation is summarized thus: "The Canadian and United States supplies, upon a normal export basis, fall approximately 350,000,000 bushels short of the allied needs. If by conservation measures in Canada and the United States we can increase the export by 150,000,000 bushels, we will have reduced the deficiency to 200,000,000 bushels. This we could do Wour both peoples would eat one pound less of wheat flour per week and one pound of corn meal instead." would eat one

The "if" of the proposition is quite taken out now. Lord Rhondda, the British Food Controller, cabled to Mr. Hoover on January 25, 1918, as follows: Hoover on January 25, 1918, as follows:
"Unless you are able to send the
Allies at least 75,000,000 bushels of
wheat over and above what you have exported up to Jan. 1st, and in addi-tion to the exportable surplus from Canada, I cannot take the responsibility of assuring our people that there will be enough food to win the war." -Extracts from a pamphlet which comes from the office of the Canadian Food Controller

#### The Heart of the Desert

(Continued from page 18.)

battle long before I knew you. There is absolutely no danger of my reverting. I am going to spend the rest of my life among the whites even if you shouldn't marry me, Rhoda. Rhoda, I wish I had had time to let you grow

Rhoda stood rigidly. Molly, sensing trouble, hovered restlessly just out of earshot.

earshot.
"If you married DeWitt," Kut-le
went on, "could you forget sue? Forget the desert? Forget our days and

get the desert? Forget our aays and nighta? Forget my arms about you?" "Oh, no! No!" cried Rhoda, "You' know that I shall love you always!" "And will DeWitt want what you offer him?" Kut-le went op, merci-

Rhoda winced

"I wish." said Kut-le huskily, "you never will know how I wish that you

never will know how I wish that you had come to me freely, feeling that the sacrifice was worth while!" Ilhoda looked at him wenderingly. After all the weeks of iron determination was the young giant weakening, "I had thought talling him!" had thought to the the that the transparent was the test. That after the travail and the heart scourging, you would see—and the

test. That after the travail and the heart scourging, you would see—and would come to me freely—strong enough to smile at all your regrets and fears. That thought steeled me

put you through the torture. But if now, at the end, your are coming to

if how, at the end, you are coming to me only because you must! Rhoda, I don't want you on those terms." Rhoda gasped. She felt as one feels when in a dream one falls an unex-pected and endless distance. The relief from the pressure of Kut-le's will that had forced her on, for so long, left her weak and aimless.

somehow strength to say:

strength to say:
"Kut-le, we must give each other
up! I love you so that I can let you
go! Ob, can't you see how I feel
about it!"

Again Kut-le looked far off over vista of mountains and canon. His eyes were deep and abstracted, as if he saw into the years ahead with knowledge denied to Rhoda. Then he knowledge denied to khoda. Then he turned to Rhoda and searched her face with burning gaze. He eyed her hair, her lovely heart-broken face, her slender figure For a moment his face was tortured by a look of doubt that was heart-shattering. He lifted Rhoda across his chest in the old way and held her to him with passionate ten-derness. He laid his face against hers and she heard him whisper:

"O my love! Love of my youth and my manhood!" Then he set her very gently to her feet. "Don't cry," he

"I can't bear it!"

Rhoda threw her arms above her head in an abandonment of agony. "Oh, I cannot, cannot bear this!"
Then she added more calmiv: "I suffer

as much as you, Kut-le!"

Again the look of unspeakable grief crossed the young Indian's face, but it immediately became inscrutable. He led Rhoda along the canon edge.

led Khowa along the canon edge.

"Do you see that little trail going
down;" he said.

"Yes," said Rhoda wonderingly,

"Then go!" said Kut-le quietly.

Rhoda looked up at him blankly.

"Go!" he said sternly, "Go back to

your own kind and I will go on, alone.
Don't stop to talk any more. Go now!"

Rhoda turned and looked at Cesca squatting by the horses, at Molly hovering near by with anxious eyes. Never to make the dawn camp, again Never to make the dawn camp, again—never to hear Molly humming over the stew-pot! Suddenly Rhoda feit that if she could have Molly with her she would not be so utterly separated from Kut-le

from Kut-le.

"Let Molly go with me!" she said.

"I love Molly!"

"No!" said Kut-le. "You are to forget the desert and the Indians. Go

With awe and grief too deep for words, Rhoda obeyed the young chief's stern eyes. She clambered down the rough trail to a break in the canon wall, then, clinging with hands and feet, down the sheer side. The tall figure, beautiful in its perfect synmetry stood immovable, the face never turning from her. Rhoda knew that she never was to forget this picture of him. At the foot of the canon wall she stood long, looking up. Far, far above, the straight figure stood in Grand the stood long and the life for highly majority, gasing at the life for hold, and a sacrificed so much. Rhoda looked until, tear-blinded, she turned away

(Continued next week,

#### The Silence of Love

H, inexpressible as sweet, Love takes my voice away: I cannot tell thee, when we meet, But had'st thou hearing ir, thy heart

To know what beats in mine,
Then should'st thou walk, where'er thou art.

In melodies divine So warbling birds lift higher notes
Than to our ears belong;
The music fills their throbbing

throats, throats,
But silence steals the song.

-G. E. Woodberry.



See the McLaughlin line at the Local Show Room

(22)

# KENNIES

Ensure Success

EAVY crops of Beans and Corn are a sure tip for this year. These necessaries will bring big profits to the farmer who is foresighted enough to have planted the seeds that bring bumper yields—Rennie's Seeds.

Examine the list below and send your order right away, or owing to the shortage of seeds (especially corn) you may miss the opportunity of making the most money out of this year's

#### Seed Corn

Customers can always depend on our Seed Corn being the best obtainable and highest germination.

SEED CORN

Selected Learning (Yellow)		
SEED CORN-FODDER		Bush.
Leaming Fodder (Yellow) Red Cob Fodder Southern White Fodder Lots of 5 bushels or over, 10c per bus		4.70
BEANS White Field (Medium). White Marrowfat (Large) Freight prepaid on orders of \$10.00 and over	3.60	9.75 11.25
a reduct broband on orders of \$10000 and over	m Onta	230%

The Stars Mean Bargains

When turning the pages of our 1918 catalogue you will notice little paragraphs with stars at the corners. These denote extra special values that defy competition. Read your catalogue closely.

When buying from dealers insist on Rennie's Seeds.

WILLIAM RENN TORONTO

Some Advertisers who blame advertising for poor business never think of considering their own weakness in follow up. Moral—Attend faithfully to all correspondence.

#### WOULD YOUR MOTHER

Like This Set of Silverware?

and therefore we are giv-ing our Boy and Girl Readers an Opportunity of

securing it All you have to do to get ne of these fine chests of Silver is to Send in to us Only Ten New Yearly Subscriptions to Farm and Dairy.

The chest contains 26 pieces of silver-six solid handled knives, six flat handled forks, six tea spoons, six dessert spoons, a butter knife and a sugar

Go out this week and secure the Ten new sub-scriptions. It will not take you long to get these. Call

you tong to get these. Call at your elighbors on your way home from school, and on Saturday—make it a big day by securing the remainder. Send them along to us and we will immediately on receipt of same, have the silver sent forward to you in a fine hardwood chest fitted with drawers and han-

Circulation Department Farm & Dairy Peterboro, Ont.

S......

#### Spring Designs, Both Pleasing and Practical

Fagm and Dairy patterns shown in these columns are especially prepared to ure Women Folik. They can be relied upon to be the states models and include most modern features of the paper pattern. When sending your order pile careful to date bunt or waits measure for adults, for children, and the numi capital properties of the paper of the pattern of t



W ITHi the advent of warmer weather, spring and summer fashions are gree—at least the sheer things are. In the atore windows nowadays we see beautiful materials on display for making updated the state of the state

2633

2628-2636—Lady's Costume—The woman on the farm needs a costume which is next and practical and one that will the sent and practical and one that will be sent and practical and one that will be sent and the sent and practical and one that will cown on business or one other occasions when she is called away from home. Such a costume as the one bere shown should nearly a sent of the sent and the bloose of white Urimmed with name the bosses of white the bosses of the bo

3 and 4 years.

2023—Play Dress—This dress, as will be noted, has the lower edge arranged for romper style and should make a good play costume. Four sizes: 1, 2, 3 and 4 years.

2 years.

2 years and pressed pressed on the pressed pressed by the pressed pressed

# EATON'S MONEY-SAVING VALUES

#### CORRECT STYLES AT ECONOMY PRICES

OTE the low prices, and remember all goods are sold under the EATON guarantee. Months ago, before the present high costs, our buyers bought the materials, hence we can afford these striking values. As prices of clothing of all sorts are steadily advancing, you will be wise to buy now and buy right at EATON prices. You will have to pay more later on for goods not up to the same standard as these. But don't delay if you wish to avoid being disappointed.

Most of the merchandise below will be found in our present catalogue, which is filled with similar big money-saving values. You will be dollars in pocket by taking full advantage of the values shown here, and by making your future selections of requirements in any line from the EATON catalogue. Prices will be higher later on, so order now. If you haven't a catalogue, write to-day for your copy, so that you may share fully in the savings it presents.



The quickest way to save money to buy an ALPHA now

to pay for an engine is-

DERHAPS you have been putting off buying an engine until you could lay by enough money to pay for it.

A much better way to save the money would be to install an ALPHA Gas Engine NOW and put it to work. It would soon save its own cost, as the thousands of Alpha users in Canada will tell you.

You may be able to buy engines that cost a little less than the Alpha, but bear in mind that an engine that costs you less to buy also costs the manufacturer less to build. And that can mean but one thing—inferior quality throughout the engine.

You don't want that kind of an engine. Its life will be short, its fuel and repair bills high, and you will be subject to time and money wasting delays.

Send for our catalogue, which tells why the farmer who buys an Alpha gets the most for his money.

Alpha Gas Engines are made in 12 sizes, 1½ to 28 H. P., and are furnished in stationary, semi-portable and portable styles, with hopper or tank-coeled cylinder.

#### THE DE LAVAL COMPANY, Ltd. LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA

Sole manufacturers in Canada of the famous De Laval Cream Separator and Ideal Green Feed Siles. Alpha Gas Engines, Alpha Churas and Butter-Werkers. Catalogues of any of our lines mailed upon recense

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

#### Do Your Banking by R. F. D.



Make the mail your messenger; and save yourself the long rides to town.

Deposits may be made—butter and cheese cheques cashed-money withdrawn-just as easily and safely by mail as in person.

Write the manager to tell you all about this convenient plan of Banking By Mail -or call in and have it explained, the next time you are town.

### HE MERCHANT

Head Office: Montreal OF CANADA

with its 182 Branches in Ontario, 32 Branches in Ovebec, 19 Branches in Manitoba, 21 Branches in Seekatchewan, 53 Branches in Alberta, and 8 Branches in British Columbia serves at Nucl. Conder most officertusia. write or Call AT NEAREST BRANCH

#### SEED GRAINS

O.A.C. No. 21 Barley, Bunker King Oats, O.A.C. No. 72 Oats, Silver Hull Buckwheat, Centennial gas, also highest grades of Clo-vers and Timothy.

vers and Timothy.

Ask for our prices on Mangels,
turnips, Onions, Potatoes, Beans,
Corn and garden seeds of all kinds.

If in need of feeds write us. We
can supply Linseed Oil Cake Meal,
Corn Oil Cake Meal, Givten Feed,
Bran, Shorts, Cornneal, re-cleaned
Standard Screenings.

Write or phone for prices

CRAMPSEY & KELLY 774-780 Devercourt Rd., TORONTO, ONTAR'O



ep your farm free of weeds. D you please, with a 6 to 12 h.p. E al Light-Running Gilson Thres r without Blower. Send for fu

#### The Home Dairy

Selling Milk as Cream Cheese

THE dairy produce from the Experimental Farm, Agassiz, B. C., has been sold in a number of different ways, one of the most satisfactory of which is in the form of creen tory of which is in the form of creem cheese. The cream cheese appears to be the most popular soft cheese, it is easily made on the farm and requires very little special apparatus. The labor and cost of making and packing are small, so that the manufacture is well suited for any producer within a reasonable distance from a market. It is a suitable and remunerative method of marketing cream. During cool weather we have been During cool weather we have been able to keep this cheese for a week or ten days without any appreciable deterioration in flavor, but, as evaporation is going on continually, the ation is going on continually, the cheese, unless originally made over weight, will not be up to the standard weight at the end of this time. It is therefore advisable to place it on the market as soon as possible after com-The market as yet is limited, but

the demand appears to be increasing. We have sold during the past twelve months 5,420 of these cheeses in the city of Vancouver. The wholesale The wholesale price obtained is 15c each, which amounts to \$813 for the product during the past year. Each cheese weight six ounces and approximately ten dozen are now being manufactured weekly from 170 pounds of 12 per cent. cream. This brings a return of 90 cents per pound butterfat for the cream, with the whey retained for feeding purposes.

The shape of the cheese is cylindri-cal from one to one and a half inches deep and three inches in diameter. when moulding, the cheese is pressed into a cheeseloth cover and when ready for shipment is incased in a neat ardboard carton. It is a cheap cheese and a convenient size for table use. Picnickers have found it a suitable substitute for meat as a filling for sandwiches. It is also found to be very delicious and palatable when served with lettuce, celery, or any of the various kinds of vegetable

The method of manufacture is con-isely described in Exhibition Circula No. 23, which may be obtained for the asking from any of the Experimental

Ripening the Cream for Churning

N many farms it is customary to churn only two or three times a week. Where this is the case the cream from each separation should be kept in the cooling tank about 12 hours before churning. order that the cream may ripen uniformly, it should be placed in one receptacle, thoroughly mixed, and warmed slowly to a temperature of from 65 to 75 degrees F. Frequent stirrings with the stirring rod and the use of a thermometer are nec insure uniform and proper tempera-ture throughout. Fresh cream should not be added after ripening has begun. The cream should be allowed to stand The cream should be allowed to stand at the ripening temperature (from 65 to 75 degrees F.) until it thickens, assumes a glossy appearance, and is mildly sour, when it should be cooled quickly to chursing temperature or quickly to chursing temperature or the summer of the cooled quickly from 52 to 40 degrees F. in the winter, or this cooling may be done if the cream is in a can by placed one if the cream is in a can by placed. done if the cream is in a can by plac ing it in the cooling tank and stirring it occasionally. Ice or cold water should never be put into the cream. In order that the butter may have the desired firmness of body, the cream should be held at churning temperature or slightly below for at least two hours before it is churned. Even after it is cooled the cream will con-

# 2Days'Work

in 1

Mr. Farmer

Mr. Farmer:

We sell a "farm tractor attachment for use with the Ford car. We guarantee that the Staude Make." Tractor will do any 4-horse Make." Tractor will do any 4-horse may be seen a day. On the disc and to the sell of the sell o

rarm, in 3 days' time if you do your part now.

There is no question about this machine doing good work on your farm. We will gladly take it of your hands it it does not reason. ably meet your expectations. We instal.

The Ontario Auto-Tractor Co.

157 BAY STREET, TORONTO

#### KNOWLEDGE IS POWER



By VICTOR W. PAGE g are given. Every detail

ing are given treated in a non-technical yet treated in a non-technical yet. The second of the second in the secon

BOOK DEPARTMENT, FARM AND DAIRY, PYTERBORO

When Writing Mention FARM & DAIRY

tinue to sour seredy for churning only mildly sour, acidity, as acidity test.

Special care she vent the cream -it gives the bu The souring of

the growth of ba simple form of pl teria produce lac sirable in butter. of bacteria, howe used for ripening unclean methods utensils that have cleaned and ster will develop in the ing and will be r Undesirable veloped even in ripening temperatulow or if the crean in fact, an overri farm butter. Star

in creameries i of cream by mea which are pure cul producing bacteria rised milk. The undertaken unless commercial scale cream are productions, there is starters. If handle ditions and protect ation, cream will of flavor when allowe naturally at the pr When butter is n cial scale it may b

trol the ripening product that is m waek to week. Commercial cult making may be obt manufacturers and houses. Directions pany each package

lowed carefully. A natural or home be made as follows Clean thorough minutes three pint ! After boiling, keep i

ly drawn from eac place in the jars, degrees F., and kee ture until curdling o Curdling, or c take place in about i curd should be firm and should show If tion of the whey.

clean, sharp, sour o ly meets those cond gate it, discarding selected sample is

(a) Clean thoroughte minutes a quart

(b) Fill the jar w milk, cover loosely bolling, and pasteuris ly for 30 minutes Cool the milk

and add a teaspoonf described in section to curdle at that te (d) Propagate the to day in the same in (a), (b), and (c). scribed in (c) is th ripening the cream, added in such quanti tenth to one-fifth of churned. Starter is p the ripening tempera ing process with star same as natural sou at takes place in a s tinue to sour somewhat, but when ready for churning it should still be only mildly sour, not to exceed 0.6 per cent acidity, as determined by the acidity test.

Special care should be taken to pre vent the cream from becoming too sour, which has two harmful results -it gives the butter a sour, overripe cream dayor and injures its keeping

The souring of cream is caused by the growth of bacteria, which are n simple form of plant life. Some bac-teria produce lactic acid and, as a the flavors that are by-product, the navors that are de-sirable in butter. Many other types of bacteris, however, grow and pro-duce bad lavors at the temperature used for ripening cream. If the milk or cream has been contaminated by unclean methods during milking or by unciesh intribute author hand or by utenails that have not been properly cleaned and sterllized, "off flavors" will develop in the cream during ripen-ing and will be retained in the but-ter. Undestrable flavors may be de-reloped even in clean cream if the ripening temperature is too high or too low or if the cream becomes overripe; in fact, an overripe cream flavor is one of the most common defects in farm butter.

Starters.
In creameries it is customary to control to some extent the ripening of rream by means of "starters," which are pure cultures of lactic-acidproducing bacteria grown in pasteu-rized milk. The making of starters is technical work that should not be undertaken unless butter is made on a commercial scale. If the milk and cream are produced under proper conditions, there is no need for using starters. If handled under those con ditions and protected from contamin ditions and protected from contamin-ation, cream will develop the desired flavor when allowed to ripen or sour naturally at the proper temperatures. When butter is made on a commer-

cial scale it may be advisable to trol the ripening and thus make a product that is more uniform from

week to week

cultures making may be obtained from culture manufacturers and from dairy-supply houses. Directions for using accom-pany each package and should be fol-

A natural or home-made starter may

be made as follows Clean thoroughly and boll for five minutes three pint fruit jars and tops.
After boiling, keep the jars covered to
prevent the entrance of bacteria.

Take a pint sample of milk fresh-2. Take a pint sample of mint fresh-ly drawn from each of three cows, place in the jars, cover, cool to 75 degrees F., and keep at that tempera-ture until curdling occurs.

3. Curdling, or coagulation, should take place in about 24 hours. An ideal curd should be firm, smooth, marble-like, free from holes or gas bubbles, and should show little or no separa-tion of the whey. It should have a

clean, sharp, sour or acid flavor.

4. Select the sample that most closely meets those conditions and propa-gate it, discarding the others. The selected sample is propagated as fol-

(a) Clean thoroughly and boil for five minutes a quart jar, the top, and

Fill the jar with freshly drawn milk, cover loosely, heat slowly to boiling, and pasteurize by boiling gently for 30 minutes

Cool the milk to 75 degrees F and add a teaspoonful of curdled milk described in section 3 and set away to curdle at that temperature.

(d) Propagate the starter from day to day in the same manner described in (a), (b), and (c). The starter described in (c) is the one to use for ripening the cream, and should be added in such quantities as to be one-tenth to en-eith of the cream to be churned. Starter is put into the cream while the latter is being warmed to while the latter is being warmed to approximate the proper starter. The ripen-ing product the property of the case of the same as natural source time. scribed in (c) is the one to use

#### Field Notes By "Mac."

T was my privilege recently to spend a pleasant hour or so with Mr. Ballantyne, Sr., of Chester-ville, This gentleman is an elder brother of Messrs, J. & C. C. Ballantyne, the proprietors of Evie Stock Tyra, the proprietors of Evie Stock Parm. Mr. Ballantyne in his younger Ays, was an engineer, but heign nest days was an engineer, but being past the allotted three score and ten he now lives a quiet retired life on his brothers' farm at Chesterville. Being aturally of a mechanical inclination he takes partially an exchanical inclination he takes partially an experience being the farm, his former experience being of great value in this respect. The farm house at Evic Stock Farm, as well as the buildings, are lighted by electricity. The water is pumped by electricity. The water is pumped by the same power plant that operates the electric plant and these are estuathed in an outhouse connected with brothers' farm at Chesterville. the electric plant and those are situat-ed in an out-house connected with the rarm house. The power plant is the especial care of the gentleman in question. In connection is a nicely

fitted workshop where Mr. Ballantyne spends many hours in the little neces-sary repair work which is constantly cropping up on the farm. Such a shop as this, to say nothing of a man of such experience in such work, is a valuable asset to any farm.

Time is Money. How much time is lost on the average dairy farm by carrying milk from one end of the stable to the other as each cow is milked? At the Alliston Stock Farm, Chesterville, to avoid this loss of time (which would be to avoid considerable, the row of cows in their stable being 250 feet long) they use a truck large enough to hold four cans. On it there is a place to hang cans. On it there is a place to naise the scales and a place to put the milk record sheet. Those who milk the cows start at one end of the stable and as they work towards the other and the truck is moved along and the milk straignd right into the can so milk strained right into the cans on the truck without having to carry it to the far end of the stable.

The Right Kind of Help THE most noticeable features about the farm of Mr. Walburn Rivers, of Ingersoll, Ont., and possibly the greatest reasons for his success

as a breeder of Holsteins are his three sons. These boys are all old enough to do their share of work about the farm, and yet not of military age. With such help as this Mr. Rivers has been able to devote his attention to his cows in a way that he would not be able to do if he were depending on the average hired help, or lads from the city. When I called at Mr. Rivers' farm recently and noticed the ease and familiarity with which the boys went about their work, it brought afresh to my mind how really little they know about work on a farm, who believe that anybody, no matter where he had his experi-ence, is capable of filling a man's place on the farm. I venture to say that one of the Rivers' boys will ac-complish a greater result in the course of a year, than two or three of those unfamiliar with farm condi-

This is not written with an idea of discouraging the sending of town boys to the farms for the summer months. They are all needed, and the experi-ence which they will gain will be much better for them, not only from a practical standpoint, but in correcting any idea they may have regard-ing the easiness of farming.

#### IMPERIAL SERVICE

If you are in doubt about the proper lubricant, ask the Imperial Oil man. He will give you courteous attention and sound advice on your lubrication problems. That is part of Imperial Service.

#### **HUMOR YOUR MACHINERY**

IVE machines correct lubrication and they behave well. Give machines correct indirection and full rated You get smooth-running, quiet engines and full rated horse power day in and day out. But you must humor them. If you are burning kerosene in your motor instead of gasoline, a special lubricant will probably be necessary to meet the changed conditions. A loose bearing and a tight bearing require different treatment. There is a correct lubricant for every mechanical need.

At Imperial Oil stations in every part of Canada, you can get the just-right lubricant for every need and service.

All Imperial lubricating oils are sold in steel barrels and half-barrelsconvenient and economical. There's no waste. You use every drop you pay for; and you are sure it is uniform and clean.

#### A Correct Lubricant for every Farm Machine



#### The Makers' Corner

(26)

Butter and Cheese Makers are in-vited to send contributions to this department, to ask questions on matters relating to cheese making, and to suggest subjects for discus-sion.

#### Price of Cheese Agreed Upon

THE Dairy Produce Commission, which is constituted of members which is constituted of members representing the British Ministry of Food, the Dominion Department of Agriculture, the Canada Food Board, the Producers and the Trade, held a Montreal recently. Those the Producers and the Trade, held a session at Montreal recently. Those present were: Mr. Arthur J. Mills, re-present were: Mr. Arthur J. Mills, re-presenting the British Ministry of Food: Mr. J. A. Ruddick, representing the Dominion Department of Agricul-ture; Dr. Jas. W. Robertson, repre-senting the Canada Food Board; Messrs. Jas. Donaldson, A. Gerin and James Alexander, representing the producers and the trade.

Mr. Mills stated that the British Ministry of Food has authorized the Dairy Produce Commission to act for them in connection with the exportable surplus of Canadian Cheese, con-densed milk and butter of the make of the season of 1918.

of the season of 1918.
The price authorized for cheese is 23 cents per lb-for No. 1 grade, fo.b., steamer at Mourical; 12%, per lb, for No. 2 grade, and 22c for No. 3 grade. After fully considering the whole situation, the commission unanimously approved of the proposal. A committee was appointed to work out the question of a relative price for condensed milk. The object in view is to

secure such a parity of prices that no unfair competition will arise between the manufacturers of condensed milk and the manufacturers of cheese, to secure the patronage of dairy farmers. It is expected that the price of conThe chief advantages to the cheese industry of Canada from this arrangement are the assurance of a regular market at a fair and reasonable price. for the whole output, regular ship-ments even under the present extreme

#### Seed Corn Now Available

THE seed corn situation has improved sufficiently in the past two weeks that all farmers may now feel assured that plenty of seed will be available. In ornarios and we find that plenty of seed will be available in Ontario and we find that plenty of the teading seed merchants in Ontario and we find that per in fourth with all of the leading seed merchants in Ontario and we find that per in fourth with all of the leading seed merchants in the seed corn on hand and are experiencing no difficulty in getting additional shipments through. One seed dealer informed us that the seed corn chants agree that the germination of the imported corn will is add linerary of the seed of t

& COWS

4 lbs per wee

30° per lb

\$1.20 Per week

40 weeks

densed milk will be determined and announced in the near future. The price for butter will be arranged as soon as there is a surplus available for export. It also will be on a basis of parity with the prices for cheese and condensed milk.

shortage of tonnage and the financing of a trade of about 40 millions of dol-

lars.

The only alternative method of disposing of the cheese of Canada would be to leave it open for the British Ministry of Food to purchase such quantities as they would require from time to time, and that without any assurance that they would purchase the whole quantity available for export. At the present time, the althod buyers are being offered United States cheese of this season's make at 22c f.o.b. New York.

Now that prices have been arranged, it is hoped that financial arrangements will shortly be completed to enable the Commission to accept delivery of new season's cheese.

#### Dairy Council for Canada

CANADIAN Press Despatch from Regina, Sask., reads as follows:

"By-laws and a constitution for a Dominion-wide organization to be known as the Dairy Council of Cauche dad are being prepared by F Walcogan, Dairy Commissioner of Sakatchewan. The object of the organization is a organized to medium. ration is to establish a medium of ex-pression for the dairy interests, and it may also lead to the establishment of standard grades for cream and butter, and standard packages for butter, and standard packages for marketing."

A letter from Mr. Logan was read

to the men assembled at the Dairy Convention at Guelph a few weeks ago, broaching this same subject of Dominion wide organization. Definite action in Ontario is as yet impossible as a provincial dairy council has not yet been organized. Mr. Logan's Deminion Dairy Council will have to wait on further organization in Ontario as such a council with Ontario not properly represented could not properly call itself the "Dairy Coun-cil of Canada."

#### Pasteurization in Manitoba\* L. A. Gibson, Dairy Commissioner for Manitoba.

N order that creamery butter may qualify for "Government Grade certificates" it must be made from properly pasteurized cream. in accordance with a resolution pas-ed by the Manitoba Dairy Association at their annual convention, held in Winnipeg on Friday, February 1st. 1918, which reads as follows:

"The Manitoba Dairy Association recommends to the Department of Agriculture that, owing to the uncertainty of the keeping qualities of creamery butter made from raw or improperly pasteurized cream, Grade Certificates only be issued on butter made from properly pasteurized cream, showing a negative reaction to the Storch Test. Further, that a special score card be issued to the creameries on butter made from raw or improperly pasteurized cream, this card to show that the score does not indicate the quality of the butter be-

To qualify for a Grade Certificate the cream must be heated to 170 de-grees F. and held for 10 minutes, otherwise it will show a positive reaction to the Storch Test. On butter showing a positive reaction the score cards will be stamped "This score card does not indicate quality of but

ter beyond date of issue."

This system has been found neces sary by our previous year's experiby results of experiments conducted by our Dairy Branch during the last year, in regard to the keeping qualities of butter made from raw cream, cream heated to 140 degrees F. and cream heated to 170 degrees F. Three small churnings were made daily out of the same vat of cream, at above temperatures, for a period extending over two weeks at different seasons This butter was placed in cold storage, and it has been found on inspection that in every case the butter made from raw cream had developed a fishy flavor, on each re-examination

"A circular letter sent to all creamery buttermakers in Manitoba.

Saving Money by Spending. Saving per Cow per week : \$10 Burterfat

"SAVING" money by continuing to use an inferior machine is like "saving at the spigot and wasting at the bung." For instance, if your machine skims down to .1 per cent. for every thousand pounds of milk skimmed, compare that result with the splendid, proven record of the Renfrew. You find by having the

# Kenfrew

that you will save about ½ pound of butter-fat per v k for every cow. The Renfrew skims down to .01 per cent. That loss of  $_{2\omega}$  pound means money! With eight cows, and butter-fat at say 30 cents per pound, you would be losing every year (40 weeks' milking) the tidy sum of \$48.

This sum saved is accepted by us as a first payment on a Renfrew. The saving soon pays for the machine—and then the \$48 per year for eight cows becomes extra profit.

Will it not pay you to discard the old machine for the Renfrew? It gets all but the last three ounces of butter-fat in a whole ton of milk skimmed. If you could reckon the losses the old machine made the last few years,

wouldn't it decide you right away to get the close-skimming Renfrew?

Our illustrated booklet gives in-teresting proofs of the Renfrew's close skimming, including tests by Govern-ment Dairy Schools. It also explains the Renfrew's self-oiling system, the interchangeable capacity feature, easy-chan advantages. Send for to-clean advantages, etc. booklet to-day.

Other Lines: Renfrew Kerosene Engine, Happy Farmer Tractors, Earmers' 2000 lb. Truck Scale.





MADE IN CANADA

The Renfrew Machinery Co., Limited

Head Office and Works: Renfrew, Ontario Eastern Branch: Sussex, N.B. U.S.A. Branch: Milwaukee, Wis.

it was also of the acidity of butter was ma pronounced the able flavors. The cream heated to showed a poor ter made from t cream showed ve especially on the

tion will improve not overcome a butter will still rancid flavor. I teurization will No. 1's out of of larger the perceive, oth equal, the better butter, therefore that you grade pay for it accor courage the prod flavored cream, finest butter, ot duce a better cla Wool Meeti

NE of the m inge of shee was held in War Trade Board 17th. It comprise ed by the War Tr mittee of Wool G the national co a committee of wool dealers and rowers were rep McEwan, London Wilson, Forres, Si Brooklin, Ont.; H. Alta; Stanley A N.S.; and T. Reg Ont. These groves of the Ca Ewan and Capt. ... president and vie tively. The manufacture

not have sufficien New Zealand woo by the British Go their purposes and require American to meet their ne American wool car Canada, except for manufacture of Am orders and they cl was most frequen the country either direct sales, withe The growers we

the manufacturers fashion that at the insure Canadian was a price equal to t ket for this producattention strongly i an exodus of sheet the United States, prices fall below th that country. They market for Canadia vantages which the Canadian si Canadian wool wer States without the p imposed by the whereby the Govern whereby the Govern option upon all imp 30th, 1917, prices mme time they we sent their wool to manufacturer before purchase at the exhe desire it. The result of the

Pressed in the follow That the Canad Board request the Trade Board continues export of Canad

918.

ry of

atch

Can. San

nen

eeks

of

this flavor becoming more pronounc-

was also found that the higher It was also cound that the higher the acidity of the cream, which the butter was made from, the more pronounced the flash and objection-she flavors. The butter made from cream heade to 140 degrees F. also showed a poor flavor, while the but-

showed a poor flavor, while the but-ter made from the higher pasteurised cream showed very little deterioration, especially on the low acidity cream. It has been proven that pasteurisa-tion will improve the keeping quali-ties of butter, but pasteurisation will not overcome all defects. If the cream is old, sour and rancid, the butter of the cream has been all the control of the cream of the control of the ceutration will not make Special pas-teurisation will not make Special pas-teurisation will not make Special pasteurisation will not make Specials or No. 1's out off flavored cream. The arger the percentage of sweet cream you receive, other conditions being equal, the better the flavor of your better, therefore, we strongly urge that you grade all your cream and pay for it according to quality. En-courage the production of sweet, good. flavored cream, that will make the finest butter, otherwise there is no gement to the farmer to produce a better class of cream

#### Wool Meeting at Ottawa

NE of the most important meet-inge of sheep raising in Canada was held in Ottawa before the War Trade Board, Wednesday, April 17th. It comprised a conference call-III. It comprised a conference call-ed by the War Trade Board of a Com-mittee of Wool Growers appointed at the national convention of sheep raisers in Canada in February, with a committee of the manufacturers, wool dealers and wool pullers. The growers were represented by Col. R. McEwan, London, Ont.; Capt. J. D. Wilson, Forres, Sask.; W. A. Dryden, Brooklin, Ont.; H. S. Allen, Lethbridge, Alta.; Stanley A. Logan, Amberst, NS.; and T. Reg. Arkell, Toronto, NS; and T. Reg. Arkell. Toronto, Ont. Those growers are all mem-bers of the Canadian Cooperative Wool Growers, Limited, and Col. Mc-Ewan and Capt. J. D. Wilson are president and vice-president respec-tively.

The manufacturers feared they may not have sufficient Australian and New Zealand wool allotted to them by the British Government to serve their purposes and consequently might require American and Canadian wool to meet their needs. At present, American wool cannot be exported to Canada, except for the purpose of manufacture of American Government orders and they claim Canadian wool was most frequently shipped out of the country either on consignment of direct sales, without themselves be-ing given an opportunity to bid upon

The growers were eager to assist the manufacturers in any reasonable fashion that at the same time would issure Canadian wool being sold at a price equal to the American mar-ket for this product, and drew their attention strongly to the likelihood of an exodus of sheep from Canada to the United States, should Canadian prices fall below the level of those in that country. They, therefore, pressed the desirability of an unrestricted market for Canadian wool and the advantages which would accrue to the Canadian sheep raiser if Canadian wool went into the United Canadian wool went into the United States without the present restrictions imposed by the latter country, whereby the Government exercises an egtion upon all imported wool at July 26th, 1917, prices less 8%. At the ame time they were willing to present their wool to the Canadian manufacture referre export, for his purchase at the export price should he desire it. he desire it.

The result of the conference is ex-Pressed in the following resolution:
"That the Camadian War Trade
Board request that the U.S. War
Trade Board continue to allow the
free export of Canadian grown wools,



The Right Kind of Fence, Erected

# PAGE—THE ALWAYS UNIFORM FENCE

The great big fact about Page Fence is its uniformity. Fence woven on Page Looms is sure to be uniform and that's the only kind of fence you can afford to buy. The other kind may be a little cheaper in first cost, but what a difference a few years make. Many of the first fences we made, and that's over 25 years, are still giving the best of good service.

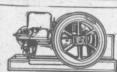
#### PAGE WIRE FENCES

ARE FULL No. 9 GAUGE WIRE

Even the locks are full gauge. The finest quality wire is used—extra strong, very rigid, tight-locked and evenly spaced. For a life-time security against fence troubles, get Page Fence and Gates.

There is a Page Wire Fence for every purpose. Page Gates, built as carefully as Page Wire fences, are obtainable in every regular size. Write our nearest branch for price list of all Page Products-Page Fences, Gates, Engines or Wood-saws. Information will be cheerfully given. Drop us a line to-day.

SHIPPING TERMS: Freight allowed on all shipments of 200 pounds or more, to any place in Old Ontario or Quebec, when payment is made within thirty days.



THE BEST WORKMAN YOU CAN GET THE BEST WORKMAN YOU CAN GET is the one bat never tires. The sturdy little Page is always on the sturdy little Page is always on the sturdy little Page is always on the read of the little lit

# THE PAGE WIRE FENCE COMPANY

WALKERVILLE

519 Notre Dame St., Montreal.

WINNIPEG.

He is a good farmer—he reads Farm and Dairy regularly.

#### Horse Clippers Sharpened

Don't throw away your old clippers blades. Mail them to us and we will sharpen and re-turn them at small cost.

H. T. MILLARD, 225 HUNTER ST. Phone 1256 PETERBORO, ONT

both fleece and pulled, to the U.S.A. on the basis that grading is permitted in the same without exercising government import options and further to encourage the import of toreign free wools that the Canadian Government with the control of the c tree wools that the Canadian Govern-ment remove the embargo at present in effect, which prohibits the re-ex-port from Canada to the U.S.A. of foreign free wool now held or in fu-ture imported into Canada, the ex-port of this to be under license."

# DURHAM DUPLEX RAZOR FREE

Buy a Duplex Hair Cutter Regular \$2.00, For Only \$1.00

This Big \$3.00 Worth for Only \$1

If You Send Now -- To-day





The area only, we make a special anniversary offer at COST PRICE. HERE The DON'T Miss IT. We have advertised these goods so much in Farm and Dairy that you all know the work they will do, and that we curarnise than to de long that you all know the work they will do, and that we curarnize than to defectly any style or length. APTOMATES FLAIR CUTTER! will cut a head of hair perfectly any style or length and minutes. No experience or practice is needed the Durham Purplex Race is the only real minutes. No experience or practice is needed with it you can get the best shave of your life without any agest of cutting yourself. This Complete Barber Shop Only \$1.00 Post Paid

We just want to be sure that these two wonderful tools are placed in every local-tive to sell at COST PRECE that us in lots of orders. We have only a limited number to sell at COST PRECE to the SELL AT SELL AT

May 2, 193

FO

Jersey cattl Over 100 J

bred Clydes

farms with

BALDWIN

For Milk, I

Hoistein co-you try just very soon v HOLSTEIN TION.

CURD

SPON

Not an expe Time-tried cess in the m

START-LACTIC-ACE A pure cultu lactic-acid-pro-ing milk and the quality an tage cheese, b

**GERM** 

(NOT A P

A scientifica

Disinfectant ar

The above pro in dairy supplies. Write to us for other desired info

PARKE, 1

WALK

(STA The First an

COATI

Does the Collar Fit?

trouble results on the average farm each year from sore shoulders on horses caused by the improper fitting of collars, and improper adjustment of hames. The collar should fit the shoulder that in length there is just room for the flat of one's hand between the collar and the neck at the bottom. In width the collar should fit snugly against the sides of the neck from a point three inches above the shoulder point, to a point about half-way up to the top of the neck. The upper one-third to one-half of the collar should be wide enough to allow one to pass the thick of the hand between the collar and the side of the neck. If the upper part of the neck is thick a "Quarter Sweaney" or "Half Sweaney" collar should be used, so as not to pinch the neck. A collar too wide at the top will produce a sore neck on account of side motion of the

collar as the horse walks.

Sweat pads should be avoided as they hold the heat and sweat and produce a tender shoulder, often causing a galled condition.

The hames should be adjusted so as to hold the collar snugly against the sides of the neck, and so as to bring the line of draft at right angles to the face of the shoulder as nearly as

The collar should be kept clean by washing with a damp cloth each night when it is removed from the shoul-

Washing the shoulders each even-ing with cold sall water will help to toughen the skin and prevent shoul-der galls.—J. S. Montgomery.

#### The Conscription Issue

HE recent drastic action of the Government in conscripting all unmarried men between the ages of 20 and 23, irrespective of their occupation, has called forth a storm of protest from farmers all over the country, who only see in this the breaking of the promise made by the Government at the last election that farm labor would not be conscripted. At a large gathering of farmers held

in Petrolea on April 27, a resolution was passed requesting the Government to grant some form of exemption to bons fide farmers. That the That the has entirely changed and that the changed circumstances demanded this action was made evident from a letter sent by Mr. F. F. Pardee, M.P. for West Lambton, and read at the meeting. This said in

#### Matter Entirely Changed.

"This Military Service Act was not passed without the very gravest con-sideration. In fact, the only certain knowledge is that at the present time it was absolutely necessary, in order to prevent the Germans breaking through the front line in France, that every ounce of man-power should be used for reinforcements to that army. I am fully well aware that during the I am fully well aware that during the last election the promise was made that farm labor would not be conscripted, but let me point out that from December to the first part of March there was an absolutely new face on the matter. The tremendous German drive was started with the avowed intention of breaking through

we are a part, at the present time and which will continue no doubt for The whole and main object months. motions. The wance and main object in making this drastic change is that the British Empire should remain intact. Nobody regrets more than myself that this last step had to be taken, as I recognize fully that it is not a light matter to take a young man and send him to the battle line. but the supreme idea must be that it is for our own and the nation's selfpreservation, and that by warding off the terrible consequences of a Ger-man victory we are only making our own existence fit to live in. Production, of course, has been urged but some method must be evolved where-by production shall still continue by production shall still even with the first draft."

#### The Cancelled Exemptions

A MEETING of the Brant County
Board of Agriculture was held
the evening of April 22nd in
Brantford, at which the following resolutions were unanimously agr upon:

"Whereas the recent man power bill will, in our opinion, result in a

#### DON'T SCRAP

that machine just because it has a few broken parts which you cannot conveniently replace. Have them welded by the OXY-ACETYLENE process. We repair broken parts of farm machinery or engines—in fact any broken metal, whether cast iron, steel, brass, or aluminum; melting together the broken edges and making the article as strong as new

GIVE US A TRIAL.

Send articles by express. Write or phone for time required and prices. H. T. MILLARD, 225 HUNTER ST. Phone 1256, PETERBORO, ONT.

#### R. O. P. CHAMPIONS

According to the R. O. F. reports a Jersey cow produced more butter fat during last year than any other cow of any other breed. We have new for sale Twenty Cows, fresh or springing, also Young Bulls, all ages. Bome of those are closely related to the champion butter cow mentioned aboves. B. H. BULL & SON, BRAMPTON, ONT.

### RED CROSS BULL

#### Donated by C. V. Robbins

Eleven daughters and one sen nince December 1st, 1811. A pretty good off or their sire RING WALKER! PRINCE (1768). The boy with me many street in the property of the property

TWO and a quarter million dollars is a goodly sum to ask from the people of Canada by voluntary contribution; but this is the amount aimed at by the third people of Canada by voluntary contribution; but this is the third people of Canada by voluntary contribution of the child people of the contribution of the contribution of the contribution of the entire sum is to be expended and the contribute and the appeal is based on grounds that should entire the compiled euccess of the campaign. Consider the following which are only a few items of Y. M. C. A. service to the boys in France: and eventy-nine in England.

France and eventy-nine in England.

Figure and eventy-nine in England.

The Red Triangle Fund

Over 300,000 letters are written in Y. M. C. A. overseas buildings in

one day.

The Y. M. C. A. saved hundreds of lives at Vimy Ridge by caring

The Y. M. C. A. saved hundrede of lives at Vimy Ridge by caring for the walking wounded.

The Y. M. C. A. The estimated cost for this service for eight months: a \$4,800 cm agazines are distributed from than 150,000 magazines are distributed free each month by More than 150,000 magazines are distributed free each month by More than 150,000 magazines are distributed free each month by More than 150,000 magazines are distributed free each month by Cancers aling-eongs, good-night services and personal interviews are energetically conducted by the Y. M. C. A. secretaries, and through this agency with the secretaries of the secretaries and through this agency with the secretaries and through the secretaries and through this agency with the secretaries and through the secretaries and through the secretaries and the secretaries and through the secretaries and the secretaries and through through the secretaries and through the secretaries and throug

#### WHO WANTS THIS BULL?

DAM-Butter, 7 days, 30.69; milk, 1 day, 100.3.

Sir Lyons Hengerveid Segis, a son of King Segis and Blanch Lyons DeKoi, 33.31. He is 5 years old, and as half my herd are his daughters, I must sell to avoid in-breeding. He is active and sure, half white; his calves are more white than black. His two nearest dams average 32 1bs.

A. Sherrick

Ringwood, Ontario

the British line, and it is the opinion that it that line on the Western Front is broken it will go a long way too wards victory to the Germans, and if a victory for the Germans come we may just as well recognize the fact that our country is gone, and that, so far as the farmers and farms are concerned, they would be taxed out of cerned, they would be taxed out of

For Nation's Preservation,

"We cannot set away from the very stern crisis and real crisis that con-fronts the British nation, of which

most serious curtailment of farm production by taking away from agriculture a great many young men who have already secured exemption, and who are vitally necessary to maintain production.

"We, therefore, the Brant County Board of Agriculture, hereby request that the Government leave this help upon the farms until steps have been taken to replace it with labor from the cities, in order that the plans ab ready made for production may be peady made for production may be carried out. Realizing the serious ness of the situation, we are prepared to accept the Government's decision to take drastic measures, but we think it will be disastrous to take more help from the farms, particularby at this season of the year, until it can be replaced; and we suggest that extra help might be got in the follow-

ing ways:"I. By securing the release of ex"I. By securing the release of experienced farm labor from shops and

"2. By replacing male with female labor where possible, so that further man labor may be available for pro-

"3. By closing up or restricting un-easential industries, reducing adve-tising, canvassing agents, etc., so that more labor may be available for the important industries."—A. W. Pais, Sect'y.



#### BRUCE'S HIGH GRADE SEED CORN

Our samples of Seed Corn will be good and of high germins send in your order new and we will ship a bout the 20th of a prid doubt if we can get any Films or earn early Deats. We offer, su to being unsold, prices here, cash with order:

CORN sproved Lea ming, Bruce's \$ 5 00 old's Dent 5 00 oreks White 5 00 ming, lected Giant Red Cob. 4 25 lected Mammoth White 6 25 GRASS SEEDS Bushel, 48 lbs. imothy Regal, No. 2 G. 8. 8 6 80 do Hz. Choice No. 2 G. 8. 6, 00 do Choice No. 2 G. 8. . 5 80 do Prime, No. 8 G. 8. . 5 80 do and Aisige, No. 8 G. 8. 5 80

CLOVER SEEDS. Bushel 60 lbe 

JOHN A. BRUCE & CO., Limited HAMILTON SHED MEDILAND ONTARIO TA

Large Cows, Lacords, High To Bulls and Bull of for sale.

WOMBDISSE BAST.

lect

i to

off

nty



#### FOR SALE

Jersey cattle, bred in the purple. Over 100 Jerseys from which to choose. Imported and Canadian bred Clydesdales. Also, two large farms with modern buildings.

BALDWINS' REGISTERED COATICOOK, QUEBEC

FOR MILK, BUTTER, CHEESE, YEAL Robsten cows stand supreme. If you try just one animal you will very soon want more. Write the HOLSTEIN FRIESIAN ASSOCIA-TION.

W. A. CLEMONS, Sec.,

### CURDALAC AND SPONGY PEPSIN

(STANDARDIZED)

The First and Original Peptic Coagu-

Not an experiment. Time-tried and a demonstrated suc-cess in the manufacture of Canadian

#### START-O-LAC

(LACTIC-ACID CULTURE)

A pure culture of selected and tested lactic-acid-producing bacteria for ripen-ing milk and cream, and improving the quality and flavor of cheese, cot-tage cheese, butter and buttermilk.

#### **GERMTOX**

(NOT A POISON)

A scientifically prepared Germicide, Disinfectant and Deodorant. The ideal sterilizer for all dairy + + +

The above products are sold by all dealers in dairy supplies.

Write to us for descriptive booklets and any other desired information

PARKE, DAVIS & CO.

WALKERVILLE, ONT. MONTREAL, QUE.



#### **TANGLEWYLD AYRSHIRES**

The Leading R. O. P. Herd Large Cows, Large Teats, Large Re-cords, High Testers. Choice Young Bulls and Bull Calves and a few Cows for sale.

WOODDISSE BEST., B. R. NO. 1, MODREFIELD, SNT.

SEMI-OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS FROM
MAR, TO 31.
MAR, TO 31.
MAR, TO 31.
AATHALAEE Clothlide Perfection,
14873, 1391, 17448 bis milk, 576 bis.
May Belle Mechthid, Colony Farm.
2. May Belle Mechthid, Colony Farm.
16486 bis. milk, 569 bis. for, 711,25 bis.
Define Crace, Bright, 1515 bis.
Mar. Stein Colony, 1516, 1516, 1516
Mar. Stein Colony, 1516, 1516
Mar. Stein Colony, 1516
Mar. Stein Colony,

Hill.
6. Elmwood DeKol, 14398, 6y.; 11570
lbs. milk, 440 fbs. fat, 559,00 lbs. butter.
Jebn Henning, Nanticoke.
7. Laddy Patricia Korndyke, 18411, 5y.;
19387 lbs. milk, 449 lbs. fat, 510,09 lbs.
butter. Wellington Sager & Son, St
George.

George.

Three Year Class.

1. Calamity Snow Mechibilde 2nd 28707, 3y. 364d.; 23274 lbs. milk, 843 lbs at, 1053.75 lbs. butter. Wakburn Rivers

Insersoll.

2. Colony Fayne Cansuy, 30128, 39, 244, 11850 lbs. milk, 464 lbs. fat, 580.00 lbs. butter. Colony Farm.

3. Segis Walker Counties, 28737, 39, 2144, 11573 lbs. milk, 365 lbs. fat, 485 lbs. butter, J. A. Sayward. Royal Oak, B. C. Line, M. C. Line,

B. C. 4. Ridley Alice Pietertje DeKol, 27528, 29, 81d.; 17548 bb. milk, 256 bb. fat. Cathartnes. Two Year Class.

1. Highlawn Helen. 15:85, 29, 213d.; 13:10. Bb. milk, 548 bb. fat. 65:50 bb. fat. Cathartnes. W. D. Falmer, St. Sebastien. Oue.

1811 108. min. 939 109. 121. Sebastien. Cue
2. Schulling Mercedes Haroness, 5527, 22. 20d.; 12150 10s. milk, 465 lbs. fat., 465 lbs. fat., 565.00 gbs. butter. 3. Favorita 3rd. 4587, 27. 122d.; 11500 lbs. milk, 478 lbs. fat. 565.00 gbs. butter. Stinson Mercer. Rosedule, H. C. 2232, 29. 1564.; 11570 lbs. milk, 478 lbs. fat. 456.35 lbs. butter. Wellington Sagre & Son.
5. Colantha Beauty Abbekerk, 30744. 22, 170d.; 9416 lbs. milk, 324 lbs. fat., 478.15 lbs. butter. Vellington Sagre & Son.

132 1 104; 934 b milk, 234 hb. fil, ringrille.

6 Lois Korndyke Gladk, 2523, ly, 2004; 337 bk. milk, 237 los, fil, 48.76 bb. bit-fill bl. fill bl.

HOLSTEIN NOTES

HOLSTEIN NOTES.

UR representative, while going on the train from one of the sales in Western Ontario, had the privilege of the sales in the sales of the sales o

Are to be a search of the Area of the area of turning out.

AREVIEW NOTES.

A PSW renks are a hefer bred by the Lakeview Parm. at Bronte, the and now owned by Dr. M. A. Handle, and now owned by Dr. M. A. Handle, and now owned by Dr. M. A. Handle, and the area of the are

JERSEY SIRE

Is am now ready to dispess of a young bull from Sadie Miss Polo, record the first Barbard and the Sadie Miss Polo, record the fat in yearing class. Granddam 754 lbs. fat st 2, years old Mac, former Canadian changing and John Polo, whose granddam has a 2-day of the control of

HAGERSVILLE, ONTARIO

THE EDGELEY CHAMPION HERD OF JERSEYS.

Write us about your next herd sire. We now have sons of our present herd sire, before a first the now have sons of our present herd sire. We now have sons of our present herd sire, before a first the first

#### CHOICE YORKSHIRE HOGS AT RIGHT PRICES

Boars' and sows, all ages, from beat prise-winning strains—a few good bred sows, also younger stock. S. C. White Leghorn eggs for hatching—Bar-ron's 235-egg strain. S. S. Brown Leghorns, Barred Rocks, R. I. Refs, \$1 per 16; 319 per 160. Fawn and White I. R. Duck eggs, \$2 per 11. Chinese goose eggs, \$0e eags, \$0e each. T. A. KING

MILTON, ONTARIO.

#### AYRSHIRES

you want Ayrshires of first class quality watch this space in future issues. PALMER BROTHERS NORWICH, ONTARIO

#### PEACH BLOW AYRSHIRES

Young Stock for sale, sirays on hand (both sexes), from high-teating neavy producers. Good udders and large toal a special feature of my herd. Three fine young Sires ready for service. Get particulars of these if you need a sire. R. T. BROWNLEE, Peach Blow Farm, HEMMINGFORD, Que.

# **EDWARDSBURG JUTEN FEED**

23%PROTEIN

#### A \$500 BULL AT A BARGAIN

A rare opportunity has come to Farm and Dairy to offer one of the mast richly brod Holstein bulls in Canada to the first farmer of armers' club that takes advantage of the Canada to the first farmer's While we state in the heading that pull is worth \$500, he actually is worth \$400 to \$1,000, just according to the lend he \$600 at 100. Judge he value for yourself.

#### THE BULL AND HIS BREEDING

HE BULL AND HIS EXELDING
He is 16 months old and well grown, in the pink of condition, and
ready for heavy service. He is seven-sighths white and of show type—
individually an ideal buil.
His sire is Pentiac Korndyke Het Loo 17309, that noted sire who
stands at the head of the Raymondale and Roycroft heads and who is
sands at the head of the Raymondale and Roycroft heads and who is
sands at the head of the Raymondale and Roycroft heads and who is
yet olds with records of over 20 her 3 world's records; also of 3 other
2 yr. olds with records of over 20 her 3 world's records; also of 3 other
2 yr. olds with records of over 20 her 3 world's records; also of 3 other
2 yr. olds with records of over 20 her 3 world's records;
His dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb. cow with a 28.61 lb.
dam is Pletje Korndyke Gueen, a 27.43 lb.
dam is Plet

sons. His dam and sire's dam, one a 4-year-old, average over 20 lbs, and his six nearest dams, all but one under mature are, average 25.46 lbs. With these facts before you, you will see that we are justified in placing the value upon him that we have. The apportunity of securing him sentative, who has had a fact. C. McKillican, our live stock representative, who has had not consider the popular to juspect the best bulls available, and who after seeing lim certiles as to his worth.

#### FARM AND DAIRY'S OFFER

Here is our offer:—
We will send this built to the first person who sends us at least 75 subscriptions by farmers to Farm and Dairy at 31 each, and 3500 in the cash amount to be subscriptions are sent 31 may be deducted from the cash amount to be subscriptions are sent only \$220 in cash need by forwarded. Or we will send the built free for \$23 subscriptions at 1 each, amount to be subscriptions are sent only \$220 in cash need by forwarded. Or we will send the built free for \$23 subscriptions at 11 each, amount of the subscriptions are sent only \$220 in cash need by forwarded. Or we will send the built free for \$23 subscriptions at 31 each, amount who know about the great offer we have here made, and why you want them to subscribe for Farm and Dairy, Canada's only dairy farm who was the subscription of Farm and Dairy, Canada's only dairy farm of the first subscriptions. The subscriptions is a subscription on the subscription of the subscription in the subscription of the subscription is wearable review at least 75 subscriptions.

#### THINK IT OVER

This is a chance that doesn't come along every day, so get busy and secure him for the coming season. If you don't feel like undertaking it alone talk it over with your neighbor. You may have been (tinking of getting a real bull for some time. When will you get a better chance?

H. BRONSON COWAN, MANAGING DIRECTOR.

The Rural Publishing Co., Ltd., Peterboro, Ont.

combined with the World's greatest milk and butter records, makes Pre-miser Lepona Dekkel, No. 33899, who was born Dec. 31, 1917, one off the greatest bargains of the year. I guarantse him nevery way. Our herd greatest bargains of the year. I guarantse him nevery way. Our herd with the presence of the presence of the presence of the presence write at once for an extended pedigreating a heatily calf. Don't delay, write at once for an extended pedigreating a heatily calf. By a brother to the dam average 31.01 has butter with 673.3 he. milk. By a brother to the dam average 31.01 has butter with 673.3 he. milk. By a brother to the 4.44 lbs., and Mafalle Segis Kerndyke. 4.53 he. Farcher Farm Maxis, 4.44 lbs., and Mafalle Segis Kerndyke. 4.53 he. Farcher Farm Maxis, with a record of 412 has of milk, with 143.2 he. of butter best day's milk with a record of 412 has of milk, with 143.2 he. of butter best day's milk with a record of 412 has of milk, with 143.2 he. of butter best day's milk freshening. One daughter milked on ordical total as 2 of 7, 174 hbs.

COME AND SEE HIM

W. G. Bailey, Oak Park Stock Farm, Paris, Ont.

CHOICE BULLS READY FOR SERVICE

By a son of MAY ECHO SYLVIA. His two nearest dams (both Canadian champions), average \$5.62 lbs. butter in seven days. Price \$1,000.

\$1,000.

By a son of MAY ECHO SYLVIA. His two nearest dams (one a four-year-old), average \$4.17 lbs. butter in seven days. Price \$600. Some extra choice young bull calves from \$330 to \$1,000. We have thirty-five bulls this winter. R. W. E. BURNABY, Highland Lake Farms (Form at Stop 65 Young Street Radial) Jefferson Ont:

- HOLSTEINS .

One 2-year-old buil; 1 bull 18 months, out of a 231/2-lb. 3-year-old dam; 1 buil 13 months; others younger.

R. M. Holtby

R.R. No. 4

Port Perry, Oat

SIRE—Francy 3rd's Hartog 2nd, whose two nearest dams average 31.87 ibs. butter in 7 days, and 162 7bs. milk in 1 day. DaM—Minin Paladin Wayne at 3 years old. P. 8M1TH, R. R. No. 3, Statelord, Ontarior, State of Description and Price.

offers a bull bargain, born June Brith, 1917, nicely marked, straight and ready for light service. Dam make 15.45 lbs. butter at 25 months, a good prospect for a large record at next freshenies. The photo and price. We have also a few from \$ to 5 months old. P. S. ARBOGAST, R. 2, Mitchell, Ontaric; Schringwille Station.

KORNGOLD FARM

Korngold Emerson Burks, No. 1235, a son of a 31-lb. dam, well grown, ready for service, and a good individual. Write for Extended Pedigree and Price.

F. J. McCALPINE

R. R. No. 1

BLOOMFIELD, ONT.

are at present offering a few young bulls of service age and from R.O.P. dams.

Also a few females, from eight to fourteen menths old.

D. DUNCAN & SON,

R. R. N. S.,

R. R. N. S.,

R. TODMORDEN, ONTARIO.

#### STOP! LOOK! LISTEN!

What DUTCHLAND COLANTILA SIR MONA'S DAUGHTERS are doine adapted to the colant data. \$67.5 Ss. milk, \$4.66 lbs. butter. Canadian Champion S. Dutchiand Artis, \$67.5 Ss. milk, \$4.66 lbs. butter. Canadian Champion S. Milk, \$4.75 lbs. butter; Canadian Champion and world's Rose, 10 Ss. milk, \$4.71 lbs. butter; Canadian Champion and world's mostly white, of servicesbies oid. We are offering for ask as who built mostly white, of servicesbies oid. We are offering for ask as who built wise Learnange, 741.3 lbs. milk, \$3.60 services bound built by same size.

Major E. F. Osler, Prop., T. A. Dawson, Mgr. Lakeview Farms, Bronte, Ont.

#### **-LAKEVIEW CALAMITY RATTLER-**

is sire of every female at "Sunnybrae", over one year. His sire has 29 tested daughters up to 38.06 butter, 735.1 milk in 7 days. His dam has one daughter a past champion; she a daughter, World's Champion two-year-old, 31.71 butter, 510.6 milk in 7 days, test 4.97% fat.

We have for sale two very choice light colored bull calves, 1 and 3 months old. Will double in value when dams are tested. Their sire carries champion blood also.

L. Rogers, "Sunnybrae" Manvers Sta., Ont.

SUNNYBROOK NOTES.

WHEN PARM and Dairy's representative called recently at Sunnyarook
Live called recently at Sunnyarook
Parma, Righton, he found the
Hotsteins in Al condition. Mr. Kiegour
of stoff which he has gathered together
in a short while.
He has at present the noted bulk King
He has at present the noted bulk King
Thead now bred to him. Mr. Kilgour
has been doing some textifing and has now
Lady links Misedius ho has a together
of 39.4 lbs. in 7 days, and at the time
of our visit had a 2 yr. old daughter runthat they expect to do even better than
her present record is Coral DeKol Ind.
Like bla. She has a two year and year.
Lillian Harlem is 18.75 lb. 2 yr. old,
who gives promise of even better work.
Basides these they have a fine lot of
various ages which they are counting on
having tested as soon as they freshen
At the time of our visit they had still they had

again.

At the time of our visit they had still a few choice young bulls ranging in age from a year to a few months. These are being sold, but there are still one or two left for some fortunate buyer.

HOLSTEINS AT UNIONVILLE.

HILE in Toronto recently, Parm and Dairy's representative took opportunity to run out to Unionthe opportunity of the properture of the propert

Champion, its structure of the fe-males which he has now on hand are religible for the fermal of the fe-males which he has now on hand are roligible for the fermal of the fermal with a 25-lb. deem, and a 22.68 lb. jr. 3 which Mr. Billiott is justify proud is a daughter of Calamity Johanna Nig and

A CORRECTION

Through a printer's error in our Issue of last week the date of the York Co. Breeders' sale at Richmond Hill, was given as Wednesday, May I. This should have been May 15. Breeders will please note this correction and look up the ad in this week's issue.

King Fayne Segis Clothilde. Another is Lula Queen 3rd, 26.46, from a 28.53 lb. dam; Cassie DeKoi Hengerveld, 25.30 lb., and Carmen Syivia 4th DeKoi, 25.52, from a 25.43 dam.

#### CANBORO HOLSTEINS.

CANBORO HOLSTEINS.

UR representative recently paid a visit to the farm of J. R. Moote, of bunch of Holsteins. He is particularly careful in regard to the selection of his hold seas. The one he is now using came to the selection of his hold seas. The one he is now using came of the selection of his hold seas. The one he is now using came of the selection of his hold seas. The season of Horsewells. His dam is Johanna Neth-reland Beat, who seld for 1600 at the reland Beat, who seld for 1600 at the reland 1600 at the reland

#### THE ORMSTOWN SHOW.

THE ORMSTOWN SHOW.

THE Ninth Annual Ormstown Spring Show, under the auspices of the Lave Stock Breeders' Association of the district of Beauharmoli, will be held show is open to all the Thinterier. The how is open to all the Thinterier cada and Franklin and St. Lawrence Counties, New York. This spring fair is new recentiled as one of Canada's leading the Countier of the Theory of the Canada's leading the Counties of the Thinteries of the Canada's leading the Canada accommodation is being provided for the expected increase in entries. For other canada accommodation is being provided for the expected increase in entries. For other canada accommodation is being provided for the expected increase in entries. For other canada accommodation is being provided for the expected increase in entries.

### Cutter's

Germ Free

# Blackleg Filtrate

# Blackleg Tissue

The New, Safe and Efficient Agents for Protecting Calves from Blackleg.

Cutter's Blackleg Filtrate post-tively protects against Black-leg.

Cutter's Bischieg Aggressin, made directly from animal tis-sues, afferds even greater pre-tection and is recommended for Pure Breds.

for Pure Breds.

Neither the Filtrate nor the Aggressin can possibly produce
Blackleg in even the most susceptible animals since both
exceptible animals since both
beth have given 100% protection
who have given the dependent of the progressian production of the protection
who have given the dependent of the protection
who have given the dependent of the protection of the protection

wherever used.

Prices.

10 dose pigg. Filtrate....82.00

10 dose pigg. Tissue AF.

11 dose pigg. Tissue AF.

12 dose pigg. Tissue AF.

13 dose pigg. Tissue AF.

14 dose pigg. Tissue AF.

15 dose pigg. Tissue AF.

16 dose pigg. Tissue AF.

16 dose pigg. Tissue AF.

16 dose pigg. Tissue AF.

17 dose pigg. Tissue AF.

18 dose pigg. Tissue AF.

19 dose pigg. Tissue AF.

10 dose pigg. Tissue AF.

11 dose pigg. Tissue AF.

11 dose pigg. Tissue AF.

12 dose pigg. Tissue AF.

12 dose pigg. Tissue AF.

13 dose pigg. Tissue AF.

14 dose pigg. Tissue AF.

14 dose pigg. Tissue AF.

15 dose pigg. Tissue AF.

16 dose pigg. Tissue AF.

16 dose pigg. Tissue AF.

17 dose pigg. Tissue AF.

18 dose pigg

Write for booklet telling what germ free vaccines are and wherein "celtural product" Ar-gressins differ from Cutier's Aggressin made from animal tissues.

While these new "germ free vac-cines" have advantages that should be known to svery stockraiser, we see no reason for a quick change to them by stockraisers who have had satisfactory results from the use of

#### CUTTER'S BLACKLEG PILLS

"California's Favorite" for nearly 20 years

Year in and Year Out they have given better satisfaction than any other vaccine made, and as far as price and conven-ience of administration ar-concerned, they have all the advantage.

Pricest
10 dose pkge. Single pills \$1.00 to dose page. Double Pills 1.50
10 dose page. Double Pills 1.50
Cutter's Pill Injector. 1.50
Imaist on Cutter products. If unobtainable, order disect. We
pay shipping charges.

The Cutter Laboratory, Berkeley, Calif. "The Laboratory That Knows How"

The Cutter Laboratory of Illinois, Chicago Eastern Agent

#### TYPEWRITTEN PEDIGREES

with records up to date. \$1.00 a piece, including 2 extra carbon copies. Ten or more pedigrees in one order for catalogue work, including one copy only of each. 75c

a piece.

Catalogues
\$3.00 per page, complete, including making out of pedigrees.

Orders should be sent in early.

The Canadian Holstein Sales Co., Simcoe Ont. Bell Phone 130.

MAR

May 2, 1918.

T ORONTO, Apr o OEONTO, App is now on farmers are at there is a c produce man-neral throughou in Quebec an cits are for a g arre grains with ring wheat. A the spring whe land where fa ather of the pen more favorail of the season, are hers had plann

in the season, as well as the season, as well as a season when the season with the season when the season with the season when the season with the season when the season when

There is little at country or terms are one on the state of the state WH have helped the f per cent. crop may seven-eighths of 41 ago, seemed dead. Manitoba wheat-lam, nominal (incl 1 Northern, \$2.21 \text{2.10\frac{1}{2}}; No. 3 Nor wheat, \$2.10\frac{1}{2}, \text{crop}, No. 2, \$2.22, \text{crop}, No. 2, \$2.22, \text{cas}

Millfeeds are still Toronto quotes car real freights, bags ton, \$35.40; shorts quotations, bran, \$' middlings, \$48 to \$56 HAY AND Hay is quoted in \$18 for No. 1, with

on track; straw, co POTATOES A

POTATOES .

Potatoes for or purposes are in large as 31 per bag has load lots at country. The demand for see the demand for see the demand for see the demand for see the demand for the pure selected seed, campaign of the least campaign of the least large proportion. A large proportion a large proportion the seat. Irish Co the seat of the seat of the seat of the seat. Irish Co the seat of the s

#### MARKET REVIEW AND FORECAST

TORONTO. Apr. 22.—The apring frive to more framers are so busy on the land that have it as corresponding quietness and the sound of the more framers are so busy on the land that have it as corresponding quietness are so appeared throughout Ontario und it is now not be a sound on the sound of the soring wheat crop will be seeded against the soring wheat crop will be seeded against the soring wheat crop will be seeded against the soring wheat crop will be seeded as the soring wheat crop in the past week or two has been more favorshie to fall wheat than the dry washer that prevailed earlier sweeters had planned to plow up now premise a bo or 00 per cent. crop. At 1918 must be recorded as a failure in Outario. In the Canadian West soil could be seen that the seed of the seen confidently applied to the seen confidently applied to the seen confidently and the seen confidently and the seen confidently and the seen confidently and the seen favorshie to a revival of fall wheat and to the seeding of the big result of the seen favorshie to a revival of fall wheat and to the seeding of the big result of the seen appointed to work out the question of a relative price for condensed milk has not been appointed to work out the question of setting prices that will prevent unified to control of the control of the commission might as the price of butter this year has not yet been acted upon, and the members of the Commission of setting prices that will prevent unified to the commission milk has not been appointed to work out the question of setting prices that will prevent unified to the commission milk has not been appointed to work out the question of setting prices that will prevent unified to the commission milk has not been appointed the work out the control of the setting and the commission milk has not been appointed to work o

WHEAT.

sider auch a move.

Three is little wheat offering, either a small product. Farman is little wheat offering, either a small product. Farman is little wheat of the little wheat of the little wheat is no liousitive to make a special way of the land of the farmers' granaries. No action had it histories by yor this year's wheat cope, and any attinuisting effect that the new price might have had on wheat have helped the fall wheat, and rains per cent. crop may be harvested where seven-sighths of 4t, a couple of weeks even-sighths of 4t, a couple of weeks wheat—in montain (including 2)s taxi: No. 125%; No. 3 Northern No. 1 Northern 125%; No. 3 Northern No. 1 Northern Wenez, 25.19%. Ontario wheat—cop. No. 7, 42.38, basis in store, Montace.

COARSE GRAINS.

real.

COARSE GRAINS.

Two factors explain the quisteness of the grain of the first place, higher prices are being realized on local trade; and in the second place, the hand-to-mouth buying which place the hand-to-mouth buying which the market. Some barley is moving, the market is some barley in the property of the property of the property of the property of the manufacture of 'president bread," the price on this grain has advanced to \$2.65. Toronto grain the market price of the property of the manufacture of 'president bread," the price on this grain has advanced to \$2.65. Toronto grain has advanced to \$2.65. Toronto grain for the manufacture of 'president bread," the price on this grain has advanced to \$2.65. Toronto grain for the manufacture of 'president bread," the price of the manufacture of 'president bread, "the price of the manufacture of 'president bread," the price of the manufacture of 'president bread, "the price of the manufacture of 'president bread," the price of the manufacture of 'president bread, "the price of the manufacture of 'president bread," the manufacture of 'president bread, "the price of the manufacture of 'president bread," the manufacture of 'president bread, "the price of the manufacture of 'president bread," the president bread of the manufacture of 'president bread, "the price of the president bread," the president bread, "the president bread, "the president bread," the president bread, "the president bread, "the president bread, "the president bread," the president bread, "the president bre

white, 41.

Millfeeds are still as scarce as ever.
Toronto quotes car lots delivered, Montreal freights, bags included: bran. per
ton, \$33.40; shorts, \$40.40. Montreal
quotations. bran, \$33.40; shorts, \$40.40;
"additing, \$48 to \$50; moullie, \$75.

HAY AND STRAW. Hay is quoted in Toronto at \$17 to \$18 for No. 1, with mixed, \$14 to \$18 on track; straw, car lots, \$8.50 to \$3; Montreal quotes No. 2 hay, car lots, \$17. POTATOES AND BEANS.

Detaction for ordinary and the second of the

Very few Ontario beans are coming forward, and stocks are light. Mont-real quotes hand-picket withe beans, 38.75 to 39, and other guades, 38.25 to 38.50. Toronto quotes Canadian prime, 37.50 to 39; foreign hand-picked, \$8.75 to 37.

EGGS AND POULTRY.

Grant State of the state of the

Chickens a Live weight. Dressed. Chickens a Live weight. Chickens a Live we

DAIRY PRODUCE.

DAIRY PRODUCE.

No radical chasage in the butter marjet, one way or the other, is expected
strong all over the continent. The daily
strong all over the continent are quoting
daily prints, 30 to 380. As a matter of
fact, dairy butter is selling higher than
there is a local outlet for the where
there is a local outlet for the white
many properties of finest creamery
boutter in the country purchased at 450
butter in the butter in the butter in the country
butter in the butter in the butter in the country
butter in the butter in th

Stirling, Ont., April 25.—240 boxes sold at 21 11-16 cents.

LIVE STOCK.

Though the offerings of cattle on the market such the past week were by no means large the past week were by no means large to the past week were by no means large to the past large to the pas

Heavy steers, choice ..\$ 13.75 to \$ 15.00

Heavy steers, choice \$ 13.75 to \$ 10.50 to \$

Milkers and springers. 7.00 to 7.75
choice of com. to medium 65.70 to 50.00
do com. to medium 65.70 to 50.00
do medium 12.10 to 12.75
do medium 12.10 to 12.75
Heavy fat 5.00 to 10.50
Lambs, choice 12.50 to 12.75
Shrep, choice handy 12.50 to 12.35
do for com. 12.50 to 12.35
leas 510 to 12.30 n Mg/th to this house
leas 510 to 13 on heaview of son stage;

## York County Holsteins

In Their Annual "Quality" Sale at RICHMOND HILL FAIR BUILDINGS Wednesday, May 15th, 1918

> 60 HEAD



Nearly all females fresh or due to freshen soon. A number of choice young helfers. A few buils of excellent quality. Here is no service to the service of the service of the service of the service of the world's record cow, May Beho Strokers and grandsons of the world's record cow, May Beho Strokers and grandsons of the world's record cow, May Beho Strokers of the service of the

Sale Committee: R. W. E. BURNABY R. F. HICKS W. F. ELLIOTT.

SEND FOR CATALOGUE TO R. W. E. BURNABY. Jefferson, Ont.

#### SUNNYBROOK FARM HOLSTEINS

Jos. Kilgour -

Eglinton P.O.

- North Toronto

SEBRINGVILLE, ONT.

#### 

We have for sale the best lot of bull calves that we have ever been able to offer from dame with records up to \$8.78; many of them good prospects for \$18s. Also one bull ready for service from a \$1-8s. We note that the prospects of the property of the pr ARBOGAST BROTHERS

#### A RARE BARGAIN

Registered Holstein buil, yearling, sired by a half brother of Toitilla of Riverside, 24094 bs. milk. 1657 bs. butter in one year. Record of sire's dam's milk 584, butter 22.42. Dam's record milk 479, butter 33.42. Straight and well grown. Price \$100. Write, phone, or come.

LANINGDALE STOCK FARM

VILLA NOVA, ONT.

#### SUNNYSIDE STOCK FARM HOLSTEINS-

ECHO SEGIS PAYNE, our herd sire, is by a brother of the world's 50-ib.

cow. Segis Payns Johanna. He is a grand buil in every way, and is not yet
from one month to seventeer monthid used him at a price. Also have buils
and out of grand producing cows. If you need a weil backed buil, write or
come and see them.

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

#### ELMCREST STOCK FARM=

Offers for Sale

No. 1.—Bull, 1 month old—Dam Ganos Bessile Faforit, 3410—record at 216 years, 487 lbs. milk, 27.68 lbs. butter. She is a daughter of the beauthful Rosile Posch, grand champion at Geolpf Dairy Test, 1918. Sire—a son of a 30.78-lb. daughter of a 37.68-lb. cow.

Also a few fresh correcteducers with world's record breeding. Prices with record breeding. W. H. CHERRY

HAGERSVILLE, ONT.

#### **AVONDALE FARM OFFERS**

1. A choice young bull, born Nov. 2. 1517, sired by "Woodcrest Sir Cydes." Dam, 2. 31-b, daughter of "Prince Hengerveld Pietle"; 2nd dam, 27.53-b.
2. who a grand young bull, born Oct. 6, 1517, light in color, sired with the color, sired with the color of the William of the Color of the Colo H. LYNN,

Avondale Farm,

Brockville, Ont.

# Market Your Wool This Year Co-operatively

# What co-operation is doing to raise prices and stabilize the market in Ontario

LAST YEAR-

About 300,000 pounds of wool were sold cooperatively in June at Guelph at new, high record prices for Ontario. Before the sale wool was ranging anywhere from 5c to 20c per pound less than the average Guelph price. The very fact that a cooperative sale was in prospect, of course, tended to stiffen the market prices. It is safe and fair to say that the sale influenced the wool prices at least 10c per pound in favor of the Ontario wool grower, who sold through the Ontario Sheep Breeders' Association. That means \$30,000 more cash on the 300,000 pounds.

And that isn't all—as soon as the cooperative sale took place it fixed new high prices from which every grower benefitted. Ontario wool growers who sold their clip independently, after July, certainly got a higher price than they would if there had been no sale—at least 10c per pound more. On a total of say, another 300,000 pounds of wool, that means extra cash amounting to another \$30,000.

If enriching the wool growers of Ontario in one season to the tune of \$60,000 isn't evidence of the value of cooperative wool selling then what could be?

Ontario Wool Growers—to a man, you are invited to send your wool to Guelph for cooperative sale this year. If every one will get behind this movement it will simplify and encourage wool buying and put every one of you in touch with your final customer—and you know that always means more profits for you.

#### THIS YEAR-

With the experience of last year behind us we believe the farmers are justified in selling their wool cooperatively through the Ontario Sheep Breeders' Association.

All Provincial wool growers associations are now united, forming the Canadian Cooperative Wool Growers', Limited. This company will sell wool direct to the manufacturers thus bringing the farmer in direct touch with his final customer without the intervention of several middlemen—who, of course, must always have their profits.

If the bulk of the wool in Ontario is marketed in this way there is an added inducement for buyers to bid on Ontario wool.

The method of preparing the wool for market by using paper twine in jute sacks ensures to the manufacturer a product put up in the best possible condition.

The fact that the wool is graded gives the buyer full information as to the product offered; he knows exactly what he is getting and is willing to pay full value for it.

By making application, the farmer can get full supplies and he can ship his wool without pre-paying the freight. As soon as the wool is received in Guelph it will be weighed and an advance payment of about 75 per cent. of the estimated value will be sent at once and the balance after the sale of the wool.

Application form and full information, also twine and sakes will be furnished by your district representative or by the Secretary of the Ontario Sheep Breeders' Association, R. W. Wade, Parliament Buildings, Toronto, Ontario.

#### SOME POINTERS TO BE OBSERVED WHEN SHIPPING WOOL TO THE ONTARIO SHEEP BREEDERS' ASSOCIATION.

The fleece should be placed with the elipped surface down. Then fold in the sides and roll from each end to the centre, after having carefully removed the dung locks, and then tie with paper wool twine. Never tie the fleece with sisal or ordinary binder twine, and avoid tying with neck portion. The dung locks should be placed in a separate sack from the fleeces.

The fleeces should then be packed in wool sacks, or in case of small shipments of 15 fleeces or less use ordinary jute bran sacks being certain the inside surface is clean.

The wool will be graded by wool experts of the Live Stock Branch, Ottawa, and will be sold through the medium of the Canadian Cooperative Wool Growers, Limited, which insures all profits to you.

A CHEQUE REPRESENTING AN ADVANCE OF ABOUT 75 PER CENT. OF THE APPRAISED MARKET VALUE OF THE WOOL WILL BE SENT IMMEDIATELY UPOR RECEIPT OF THE WOOL. THE REMAINDER WILL BE SENT UPON COMPLETION OF THE SALE.

The Canadian Cooperative Wool Growers, Limited, in selling the wool will charge only actual operating expenses.

For your information, the following are the directors of the Ontario Sheep Breeders' Association:—J. D. Brien, Ridgetown; James Douglas, Caledonia; E. Robson, Denfield; J. E. Cousins, Harriston; W. H. Beattie, Wilton Grove; Cecil Stobbs, Leamington; George L. Telfer, Paris; James Bowman, Quelph; H. M. Lee, Highgate; W. Whitelaw, Guelph; J. W. Springstead, Abingdon. The officers are:—President, James Douglas, Caledonia; Vice-President, George L. Telfer, Paris; Secretary, R. W. Wade, Parliament Buildings, Toronto.

### THE ONTARIO DEPARTMENT OF AGRICULTURE

Parliament Buildings, Toronto

SIR WM. H. HEARST, Minister of Agriculture.

DR. G. C. CREELMAN, Commissioner of Agriculture.

