FARM AND DAIRY RURAL HOME



BETTER FARILING

Toronto, Ont., November 29, 1917





THE HERD AND BUILDINGS ON A NEW YORK STATE DAIRY FARM.



SYDNEY BASIC SLAG Our Last Word for This Season

We do not expect to be able to secure transportation after the end of December. If, therefore, you have been thinking of arranging for supplies of our fertilizer for Spring use it is easential that you do so right away. If we are not represented in your district we will supply your requirements in ton lots and upwards at \$22 per ton, freight paid to your nearest station. Or better still, why not take a car of 20 tons and distribute same among your neighbors. You will be reasonably remunerated for your rouble. If this proposition appeals to you write us imneighbors. You will be reasonably remunerated for your trouble. If this proposition appeals to you write us im-mediately and our man will give you a call. There is no time to be lost.

TO THOSE ATTENDING THE WINTER FAIR, GUELPH, NOV. 30th to DEC. 6th.

Our representative, Mr. A. L. SMITH, will be there to meet you. Call at our stand and make arrangements for your Spring requirements. It will be your last opportunity

The Cross Fertilizer Co., Limited Sydney, Nova Scotia

Current Comments on the Farming Business

The Crops of America

FFICIAL crop reporters, it now seems, were unduly optimistic all through the season of 1917 when estimating the extent and value of America's crops. Bumper yields were generally predicted for both the United States and Canada and the immediate result of these predictions was that consumers began to demand lower prices when the first of the new crops came on the market. Official crop propures could not foresee that droubt was going to reduce the wheat crop over these prices when the first of the new crops came on the market. Official crop propures could not foresee that droubt was going to reduce the wheat crop over these part of Americe, that early frosts were going to play havoc with the corn crop and that thousands of acres of rotatoes would be frozen in the ground. Judging from reports from other than official circles, it now seems that the not result of this season's work, taking America as a whole, will be a shortage in farm products, almost as great as last year in many lines, and if supply and demand continue to rule the market, farm produce prices will be firm and high.

And what are the prospects for next year? Indications at present are that there will be a reduced acreage and only a wonderful growing season all over America, with abundant crops everywhere, can bring the total crop up to the standard of this year. America (for Canada and the United Sitates are a unit in the production of food for the Allies), has the acres and the equigarent to produce great crops in 1918, but labor is analy lacking. The millitary draft in both Canada and the United Sitates is sagravating a labor situation that was already intolerable. If next year's crops are to be affectanted, we would suggrest that the Departments of Agriculture take action to acquaint the military tribunals with the shabor crustons at exists in rural districts, that they may govern ments of Agriculture tase action to acquaint the introductions of the labor situation as it exists in rural districts, that they may govern themselves accordingly. The farmers of Canada have done much during the past year to increase production and that against difficulties and discouragements that might well have disheartened them. They are willing to do more, but one thing they cannot do and that is fight in the trenches and produce grain at one and the same time, though judging from the "exemptions refused," that is evidently what some tribunals expect of

When Renting a Farm

HE Country Gentleman" asks, "What banker would allow a patron the use of \$15,000 to \$50,000 of capital without some kind of paper to bind and make responsible the user of the capital? What merchant would lease his business to another person without some kind of paper that would make the lessee responsible?" Then our contemporary adds this comment:

"Yet it is common in the farming business for the owner of a farm Tet it is common in the tarming outsiness for the owner of a farm to place in the hands of a man, oftentlines nearly a stranger, for his keeping and management, property, both real and personal, to the value of \$15,000 to \$60,000, without even a scrap of paper to blid the lesses to the responsibility which he assumes. Aside from the fact that a written contract makes the tenant more responsible than an oral contract, is places on record all the understandings and agreements entered into at the time the farm was rented."

"The Country Gentleman" speaks for conditions to the south of the line, but we know of many Canadian landlords and tenants who are guilty of similar carelessness. We have known of many cases where the owners of farms and tenants who work their farms, were without any written agreement whatever. Such an understanding, or rather lack of understanding, is always accompanied by disagreements between the two contracting parties, disappointments for both, and sometimes the result is a feut that does not die out for many years. Written agreements are as necessary in the renting of a farm as in the consummation of a million dollar partnership, and both tenant and landlord should insist on a black and white statement of their various responsibilities.

Activities of the Food Controller

F OOD CONTINULER HANNA has been granted new and wider powers. He may now prohibit manufacturers, wholesale dealers, commission merchants, brokers, retailers and so forth, from dealing commission merchants, brokers, retailers and so forth, from dealing in any or all food commodities, except under license from his office. He may prescribe the manner in which food products may be designated, marked, branded or graded, and the maximum amount of any food or food product that may from time to time be bought or sold. Also he has the power to prescribe maximum profits and maximum prices on any food product. It seems that as yet Food Controller Hanna has not been given the right to establish minimum prices. This may be significant in view of the demand, now wide-spread, for a minimum price on live hogs.

A recent order emanating from the Food Controller prohibits the export from Canada to all destinations abroad other than the United Kingdom or British possessions, of foodstuff, feeding stuffs, fats, oils, soap, fertilizers, etc., except under license approved by the Governorincouncil to countries in affiance with the British Empire and having armies in the European field." Certain small exceptions are made in the case of shipments to United States. The question has already been asked as to how far these regulations will affect the export of live hogs and what to the United States and hence the basefoial effect which the guaranteed prices on these products to the south of the border would have on our own market.

The Food Controller is also taking measures to limit the profits on the sale of fruit and vegetables to not more than twelve and one-half

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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 Chatham

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TORONTO, ONT., NOVEMBER 29, 1917

No. 48

What is Wanted --- Food or Fighters?

Cooperation Needed Between Food Controller's Department and Exemption Tribunals

ARMERS throughout Canada are being appealed to but the pealed to by the Food Controller to put forth every effort toward the utmost production of food stuffs on every farm. This appeal is made necessary by the world-wide food shortage. Should Canadian farmers fall down on production, state officials from the Food Controller's Department, famine conditions among the Allies in Europe will result, and compulsory rationing at home will be made necessary.

It is pretty generally admitted by those who are in a position to know conditions that mistakes have been made, even under the voluntary enlistment plan, in taking men away from Canadian farms who are needed there. Many men who are now overseas could have better served their Empire by keeping their farms running to the limit of their productive capacity. It was, in part, to prevent further mistakes of a similar character being made that a selective system of compulsory service was instituted. By this system it was hoped that the men needed in Canada would be left and that the hundred thousand men needed for overseas service would be taken from such branches of industry as could best spare them.

Farmers Not Being Exempted.

In spite of the great need for agricultural production, many military tribunals are refusing to grant exemption to bona fide farmers. Should these farmers not be exempted on appeal, the production of food stuffs in Canada will surely suffer. This situation arises from a lack of appreciation on the part of some tribunal members of the need of food production, and it is a serious one. It is to correct the errors made by such tribunals that the privilege of appeal has been provided. And in considering the cases which may come up for appeal, as well as those coming before the original tribunals, the closest cooperation between the Food Controller's Department and the Military Service Board will be necessary if Canada is to do her best.

In order that the attitude of the Dominion Government and of the Food Controller might be ascertained, the Editor-in-Chief of Farm and Dairy visited Ottawa last week with the object of interviewing Premier Borden and Hon. Mr. Hanna, Food Controller. Unfortunately, Premier Borden, Hon. Mr. Hanna, and Hon. Mr. Crerar, Minister of Agriculture, were out of the city, as was also Hon. Mr. Doherty, Minister of Justice, who has charge of the administration of the Military Service Act. In their absence, one of the chief executive officers of the Food Controller's staff. and Mr. E. L. Newcombe, Deputy Minister of Justice, who is the chairman of the Military Service Council, were interviewed. It was evident that the protests of farmers over the actions of certain of the military tribunals had been making their offect felt at Ottawa.

The representative of Hon. Mr. Hanna did not desire to be quoted by name, but gave the assurance that the Food Controller's Department is alive to the situation. "It is impossible for us," he said, "to do much at this time, as the Act is being administered by another department, over which we have no control, and with which we have no connection. We expect, however, that farmers who feel that their exemptions should be allowed, and who have been refused exemption, will make appeals, and that these appeals will be given every consideration by the Appeal Tribunals. Our department is impressing on the Government the seriousness of the food situation and the necessity of food production being maintained to the limit."

Should Appeal Cases.

Mr. Newcombe, as chairman of the Military Service Council, is probably in closer touch with the administration of the Military Service Act than any other Government official. "I am not surprised," he said, "that there have been numerous complaints over the decisions of certain of the

> Farmers May Appeal A Statement by Sir Robert Border

THE purpose of the Military Service Act is to provide the needed reinforcements by means of a selective draft; and it was the could serve their country more usefully and effectively by continuing in essential work in which they were engaged should continue therein and should be exempt from military service.

The provided of the provided by the Prime Minister is appears that in some instances tribunals

It appears that in some instances tribunals have refused exemption where the circumstances distinctly required that it should be granted; as, for example, cases where exemption has been refused to men long engaged in agricultural production without whose labor such production outlined.

REMEDY OF APPEAL

REMEDY OF APPEAL

(a) In these cases the remedy in yappeal, the processor of the remedy in the province in the province in the province in sufficient, and the appellant need not consider the province is sufficient, and the appellant need not province in the province in the province in the province and p

tribunals. When the Act was drafted, we realized that the decisions of many of the tribunals could not be uniform in every case, inasmuch as we have 1,350 tribunals. Some of these men were certain to lay more importance on certain points of evidence than others, and thus there would be diversity in the decisions of the tribunals. It was for this purpose that we arranged for Appeal Tribunals and for a third appeal where such action seems necessary. We expect farmers, who feel that they should have been granted exemption, to press their claims before the appeal tribunals, where the judges will be men of experience who should be capable of giving them justice. The chances are that if they appeal twice, and their appeals are disallowed in both cases, that there is good reason that their exemptions should not be granted.

Mr. Newcombe was asked what the attitude of the tribunals would likely be in cases where a couple of men might be employed on a farm of 100 to 150 acres, and where the first tribunals insisted on one of these men being sent to the front. He was asked if arrangements could not be made for these young men, where they so desired, to be allowed to work on other farms in the district which were greatly undermanned. He replied that he believed these men would be justified. when making their application for appeal, in pointing out to the appeal tribunals that it is more important that they should be allowed to work on these undermanned farms than it is that they should go to the front. As the proceedings before the tribunals are very informal in character, he felt certain that they would be given every opportunity to lay facts of this nature before the appeal tribunals.

If Over 100,000 Are Raised?

It was pointed out to Mr. Newcombe that the Government desired to raise only 100,000 men, and that it had been estimated that a considerably larger number than 100,000 would be raised by this first draft. In the event of this being proved to be the case, he was asked if farmers' sons might not be left until the last and not included in the first draft. His reply was that this point had not been considered, and was not likely to be considered until it has been found just how many have been raised by the draft. If over 100,000 are raised, then the Government will decide upon some method of dealing with the situation, and this point would then be taken into consideration. In the meantime, however, he did not think there was much possibility of over 100,000 men being

Mr. Newcombe emphasized the point that he thought that the men on the appeal tribunals, who would for the most part be judges, and therefore

(Continued on page 6.)



Jerseys on Rape Pasture at the Medicine Hat Experimental Station in Alberta

High Grain Prices Increase the Value of Manure

How to Handle Manure for Best Results

ANURE is worth more now than ever before. Anything that assists in producing larger yields of grain, has greatly increased in its value with the increase in the price of the various farm products. No thrifty farmer will waste a forkful of manure this year. He will get it all back on the land as quickly as possible and make it assist him in producing larger crops from the amount of land he is able to look after.

The value of manure from different animals varies with its composition. Sleep manure is richest in plant-food elements; hog manure ranks second; horse manure third; and cow manure, fourth. A ton of barnyard manure contains on the average, 10 pounds of nitrogen, 2 pounds of phosphorus, and 8 pounds of potassium, having a plant-food value at present prices of about \$3

The agricultural value of manure is usually greater than the plant-food value. For example the application of 121/2 tons of manure per year for 15 years at the West Virginia Experiment Station gave increased crop yields valued at \$40 per acre per year or \$3.12 per ton for the manure used. During the period of ten years, the Ohio Experiment Station has obtained an increase of crops valued at \$4.69 per ton for the manure used. The application was made at the rate of eight tons of manure per acre, during a five-year rotation of corn, wheat, oats, clover and timothy. Two applications of four tons each were made, one for corn and one for clover. Manure used in connection with continuous grain cropping did not maintain the yields, but when used in connection with crop rotation the yields of all crops were increased.

This high value of manure in the farm practice should make everyone more anxious to conserve such a valuable fertilizer. The best way to make use of manure is to get it on the land as quickly as possible after it has been made. It is not always possible to haul the manure direct to the fields. Ur seasonable weather, a rush season on the farm, or deep snow in the fields may make it inadvisable to spread the manure direct from the stable. If it is not possible to haul the manure out every day some precautions should be taken to conserve its value. Manure is wasted by seepage of liquid manure in the stables, by leeching in the open yard and by heating in loosely formed piles about the barnyard and in the fields.

The waste of liquid manure may be largely prevented by the use of sufficient bedding. In

the case of stabled cattle, some farmers conserve the liquid by manure cisterns. Conserving through hedding and hauling direct to the field is the best plan for the average farmer.

Manure left in the open yard through the summer may lose half its plant-food value due to fermentation and leeching. Rotted manure which has been carefully saved will be richer in plant-food elements, ton for ton than fresh manure. It requires 11/2 to 3 tons of fresh manure to make a ton of rotted manure which means that the organic matter is greatly reduced and the total quantity of plant-food elements is also decreased by fermentation and exposure. Except in special cases and for certain crops or gardening conditions, there is no advantage in rotting the manure, better apply it fresh from the stable before any loss occurs.

Manure losses may be reduced to a minimum first, by hauling it directly to the field with a tight-bottom manure spreader and spreading it thinly and evenly as a surface dressing on grass, clover, alfalfa or small grain fields, or on land which is to be plowed for corn, cotton, or other intertilled crops; second, by keeping the manure compact and moist in stables, sheds, or pits until ready to haul; third, by having tight floors in the stable or feeding pens; fourth, by using plenty of bedding to absorb the liquid manure, or by saving the liquid manure in cisterns built for the purpose; fifth, by the use of preservatives, such as ground limestone, land plaster, ground

phosphate rock, and acid phosphate. These materials not only absorb the liquid manure and take up ammonia, thus acting as a manure preservative but at the same time they reinforce the manure with phosphorus and lime, the very elements required to balance manure and make it a complete fertilizer.

The question is often asked as to whether manure should be spread on the land before plowing or afterwards. There is one danger 'n plowing under a heavy coat of manure, in that the manure tends to break the capillary connection of the soil with the sub-soil. During a dry spell the moisture in the sub-soil cannot be drawn up because of the broken connection and the surface soil burns out. Manure spread on plowed land and worked into the soil by cultivation, gives the best results. Where manure is plowed under, it is better to plow rather shallow, since deeply-buried manure will not decay so rapidly and the seed bed will be too open. A surface dressing of manure has both a plant-food value and a mulching value. It will conserve soil moisture in the summer and in winter will protect the crops which it covers.

For the most efficient handling of manure during labor scarcity the use of a manure spreader is necessary. The manure spreader not only saves labor, but it spreads the manure more evenly than can be done by hand, and usually it is the man with a manure spreader who covers most of his land with manure. In getting such a spreader the man who has a fairly large farm should purchase a three or four-horse machine, rather than a smaller one. Efforts should be made to cut down the man's labor in comparison to that done by the horses whenever an opportunity affords.

Some farmers who use a manure spreader, shelter and run the litter carrier place it und from the standard out to where the manure spreader stands. The manure is therefore dumped directly from the litter carrier into the spreader and as soon as the latter is filled the team is hitched on and the manure is drawn to the field. This makes but one handling of the manure. Where such a system can be carried out, it is an ideal one. But no matter which system may be carried on, everything possible should be done to conserve the fertilizing value of the manure and to use it so as to get the greatest possible results in the way of increased production.

Getting Ready for Winter

Prepare for Greater Efficiency Next Year FTER the "freeze-up" puts an end to plowing, there is usually a period before winter really sets in, during which many improvements might be made about the farm. Farmers should look back over the year's operations and see where they might have saved time, for time is money these days. It is the farmer who is able to make the most efficient use of the labor at his disposal who is able to invest in Victory Ronds

But let us make this more personal. The man who needs to work for efficiency in farming is you! There is too great a tendency to pass over efficiency hints as applying to Jim Jones down the road, who is noted for his shiftlessness. It is not only the "shiftless" farmer who can make use of timely reminders. The best farmer in the country may often see where he can still further improve his methods by "looking around."



Hauling Manure Direct From the Stable to the Fields ideal system for the conservation of the fertilizing value of the manure ation is from a photo, snapped by an editor of Farm and Dairy, on the farm of Gilbert McMillan, Huntingdon Co., Que.

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It frequ escaped 1 from the if not rui There is Perhaps you have two small fields under cultivation that might as well be one. If so, remove the fence dividing them this fall and get some freword from it against the cold winter nights. You will not only get the use of the little strip of and which has so far borne no crop, but you will save much time on the longer furrow made possible. The time wasted in turning about on each side of that fence could well be turned to account in plowing a few extra furrows or in feeding an extra brood sow. It is the man with the big field and the 16-foot harrow that is able to grow grain cheaply.

Before housing the implements for winter, all pollshed parts should be coated thickly with mineral lubricant to prevent rusting. It is not only the machinery that stands out under the pine tree or in the fence corner that rusts. Machinery even under cover may often rust enough in a single winter to greatly impair the efficiency of the machine the next summer. Wooden parts of

machinery will last longer if kept clean. These things should be looked to when the machines are being

put away.

This is the time when the barns and others buildings should be fixed up. All broken lights in the windows of the cow barn or horse stable should be replaced before the cold winter winds get a chance to give your animals colds. Sweep the cobwebs out of the cattle barn and give it a coat of whitewash. If your horse stable is dark, cut a window in it and get a sash with glass in before stormy weather comes.

Plan to do as much work as possible during the winter season which might otherwise be pushed aside until next summer. Winter is the time when all implements should be gone over and repaired. This will do away with tinkering in the rush season next year. By starting in early there will be plenty of time to order repairs necessary, and also time to do a thorough job. Plan to clean your seed grain early. Oil and repair harness and grind all

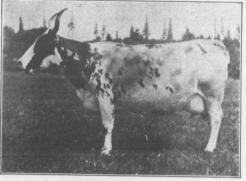
edged tools, including mower, sickles. Sharp edges can be kept on by coating the sickles with oil after grinding. What about a gasoline engine? Would it help you in your work? In making plans for more efficient farming, everything that will cut down labor, without adding too greatly to the cost, should be considered. And the time for beginning improvements is right after plowing is stopped by the frost—S. R. N. H.

Protect Fruit Trees from Mice Methods Used at the Experimental Farms

HE annual loss of fruit trees in Canada from mice is very great. Some years they are much more destructive than in others, while in a certain year they may be very destructive in one part of Canada and do little or no damage in another. The scarcity or abundance of food, the number of mice which are in the vicinity when winter sets in, and the character of the winter, all have an influence on the amount of injury which is done. Where the orchard is in sod or where there is rubbish about in which mice can harbor, the injury to trees, if unprotected, is liable to be much greater than where the orchard has been under clean cultivation or even where a cover crop is sown the previous summer.

It frequently happens that orchards which have escaped much injury from mice for several years from the time of planting, will be badly injured, if not ruined, just when the first crop is expected. There is nothing more discouraging to a farmer or fruit grower than to have an orchard destroyed in this way after he has cared for it for a number of years, and there must be many instances in Canada where farmers, after a loss of this kind, do not re-plant.

Although it is not every year that mice are troublesome, trees should be protected from them every year until about six inches in diameter. and even a tree of this size will sometimes be partly girdled. If the protection is neglected for one year, that may be the year when mice are abundant and much injury will be done. The mice usually are looking for, or feeding on, seeds close to the ground under the snow and when they come to a tree they are likely to begin to gnaw the bark if it is unprotected, and before they have finished the tree may be completely girdled to a height of 12 to 18 inches above the ground, which usually causes its death, although it may remain alive for most of the summer following.



Springhill Miss Wallace, a Coming Ayrshire Producer.

The illustration does not do her justice, as Springhill Miss Wallace is one of promising cows in the herd of Shannon Brox, Cloverdaic, B.C. She was sired by Lessnessock Durward Lely, and is out of Auchenbrain White Rose, a cow sold at the Hunter sale for 1700.

Methods of Protection.

The cheapest and surest method of protecting trees from mice is to wrap ordinary white building paper around the trunk of the tree. The paper is cut into strips which are the length of the breadth of the roll of paper, the width of the strips depending on the size of the tree. The strips should be just wide enough to lap over, as one thickness of paper is all that is necessary. The paper is wrapped tightly around the tree and tied in two places with twine. A little earth is hoed up about the base after the paper is tied. to cover any opening through which the mice might reach the trunk. Several thousand young trees are wrapped each year at the Experimental Farm in this way, and there have been practically no cases where the mice have gnawed through the paper to get at the tree. Tar paper is also effectual, but trees have been injured by using it and it is well to avoid this as building paper will do as well. A small mound of earth from eight to ten inches in height about the lase of the tree will often prevent mice from injuring the trees and even snow tramped about the tree has proved quite effective, but one cannot always depend upon it. Fine wire mesh wrapped around the tree or lapped so that it will expand with the growth of the tree, while more expensive at first, is very durable and will protect the trees well.

Mice may be poisoned by making a mixture of one part by weight of arsenic with three parts of corn meal and patting it in runways made by nailing two pieces of board each five or six feet in length and six inches wide to make an inverted trough, and putting about a tablespoonful of the poison on a shingle near the middle of the amus, renewing the poison from time to time. Poisoning would, however, be found a rather tedious method for a large orchard.

The Business Basis of Dairying It is Good Cows and Good Coops

By E. L. McCaskey.

A S a writer for the agricultural press, I am sometimes criticised by the neighbors who read my letters in Farm and Dairy of telling all about them, but never anything about myself. Perhaps they are right. At any rate there is not a neighbor up and down the concession for several miles who has not figured at some time or other in the letters that I once sent so regularly to Farm and Dairy. The criticism will not apply this time. I am about to impart the greatest

am about to impart the greatest secret I have learned in my 20 or more years of dairy farming. It deals with the business basis of dairying. It is the secret of my success in making a very comfortable living and a competence with 100 acres of only fair land.

For a half dozen or more years. I conducted this farm of mine very much as other farms were conducted in the locality. I grew wheat, grain and hay largely for sale. I hadn't much use for clover in those days. It didn't sell well on the market and we had so little live stock that there was always a large surplus of hay for sale. Timothy was what the livery stables wanted, so that was what we grew. We kept a half dozen cows to eat up unmarketable roughage and give us some winter work. There was not much income from the cows, but such as it was, it was all profit. Then I began to get more interested in cows. My interest dates from the time that I joined one of the first cow-testing associations formed in Canada. I have told before of the results obtained by cow testing

in my herd and I will not enlarge on them here.
Sufficient is it to say that two of the cows produced
as much milk as the other four and the two
were only fair cows.

Improve the Cows But Not the Income.

Then I began to improve. I purchased a purebred sire. I began to feed a little better. We actually bought a little meal for the cows that freshened in the fall. The size of the herd was increased and then things did not go so well. Previously the cows had been eating merely the surplus of the farm crops that could not have been sold on the market. Now, they began to draw on the money crops. We began to feed more of the timothy hay and more of the coarse grains at home. The feed bills, too, were larger and a little figuring showed me that the decreased receipts from the sale of cash crops and the increased feed bills, just about counterbalanced the increased checks from the creamery. We were no further ahead. We were handling more money but no more money stayed with us. The only return that we were getting for extra labor was that the fertility of the soil was improving.

In the meantime, as the dairy herd increased and my interest in dairying along with it, I began to take more notice of what the cows liked and what they did best on. I found that there was always more milk when by chance we happened to have some good clover hay, than when we were feeding timothy. I also noticed that when feeding timothy more grain was needed to keep up the milk flow than when feeding clover. The

(Continued on page 28:)

What is Wanted---Food or Fighters?

(Continued from Page 3).

experienced in weighing evidence, would be capable of dealing satisfactorily with appeals made to them by E. H. Stonehouse interviewed Sir farmers. Our editor pointed out that this was not necessarily the case as some judges know very little about farm conditions, how serious is the food shortage, or how many men are required to work a farm satisfactorily An instance was quoted of a judge who had called a young farmer down because, while applying for exemption, he had said that he had been improv ing his farm. The judge took the ground that he should be ashamed of himself for having done so as his only object was to make money out of the country. It was suggested by our editor that the Government might send further instructions to the Appeal Tribunals urging upon them the import aree of disturbing agriculture ag lit-tle as possible. Mr. Newcombe did not say whether or not this action would be taken, although he noted the point. We feel that farmers will be justified in urging upon the Govern ment the importance of notifying the Appeal Tribunals to this effect.

Hog Production Campaign Suffers.

The action of some of the Military tribunals in indiscriminately removing the young men of military age from the farms, thereby aggravating the farm labor shortage, is militating in many districts against the produc tion campaigns. In those districts where the tribunals have been excep tionally severe in their decisions the men who are attempting to organize farmers for greater hog production find themselves unable to accomplish

"I had another eight-acre field that I intended to plow this fall," said a farmer at a "hog production" meeting held in Middleville, Lanark County recently, "but the exemption claim which I sent in for my boy, the only man on the farm with me, was dis-I will therefore leave this field unplowed. Had my boy been left with me, I could have raised enough feed on this field to have enabled me to assist with this cam-This seems to be the general feeling of farmers in similar circumstances. For several years they have been struggling along with the few laborers they could get hold of in an endeavor to respond to the appeals of the Government for greater produc tion. Now their only help in many cases is being taken, and they are asked at the same time to produce

The meeting at Middleville had an attendance of about 75, representing the best farmers in the township The feeling of the meeting can best be shown by the following resolution which was passed at that time: "We, the assembled farmers of Lanark Township would agree with the pro-position laid before us by Mr. T. A. Poole for increased hog production if we had any reasonable assurance that our help would be left with us, and that we could obtain feed at a reasonable price. Unless such assurance is granted, however, we cannot promise to do anything more than we are doing at the present time."

A similar meeting of farmers was held recently a few miles north of Toronto, which was addressed by Mr. Toronto, which was addressed by Mr. Wade of the Ontario Department of Agriculture. Mr. Wade spoke earnestly in behalf of a greater production of hogs but his remarks were coldy received by the meeting. There were some three hundred farmers present, and these men passed a re solution protesting against the action of certain tribunals in ruthlessly depleting agriculture of its labor and at

E. H. Stonehouse interviewed Sir Robert Borden and laid before him the necessity for guarding the inter-ests of agriculture at this time of food scarcity.

The Situation at Perth.

The action of certain exemption tribunals in the Perth District which have refused exemption to farmers, thereby depleting the land of sorely needed labor, called forth a vigorous protest from the farmers of the district. Five hundred farmers recently paraded under the auspices of the Perth Farmers' Club, and at a or the Perth Farmers Club, and at a mass meeting voiced their disap-proval of the findings of the local tribunals. Mr. T. A. Poole, a well known dairy farmer of the district, who acted as Chairman, stated that the farming community is not getting a square deal. "The help problem on the farms," said Mr. Poole, "has been serious for some time. The present action of the tribunals is make ing this worse." The following peti-tion was wired to the Hon. T. A. Crerar, Migister of Agriculture, "We,

There are indications that if the decisions of the original tribunals are upheld in these appeals that con-siderable land in this district will go out of cultivation next year. another twenty-acre field that I would have plowed this fall," said a farmer of Drummond Township, "but on be ing informed that my only boy had been refused exemption, I hung up my plows. I can't run the farm

Exemptions That Were Disallowed A number of examples of the injudicious decisions of the tribunals in the Perth district were enquired into by the Farm and Dairy representa-tive. A few of these will show that the farmers of this district have a real grievance and that, should the de-cisions of these tribunals stand, food production must suffer

William R. MacDonald, a farmer of Scotch line in Burgess Township, has two farms. The home farm contains one hundred acres, besides which he owns a rough farm of a couple of hundred acres used for wood and pasturage. The only other man on the farm is his father, an old man of seventy, who is living with him. Mr. MacDonald's claim for exemption was disallowed.
On the same line Richard Allen

The Coloring of Oleo

HE Food Controller has now given us additional evidence that oleomargarine is to soid on its merits in Canada. One of his

latest regulations reads as follows:
"No substance intended for the coloring of oleomargarine shall be imported into Canada in packages containing eleomargarine and no manufacturer, wholesale dealer or retail dealer in eleomargarine shall deal in, sell or give away any substance intended for coloring eleo-

margarine." margarine."
Other recent regulations provide for the issuing of licenses for importation or manufacture through the Veterinary Director-General; licenses will be issued for manufacture only when the premises of the applicant are thoroughly sanitary and comply with the sanitary regulations of the Veterinary Director-General; all materials entering into the composition of oleomargarine are subject to inspection and all packages must be properly liabled "Oleomargarine."

the United Farmers of the County of Lanark surrounding the Town of Perth, wish to protest against the manner in which the local tribunals are interpreting the Military Service

"In your recent speech in the Chateau Laurier, Ottawa, before the Live Stock Breeders' Conference, you declared that men necessary for production would in no case be taken from the farms. Before the tribunals in Perth during the first four days sitting, approximately 100 applica-tions for exemption had been con-sidered. Twenty applicants have had their claim disallowed unconditionally, 80 have been granted from two to eight months. About seventy-five per cent. of the applicants are farmers or farmers' sons working on farms. In view of the acute shortage of farm labor with which the farmers of this district have to contend, this matter is of serious moment to them, and we would ask you to use your utmost deavor to have more specific and definite instructions in regard to the drafting of farm labor forwarded to this and other tribunals, would further ask that applicants who have been refused exemption at this tribunal be granted further hearing at another tribunal."

An editor of Farm and Dairy went to Perth last week to investigate the situation. He found that the farmers of Perth were not protesting against the Military Service Act. They were, however, protesting vigorously against the decisions of some of the local tribunals. Many of the farmers of this district, who have been refus-ed exemption, will appeal their cases.

owns one hundred and twenty acres. He is the only man on the farm. His brother, who owns seventy-five acres adjoining, and he work together Richard Allen, likewise has his claim or exemption disallowed.

James McLaren, a young farmer of Drummond Township, bought a 200-acre farm two years ago. Mr. Mc-Laren has been milking ten cows on his farm. His exemption claim was disallowed, a few months only being granted to him to settle up his estate. He is the only man on this farm of two hundred acres.

Another outstanding case is that of James McNaughton of the Perth District. He, also, is the only man on his farm of one hundred and fifty acres. This is a first class farm, and should his appeal be disallowed as was his claim for exemption, food production must suffer.

Peterboro Farmers Protest.

The farmers in the district surround-The farmers in the district surround-ing Peterboro also are protesting against the decisions of some of the local tribunals. The following is a digest of a petition which has been circulated throughout a couple of the townships and is being sent to Sir Robert Borden:

"In the past three years many men of military age have already enlisted in His Majesty's Overseas Forces, so that few eligible men are left. "Owing to the near proximity of the

district to flourishing towns and cities, district to flourishing towns and cities, there has for many years been a con-stant flow of the young men of the farming community from the farms to the cities and towns, the effect of which has been that for the last ten years the district has even in normal

times been short of efficient help. There has never been a surplus of young men beyond the number absolutely necessary to work the land.
"Owing to the heavy draught of men

already taken by voluntary enlistment, the past two years has been very strenuous for farmers, whose farms have in many instances deteriorated and become less productive for want of efficient help. And this at a time when the national interest calls for greater efficiency and greater produc-

"The Military Service Act, as it is at present being enforced by the Local Tribunals, threatens to so de-nude the district of men skilled in the arts of agriculture that more depreciation and less production will inevitably follow, and in not a few cases farmers will altogether cease to produce those necessary food ma-terials that they have heretofore done, to the detriment of the national in-

"We, therefore, ask that some steps may be taken to so modify the action of the Local Tribunals, either by spe-cial instructions to Courts of Appeal or to the Local Tribunals, or in some other manner that a sufficient num-ber of young men may be exempted from Military Service to work the farms, or that such other action as may seem meet may be taken.

Outstanding Cases.

A couple of the cases which have come under the notice of Farm and Dairy from the Peterboro district are those of Robert Fowler and Stanley Northey, both of Smith Township. Northey, both of Smith Township.
There are many cases in this district
where decisions have been made by
the tribunals which will certainly work against the greatest production. cases only, however, were looked into by Farm and Dairy.

Robert Fowler, outside of his brother, a boy of fourteen, is the only help on a farm of 200 acres of good fertile land. His father is 65 years of age and unable to do hard work. This farm is nearly all under cultivation and a large stock is kept. They grow considerable wheat and hogs. Robert his claim for exemption disal-

Stanley Northey is one brothers who leaded a two-hundred acre two years and there is still one year to run in the lease. Despite the fact that his brother will be unable to carry on alone, Stanley will come in the first

Other Notable Instances.

Another instance of an injudicious decision by a tribunal, which has come under the observation of Farm and Dairy, is that of Frank Harris, of Ingersoli, a prominent Ayraine breeder. Mr. Harris has a stock of 30 head of cattle, many of them pure bred Ayricatile, and the stock of the Arrists only boy at howe is his son of twentyonly boy at home is his son of twenty-three. Their appeal for the exemption of this son has been disallowed. Mr. Harris has appealed the case, but if his appeal is rejected he states that he will be compelled to sell out a large part of his stock.

A case which has been receiving some attention from the press is that of a man near Brantford who is taken from a 25-acre farm, leaving a widowed mother alone on the place. It is to be hoped that those interested in such cases will appeal as is recommended by Sir Robert Borden, and that the men before whom such appeals may be tried will be educated to the need for greater food production which now

BE SURE

You read the announcement ou page 11 of this issue. It saves you money—nuff sed.

Mr M of ident of berta, re meetings Recent new club

Novem

25 men te dark and organized two shar Farmers' previous bert disp Grange

T HE vita Jus of the E twelve of tion only granges 1 Dufferin, Yarmouth The m meeting.

Rather d stinets of The Wor occupied given by district r The mu The gre exhibit of petition given a

products exhibited three and crop. Or pounds, v Mrs. Dol: the award men's Ch Thomas.

Director Co-op MEE A The day, Nov ments we

meeting (The fir year's bu was most showing t \$918,197.0 over \$400 year's bu to enable dividend plus of a reserve a

The a pany will ber 21st During shares of have been

The nany is a ready for The postore in to the cor was appo ter: Mes Morrison.

The Dir

In Union There is Strength

Mr. Halbert's Activities

R. R. H. HALBERT, President of the United Farmers of Ontario, and Mr. Baker, vice-president of the United Farmers of Al berta, recently attended a series of meetings in Wellington county.

Recently Mr. Halbert organized a new club at Shiloh. Between 20 and 25 men turned out in spite of the very dark and misty night. The club was organized with 15 members and took two shares of stock in the United Farmers' Cooperative Company. The previous night, at Eramosa, Mr. Halbert disposed of four shares of stock

Grange Meeting at Middlemarch

THE Grange is still alive and a vital influence in Elgin Co., Ont, Just recently a splendid meeting of the Elgin Grange was held in the Grange Hall at Middlemarch. Of the twelve officers of the county organization only one was absent. Among the granges represented were those at Dufferin, Forest Rose, Town Line, Yarmouth and Apply Grove,

The meeting was a typical grange meeting. It was not all business. Rather did it cater to the social instincts of the people whom it serves. The Worthy Master, W. A. Wardell, occupied the chair. Addresses were given by various Grangers and by the district representative, Mr. Buchanan The musical programme delighted

The greatest interest centred in the exhibit of beets from the ladies' competition. Last spring each lady was given a spoonful of beet seed. The products of the summer's work were exhibited and Mrs. McNiven reported three and one-half bushels as her One beet weighed over twelve pounds, while 24 inches in circumference was a common measurement Mrs. Dolman of Forest Rose secured the award for the best table best. The beets were donated to the Young Women's Christian Association of St.

Directors of The United Farmers Co-operative Co., Ltd. Meet

MEETING of the Directors of The United Farmers Cooperative Co., Ltd., was held on Friday, November 23rd, when arrangements were made for the annual meeting of the company.

The financial statement for the year's business was presented. It vas most satisfactory in character showing total sales for ten months of \$918,197.00, an increase over last year comprised twelve months, of over \$400,000. The profits on year's business were sufficiently large enable the Directors to declare a dividend of 7%, which leaves a surplus of about \$800 to be devoted to

pany will be held on Friday, December 21st and a very materials gramme has been prepared for it.

have been sold.

considered.

officers of the company.

J. A. Maharg of Moose Jaw, was reelected president of the Saskatchewan Cooperative Elevator Co., and Geo. Langley was re-elected vice-president. A presentation was made to the Hon. Chas. A. Dunning, provincial treasurer of Saskatchewan, who retired two years ago as general manager of the Cooperative Co.

Letters to the Editor

A Good Word for Buyers

gained in placing at their disposal the picking out sheep and cattle at the Union Stock Yards to take back to country points for breeding purposes. I would like to take this opportunity of bringing it to their attention and also of expressing my appreciation of the help obtained from their representatives, Messrs. Wilson and Irvine

Female stock for breeding purposes is shipped in car load lots to country points, free of charge. A number of farmers can club together and either have the representatives pick out a carload for them or else send one of their members to the stock yards where all assistance possible will be extended in making the purchases

Few farmers have ever visited the stock yards and fewer still know their way around the yards or are acquainted with the commission men and thus feel their inability to go to the yards and pick out breeding stock to good advantage. With representatives on the spot, who are watch for good breeding stock, they water for good oreeding stock, they can take a farmer as soon as he comes into the yards where he can inspect these cattle. If satisfactory, they can immediately put him in touch with the commission men handling these cattle and give expert advice in picking them out.

I have just purchased a carload of breeding ewes and can speak from experience of the value of this service and can also speak of the courtesy and purchasing judgment of Messrs Wilson and Irvine .- G. F. Marsh, Grey

Our Friends, the Interests

PoiTOR, Farm and Dairy.—President S. R. Parsons, of the Canadian Manufacturers' Associa writing to The Globe, says: "There is only one way of paying off the accumulated debts incurred The annual meeting of the com- this war, that is to make goods and sell them. To do this we have got to organize the nation in a big effort of industrial production."

It would be interesting to know by shares of stock, amounting to \$4,500, what means it is considered the organization can best be brought about The new prospectus of the comson that industrial production will be not so that industrial production will be not completed and will be flourish. Mr. Parsons belongs to that The possibility of opening a retail tariff as high as Haman's gallows. He store in Toronto to sell goods direct and Mr. Cockshutt, of Brantford, were to the consumer from the farmer was of the party that said not long ago, to the considered. The following committee when harvest help was being sought was appointed to look into the mat-by the war production committee, ter. Mears. Lick, Blatchford and "Farmers must not expect men to

running \$1,000 automobiles, with gaso-land. I am informed that a manifest line at 50 cents per gallon. These train (a train carrying perlahable are the same gentlemen that believe freight, meats, etc., containing from in special privileges and adequate tariff protection to manufacturers, that Lick, McCrae, Powers, Schnurr and they may live in luxury while the a.m. the next morning, runs on sched-Messrs. Morrison and Blatchford as great bulk of the people are in want, ule time as swift as passenger trains, Micers of the company. He believes in a protected market for The annual meeting of The United manufacturers and in the Government Farmers of Ontario will be held on setting an arbitrary price on the far-mer's products. He believes in the free admission and manufacture of free admission and manufacture of oleomargarine, but he does not believe in applying the same principle to the manufacturing interests.

In this same article in The Globe he dwells on the courage, intelligence. honesty and efficiency of our whole industrial outfit, and by way of em-bellishment he includes the farmer whom he abused and discredited less than three months ago. Farmers are beginning to fully understand this rant. The day of reckoning is at hand. Farmers have learned that they are masters of the situation; that they control the supply pipe to all other industries. Men must be fed, and if a fair reward for their endeavor DITOR, Farm and Dairy.--I not going to be allowed to come to doubt if the farmers thoroughly them without the interference of those understand the advantage to be men of other industries, who advocate the arbitrary setting of prices on farm ervices of experts to help them in products, while the freedom of mar-icking out sheep and cattle at the ket conditions aided by a protective tariff is allowed to expand manufacturers profits, then there is only one solution, increasing high cost of living through diminishing production.— J. J. Morrison, Secretary, United Farmers of Ontario.

> Agast Nationalization of Railways

DITOR Farm and Dairy.—Dear Sir: The last year or more many comments have been made in farm papers and at farmers' meetings regarding the nationalization of rail-It is somewhat natural to expect that from these sources we are liable to hear only one side of the On my way home from the United Farmers' Convention held in Toronto last winter I called on a G.T.R. official, who is in a good position to understand the financial condition of the G.T.R., and he expressed the opinion that if the nationalization of rellways should become established, the public in Ontario would have to pay more then they are doing now The reason for this is as follows: In the case of factories located at near the C.P.R., the G.T.R., in order to secure this trade, pays the cartage rates on the manufacturers' merchandise, and the goods are loaded and shipped via the G.T.R. At the point of destination very often the consignment has to be switched on to a C.P.R. siding, and the G.T.R. have to pay the switching charges. The cart age rates are three cents per 100 lbs., or \$18 per 60,000 lbs. car. Switching charges are one cent per 100 lbs.. with a minimum charge of \$3 and a maximum charge of \$8.

The railway company, in assuming those cartage rates or paying them, calls this act "absorptions." The absorptions at West Toronto in connection with the G.T.R. amount to four five thousand dollars a month. The absorptions at London and Hamilton are not as heavy. In this kind of competition the G.T.R. try to realize, on the average, a gross profit of \$8 per carload. This amount, from fair and business viewpoint, can be admitted as very small.

In reading an article in your sup-plement issue of June 28th, Mr. H. J. Pettypiece gives comparative rates on the cost of shipping dressed meats from Chicago to Portland and from Forest to Toronto. I was not aware f: Mesars. Lick, Blatenford and Farmers must bet expect men to Forest to Forento. I was not aware names orrison.

work for \$2.50 per day when they can that Forest could supply one carload, not ge
The Directors present were Messrs, get \$5 in the city. Let them pay, or at most 50 carloads, daily for ship want
unker, Halbert, VanAllen, Good, They can well afford it. They are ment to Toronto, Montreal or Port. price.

freight, meats, etc., containing from 10 to 50 cars) leaves Toronto daily at p.m. and reaches Montreal at ule time as swift as passenger trains. Can the abattoirs at Toronto or Forest supply 50 cars daily? to people who give this matter some thought that the cost of hauling 50 carloads is not much greater than hauling 10 carloads. As an illustration it works out this way: The cost r charge of switching one car on to a siding is \$3, whereas the cost switching eight cars would amount to only \$1 per car, which means a sav-ing of \$16 in favor of big business as against small business. In hauling freight and shunting into the sidings at every station for a car or half car load, the loss of time entailed makes the cost of hauling 100 lbs. greater in comparison to long hauls and a full train load, so that the freight rate has to be in actual proportion to the actual cost-a rate which naturally does not favor small husiness

It is big business that gets the best rates every time. If we farmers organized to a man, and did big bustness in buying supplies and selling produce, we would reap a greater henefit.

It seems to me that some of the men connected with the farmers' movement are too much inclined to find fault with the way the other men manage their business .--Yours in fair play, J. Eldridge, Bruce Co., Ont.

Farming Not Get-Rich-Quiek Scheme

E DITOR, Farm and Dairy: Under "Letters to the Editor," in your issue of August 30th, I for one take exception to "A Consumer's view." Consumer has been reading the papers recently, and present prices seem high to him, but since the government has s the price on wheat, perhaps he will change his views.

I am not farming on a scale so that I can give an answer to all the produce mentioned in his article. alone is my hobby. In normal times it costs 65 cents a bushel to produce wheat. I doubt if 77 cents will prowheat. I doubt if 77 cents will produce a bushel of wheat in war times, when labor, twino, threshing and machinery are so high.

"A Consumer" should bear in mind

that wheat, from which the staff of life is manufactured, must pass through many hands before it is made into bread. And every one that handles it does so for what there is in it. Had "Consumer" been a constant

reader of the papers, he would have noticed that in 1915 wheat, No. 1 Northern at that, sold here at 68 cents a bushel. Where did the farmer make any more that year? There were thousands of bushells sold at that price, for many western wheat farmers must sell in the fall as soon as thresh-

ing is completed. The farmer is the hardest worked man in this country, and earns every cent he makes. His work is contin-uous winter and summer, every day, early and late, with less pleasure and comfort than, his city cousin. vice to "Consumer" is to get busy and get into the bonanza business while the getting is good. There is no better teacher than experience, al-

though the tuition fees are high.

Regarding labor, "A Consumer's" Regarding labor, "A Consumers" scale of wages does not apply to this section of the country. For eight months a man gets from \$50 to \$60 a month and board. During harvest and threshing he gets \$4 to \$5 a day and board. No matter what wages some farmers offered this year they could not get help. And I for one would not want some of your city help, at any price.

"Producer."

The Agricultural Value of Ground Limestone and a few bunches of hogs each year

well-established fact, and one that is now widely recognized by This conclusion is the result of practical experience in many parts of the world and is fully supported by scientific testimony. Many soils are naturally well supplied with lime-present as carbonate of lime-and present as carbonate of lime—and such soils, rationally treated in respect to manuring, cultivation, drainage and rotation of crops, are among the most productive known to agriculture. the other hand, there are other soils deficient in lime, owing to the poverty in lime of the rocks from which they ere originally derived or to depletion through long-continued cropping and drainage. It is these latter soils that profitably respond to liming or applications of ground limestone.

Soils in need of liming are usually acid or sour and will turn blue litmus paper red (methods of testing soils are given in Bulletin No. 80, "Lime in Agriculture," Experimental Farm Series). Soils containing a sufficiency of available lime turn red litmus paper blue and usually give a more less strong effervescence on the addition of a few drops of any strong acid. Soils of all types may be benefited by liming-heavy clays, silty and slaty soils, mucks and light loams, and especially poorly drained soils.

Though quicklime or slaked lime are forms particularly valuable for heavy clays, chiefly from their beneficial effect on the texture or tilth of these soils, improving their drainage and rendering them mellower and more easily worked, ground or crushed limestone has proven a most suitable and profitable form of lime for applin to soils of many types, and is to be generally recommended. cessive applications can do no harm, as may be the case with quicklime.

Dressings may be from two to five tons per acre, broadcasted on the prepared soil and harrowed in.

Experiments conducted by the Division of Chemistry of the Experimental Farms in Eastern Canada during the past five years have shown that at nany points an application of ground limestone has been followed by increased yields, and particularly has been valuable for the clover cropsconsidered as the basis of profitable farming. The following two instances flustrate the benefits that may be deground limestone applied to soils deficient in lime:

At Kentville, N.S., on a sandy loam soil, a plot was treated to 215 pounds of fish scrap, 233 pounds of acid phosphate and 100 pounds of muriate of potash per acre in preparation for an at crop in the year 1914 and yielded 57.3 bushels of grain. Another plot. similarly fertilized, received ground limestone at the rate of 2,000 pounds per acre, and yielded 66.2 bushels or grain per acre—an increase of 8.9 bushels of grain due to the liming. In the second year (1915) of the rota-tion the fertilized but unlimed plot produced 2 tons, 467½ pounds of clover and timothy hay per acre, while the fertilized and limed plot yielded 3 tons, 760 pounds of hay per acrean increase of 1 ton, 1921/2 pounds due to the liming. In the fall of 1915 the strong growth of clover aftermath on the limed plot made it stand out in striking contrast to the others in the

At Cap Rouge, P.Q., on a sandy soil, areas in barley, oats, wheat and peas were treated in 1915 to an application of two tons of ground limestone per acre. The following results were ob-

T HE favorable influence of avail tained, the product being expressed in pounds of grain harvested per acre: are still working for better and bet-Barley; average of 3 varieties, limeu ter cows. They are a prime factor in Barley: average of 3 varieties, limet ter cows. They are a prime factor in 3,900, unlimed 945. Oats: average of the measure of success that has been 5 varieties, limed 19,140, unlimed one. But back of good cows lies a 8,940. Wheat average of 4 varieties, well planned rotation of crops. The limed 4,200, unlimed 3,315. Peas: kind of crops that give maximum reaverage of 4 varieties, limed 7,080, unlimed 3,495,

The Business Basis of Dairving (Continued from page 5.)

fact that we could not sell clover hay to advantage was not worrying us now, as we had little hay to sell in We began to put in more clover and less timothy in our mix-tures and we did not allow the meadows to remain so long in hay. . (1 say "we" now, because with the in-crease in the dairy business the farm had become a family affair.) vance, the first being the improvement in our cows. All along we had been cream of my farming experience.

We believe that we have wheat struck the right road to success and have stayed right on it ever since. We turns per acre and at the same time reduce feed bills. We are following a four-year rotation of corn, mixed cats and barley, clover hay and pasture. sides that we have a big field of al-falfa. We believe that a man may farm his land well, but if he feeds his well grown crops to poor cows will fail. We are equally certain that man may have excelent cows, but if he is a poor farmer he will fail. is the man who gives intelligent at-tention to his cows and his crops who, barring accidents, is almost sure of

I expect my neighbors to put their K on this contribution. Many of growing of clover reduced feed bills O.K. on this contribution. Many of and was our second real step in ad- them have followed along the same lines and have done well. This is the

SMALL THINGS AND BIGGER ONES

By W. S. Fielding

W E are advised to despise not the day of small things. It is well to have the support of our banks and other financial organizations in the Victory Loan campaign. cial organizations in the Victory Loan campaign. There assurances that these institutions will do their part. But to make the transaction a satisfactory one—a real Victory Loan—the cordial support of the mass of the people is necessary. Don't think that because you have no large sum to invest you should do nothing. The small subscriptions of the many will amount to more than the large subscriptions of the few. If each one will do what he or she can the sum that will be raised from people of very moderate means will be surprising. Every small investment is of value in itself, and it has the higher value of helping to renew assurance to the Mother Country, the Allies and the world that the people of Canada are steadfast in their purpose to put forth every possible effort toward the winning of the war. The small bonds of \$50 and \$100 are designed to afford the war. The small bonds of \$50 and \$100 are designed to afford an opportunity to the masses of the people to utilize their modest savings in support of the good cause. The terms of issue make the interest yield about 5½ per cent, which is a liberal rate for such a high class security. Have a share in this great work of financing Canada's part in the war. Buy a Vetory Loan bond—a large one if you have the means, a small one if your resources will not allow the larger investment.

growing turnips and mangels for suc- More Potatoes Should be Grown culence, but their area was limited by lack of labor A Silo at Last.

We will never forget the first year we fed ensilage. When we started in dairving there were no silos in our district, and they were scarce in On-The farm papers, however, were all talking about them and we built a home-made silo according to specifications given in one papers. We planted five acres in corn, the greatest area of corn that had ever been grown in the district. Due to good luck rather than good

management we planted suitable varieties, we had good silage and the cows never milked so well. Since then the only improvement we have by the use of lots of lime, we have gotten a good stand of alfalfa on a 10-

acre field. This is the whole story. We have improved our cows, increased their number and therefore greatly increas-ed our income. By changing our

Andrew Elliott, Waterloo Co., Ont.

N time past much has been done and much is now being done to improve seed grains and to help various live stock industries, but little indeed has been done to place the production of potatoes, one of the most important of crops, on an improved footing. True, we have bulletins of great value issued from time to time, but they seem to have little effect and we find the majority of farmers growing potatoes as their fathers did before them. Potato growing is a science and special education is needed to meet the changing conditions of production and marketing.

More potatoes should be grown in then the only improvement we have made in our farming business, is that Ontario. There is a waiting market by the use of lots of lime, we have for the potato grower who will take up the growing of sweet potatoes for the south. Virginia and the Carolinas get their seed from Northern New England, the states west of the Mis sissippi from Minnesota and Winconnumber and therefore greatly increas-sussippi from Minnesota and Winconed our income. By changing our sin. Ontario, and especially northern
cross so as to grow lots of clover and Ontario, is in line to meet the dealfalfa hay and corn ensilage, we mand of the states in the middle
have been able to grow a great por- south. For market demands a medtion of our feed on the farm and feed ium sized, smooth potato is required.
bills have been reduced to a minimum. It is a serious mistake to grow many
Aside from the dairy income we turn varieties. Cars of mixed varieties are

never wanted and have to be sold at a reduced price. Irish Cobbler early marketing and Green Mountains for the late demand are among the

I believe that seed potatoes should be thoroughly mature before being dug. Some experts tell us differently but their claims are contrary to all teaching. We know that grains must be mature to furnish the most desirable seed. Corn taken from the stalk when beginning to dent gives a high germinating test in the test box, but it is much behind in field conditions when compared with that which has been allowed to ripen on the stalk. I for one have still to be shown why seed potatoes should not be mature.

The Best Potato Soil. A rather sandy soil is preferable for growing potatoes and it must be rich in available plant food. The application of barnyard manure is sometimes necessary. Perhaps there is no better foundation for a crop of potatoes than a year old clover sod. If a crop of hay has been taken off early and the second crop plowed under, conditions are almost ideal. Some years ago I spent several seasons in England in potato district advocating clover as a rotation to precede potatoes, thing then practically unknown. endeavor apparently fell on deaf ears and unbelieving minds. Four years ago on returning to the same parts I ound all the big potato growers were following a three year rotation— clover, first crop cut for hay and second crop turned under, then pota-toes followed by seeding to clover.

Potato Diseases. Such diseases as early and late blight and such pests as Colorado potato beetle can be controlled by epraying. For the blight spraying is a preventative and is of no use after the sease has once become established It has also been shown that thorough It has also been shown that thorough spraying, say six times in a seaton beginning early, will materially in-crease the yield and almost entirely prevent rot. Ordinary scab can be prevented by treating the scud with rmalin, but as yet no cure has been found for powdery scab except changing the ground for a period of years and destroying all diseased tubers. Black leg, a disease little know 1 as yet in Ontario, will probably become common through the use of seed from infested countries. The only cure for it is to pull up and desuroy all infected plants.

The Corner Stone of Breeding

T an experiment station sixty ewes were divided into two equal lots. One lot was bred to an average good grade ram. The other lot was bred to a pure bred ram of the mutton type. The lambs were sold at three months of age. The lambs from the pure bred ram averaged eight pounds more in weight and brought \$4 a hundred more than the lambs sired by the grade ram from equally good ewes. The thirty-seven head from the pure bred sire sold for exactly \$118.40 more than was realized from an equal number of lambs of the same age sired by the grades. The pure bred ram cost \$45 and the grade

There is a moral, of course, but it is not new. Sometimes the price of a pure bred sire seems high, but time and successful experience always shows the pure bred ram, boar or bull to be the best paying investment the live stock grower can make. Within reason it is pretty hard to pay too much for a good sire.

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86

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FEEDERS CORNER Conducted by E. S. Archibald.

Nova Scotia Feeders' Methods F. W. Foster, Kings Co., N.S.

While some dairymen have good pastures, many have not, with the result that the cows soon begin to reduce their flow. Our practice is to cut some clover and feed green, then have oats and peas, or oats and vetches to follow. Later some of the soft early varieties of turnips are used, such as White Globe, Aberdeen or Greystone, feed should last until the cows go into winter quarters. Then a constant sup-ply of roots and ensilage should be fed until the cows again go out to pasture

Meal is fed the year round, even on good pasture. The cow to produce large quantities of rich milk must not be compelled to work all day to get enough to eat, but should have time to rest and assimilate her food. This can be done only when she is fed sufficient of the more concentrated feeds to enable her to have more leisure to manu ance ner to nave more letaure to manu-facture more milk. She must have kind and gentle care, not being driven by dogs or abused in any way. Keep her clean and healthy, and she will pay you well for your extra care.

Feeding Dried Beet Pulp

A B a general rule we grow a couple of acree of mangels, but this year, help was so caree that we great help will be so that we great help will be so that we great help will be so that we will be so tha

Dried sugar beet pulp makes an excellent substitute for roots, and very economical results may be obtained from its use providing the price is not too high. Considering the value of other meals on the market and the cost of producing such farm succulent roughages as roots and ensilage, I would say that \$28 to \$30 per ton is the maximum value of dried beet pulp.

This meal, when soaked, takes up

from four to five times its weight of water, and for this and other reason water, and for this and other reasons should be soaked before feeding. The fact that when soaked it is such a suc-culent food without being sloppy is very acceptable to the animals. I have found that the best way of prenaring the pulp, and after thoroughly turning with a shovel cover until feeding time. We have found also that this should be fed in about the same manner as ensilage, namely, with the meal either therewith or dumped on top in angers.—E. S. A.

Feed Definitions

An not clear as to the exact difference between dried brewers grains, also between gluten feed and gluten meal. Will you please define the cading tween gluten feed and shuten meal. Will and the company of the cading values of each —E.L.F., Carleton Co., N.B.

There is a marked difference in the origin and food value of these grains. Dried distillers' grains is the by-product of the distilleries and usually is the residue from the distilling of either corn, rye, or a mixture of these. Dried brewers' grains is the by-product of the breweries, and is the offal from barley. Gluten meal is a by-product of corn from the starch manufactories, and usually contains from 34 to 42 per cent. protein. However, in recent years all Canadian, and many of the American starch manufacturers have ceased placing this product on the market, but have replaced it with gluten feed which contains not only the gluten meal, but also other coarser residues from corn, such as the corn bran. Gluten feed not only contains from 12

to 20 per cent. less protein and pro-portionately less of carbohydrates and fats, but also contains a proportionately higher percentage of in-digestible crude fibre. The comparative analysis of the three feeds commonly found on Canadian markets, and their comparative feed value based on total digestable nutrients,

Dried distillers' grains	%	%	%	%
	30.7	11.6	36.3	12.2
Dried brewers'	26.5	14,6	41.0	6.9
Gluten feed (high grade) .	25.4	7.1	52.9	3.8
	Approximate present price per ton	Pounds total digestible nutrients per ton	Cost of 100	digestible
Dried distillers' grains Dried brewers'	\$40.00	1778	\$2.26	
grains Gluten feed	34.00 50.00			2.58 3.09

Straw for Dairy Cows

I when past we have always fed cut atraw, along with enallage, to dairy cows. Will it pay us to do so that the same and the same along with enallage, to display the same along the same a

Considering the very high price of concentrates and the comparatively low price of good clover hay, I would strongly advise that no cut straw be used in the feeding of dairy cows as long as the clover hay may be obtained at this price. Cut straw which is blown into the mow comparatively free from moisture should not de-teriorate in value if cut several months ahead.—E. S. A.

Potatoes in Ontario

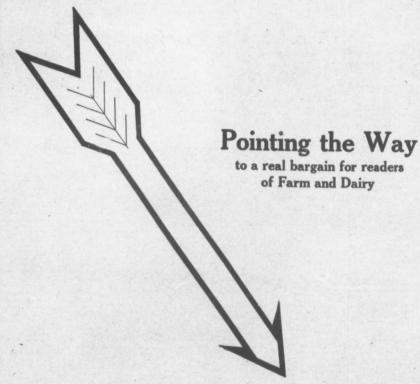
CONFERENCE of potato growers and specialists was recently held in Toronto to discuss the Ontario potato growing industry. Common diseases, sources of seed and methods of developing the industry were the three subjects under dis-

All told it was reported that four times the amount of serious diseases and ten times the amount of less serions diseases were found present in old Ontario as compared with Northern Ontario. The investigations proved Northern Ontario to be far superior to old Ontario as a source of first class seed potatoss, but neither Prof. Macoun or Prof. Zavitz were willing to commit themselves to a statement that it would be wise for Ontario farmers to plan on buying their seed potatoes in New Ontario every year. It was generally agreed that immaturity of the seed increases

potato yields. To guard New Ontario against the introduction of diseases now prevalent in old Ontario, it was suggested that inspectors be appointed to go over notato fields in New Ontario, rosueing out disease and impurity impurity

to southern districts.

The Irish Cobbler was recommended as a standard early variety to be grown in Ontario for commercial purposes and the Early Obio as an extra early variety. The Green Mountain was especially recommended as a standard late variety and it was fur-1. Dooley, Rural New Yorker No. 2, etc. be recognized as standard varieties for those districts where conditions are peculiarly favorable to their growth. An effort will be made to bring Ontario farmers to an appre-cation of the seriousness of some of the diseases prevalent in the prov-



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ost Office Department, Mail Service Branch, thawa, 7th November, 1917.



Poultry Pointers By F. C. Elford.

F EED and eggs will probably be higher this winter than they have ever been known. More than ever been known. More than ever then it will be necessary to make every pound of feed tell in eggs or flesh. To do this it will require vigorous culling of the flock, good housing and care, and business methods in buying the feed and selling the product

Get rid of non-producers. Keep for laying only those that will likely lay winter eggs or produce good strong-germed eggs for hatching in the spring. This means that, in the American or heavier breeds, hens over two years old will be sold or eaten, only the best of the one-yearolds kept and none of the late pullets. Even the well-matured pullets should be carefully selected, keeping out any

that may lack vigor or constitution.

In a test covering three years at everal branch Experimental Farms during the months of November, De-cember and January, early pullets produced eggs at a cost per dozen, for feed, of 18.3 cents; late pullets, 56 cents; one-year-old hens, 78.2 cents, and old hens, \$5.73.

There are a lot of pullets this fall too late hatched to keep for laying, at the present price of feed. Any pullet that is not nearing maturity by November will not pay to hold. such with the cockerels and market It does not pay to feed a pullet till February before she lays.

Pebruary before she lays.

Don't keep old hens. A two-year-old Leghorn hen may be worth keeping but a two-year-old Rock hen is usually a loss. If all these old hens were not sold in the spring or during the summer, set rid of them now. The late moulter is best. In selecting

the one-year-old hens to keep for late in the year. Those that are in full new feather in November are not the lavers

Even at the present cost of fee does not pay to sell thin birds. Three and a half pounds of ground grain will produce one pound of flesh Don't sell all at the same time, sell those that are ready first, spread the sale over several months, keening, convenient, some of the cockerels till after Christmas.

Wheat fit for milling purposes should not be used for poultry feed. Oats, buckwheat, barley, corn, screenings, buckwheat screenings, etc., can be used. Feed a mixture of grains in litter morning and night. In the mash, dry or moist, use bran, shorts, ground oats, etc. Give milk to drink and table scraps, and if there is no milk use beef scraps. Give grit and shell, green feed, and keep birds and houses free from vermin.

Why Hens Eat Eggs By A. P. Marshall.

M ANY farmers are troubled with their hens getting the habit of eating eggs. Generally, back of this there is some reason, as a hen properly fed at all times will seldom acquire this habit.

Hens should have a good variety of

food or they often attack their own eggs in hope of finding the lacking material. Unless hens have grit and ovster shells, they often lay softshelled eggs, and in many instances this is how they get a start, as it is a lime suffnur wash such as is used very easy to pick a hole in those for spraying root trees. It is consid-

Often the lack of the oyster shells, the lime material, is the only cause for this habit. The hens must first have enough of good varied food for body maintenance before they can lay eggs properly and unless they get this there will be trouble one way or another

Prevention and Cure.

Curing an egg-eating hen is quite a difficult problem and the hatchet in many cases is the surest cure. How-ever, many raise valuable pure-bred birds and it may be worth while to try some experiments. The best way in the first place is a preventive by giving a good variety of food, oyster shells, grit, charcoal, meat scraps, green stuff and a little salt in the mash, about as much as we use in our own food. Especially should there always be a lookout that oyster shells

are always in good supply.

Another method for curing egg-eating hens is to take an egg, make a little hole in one end large enough to empty its contents. Then fill this egg-shell with meal and red pepper Place it in a conspicuous place where you know the egg-eating hen fre-It is a wise plan to have several of these eggs fixed up if you have more than one hen with this habit, and it will be generally found after they get some of the contents of these eggs that they will have a taste in their mouth that they do not want repeated and often gives a cure, especially if at the same time a good variety of food is supplied.

Blackhead in Turkeys

HE one disease which causes more loss in turkeys than all others combined is blackhead, disease is infectious. other fowl may be subject to the disease losses among them are small compared with the losses among turkeys. As far as can be learned the chief source of infection is from the droppings of the diseased birds, particularly in the neighborhood of their feeding area.

Symptoms.

The early symptoms presented by affected birds are not particularly characteristic. They will usually separate from the remainder of the flock and lag behind because of physical exhaustion. The droppings are more fluid than normal, for the disease is allied to white diarrhoea and droppings are usually streaked with The symptom from which the disease gets its name is the dark color of the head of affected birds. This dark coloration may disappear reappear while the bird is at rest, but excitement usually causes a bright red coloration

The surest way of telling the disease is by making a post-mortem ex-amination on one of the diseased the diseased birds. The liver will be found to be covered with circular spots about the size of a five or 10 cent piece, which are yellow or whitish yellow in color At the point between the spot and the liver tissue a bright red ring may be observed.

Prevention.

There has not yet been found any system of treatment for blackhead which will give good results. best method is to try to prevent the disease. Any birds which are affect-ed should be immediately separated from the rest of the flock. If it is known that birds have this, the sick ones should have their necks wrung (for the disease may be spread by the blood), and be either burned or buried (ceply. The feeding ground should be treated with lime, and if the turkeys roost in trees it is well to spray the ground underneath with

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advice. The bu manger a at the re slide and passed up across an of the m heavy we herdsman he entice

When he man simp ered, an advantage to quarter the climbed over the manger, raised the oung turkeys on a clean sanded board floor at night and prevent their travelling through the grass in the morning while it is wet.

Some people claim to be able to ward off the disease until the turkeys ward of the disease until the turkeys can be got ready for market by using a teaspoonful of mariatic acid to a quart of drinking water. This acidu-lated water should be placed in porcelain or glass vessels and turkeys prelain or glass vessels and turkeys pre-vented from getting water from other sources so they will have to drink it. They should be closed up while under-going the treatment. The best thing to do, however, in case of an attack, is to immediately separate all turkeys which show any symptoms of the disease from the rest of the flock and to keep the flock in as sanitary a place

Winter Feed

A MIXTURE of three parts bran, two of corn meal, two of wheat middlings, two of beef meal and one of alfalfa by measure, mixed dry, can be fed in a hopper and kept be-fore the birds at all times. Equal parts of oats, wheat and cracked corn should be fed in the litter. In cold weather feed the corn in the evening In addition to this the birds should have some green food as mangels, carrots or cabbage. Grit, oyster shells and charcoal should be kept before the birds all the time.-E.

Field Notes

NE of the sights most noticeable while travelling through the country at this season of the year is the number of farmers to be seen plowing with two-horse teams

and single-furrow plows.

We believe that there are places where nothing else is satisfactory, yet there are other places where it is a serious waste of valuable time with nothing gained. On land which has been but recently broken, where stones, roots and stumps are frequent, also in very wet land, rough land, or very small fields, the larger outfits are not satisfactory. But in many districts of Old Ontario there are no stones or any other obstruc-tion and the fields are level and sufficiently large to admit of the satisfactory use of a four-horse power out.

fit. In such places as this it seems quite out of place in this time of man shortage to see an able-bodied man or even a boy wasting his time following a two-horse team

The farmer who can most profitably employ himself is the one which is most likely to succeed in the race of economic production. In no way can a man better conserve human labor than by handling a four-horse team.

"Safety First" with the Bull. SAFETY first," the admonition which greets us upon street radway cars and R. R. stations, is a motto which might well apply to the handling of the dairy bull. While visiting one of our prominent livestock breeders recently we saw practical means of carrying out this

The bull was in a box stall with the manger at the front end and the exit at the rear. The rear door was in a slide and was hung on a rope which passed up into the loft and then came across and down in the alley in front of the manger. On this end was a heavy weight which almost balanced the weight of the door. When the herdsman wished to take out the bull he enticed him to the manger, caught him, then pulled down the weight, thus opening the door at the rear. When he was brought in the herds-man simply led him in at the door, weight, thus lowering the door and at no time during the whole operation was he at the animal's mercy.

Such precautions, commonly practical, would go a long way to prevent the regular list of accidents which we notice and which are usually at-tributed to animals as "quiet as a lamb."-"Mac."

SHEEP AND SWINE

Wintering the Brood Sow

URING the winter considerable care will be needed to keep the care will be needed to keep the account of the absence of pasture. Pasture not only supplies the green food which is craved by the hog's system and the bulk of which is needed in the ration, but it also furnishes

laxative in effect and should not be fed excessively.

fed excessively.

One of the greatest feeds to supply bulk in the ration is clover hay.
Sheaf oats and corn fodder are also valuable feeds for swine. It is well to keep charcoal, ashes, lime and salt always available for the pigs.

The greatest difficulty will be find-ing sufficient exercise for the sows during the winter. Where only a few sows are kept, it is usually possible to give them the run of the barnyard, where they will take exerostupard, where they will take exer-cise rooting in the manure, or work-ing in scattered straw or chaff for what grain may be found. If a dry, well-bedded sleeping place free from draughts is provided, the conditions are about right.

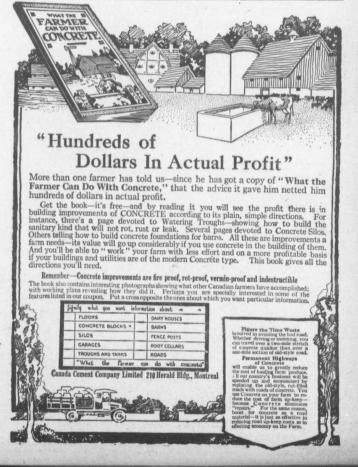
Where the barnyard is not available for the sows, they will do well outside in board cabins for nests. The food which is craved by the hog's outside in board cabins for nests. The system and the bulk of which is need-cabins need not be warmly constructed in the ration, but it also furnishes ed, but must be well bedded and not exercise to keep the sow in condition. more than three to five sows kept in To offset the lack of green feed, notheach. If the cabins are placed about ing surpasses roots. These may be 50 feet from the feeding trough, the sliced or pulped and mixed with the pigs will get some exercise in going grain, or may be given whole as a to and from their meals. So housed not captured to the control of the c

and a small proportion of oats or bar-

and a small proportion of cats or bar-ley, should bring good results. In preparing a building for brood sows it should be ramenbered that what the pig requires in a house is an abundance of fresh air, plenty of sunlight, protection from winds and a well littered, dry nest. Dampness or draughts in the sleeping quarters are araughts in the sleeping quarters are the most serious faults in a cabin for pigs. If the brood sow gets plenty of fresh air and exercise with suc-culent food, she should winter well.

Self-Feeder Wins Again

I N a hog-feeding experiment just concluded at the Nebraska Uni-versity Farm, the self-feeder again found its way to the top of the list as a profit-maker. Corn and tank-age in self-feeders, supplemented by alfalfa pasture, made the largest profit per head, \$5.81. Hominy feed, prout per nead, \$0.51. Hominy teed, tankage, and alfalfa pasture made the lowest cost of gains, \$13.15 a hundred. Hogs that were fed semi-solid butter-milk with alfalfa pasture made the greatest daily gain, 2.14 pounds. These figures were calculated with feeds at current prices: corn, \$2 per bushel: semi-solid buttermilk, 346



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There is Good News for You on Page 11 of This Issue. cents per pound; tankage, \$80 per ton; hominy, \$70 per ton; and pasture, ½ cent per head per day. Experimental work carried on at

Experimental work carried on at the Central Experimental Farm, Octawa, with self-feeders, show that hogs fed in this way consume more grain per pound gain than when fed by hand. Results for this year's experiments are not yet quite complete, but when labor is taken into account, it is believed by the men in charge that the self-feeder will at least be equal to those fed the other way. If you have a trough and can throw in skim milk and hogs have access to this in addition to the feeds provided by the self-feeder, hogs will make more economical gains than by any other method of feeding.

At Ottawa the hogs have a free choice of foods. Corn, shorts, outs and tankage are all supplied in diff.

At Ottawa the hogs have a free choice of foods. Corn, ehorts, oats and tankage are all supplied in different compartments. A plentfull supply of water was always on hand. The hogs seem to prefer the corn, but wheat by-product and tankage were also relished. Ground oats are not popular with the hogs. Where pasturage can be given to the hogs, the self-feeder cuts down considerably on the cost of producing pork.

One point which might be noted in connection with the Nebraska experiment is that even the most economical gains were made at a cost of \$13.15 per hundred pounds of pork. And pork in Nebraska is probably made at a lower cost than it can be in Canada.

Preparedness With Sheep

Treparedness with Jurep I HE year's profit from sheep is largely governed by the methods adopted in wintering the animals. With sheep as with other meat animals the margin of profit may be quite large where economy is used in the feeding and housing methods. On the other hand, if they are fed on expensive feeds, any meat animal will quickly "eat its head off." In making preparations for the writering of sheep the farmer that the sheep may be help in good condition of the wintering may keep the sheep in the best health, Otherwise, the wool and lamb flocks will suffer.

One of the most important of the

One of the most important of the fall operations with sheep is to see that they are not infested with ticks. Sheep free from ticks will winter on much less feed than the infested ones. Lours sheep not only consume more feed and remain and the consumer of the constant of a lower of the constant of the

Finishing Lambs.
Don't sell last spring's lambs in a light, unfinished state. Finish them for Christmess or Easter, and by thus marketing home-grown feeds, make \$1\$ to \$150 per lamb, over selling early in the unfinished state. Winter finish or fattening rations:—Roots (turnips preferable if there are any wethers) 4 to \$6 pounds; or ensilage and roots, equal parts, 4 to 5 pounds; hay (clover and fine grass) 1½ to 3 pounds; grain mixture as follows:—
1. Oats, 3 parts; bran, 2 part; cora, 1 part; cora, 1

1 pert. 2. Oats, 4 parts; bran, 2 parts; oilcake, ½ part.

cake, ½ part.
Start with ½ pound per lamb per
day, finishing with 1 pound per day.
Elevator screenings, as sold from government elevators, containing a mini-

mum of blackseeds (mustards, etc.) are economical in the grain ration. Various grades of these screenings such as scatpings, buckwheat screenings, etc., may also be the cheapest grain for cattle and swine.

Good, Better and Best.

THE man who makes a clean cut success of his business if he is the man who knows what is the most important thing to do now. Many things are calling to be done every minute. Most of these things are desirable to do. But all of them cannot be done. Some must be refused altogether, and some must be put aside for the time. One thing only is most important now. And that is the thing

The man who lacks this good judgment lets himself be everlastingly chased and worried by the crying undone shings. Some of the things that cry loudest to be done are those that least need to be done. But they get done ahead of more worthy things. If only we knew how to say "No" to the Good in order to say "Yes" to the Better and the Best, we would make our lives much more worth while.

The average ambilious farmer has continuous sense of being rushed. It was to make the continuous sense of being rushed. It was to not hings that cry. Things outside the house cry loudest to him. He dodges in and out of his house. He subtracts from time spent with his family to add to the time spent with his cowe and corn. This method makes good cows and corn. But it doesn't improve the family much. It is choosing the Good instead of the

The farmer who takes time to come to the table three times a day with clean face and hands, cleaned finger nails and combed hair and dressed in a clean house coat, is doing the Best without drawing much from the Good and the Better. The chances are he will make more money, will have better looking stock, and that he will live graces. Moreover, his wife will live spread to the state of the sta

The man who does these little acts of devotion to his home will bye and bye do more. He will devote some of his evening hours and his seventh days of rest to his people and to the place where they live. And growing wise, he will farm with the idea that the house and not the barn is the administration building, that the Home, not the Farm, is the big inh: 'teanee'; that the family life as you go clong, not the life of ledsure after you getter rich,

is the measure of success.

"The farm," says Dean Hunt, of the California College of Agriculture, "Is not a place to retire to after a successful business life, but rather a place to retire from after raising a successful family." The family is the Best on a farm, And is a aquick maturing crop, too. Many a man has busted himself about with his important hogs and corn while his foolish little folles bothered about with their unimportant play, always getting in the way and vexing their elders and betters, till all of a sudden the father woke to see that the chidren were grown and gone. Too late he learned that the years he might have saved chumming with his holderen wasted chumming with his holder.

chumming with am loos.

In that most popular of a screed stories, the Frediral Son, the big boy made himself, and himself and since it is down-to-make the screen and the s

AN APPEAL TO The Organized Farmers of Canada

For years, you the organized farmers of Canada, have been fighting for great national reforms. As yet you have obtained but few of them. Nor does the Union Government and its candidates offer to grant you any of them. Everything must be postponed until after the war. In the meantime the interests which grow rich at the expense of the common people are to be allowed to retain their special privileges undisturbed. Do you approve of such a policy?

FARMERS BE CONSISTENT.

No more patriotic action can be taken, in this time of the country's need, than to increase production and reduce the high cost of living by lifting the burdens off the common people. Should we fail to do this we will be unable to support the boys at the front as we must if this war is to be speedily won. In the Farmers' National platform, adopted last November by the Canadian Council of Agriculture, and later by the various provincial farmers' organizations, including the United Farmers of Ontario, these points were considered and certain definite reforms were demanded. The Liberal Party, if elected to power, has pledged itself to give you these reforms. Note once more the requests which you have made and which Sir Wilfrid Laurier. if elected to power, has promised to grant.

What the Organized Farmers Asked For

"That agricultural implements, farm ma-chinery, vehicles, fertilizers, cdal, lumber, cement, illuminating fuel and lubricating oils be placed on the free list."

2. "Be it resolved that as a means of bringing about much-needed reforms and at the same time reducing the high cest of living, now proving that our tariff laws should be amended as follows:

That the Customs tax on all the necessities of life be materially reduced."

WHO SHALL RULE? THE PEOPLE

The PROFITEER

What the Liberal Party Pledges Itself to Give

"In mitigation of disadvantages to agricul-tural production, I would immediately remove the duties on agricultural implements and other essentials as demanded by the farmers"; from Sir Wifrid Laurier's manifest.

2. No measure to reduce the cost of living can be effective unless and until the tariff is referred and its pressure removed from those commodities in which there are "excessive procured increase of prices." "A general well-considered increase of prices." "A general well-considered increase of prices." "A general well-considered for the tariff, for the purpose of helping canadian production and relieving the Canadian consumer would be an object of my administration." From Sir Wiffred Laurier's manifesto.

3. "By reducing the customs duty on goods imported from Great Britian to one-half the rates charged under the general tariff, and that further gradual, uniform reductions be made in the remaining tariff on British imports that will ensure complete free trade between Great Britian and Canada in five years."

CONSCRIPTION

4. At the last annual convention of the United Farmers of Ontario the following resolution was passed:—
"Since human life is more valuable than gold, this convention most solemnly protests against any proposal looking to the conscription of use of the convention o

3. "Since the commencement of the war the Government placed an Increase of 75 per service of the commencement of the war the Government placed an Increase of 75 per service of the Commencement of the Commencement of the Commencement of the Government of the Commencement of the Commence

CONSCRIPTION.

4. "A fundamental objection to the Government's policy of constraint of that it conscripts human life only, and that it does not attempt to conscript wealth, resources, or the services of any persons the service of any persons of the service of t

THE UNION GOVERNMENT AND INCREASED PRODUCTION-

Since the outbreak of the war the Conservative Government, and now the Union Government, has been calling upon the farmers of Canada to increase the production of food products. At the same time it has made it difficult for them to do so by increasing the tariff 71.2 per cent. on all the articles farmers must buy to enable them to increase production such as seeds, fertilizers, agricultural implements, feeds, farm machinery, and hundreds of other articles. This is unfair, unjust and unwise. On this point Sir Wilfrid Laurier says:

"Believing that increased food production is one of Canada's best contributions towards winning the war, I would propose, if entrusted with the administration of the country, to immediately relieve agriculture from its disabilities in this regard. Under existing conditions, these increases in the tariff are a hindrance rather than a help to increased production in Canada, while it is certain that in the final resort the consumer has to pay these extra taxes.

FARMERS! BE CONSISTENT. STAND BY YOUR OWN PLATFORM. SUPPORT THE MEN WHO PLEDGE THEMSELVES TO WORK FOR THOSE REFORMS FOR WHICH YOU HAVE ASKED. VOTE FOR LAURIER-LIBERAL CANDIDATES.

Vote for Your Interests and Against the Trusts and Pork Barons

Farm and Dairy

Kural Kome

"The Farm Paper for the farmer who milks cows."
Published Every Thursday by
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The paid subscriptons to Farm and Dairy approximate 20,000. The desired circulation of each issue, including the subscripton of each issue in circulation of each issue in reduction of the paper sent to subscribers who from 20,000 to 22,000 copies. No subscriptions are accepted at less than the full subscription are accepted at less than the full subscription of the paper, showing in the paper, showing in the paper showing

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

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The Rural Publishing Company, Ltd. PETERBORO AND TORONTO

"Read not to contradict and to confute, nor to alleve and take for granted, but to weigh and conelieve and ta

A Career of Service

AST week a little pamphlet of thirty-two pages, inside a modest brown paper cover, was slipped on to the editorial desk. Its title read: "Dr. Jas. Mills, M.A., LL.D.," and underenath these words: "A career of eminent service in education and agriculture." Inside we found a well-deserved tribute to one of Canada's great men and one whose greatest works were designed to aid in the development of the industry of agriculture. Canadian agriculture of to-day does not stand in relief against a background of centuries of evolution and progress. Our agriculture is as new as our country, and many of the foremost men in our agricultural history are still with us. Of these none are held in greater esteem than Dr. Jas. Mills. The story of his career, as told by Mr. Ingram, may well be an inspiration to every country boy who feels that he has been handicapped and hampered by circumstances.

Dr. Mills was born near Bond Head in the county of Simcoe, Ont. When still a child his father moved east and bought a bush farm in the county of Durham, where the family remained for twelve years, when they returned to Simcoe. The doctor was the eldest of ten children, and having to work hard on the farm he got little schooling till he was 20 years of age, when he lost his right arm in a threshing machine. His right arm gone he had to decide for the future. He determined that he would have an education, so he entered the local public school and got his first lesson in English grammar at 21 years of age. Handicapped by the lack of an early education, and with health oftentimes undermined by close application to his studies, the story of the

next few years of his life is one of a struggle which was finally clothed with success only be cause of the doctor's invincible determination. He graduated from Victoria College, Cobourg, in 1868. From then on his career may be divided as follows: One year in the county academy in Stanstead Village, Que.; three and one-half years as teacher in the Cobourg Collegiate Institute; six and one-half years as head master of the Brantford High School and Collegiate Institute; twenty-five years as president of the Ontario Agricultural College, and ten years a member of the Board of Railway Commissioners for Canada, till ruled out by the 75-year age limit.

It was as President of the Ontario Agricultural College that Dr. Mills did his greatest work. He found the college a small and unimportant institution. He made it one of the greatest of its kind in the world. Nearly everything worth while that has been undertaken by the Dominion or the different provinces, in the way of agricultural education or experimentation, was first done at Guelph during the regime of Dr. Mills. Further, it appears that the principal, president or dean of nearly every agricultural college in the Dominion is one of President Mills' pupils, and through them the influence of his great personality is still working for the advancement of Canadian agriculture.

Dr. Mills himself is still with us, a hale and hearty old man. Because he is still with us, Farm and Dairy is all the more pleased to add this expression of our appreciation of his work to that of Mr. Ingram.

The Hog Production Campaign M PETENGS are now being held throughout rural Ontario in the interest of greater pork production. Similar meetings, we presume, are now in progress in the other Canadian provinces. Prospects are, that the whole pork-producing business, and more particularly the marketing end, will get the greatest overhauling in the history of the trade in Canada. Questions will be asked, many of them embarrassing to those who desire the immediate success of the campaign, and these questions must be answered satisfactorily before there will be any nation-wide response to the appeals of the Food Controller.

Nor does this mean that farmers are unwilling to produce. Farm and Dairy speaks for the farmers of Canada in stating that no class of the community are willing to make greater sacrifices on behalf of national security than the farmers Eighty per cent. dividends are not to be thought of, in the producing end of the pork business. Farmers are willing to work without even a five per cent. dividend on their capital investment, and the majority of them are doing it. They would like some assurance, however, that the market will return to them the cost of production, including interest and labor charges. This, the general situation, would seem to guarantee. The hog shortage is world-wide and just in proportion as the hog population off Europe decreases, will their demand for our products increase. On this side of the water, the profits of packers are being controlled. The buying of meat will be done through one commission representing the Allies. And, more important still, the United States Food Administration has practically promised a market value of \$15.50 a hundred weight.

Thousands of farmers will be willing to accept these conditions as satisfactory assurance of the future of the pork market; these are the farmers who can afford to undertake the risk involved. Another equally great army of farmers, however, are working under heavy indebtedness and they cannot afford to take a greater risk than is normal in their business. To reach this class, and they are no less loyal than the others, a guaranteed minimum price will alone be generally effective.

6 DON'T see just why it should be necessary to make so much noise. people to buy Victory Bonds," a Toronto business man remarked to one of the editors of Farm and Dairy a couple of days ago. "To me it seems that self-interest alone, would be sufficient to insure the complete success of the issue. Personally, I do not know of a better investment. It combines the best of security with a good interest rate."

We quite agree with our friend; the conditions of the Victory Loan should appeal to every man with \$50 or more drawing three per cent. Interest in the savings bank. But people have to be educated to an appreciation of the value of even such good things as Victory Bonds; for instance, how many people really understand the food value of dairy products? One is as self-evident as the other, but both have to be understood to be appreciated.

But we don't like to talk of Victory Bonds as an investment, even though the prospects of over five and one-half per cent. do give us a comfortable feeling when we are buying them. It is our patriotic duty to make the issue a success, as on its success depends Canada's ability to stay in the war with credit to herself, and to tender to Britain a certain measure of much needed financial aid.

A special appeal is being made to Canadian farmers. Our investment in bonds as individuals will not be large, perhaps one hundred dollars, perhaps one thousand dollars, and, in exceptional cases, five thousand dollars. But be our bond purchases big or little, if we all do our part the aggregate will be large. Farm and Dairy wants to see this loan greatly over-subscribed. We know that the farmers of Canada will do their part in piling up the total.

THE Food Administration of the United States 1918 of 33 per cent., as compared with the production of this year. A nation-wide advertising campaign will be conducted. As in Canada every farmer will be urged to keep an additional sow and raise a couple more litters than he usually does. The Food Controller realizes that the farmers have little cause for confide. e in the stability of the market. Accordingly the administration has announced that, "the prices so far as we can effect them will not go below \$15.50 her cwt, for the average of the packer's droves on the Chicago market, until further notice."

This does not mean that the United States administration is fixing the price of hogs at \$15.50. Congress alone has the power to fix prices. The administration, however, has the power to buy hogs, and it is anticipated that if the market drops below \$15.50, the food administration will buy up a sufficient number of hogs to re-establish prices. The administration is working on the basis of thirteen bushels of corn as equivalent to one hundred pounds of pork. Were the price of corn to advance unduly, hog feeders in the corn belt might lose a little by continuing to feed hogs, but they have the administration's guarantee that their losses would be slight in any case.

With this guarantee behind them the United States farmer has more cause for confidence in the future of the hog market than has the Canadian farmer. True, as long as the United States market is left open to our hogs, as at present, our prices will be on a parity with theirs, as the hogs exported for sale at Buffalo and Chicago would fix the price on all hogs slaughtered in Canada. We would feel more independent, however, did the stability of our market rests on some action of our own administration. Actual price fixing may not be necessary or desirable.

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An International Live Stock Show for Canada

The Ambitious Project of the Hamilton Board of Trade

C ANADA has many excellent fall stitution at Guelph, something which fairs and a few good winter Guelph could not handle because of fairs. As yet Canada lacks a lack of accommodation. Plans have real international live stock, dairy been advanced to such a stage that a

Issues and the second s of Ontario Live Stock Enterests eeiling of out whose cooperation the moter would be foredomed to failure, the Board of Trace held a banquet in the Royal Cennaught Hotel to which they invited representative breeders and exhibitors. Between 100 and 200 breeders responded, representing all lines of the breeders' industry. The dairy interests were strongly represented and there were a goodly numbered and there were a goodly number of the strongly represented and there were a goodly number of the strongly represented and there were a goodly number of the strongly represented and there were a goodly number of the strongly represented and there were a goodly number of the strongly represented and there was an open to give an opportunity to express themselves, and the general feeling seemed to be that there was an opening for to be that there was an opening for a real, big, international winter fair a rea, org, international winter fair in Canada, and that if Hamilton would provide the accommodation the city could count on the support of the exhibitors and breeders of the land. Mr. Martin, of the Board of Trade, who presided, was careful to empha-

who presided, was careful to empha-size that in launching the new project they were not guilty of any feeling of enmity toward the neighboring city of Guelph. What they were thinking of was something bigger than the in-

AD TALK

MR. BREEDER:

—WHAT IS YOUR HERD WORTH?

—WHAT PROFIT DOES IT BRING

YOU EVERY YEAR?

—ARE YOU A DISINESS MAN?

—DO YOU ADVERTISE?

—DO YOU ADVERTISE?
You are saying as you read this:
"What might that fellow be driving at?"
And we'll answer you frankly—we're
driving at you.
I answer you frankly—we're
driving at you.
I advertise, because we
know in our own minds that you never
we'll realize the greatest possible finan"Elal success from your breeding operations until you do. We believe you are
dente when you chose they serve
stock to do business with. As a business
man we want you to realize the value
of advertising. You cannot help doing it
spleuds success you and see the cognessed to the complete of the complete of your fellow-breeders because of advertising.

spicuous success being attained by some live at your fellow-breeders because of ad. O. Bu veriling.

The property of the prope

site has been selected with excellent railroad and radial facilities and preliminary plans have been drafted for the construction of a judging amphi theatre and ample accommodation for exhibits. He was careful, too, to em-phasize that an immediate realization of their plans is not expected. There of their plans is not expected. There will not be an international live stock show at Hamilton either next year or the year after. The first fair, in all probability, will not be held until after the war in any case. In fact, the banquet last week was almost in the nature of a "feeler" initial steps that the short of the state o Hamilton Board of Trade. This committee will perfect arrangements to bring the question of such a fair at Hamilton before the annual meetings of the Live Stock Associations in February.

Addresses and Opinions.

J. A. Ruddick, Dominion Dairy Com J. A. Ruddlek, Dominon Dairy Com-missioner, made the announcement that the total value of the industry this year will be \$200,000,000 and ex-pressed his opinion that such a show as was proposed for Hamilton would be of great value to the industry. He, and Prof. H. H. Dean who followed him, emphasized the superior nutri-tive value of dairy products. "I know of no one thing that will reach the people like a good exhibition," said Prof. Dean, in reference to the ad-visability of establishing an international fair

Mr. John Gardhouse was at a dis-

visability of establishing an international fair.

Mr. John Gardhouse was at a disadvantage in that he is a director of both the Canadian National and Guelph fairs. He admitted, however, that they did not have the accommodate and the commodate and the commodate and commodate all comes from Canada and across the line. He was favorable to the Hamilton project. Mr. J. E. Brethour, of Burford, assured the Board of Trade that if some good city was prepared to give the accommodation the breeders would back it to the life of the commodation of the warmed the Board that the warmed the some good city was prepared to give the accommodation. He warmed the some fail to the life of the warmed the some fail to the life of the warmed the some fail of the cooperation of the abeep men. H. F. Balley, Deputy Minister of Agriculture, believes there is room for an international live stock show in Canada and naively added that Hamilton and many things to recommend it as the either such as sow. J. F. Bartin, "The Poultry King," put the strongly one of "Category E." and live stock show in the properties of the some fair was opened. Mr. John McKee, of D. Bull promised that the Brampton Jerseys would be on hand when the fair was opened. Mr. John McKee, of Norwich, was certain that the Ayreshires would be there also. Finally Mr. H. M. Robinson, of Toronto, moved that "this meeting approve of the an organization." The motion was acconded by D. O. Bull, carried unanlowesly, and the following committee appointed—John Guardhouse. John McKee, J. E. Brethour, D. C. Platt, Harry Petit, John Martin, D. D. Bull, H. M. Robinson, H. D. Smith, and D. B. Wood.

The committee met for a few minutes after the general meeting had the second and the second the committee of the properties would be committee the properties would be there also. Finally Mr. H. M. Robinson, H. D. Smith, and D. B. Wood.

Wood.

The committee met for a few minutes after the general meeting had adjourned and further action will be deferred until the live stock associations of Canada have had an opportunity to discuss the project when they assemble in Toronto, February sect.

When The Factory Closes

In a tew weeks zores of the Cheese and Butter Factories over Ontario and Quebee will be closing for the season. At that time hundreds of the patrons of the

CREAM WANTED

We are in the market for Cream, both for churning and table use. Our guarantee assures you of:

HIGHEST PRICES ACCURATE RECORDS, AND SATISFACTION.

ALL EXPRESS CHARGES ARE PAID AND CANS SUPPLIED.

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If "Pige is Pige." it don't, necessarily follow that cows are just cows.

Own is the product of "calf," plus feed and attention. A calf which gets
to wis the product of "calf," plus feed and attention. A calf which gets
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VALLEY CREAMERY OF OTTAWA, LTD., 319 Sparks St., Ottawa, Ont.

CREAM WANTED

We want your cream for Buttermaking purposes. We buy by percentage of butter fat, and give a test of each individual shipment. Supply cans for shipping, and pay express from your nearest shipping station within 200 miles of Toronto or Presentt

Our Prescott Branch will take care of all Eastern shippers. For further information write either Toronto or Prescott.

T. EATON COMITED

EASTERN ONTARIO District Meetings for 1917

Speakers: MR. G. G. PUBLOW, Chief Dairy Inspector for East-ern Ontario: MR. E. S. ARCHIBALD, Dominion Animal Husband-man, Central Experimental Farms, Ottawa; ALSO LOCAL DAIRY INSPECTORS AND DISTRICT REPRESENTATIVES.

County.	Place	of	Meetings.	Date.
Ontario	Dungfor	4		
Peterhore	Weater	u .	*********************	Nov. 20
Monthsonback	***** W GSCWO	og	**********	Nov. 21
Northumberland	Campbe	llfo	rd	Nov. 22
North Hastings	Queensb	010	******************	Nov. 23
				Nov. 24
Frince Edward	Picton			Nov. 27
Lennox and Addingto	Odessa			Nov. 28
Frontenac	Sunbury			Nov. 29
Leeds.	Elgin	35	********************	
Lanark	Almonto		*******************	
Renfrew	Avnavlos	50	********************	Dec. 4
Dusnall			***************************************	Dec. 5
Chuleton	Russell		**********	Dec. 6
Carreton	Richmon	ICL.	************************	Dec. 7
Grenville	Kemptv	lle	***************************************	Dec. 8
Prescott	Vankleel	k I	Hill Hill	Dec. 11
Glengary	Alexand	rin.		Dec. 12
Stormont	Moulinet	20		Dec. 13
Dundas	Williams	uds	PSZ	Dec. 14
			de lessesses de les	Parent 14

EASTERN ONTARIO

T. A. THOMPSON, SECY., ALMONTE, ONT.



ATOR love thy life, nor hate; but what thou ivest, live well; how long or short permit to heaven .- Milton

The Heart of the Desert

glance.

By Honore Willsie

Copyright by Frederick A. Stokes Co mpany "Oh, never mind that!" she said.
"But if you will go to the Newman ranch-house for me and ask them to send the buckboard I'll be very grate-

CHAPTER I.

The Valley of the Pecos.

HODA hobbled through the sand to the nearest rock. On this she sank with a groan, clasped her slender foot with both hands and

looked about her helplessly.
She felt very small, very much alone. The infinite wastes of yellow desert danced in heat waves against the bronze-blue sky. The girl saw no sign of living thing save a buzzard that swept lazily across the zenith. She turned dizzily from contemplating the vast emptiness about her

to a close scrutiny of her in-jured foot. She drew off her thin satin house slipper pain-fully and dropped it unheedingly into a bunch of yucca that crowded against the lowed. Then she sat in help-less misery, eying her blueveined foot.

In spite of her evident invalidism, one could but wonder why she made so little effort to help herself. She sat droopingly on the rock, gaz-ing from her foot to the far lavender line of the mesas. A tiny, impotent atom of life, she sat as if the eternal why which the desert hurls at one overwhelmed her, deprived her of hope, almost of sensa-There was something of nobility in the steadiness with which she gazed at the

her own helplessness and weakness.

The girl was quite unconscious of the fact that a young man was tramp ing up, the desert behind her. however, had spied the white gown long before Rhoda had sunk to the rock and had laid his course directly for her. He was a tall fellow, stand-ing well over six feet and he swung through the heavy sand with an easy stride that covered distance with astonishing rapidity. As he drew near to perceive Rhoda's head bent above her injured foot, he quickened his pace, swung round the yucca thicket and pulled off his soft felt hat. "Good-morning!" he said. "What's

the matter?"

Rhoda started, hastily covered her foot, and looked up at the tall khaki-clad figure. She never had seen the young man before, but the desert is

"A thing like a little crayfish bit my foot," she answered; "and you don't know how it hurts!" "Ah, but I do!' exclaimed the young

"A scorpion sting! Let me see Rhoda flushed.

Rhoda Tuttle. I just went out for a walk and then—"

Her voice trailed into nothingness and she could only steady her sway-ing body with both hands against the "Huh!" grunted young Cartwell. "I

go on to the house and leave you here in the boiling sun!" Would you mind hurrying?" asked

Rhoda. "Not at all." returned Cartwell He plucked the stocking and slipper

from the yucca and dropped them into his pocket. Then he stopped and lifted Rhoda across his broad chest. This roused her.

"Why, you can't do this!" she cried, struggling to free herself.

Cartwell merely tightened his hold

Cartwell merely digited and swung out at a pace that was half run, half walk.

"Close your eyes so the sun won't hurt them," he said peremptorily.

Dizzily and confusedly, Rhoda dropped her head back on the broad shoul-der and closed her eyes, with a feeling of security that later on was to appall her. Long after she was to recall the confidence of this moment with unbellef and horror. Nor did she dream how many weary days and hours she was one day to pass with this same brazen sky over her, this same broad shoulder under her head.

Cartwell looked down at the deficate face lying against his breast, the soft yellow hair massed against his sleeve. Into his black eyes came a look that was passionately tender,

didn't I warn her! Put her on the couch here in the hall, Kutle. John, tell Li Chung to bring the hot-water bottles. Here, Rhoda dear, drink this!"

For half an hour the three, with Li Chung hovering in the background, worked over the girl. Then as they saw her stupor change to a natural sleep. Katherine gave a sigh that was almost a sob.

"She's all right!" she said. Kut-le, if you hadn't come at that mo-ment!"

Cartwell shook his head. "It might have gone hard with her, she's so delicate. Gee, I'm glad I ran out of tobacco this morning and thought a two-mile tramp across the desert for it worth while!"

The three were on the porch now. The young man in flannels, who had said little but had obeyed orders explicitly eyed Cartwell curiously.

"You're Newman's engineer, aren't you?" he asked. "My name's DeWitt. You've put us all under great obligations, this morning."

Cartwell took the extended hand. "Well, you know," he said carefully,

"a scorpion sting may or may not be serious. People have died of them.

Mrs. Jack here makes no more of them than of a mosquito bite, while Jack goes about like a drunken sailor with one for a day, then forgets it. Miss Tuttle will be all right when she wakes up. I'm off till dinner time, Mrs. Jack. Jack will think I've reverted!"

DeWitt stood for a moment watching the tall, lithe figure watching the tail, lithe figure move through the peach-trees. He was torn by a strange feeling, half of aver-sion, half of charm for the dark young stranger.

"Hold on, Cartwell," he cried. "Fil drive you back in the buckboard."

Katherine Newman, look-ing after the two, raised her eyebrows, shook her head, then smiled and went back to Rhoda.

It was mid-afternoon when Rhoda woke. Katherine was sitting near by with her sewing

"Well!" said Rhoda wonderingly. "I'm all right, af-

Katherine jumped up and took Rhoda's thin little hand joyfully "Indeed

"Indeed you are!" she led. "Thanks to Kut-le!" "Thanks to whom?" asked Rhoda. It was a tall young man. He said

his name was Charley Cartwell."
"Yup!" answered Katherine. "Charley Cartwell! His other name is
Kut-le. He'll be in to dinner with Jack, to-night. Isn't he good-looking, though!"

(Continued on page 24.)



National Service Girls Doing Work Far Removed from School Studies. The girls who went out from our various educational centers the past summer in connection with National Service, did all kinds of work on the farms. The illustration herewith shows one of them scutifing and two using the hoe.

melting distances, something of lifted Rhoda's foot in one slender, pathos in her evident resignation to strong, brown hand. The insten already was badly swollen.

ful. I—I feel dizzy, you know."

"Ge whiz!" exclaimed the young
man. "There's no time for me to run

about the desert if you have a scorp-ion sting in your foot!"

asked Rhoda. Then she added, languidly, "Not that I mind if it is "

The young man gave her a curious

from his pocket, knelt in the sand and

Then he pulled a small case

"Is a scorpion sting dangerous?" ked Rhoda. Then she added,

"Hold tight a minute!" said the young man.

And before Rhoda could protest he had punctured the ged center of the swelling with a little scalpel, had held the cut open and had filled it with a white powder that bit. Then he pulled a clean handkerchief from his pocket and tore it in two. With one half he bound the ankle above the cut tightly. With the other he bandaged the cut Atself.

"Are you a doctor?" asked Rhoda

"Far from it." replied the youn man with a chuckle, tightening the upper bandage until Rhoda's foot was numb. "But I always carry this little outfit with me; rattlers and scorpions are so thick over on the ditch. Somebody's apt to be hurt anytime. I'm Charley Cartwell, Jack Newman's en-

"Oh!" said Rhoda understandingly. "I'm so dizzy I can't see you very well. This is very good of you. Per-haps now you'd go on and get the buckboard. Tell them it's for Rhoda,

and the strong brown hand that sup-ported Rhoda's shoulders trembled. In an incredibly short time he was

entering the peach orchard that sur-rounded the ranch-house. A young man in white flannels jumped from a hammock in which he had been doz-"For heaven's sake!" he exclaimed.

"What does this mean?"

Rhoda was too ill to reply. Cartwell did not slack his giant stride toward the house

"It means," he answered grimly, "that you folks must be crazy to let Miss Tuttle take a walk in clothes like this! She's got a scorpion sting in her foot."

The man in flannels turned pale. He hurried along beside Cartwell, then broke into a run.
"I'll telephone to Gold Rock for the

doctor and tell Mrs. Newman."

He started on ahead.
"Never mind the doctor!" called Cartwell. "I've attended to the sting. Tell Mrs. Jack to have hot water ready. As Cartwell sprang up the porch

As Cartwell spraig up the process steps, Mrs. Newman ran out to meet him. She was a pretty, rosy girl, with brown eyes and curly brown hair. "Rhoda! Kut-le!" she cried. "Why

THE FIRST INSTALMENT

THE FIRST INSTALMENT

THE first invaluent of 'The state of the basen' appears a table listed and we feel sure that many of our readers have been closing forward with increst to its appearance. Just after from a new authoritory and the first bratament of 'The listed was a start that astheription with the rist bratament of 'The listed us to start their astheription with the rist bratament of 'The listed us to start their astheription with the rist bratament of 'The listed us to start their astheription with the rist bratament of 'The listed us to start their astheription with the rist bratament of the listed us t

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THE UPWARD LOOK

Our Responsibility

F we sin we are Thine, knowing Thy power: but we will not sin, knowing we are counted Thire. For to know Thee is perfect right-eousness: yea to know Thy power is the root of immortality.—Wisdom of

Solomon, 15: 2, 3.

The first time that a certain little girl realized not only that she had a funny bone, but also the result of knocking it, she rushed to her mother in fear and pain and anger, too; anger because in some way she held her mother responsible. In telling the story she said it was years before she lost the surprised and aggrieved feeling she had.

To us it seems very strange that the child should ever think her mother accountable. Yet in far more surprising ways do God's children often hold Him accountable for their failures and troubles and trials

God has ordained many fixed laws,

God has ordained many fixed laws, and sad and terrible are the consequences if they are not obeyed.

This is true not only in the physical realm of our being, but also in the mental and the spiritual.

If we are careless of or ill-treat or defile our bodies, terrible results and discussed for the consequences.

diseases follow. If we are careless or neglectful in using and training our mental powers, we blunt the keenness of our intellects.

More important, and saddest of all, are the spiritual results of slighting or neglecting or trifling with God's laws in our spiritual lives. In each of these we are free to enter and continue which way we choose, though God by sure signs shows us which we ought to select and keep. Whichever course we choose, we may know that we have God's infinite power always at our disposal to prevent or change. we ourselves are free agents, and are responsible for our actions and far more accountable, because we have access to this infinite power.-I. H. N.

Should be Put on Rations "Alcombe," Peterboro Co., Ont.

HE office of Food Controller, as I understand it, includes three main aims: (1) Increase of production; (2) decrease in consumption of exportable foodstuffs; (3) suppression of food profiteering.

I would first consider increase in production. The first step in this direction is, of course, the setting on foot of a vigorous production cam-paign by means of literature, special appeals to farmers, producers, etc .and this work seems to have been very thoroughly done. But this is only the preliminary canter, so to speak. The real work of speeding up production consists first in making it possible for people to produce more largely. The overworked, harassed farmer might well have many things made easier for him. I will only mention one thing—the matter of freight charges. The railway companies are for the most part rich, and a reduction in freight charges could surely be made without defrauding the companies of reasonable profits. Then, tou it is certainly part of the Food Con-troller's office to insist that the producer gets a fair profit for his produce A man cannot be expected to produce and to go on producing while he receives in return barely enough to cover his working expenses. The late milk investigation shows how easily our food supply may be imperilled by

poor profits to the producer.

Under the heading of increase in production should be included suppres-

sion of waste. The saying that "mone; saved is money made" is true of food also. Food saved is as good as food produced, and statistics show an immense improvement in our big cities in this respect. Still, enough has not been done, for whereas one person may conscientiously strain every nerve to save every crumb from waste, another may be making only a half-hearted effort or no effort at all. In justice to all, severe penalties should be inflicted for waste of food, as is done in the Old Country.

The second duty of the Food Controller is to see that there is a decrease in consumption of exportable foodstuffs. Here, again, voluntary effort, though good, is not enough. It stands to reason that one man's strict economy may be another man's wild extravagance. It all depends on the revious standard of living. We should be put on rations as regards our staple foods, the foods that we are asked to export to the Allies in as large quantities as possible. Only thus can we do our full share in helping to feed the Allies and defeat the Hun. The details of the rationing would have to be settled with the help of food ex perts, etc., for it is easily understood that all could not be rationed alike man must be fed according to his

The third aim of the Food Controller chould be to suppress food profiteer ing, and this should be one of his most urgent duties. I read some where the other day that it was cer-tainly not the Controller's duty to keep down prices, in fact quite otherwise, for if food were allowed to be cheap, people would eat too much I entirely disagree with this state. ment. It is most certainly his duty to keep prices down within the limits reasonable profit to producers and retailers. As to the danger of people consuming too much food, put ting the nation on rations easily disposes of that difficulty. The duty of keeping prices as low as possible for consumers involves another dutythat of eliminating middlemen wher ever possible. Unnecessary middle-men are the bane of peace times as well as of war times, and now is the government's opportunity to rid the country of a real nuisance.

With regard to profiteering, the Food Controller would likely have his Food Controller would have into hands full if rationing came into force. There would certainly be a greater demand at once for the nonstaple foods, and here would come in the profiteering on the part of producers and manufacturers, unless sternly suppressed. The case for the ssion of profiteering and elimination of middlemen is as strong in matter of non-staple as it is for staple foods, for it is only right that everyone should have a fair chance of supplementing a reduced diet.

I have briefly outlined what seems to me the chief duties and aims of the Food Controller's office. I may add that the man in office probably wishes he were anywhere else than where he is, for his work may be compared with that of woman's in the famous

Man's work is from sun to sun, Hanna's work is never done.

PLUM CONSERVE.

Six quarts plums, 2 pounds seeded raisins, 3 oranges, 1 pound blanched almonds, ½ pound walnut meats, 6 pounds sugar. Cook plums without pounds sugar. Cook plums without water till soft (a double boiler may be used). Pu, through sieve and add sugar, oranges and raisins. (Cut oranges in quarters and slice very thin.) Cook till it jellies and then add nuts, Cook till it jednes and then and thate, well broken up or put through the meat chopper, just before taking conserve from the stove.



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Progress of the Women's Institutes Throughout 1917

Inspirational and Instructive Addresses and Discussions on Patriotic Work-Rural School Improvement-Medical School Inspection-Communicable Diseases, etc.

46 HOLDING the line at home deal of interest, was given by Hon. W. asked to sign them, opposition was unitedly and individually to J. Hanna. He outlined briefly, just not great.

Assist in bringing the present what his department has been doing. The greater part of one of the world-struggle to a successful conclu- The first proposition which presented morning sessions was devoted to an

world-struggle to a successful conclu- The first proposition which presents slon," was the key-note of the Sixteenth itself when Hon. W. J. Hanna assum- Annual Convention of the Central On- ed the duty of Food Controller was tarlo Women's Institute held in To- the fixing of prices. He explained that ronto last week. Every session was it had been impossible to fix the price splendidly attended by women eager of flour, till they had in conjunction to help and be helped. We could not with the United States, fixed the price fail to realize while attending the of wheat. "For the comfort of those daily sessioms, that the delegates pre- who think that everything at home daily seasions, that the delegates pre- who think that everything at noise sent were women who can successfully is all wrong and everything outside and intelligently grapple with the vital all right," said the speaker. "I may problems affecting "the home, the say that the United States feels that school and the state." It was clearly if they can sell bread over there at demonstrated that while patriotic the prices now being paid in Canada, work receives first attention in the they will be doing great things.

Institutes at the present time, other The high prices being paid for milk lines of endeavor are not being were due to reckless bargaining by neglected. Three days were devoted agents of the allied countries with

morning sessions was devoted to an address and discussion of a subject which hitherto has not been dealt with by the Institute. This was the subject of "Communicable Diseases." Major J. G. Fitzgerald of the University of Toronto, was the speaker and sity of l'oronto, was the apearer as spoke to us briefly on the great menace to our country of venereal diseases. "It has been practically impossible until within the last five years," said the speaker, "to make it generally known how widespread these diseases are. It has also been impossible to arouse public apinion to the point where any effective measures might be taken to eliminate them. It is the belief of those who have studied this problem that the most important single factor in solv-ing the problem is education."

Major Fitzgerald believes there are

four methods of attack in combatting this disease. One is to lay more stress on social activities of a high standsecond, the education of both ard: second, the education of both civilians and soldiers in regard to these diseases; third, preventive measures and fourth, medical care. Dr. Helen MacMurchy also made some forceful remarks, supporting Major Fitzgerald's contentions. Dr. Major Fitzgerald's contentions. Or.
Margaret Patterson expressed the
Lope that all delegates would get in
touch with the Provincial Department of Health and secure literature
on this subject which would prove helnful

Mr. H. H. Burgess, Public School Inspector for Grey county, addressed the delegates on "What the Institutes can do to help in the public schools One evil which he spoke of as "the curse of the rural school" was irregular attendance. Boys on the farm were often kept out of school for the most triffing causes, with the result that girls predominate in the higher classes and in the high schools, girls become better equipped for work than do the boys, and, finally, these girls will not marry these undereducated boys from their own locality and the home life of the country suffers accordingly.

fers accordingly.

Unsanitary conditions of rural schools and outbuildings was also dwelt upon. Mr. Burgess is of the opinion that the Women's Institute could do much to remedy these evils. He urged the women to attend the annual school meetings. Mrs. Buchanan of Ravenna, and others took part in the discussion and urged the women to take advantage of their opportunity and put a woman on the school board.

In calling upon Mr. Geo. A. Putnam, In calling upon Mr. Geo. A. Putham, Superintendent of Women's Institutes, for his report, Mrs. W. R. Browne, of Cherry Valley, who was presiding, spoke of him as "the only man in the province who can manage 30,000 women." On account of every session being so fully taken up. Mr. Putnam's report was "boiled down" to the small-est possible degree. Notwithstanding this fact the report contained inspira-tion for continued effort in the good work which the branches are doing. Up to last year a total of \$500,000 in money and goods has been raised by the Institute since the war began. Mr. Putnam anticipated that by the end of the present year this sum would be increased to \$750,000. He also pointed out that other lines of en-deavor have not been neglected.

The Resolutions

The report of the Resolutions Committee was brought in by Dr. Mary McKenle Smith of Gravenhurst and was unanimously adopted. The list of resolutions was a lengthy one and the glist of them were as follows:

1. That the convention put on record our confidence in Mr. Hanna, our Food Controller, and piedge the support of the institutes in his under-

2. Advocated education regarding the dangers of venereal diseases and the passing of legislation which would make it compulsory for infected per-sons to undergo treatment until cured. Also a request that the dovern-ment place venereal diseases on the list of communicable diseases under the Public Health Act.

the Public Heatin Act.

3. A decision to petition the Government to prohibit the use of cane sugar for the manufacture of candy and the sale of lec-cream as a luxury.

4. That the Womer's Institute interest itself in the matter of supervised playgrounds and where the e is no common recreation centre, petition the proper authorities for permission to use the fair grounds for this

purpose.

5. That women's labor be extended as far as may be needed and that they receive equal pay for equal work.

6. In view of the fact that prices of all staple and necessary foods are increasing to an alarming extent, request the Government to take action in order that none of our children be unfed, underfed or lil-fed.

7. The good work of the Women's College, Hospital and Dispensary, roronto, was appreciated and members urged to support this patifolic

Institution.

8. That the Women's institute branch be given necessary funds to extend work of Medical School Inspection.

The services of such speakers as Sir William Hearst, Hon. W. J. Hanna, Dr. G. Creeiman, Mrs. Muldrew of the Food Controller's Office, and others who se ably assisted on the State of the State of

to the Convention this year instead of milk condenseries, and also the everthe customary two. In this way more time could be devoted to various lines of work. Taking everything as a whole this convention was one of the best ever held. As Miss Ethel Chapman, who addressed us at one of the sessions said: "I think you will all agree with me that never before has so little time been taken up with superficialities and so many subjects discussed in the time allotted."

The address of welcome which was to have been delivered by Mrs. F. H. Torrington, was read-by Mrs. Rhys Fairbairn, owing to the absence of Mrs. Torrington through bereavement. In this address, high appreciation was shown of the way in which the Institutes have kept up their work along with their war efforts. "You are bringing the women of the country districts together in a great sisterhood," said the speaker. "You are broadening their out-look and enriching their lives and so making your influence felt in the home which is the very heart of the nation." The address also rethe nation." The address also re-ferred to the power in the hands of the women who have been enfranchised. They were urged to think nationally, and with singleness of purpose to put aside all party and personal prejudice in the one great object of the hourto win the war. The important aid the women can render in connection with the Victory War Loan was also dwell

increasing demand for this commodity overseas. Sugar scarcity is due to 100,000 tons being taken from the and the quantity allotted Canada United States to supply the shortage in Great Britain. The submarining of large quantities of sugar coming from Java to Great Britain had caused this shortage. Not until December or early January when the new crop comes in, will this scarcity be over-

Beef, fish and bacon were also dis cussed. Mr. Hanna appealed to his audience to assist in hog production, by feeding hogs themselves if neces sary. In the discussion which followed this address one delegate asked Mr. Hanna "How in the name of com-mon sense are we going to produce more hogs if our boys are going to be drafted from the farms." Mr. Hanna replied that no one would be taken from the farms unless absolutely

Mrs. Geo. Brodie of Newmarket, led discussion on the success of the pledge cards. In her opening marks she emphatically stated that she was going to feed hogs this sum-mer. "How much worse is it for a woman to feed pigs than chickens," she said. "Our boys don't need chickens and they do need pork." With regard to the pledge cards, Mrs. With regard to the pledge cards, Mrs.

Brodie and others who took part in tario, who presided at one of the seem the scheme was understood by those (Continued on page 25.) An address which created a great the scheme was understood by those

bring pressure to bear upon the government, if possible, to pro-hibit all brewing of liquors, thus sav-ing the grain used in that way for feeding the extra pigs and beef cattle, needed so much for food for our soldiers. There are illicit distilleries throughout the country using good grain in the manufacture of intoxicants. These should be sharply dealt

If I were Food Controller I would look into conditions at the big stock markets, and probibit the feeding of wheat-the best of wheat-to the pigs that are shipped there, waiting to be taken to the abattoirs. Thousands of bushels of the best wheat is fed to hogs at Toronto Stock Yards annually, and it is an unnecessary waste of any, and it is an unnecessary waste or food stuffs. The hogs could be taken at once to the abattors, or fed on other grain or chopped grains, and save this great waste.

If I were Food Controller I would look into conditions at the several military camps, and see if the waste of foods there could not be checked. I have heard from different sources of the great waste of food at these camps, loaves of bread, chunks of meat, etc., being thrown into the swill barrels and hauled away by farmers for their pigs.

The waste is not in our farm kit-chens, as I know them. Careful use of every scrap is made with us, and we scrimp and practice self-denial in the use of food, in order that our soldiers may have plenty to strengthen them for the conflict. And yet in ouw camps they waste good food needlessly

An old pioneer-two generations ago—insisted that his wife bake bread while she had a whole baking on hand. That is, that there should always be one baking ahead. With him it was a case of miserly economy, as It was a case of miserly economy, as the stale bread lasted much longer than new bread. Recently a girl re-turned a loaf of bread to the grocer, complaining that it was stale. The grocer tested it by pressing his thumb into the loaf. The loaf was still fresh enough to pass for fresh sthe fresh enough to pass for fresh bread. These represent two extremes, and yet we know that a loaf of fresh bread will be eaten up quickwhile a loaf two or three days old will last much longer. Also the stale loaf will give more nutriment, be more easly digested, and prove more filling than the new bread.

I do not state that if I were Food Controller I would advocate this prac-tice, but should this suggestion come to the notice of Food Controller Hanna he might probably ask us not to eat bread till it is at least 48 hours old. The bread will certainly last longer, give more real satisfaction, and the same amount of flour will go farther.

If I were Food Controller I would make a point of substituting potatoes as a flour saver. They are plentiful, the price is within reach of all, and they are a good satisfier.

If I were Food Controller I would If I were Food Controller I would either not slint farmers of beef and bacon (the only meat products which are obtainable and which we produce in increasing amount), or would see to it that fish, mutton and lamb are obtainable by the farmers at moderate prices and in sufficient quantity. The worker of the soil has an appetite that demands meat, and he requires it to keep up meat, and he requires it to keep up his strength in order that he may pro-duce more wheat, beef and bacon to send overseas. If the government keeps on taking our men from the farms there will soon be no surplus food to send overseas.

Several Good Suggestions Offered have a busy time trying to convince I am not Food Controller for the Dosupply of the vast family of a nation people that they can change their minion, as it is difficult enough to be like Canada has the writer's deepest way of living in the interests of na. Food Controller for one family and the sympathy.

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Can You Name the Most Popular Movie Stars?

Probably you know the names of most of the fam-ous players but just to refresh your memory we mention below the names of a few of the most pop-

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A CCORDING to our opinion it is sometime since we have had such attableing shown this year. Those of us who invosted in a new cost last lease, on the contract of the contract

to have the two match, or at any rate harmonize.

Antonizes for Misses' and Small Wonder Third is very popular style of costume. It borders on the loose-fitting effect, but is not very pronounced. The style of both is one that is proving quite style of both is one that is proving quite with buttons, also the nicely-shaped collar. Three sizes: 16, 18 and 20 years. If 974—Child's Outdoor Set—This outfle. Frost before many more weeks have elapsed. Does it not look coney and just the thing for the small boy or getf to don when playing out in the snow? In many occasions. Four sizes: 2, 3, 4 and 5 years.

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Canada's Victory

\$150,000,000. 5\% Gold Bonds

Bearing interest from December 1st, 1917, and offered in three maturities, the choice of which is optional with the subscriber, as follows:

5 year Bonds due December 1st, 1922 10 year Bonds due December 1st, 1927 20 year Bonds due December 1st, 1937

This Loan is authorized under Act of the Parliament of Canada, and both principal and interest are a charge upon the Consolidated Revenue Fund.

The amount of this issue is \$150,000,000, exclusive of the amount (if any) paid for by the surrender of bonds of previous The Minister of Finance, however, reserves the right to allot the whole or any part of the amount subscribed in excess

The Proceeds of this Loan will be used for War purposes only, and will be spent wholly in Canada. Principal and Interest payable in Gold Denominations; \$50, \$100, \$500 and \$1,000

Subscriptions must be in sums of \$50 or multiples thereof.

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

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

Bearer or Registered Bonds

Bonds may be registered as to principal or as to principal and interest.

Scrip certificates, non-negotiable, or payable to bearer, in accordance with the choice of the applicant for registered or in full, and in the beaucht of the control of the applicant for registered or in full, and in the control of the payable to bearer bends, when these scrip certificates have been paid in full, and in such a control of the payable to the bear keeping the money, they may be exchanged for bonds, when prepared, with in accordance with the application.

Delivery of interim certificates and of definitive bonds will be made through the Chartered Banks.

Benery of interim certacates and of semantice boths with the made through the Constitute Daniel and may be registered as to principal only. Fully registered bonds, the interest on which is paid direct to the owner by Government cheque, will be issued in denominations of \$1,000, \$5,000 or any authorized multiple of \$5,000.

Subject to the payment of 25 cents for each new bond issued, holders of fully registered bonds without coupons, will have the right to convert into bonds of the denomination of \$1,000 with coupons, and holders of bonds with coupons will have the right of convert into fully registered bonds of authorized denominations without coupons, at any time, on application to the Minister

Surrender of Bonds

Holders of Dominion of Canada Debenture Stock, due October 1st, 1919, and of bonds of the three preceding Dominion of Canada War Loan Issues, have the privilege of surrendering their bonds in part payment for subscriptions to bonds of this issue?

Debenture Stock, due October 1st, 1919, at Par and Accrued Interest.

War Loan Bonds, due December 1st, 1920, at 07 1/2 and Accrued Interest.

(The above will be accepted in part payment for bonds of any of the three maturities of this Issue.)

War Loan Bonds, due October 1st, 1931, at 97½ and Accrued Interest.
War Loan Bonds, due Cotober 1st, 1931, at 97½ and Accrued Interest.
War Loan Bonds, due March 1st, 1937, at 96 and Accrued Interest.
(These will be accepted are payment for bonds of the 1937 maturity ONLY of this Issue.)
Bonds of the various maturities of this issue will, in the event of future issues of like maturity, or longer, made by the of subscription to such issues made abread, be accepted at par and accrued interest, as the equivalent of cash for the purpose

Issue Price Par

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

Payment to be made as follows:

10% on December 1st, 1917 20% on March 1st, 1918 10% on January 2nd, 1918 20% on April 1st, 1918 20% on February 1st, 1918 20% on May 1st, 1918 A full half year's interest will be paid on 1st June, 1918

The Bonds therefore give a net interest yield to the investor of about:

5.61% on the 20 year Bonds 5.68% on the 10 year Bonds 5.81% on the 5 year Bonds

All payments are to be made to a Chartered Bank for the credit of the Minister of Finance. Failure to pay any instalby a deposit of 10% of the amount subscribed, must be forwarded through the medium of a Chartered Bank. Any branch in Canada of any Chartered Bank will forward subscriptions and issue provisional receipts.

In case of partial allotments the surplus deposit will be applied toward payment of the amount due on the January

Subscriptions may be paid in full on January 2nd, 1918, or on any instalment due date thereafter under discount at the rate of 654% per annum. Under this provision payments of the balance of subscriptions may be made as follows:

If paid on January 2nd, 1918, at the rate of 89.0798 per \$100. If paid on February 1st, 1918, at the rate of 79.46959 per \$100. If paid on March 1st, 1918, at the rate of 89.72274 per \$100. If paid on April 1st, 1918, at the rate of 30.00050 per \$100.

Forms of application may be obtained from any branch in Canada of any Chartered Bank, or from any Victory Loan tee, or member thereof.

The books of the Loan will be kept at the Department of Finance, Ottawa.

Application will be made in due course for the listing of this issue on the Montreal and Toronto Stock Exchanges.

Subscription Lists will close on or before D cember 1st. 1917. DEPARTMENT OF FINANCE,
OTTAWA, November 12th, 1917.

CALDWELLS

Is Your Meal Ration Balanced?

If it is not, you cannot possibly get the maximum amount of milk that your herd is capable of producing. We are prepared to supply you with a Dairy Meal that is balanced, high in protein and easily digested. It gives a maximum flow of milk and at the same time improves the condition of the cows. Give it a trial! Order some from your feedman and insist on it being CALD-WELL'S.

The Caldwell Feed & Cereal Co.

ONTARIO



Makers also of Molasses Dairy Meal, Cream Calf Meal, Substitute, Hog Feed, Molasses Horse Feed and Poultry Feeds of all

Oil Cake is

better than

Tattening Hogs

GUARANTEED

Easier Than Shaving

The Duplex Automatic hair cutter

Price to introduce only \$1.00

Corn for

STANDARD FEEDS

Any farmer or dairyman ought to just about double his profits, by carrying out the hints given in our book about

TITEN FEET

It talls how others are getting more milk from their cows—more profit from their feeding—and at the same time, are reducing their feed bills.

Write for a copy-sent post paid on

request. THE CANADA STARCH CO., LIMITED

TORONTO
Works at Cardinal, Brantford, Fort William 065

Cut Your Own Hair

PATENT PENDING

YOUR LAST CHANCE AT \$1.00

This Ad. Won't Appear Again. Send Today.

COSTS \$ 1.00
Sectional view showing interior of hair culter, showing interior and are mutter after the use the DUPLEX AUTOMATIC

The Heart of the Desert

Rhoda sat erect, with flaming face You mean that he's an Indian and I let him carry me! Katherine!" The mischief in Katherine's brown

eyes grew to laughter.

"I thought that would get a rise out of you, you blessed tenderfoot! What difference does that make? He res cued you from a serious predicament; and more than that he's a fine fellow and one of Jack's dearest friends."

Rhoda's delicate face still was flushed.

"An Indian! What did John DeWitt "Oh!" said Katherine, carelessly,

"he offered to drive Kutle back to the ditch, and he hasn't got home yet. They probably will be very congenial, John being a Harvard man and Kutle a Yale!"

Rhoda's curved lips opened, then closed again. The look of interest

closed again. The look of died from her eyes.
"Well," she said in her usual weary voice, "I think I'll have a glass of the porch. You see I'm being all the trouble to you, Katherine, that I said I would be."

I would be."
"Trouble!" protested Katherine.
"Why. Rhoda Tuttle, if I could just see you with the old light in your eyes. I'd wait on you by inches on my knees. I would, honestly."

Rhoda withbod a this check would.

Rhoda rubbed a thin cheek against e warm hand that still held hers, and the mute thanks said more than

The veranda of the Newman ranchhouse was deep and shaded by green From the hammock where she a delicate figure amid the vivid cushions, Rhoda looked upon a landscape that combined all the perfection of verdure of a northern park with a sense of illimitable breathing space that should have been fairly intoxicat ing to her. Two huge cottonwoods stood beside the porch. Beyond the lawn lay the peach orchard which vied with the bordering alfalfa fields in fragrance and color. The yellow-brown of tree-trunks and the white of fragrance and color. grazing sheep scainst vegetation of richest green were astonishing colors for Rhoda to find in the desert to which she had been exiled, and in the few days since her arrival she had not ceased to wonder at them.

DeWitt crossed the orchard, quick

ening his pace when he saw Rhoda. He was a tall fellow, blond and well built, though not so tall and lithe as

bullt, though not so tall and lithe as Cartwell. His dark blue eyes were disconcertingly clear and direct. "Well, Rhoda dear!" he exclaimed as he hurried up the steps. "It you didn't scare this family! How are you feelies you."

didn't scare this you feeling now?"
you feeling now?"
"I'm all right," Rhoda answered anguidly. "It was good of you all to languidly. "It was good of you all to languidly. "It was good of you all to languidly." bother so about me. been doing all day?"

been doing all day?"
"Over at the ditch with Jack and
Cartwell. Say, Rhoda, the young fellow who rescued you is an Indian!"
DeWitt dropped into a big chair by
the hammock. He watched the girl
hopefully. It was such a long, long
time since she had been interested in
swything." Dut there. But there was no respon-

anything: But there was no respon-sive light in the deep gray eyes. "Katherine told me," she raplied. Then, after a pause, as if she felt it her duty to make conversation. "Did you like him?"

Continued from page 18.)

"I don't know. I was so dizzy I Rhoda. I don't like nizgers or Chinscouldn't see him. He seemed very men or Indians when they get over to dark. Is he a Spaniard?"
"Spaniard! No!" Katherine was "Spaniard! No!" Katherine was rateful enough on their own watching Rhoda's languid eyes half side. However, this Cartwell chap mischievously. "He's part Mescallero, part Pueblo, part Mohave!"

[1] And't know that I'm as grafeful.

"I don't know that I'm as grateful for that as I ought to be," murmured been an easy solution."

Her words

Her words stung DeWitt. He started forward and seized the small thin hands in both his own.

"Rhods, don't!" he pleaded huskfy.
"On't give up! Don't lose hope! It I could only give you some of my strength! Don't talk so it just about breaks my heart to hear you."

"Eve a since Phods 4th and snawer.

For a time, Rhoda did not answer. She lay wearily watching the eager, pleading face so close to her own. Even in her illness Rhoda was very lovely. The burnished yellow hair softened the thinness of the face that softened the thinness of the face that was like delicately chisled marble. The finely cut nose, the exquisite drooping mouth, the little square chin with its cleft, and the great gray eyes lost none of their beauty through her

weakness.

"John," she said at last, "why won't you look the truth in the face? I never shall get well. I shall die bere instead of in New York, that's re? to only tortures you. And truly it's your realness to me, somehow, I shan't mind golng, much."

DeWill's group face, worked but ide.

DeWitt's strong face worked but ais voice was steady.

"I never shall leave you," he said in never shall leave you," he said simply. "You are the one woman in-the world for me. I'd marry you to-morrow if you'd let me." Rhoda shook her head.

"You ought to go away, John, and "You ought to go away, John forget me. You ought to go marry some fine girl and have a home and a family. I'm just a sick wreck."
"Rhoda," and DeWitt's earnest

voice was convincing, "Rhoda, I'd earth for you, just sick you. Why, can't you see that your helplessness and dependence only deepen your hold Who wants a thing as fragile and as lovely as you are to make a home! You pay your way in life just Beauty and sweetness like ours is enough for a woman to give. don't want you to do a thing in the world. Just give yourself to me and let me take care of you. Rhoda, dear, dear heart!"

"I can't marry unless I'm well," insisted Rhoda, "and I never shall be well again. I know that you all thought it was for the best, bringing me down to the desert, but just as soon as I can manage it without hurt-ing Katherine's and Jack's feelings too much, I'm going back to New York. If you only knew how the big emptiness of this desert country adds to my depression!"

to my depression."
"If you go back to New York," persisted DeWitt. "you are going back
as my wife. I'm sick of seeing you
dependent on hired care. Why, Rhoda dependent on nied care. Why, reside dear, is it nothing to you that, when you haven't a near relative in the world. I would stadly die for you?" "Oh!" cried the girl, tears of weak-ness and pity in her eyes, "you know.

that it means everything to me! But I can't marry any one. All I want is just to crawl away and die in peace. just to crawl away and die in peace. I wish that that indian hadn't come upon me so promptly. I'd just have gone to sheen and never wakened."
"Don't! Don't!" cried DeWitt. "I shall pick you up and hold you against all the world, if you say that!"

(Continued next week.)

stitute w minded Victory was a pa financial point. sioner of ment of might be ers of (religious have coo Medica given a enumera

Novem

the past to Mr. P only thro plishmen told us n had com ticular w in the R drove he that she and on o until two terrible their des in an ox of them were hel and out fants, in for them family w Smith he boy who low, to h dren. Th that some dren, but impossibl. to teach

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Dr. Set sted in the best such insp have bee this year ed and 7 tive teetl said that It would per cent. years.

properly Dr. J. I mentary tario, gav address of try Boys he enume sary in o boys and

You do not need any experience or practice to use the DUPLEX AUTOMATIC MATE GUTTER. To you all ready for instant use, and five imputes after your cut have your hair cut better than it was ever cut. No clippers are needed with the DUPLEX. If ma slong as you work completely. It cut a free from the front hair found and the DUPLEX. The same and the same and the front hair found and the bullet. The front hair found and the same as for the same and the same as for the front hair found and the same as for the manufactures to pay 12.00 for the front hair found that the front hair found the same as for CASH. Cut it is a few and nearly 160%. Inside of two your work while our present etock lasts we will accept this as we will send you the DUPLEX. The prote took same as for CASH. Cut it out and send it with OXLE cast this as we will send you the DUPLEX AUTOMATIC MAR CUTTER and instant use, potatee paid to any address. Send Today—Tomerrow May B. Teo Late, AGENTS WANTED. DUPLEX MANUFACTURING CO., DEPT. F2, BARRIE, ONT. Farm & Dairy's Advertisers stitute work, such as the use of the ballot, the stamping out of venereal diseases, and the work with the feebleminded. He dwelt particularly on the Victory Loan. He pointed out that it was a particularly good investment for the farmer's wife and daughter, both financially and from a patriotic stand-point. Dr. G. C. Creelman, Commissioner of Agriculture, also presided at one of the sessions. His remarks were on cooperation between the Department of Agriculture and the farmers, and he expressed the hope that there might be established among the farmers of Ontario an organization, non-religious and non-political, which shall have cooperation as its watchword.

Medical Inspection of schools was given a prominent place at the sessions. Dr. Mary McKenzie-Smith enumerated a number of her experiences in this splendid work through the past year. She paid a high tribute to Mr. Putnam, as she claimed it was only through his instrumentality that this work had been possible of accom-plishment. Dr. Mary McKenzie-Smith as her whole heart in this work told us many pathetic instances which had come to her notice. One in par-ticular was cited from her experiences the Rainy River district. drove her from place to place in order that she might examine the children and on one occasion another woman and herself drove from early evening until two o'clock in the morning over terrible roads, before they reached their destination. At seven o'clock the next morning, a woman drove in in an ox cart with six children. Five of them were absolute idiots. They of them were absolute idiots. They were helpless and had to be lifted in were helpies and had to be lifted in and out of the cart, fed like mere in-fants, in fact could not do anything for themselves. The father of this family would not do anything to help his wife, so she came to Dr. McKenzie-Smith herself, bringing along her one smith nerself, bringing along her one boy who was a fairly bright little fel-low, to help her with the other chil-dren. This poor woman was anxious that something he done for her chil-dren, but Dr. McKensie-Smith said they were so defective it would be as successful to feach they are thing. they were so defective it would be as impossible to teach them anything as to teach a chicken. Many cases were cited where untold benefit has been derived by the children through mediderived by the chimes cal inspection at the schools.

cal inspection at the schools.

Mrs. Mackie, of Little Current,
Manitoulin Island, told of their success the past year with medical school inspection. At the Women's Conven-tion in Toronto last year Mrs. Mackie tion in Toronto last year Mrs. Mackle heard Dr. McKenzie-Smith tell of school clinies. She thought the idea a good one, but not very feasible. They decided, however, to give it a trial and had Dr. McKenzie subject of the school of the schoo few of the ambitious women of Little Current decided to go ahead and have a clinic, and it was decidedly successful. We will endeavor to give more details regarding this in a later issue

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ou

of Farm and Dairy.

Dr. Sears, who is especially interested in this work, said: "I consider the best evidence of the necessity for such inspection is the results which have been obtained." Since May of have been obtained." Since May of this year 192 cases have been inspect-ed and 71% have suffered from defec-tive teeth. In speaking of defective teeth, Dr. Mary McKenzie-Smith also said that if she had a willion dollar it. would go to the care of children's teeth. She ber found less than teeth. She has found less than two per cent, of the children whom she has examined up to the are of 14 years, with teeth which have been

properly looked after.

Dr. J. B. Dandeno, Inspector of Ele-Dr. J. B. Dandeno, Inspector of Ele-mentary Agricultura (Da-ses for On-tario, gave a brief but., sry practical address on "The Needs of the Coun-try Boys and Girla." At the outset he enumerated several points neces-sary in order to fill the needs of the boys and girls in the country schools. In the first place it was necessary to have the proper kind of teacher, one with a rural viewpoint. Second, we must have schools suitable for the boys and girls to live in. Third, we must have trustees who know something about school business, medical inspection, etc. Fourth, the women must take a more active part in things pertaining to school life, and this in-cludes the Women's Institute. He strongly advocated that teachers in strongly advocated that teachers in rural schools have an agricultural education and that agriculture be taught to a large extent. The point on which Dr. Dandeno laid special emphasis was "the abominable outdoor closet." "Our country boys and girls," he said, "doserve just as much girts, he said, "deserve just as much as those who live in the city and why shouldn't they have some of the con-veniences enjoyed in the city? Wo-men, it is up to you. Visit the school, and if you can improve this one fi ture, you will be doing untold good

"The Girls in the Institute" was the subject on which Miss E. M. Chapman addressed the delegates. She took up in a very sympathetic and practi-cal way the problem of the girl in the country and what the Institute do to make her life more worth while. Miss Chapman also spoke of the growing necessity which has arisen out of so many of our boys going to fight for our freedom, for the girls on our farms to have training which will enable them to support themselves. enable them to support themselves. She also pointed out the necessity of a girl having money of her own on the firm. There are many girls on the farms who have worked hard to help their fathers and mothers to make their fathers and mothers to make the farm a success and yet they haven't enough money of their own to buy a war bond. The need of fine-women to assure the health of the next generation, especially since so many of our men will be coming home disabled and probably with mental faculties dulled, was touched upon, and physical culture and athletics suggested in connection with the Insti

Mrs. Wilson, of Parkhill, told us something of the success which has been attained by their community canning centre. It is located in the armories and women are there daily helping to can fruits, vegetables, etc. At present they are canning chicken for the boys overseas and have already canned 800 quarts. The chickens are sent in from the whole county of Middlesex. Mrs. Wilson strongly advised many other Institutes taking up this work, not only from a patriotic stand-point, but for the purpose of doing their own individual canning.

their own individual canning. "If you once start to do your canning at one of these centres," she said, "you will never do it at home." Fruit and vegetables can also be secured more cheaply if purchased cooperatively.

A number of other splendid addresses were given, including one by Mrs. Muldrew on the work of the Institutes in Alberta; Mrs. Stobart, who described some of her experiences in Serbia; Captain Charles W. Bishop, who is engaged in Y.M.C.A. work, and others, but our space will not permit. who is engaged in Y.M.C.A. work, and others, but our space will not permit us to deal with these. Very encour-aging reports from several branches were given and we purpose having more to say of these in later issues.

Sensible.

Jones was observed to be paying no attention to his instructor, who was telling a large class in agriculture how to protect plants from frosts, so

the instructor said sharply:

"Jones, tell the class which is the best way to keep March frosts from the playts." the plants.

"Plant them in April, sir," was the ready reply.—Bessemer Monthly.

MONEY TALKS. It has a message for you on page 11 of this issue.

What I Have Learned About Dairy Farming

L. Hamar Parr, Hastings Co., Ont.

HE following are a few of the essentials to be observed if dairy farming is to be carried on in ssful manner:

herd, I have found, is one of the most important points in the production of milk. It is not within the reach of every man's pocket to possess a bred herd, as most farmers would like. provided good judgment and dis cretion are used, a grade herd can in a few years be considerably improved by the use of a pure-bred sire that has a long line of breeding for milk production, and by raising calves only from those cows with good records, both for quantity and quality.

(2) A well cultivated farm to produce those crops so necessary for the dairy stock, as roughage, roots and grain. To a certain extent, of course, these can be replaced by purchased foods, but everyone acquainted with at all well knows that those crops grown on the farm have a value beyond what they contain in the way

of protein, fats and carbohydrates.

(3) Good stabling. To stable a herd cattle through the winter in a successful manner, adequate stabling is of the property of the propert

one must consider each cow individually, and this can only be accomplished by daily recording each cow's milk individually for butter fat. In this way (1) The possession of a clean, good the careful and observant feeder can see at a glance which cows are paysee at a giance which cows are pay-ing their way and which are the boarders and, moreover, is able to feed each cow according to her production and, by keeping an eye on the record and the feed consumed one can see to what extent she will respond and pay for more liberal feeding.

AD TALK

BREEDERS WHO STAY AT THE TOP.

BREEDERS WHO STAY AT THE TOP.

W HILE looking through some Farm

and Dairy issues of several years
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Sons on Farms to be Exempt

UST as we go to press an important statement has been made by General Mewburn, Minister of Militta in the Union Government. Speaking at Dundas, Ort., General Mewburn and: "It was impossible in the operation of the Military Service Act to say all farmers' sons would be exempt, and I don't believe the farmers wanted that. The farmer must understand that if he has three or four bedy and they are not all raising farm produce, they should not all be exempt. Farmers sons who have been in the city for three or four years, or more, working in the city, and never intending to go back to the farm, should not be exempt, but if they are farmers sons who are honestly engaged in the production of foodstuffs, they will be exempt from military service, and if I continue to be Minister of Militia, I will give you my word that if any farmers' sons who are honestly engaged in farm work and in the production of foodstuffs, if they are not exempted by the Tribunals and are called up for military service, I will have them honorably discharged from the Canadian Expeditionary Force, provided they go back to the farm, because it is very important at the present time that we should increase our production of foodstuffs."

The Makers' Corner

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

The Price of Cheese

E DITOR, Farm and Dairy.—In looking over your town looking over your issue of November 8, I see an article referring to a resolution passed at the November 2nd meeting of the Brockville Cheese Board, urging the Gov-ernment and the Imperial Cheese Commission to increase the price of cheese at least four cents a pound. Last spring we farmers were told that it was the British Government that fixed the price of cheese, also that the lack of shipping space had a great deal to do with the price.

New that the shipping season New that the snipping season about done and the farmers' cows are going dry, we are told that the difficulty of financing the cheese market was responsible for the price set and not the British Government. It also states that sales were made at 211/4 c. This is the worst holdup, to my mind, since we have been in the dairy business and if this state of affairs exists next spring, it will see about all the milk going to the condensery, and that means cutting out the hog busi-ness. I think it about time the farmers began to sit up and take notice, for it is hard to tell what the next holdup will be. For my part I don't propose to take \$37 a ton for milk when I can get \$60, as some of the farmers are now doing in this county.

—D. F. Armstrong, Leeds Co., Ont.

Note.—Our correspondent is right in stating that the Brockville Cheese Board demanded an advance of four cents a pound on the price of chees Our latest information is that this advance has been refused as the Canadian Government has nothing to do with the setting of the price of cheese. Early last spring the British authorities fixed the maximum price that British dealers should charge their customers for cheese and that British importers could pay for cheese. Automatically this fixed the price of cheese in Canada. Financing difficulties, on which is based the necessity for the Victory Loan, has not so much to do with the price of cheese as the possibility of paying for cheese in cash .-Editors.

Care of Cream Cans L. A. Gibson, Dairy Commissioner for Manitoba.

AM not thinking of holes in the vessels when I say that there is a big needless leak in cream The cream can is one of the cana worst slammed about, rammed about and jammed about pieces of furniture known to our twentieth century civil-And part of the bad usage is

quite unnecessary, The war is creating a special reason why cream cans should be treated with greater respect. There is a present shortage of tin plate, from which cream cans are made, and in the United States, as well as in Canada, efforts are being made to impress can handlers with the importance of caring for these vessels. One United States publication just to hand says, 'It may soon be impossible to secure more milk, cream or lee cream cans until after the war." If a real famine in milk and cream cans were to occur, the loss to the farmers would be much greater than usual because of

tainable for milk and cream.

Here Are Some "Cans."

You can avoid using milk or cream cans for wrong purposes. people put gasoline in them and ruin them almost immediately.

You can refrain from battering the cans needlessly. You can return other people's cans,

if you happen to get them by mistake. The owner needs them.

You can see that your can does not lie about the railway station. Even though you may not be going to use it at once, take it away and care for it. You can remind the railway agent that he may help by giving cans as

much protection as possible.
You can rinse the vessel before usng. It may have been thoroughly cleaned at the factory; but it needs a fresh rinse before using.

You can keep the vessel clean in-

the higher prices which are now ob- making there is always a loss of butter fat in the whey, varying from .19 of one per cent, to .34 of one per cent., the latter by the way being the average for New York State, which would age for New York State, which would probably approximate conditions in Ontario. The object of the whey separator is to recover this fat and place it in saleable form. Mr. Lucas has worked out the cost of installing a plant and by counting the interest on investment, depreciation and labor, he estimates the profit to be obtained in a year. I will here quote from Mr. Lucas' article:

There are several methods for the installation of whey separators, a com-mon one being the elevation of the whey to an overhead storage vat means of a steam-siphon or whey pump, the whey being run from this vat into the separator by gravity. An estimate on the cost of equipment for

per cent. fat, which is a reasonable estimate, that amount of whey would contain 3,1871/2 pounds of butterfat. At 35 cents per pound, this would amount to \$1,115.62. Shipping rate figured at to \$1,115.62. Shipping rate nagyed the express rate of 27 cents for the 80-mile radius would total \$21.60, making in round figures \$1,094 received for the whey fat, it being assumed that 50 per cent. cream is skimmed. \$10 should be deducted from this amount to provide cans for containing this amount of whey, low-ering the profit to \$1,084. Subtracting the yearly running expense of \$410 from the income from whey fat, leaves a clear profit to the factory of \$674 yearly. These are conservative fig-ures. In the case of the cooperative factory this amount of money is turned back to the furmer pro rata in pro-portion to the amount of butterfat delivered at the factory."-J. R. S. Peter-

Essay on Horses

HE horse has many pleasing points; he has a lot of useful joints; and he can lope and walk and run, and eat up fodder by the ton. He is a beast of sterling worth—and yet's he's falling off the earth.

We used to think him mighty fleet, but now the auto has him beat. We used to think him very strong; but tractors show where we were

If you have worked upon a farm, you know where horses lose their fixed from I used to work a big bay team, long years ago, and that's no dream. All winter they would loaf and eat, and eat and loaf, and trepeat. And when the winter time was canned, and it was time to plow repeat. the land, and I would harness Dick and Ned, my good old father always said: "Be careful, now, don't work too hard! Those horses have a lot of lard; for months they've loafed around the barn, and haven't labored worth a darn, and they are soft as castor ile, so work them gently for a while."

Thus, when we needed speed and haste, the precious time must go finus, when we nesded speed and naste, the precious une muse (go waste. I had to nurse those plugs along, for fear their muscles would go wrong; and when a furlong they would go, they had to stop a while to blow. And how they used to drizzle sweat I seem to see them raining yet. And when I took them to the trough, they'd try to drink their fool heads off, and then the colic they would have, and called for aconite and salve.

Worn out by bites of flies and bugs, they kicked their hind sames: Worn out by bites or mies and bugs, they kicked their hind legs o'er the typs, and reared and pawed and ripped and fussed, and, in the equine language, cussed. Thus, through the long, long summer day, they fooled the golden hours away.

What wonder that the thirty man desires a saner, wiser plan? We atke our well tried tractor now, when we go to the fields to plow, or rake the hay, or reap the grain, and find that tractor safe and sane.

It isn't soft from over-feed; it isn't cranky like a steed; it doesn't care a whoop for files; it never tires of exercise. It has no colic, bots

By Walt Mason.

And when at last their thews grew strong, so they could labor all day long, the flies got busy on their frames; life was a torture then, by

or worms; I praise it in my warmest terms.

ally in washing the tins out, if neces-

You can see that a tin does not You can see that a till does not tard in a damp place or with mois-ture inside. Especially at the end of the season, when the cans are being put away, dry each carefully and store under cover in a dry atmosphere.

Value of Whey Separator

DITOR, Farm and Dairy.-In a copy of the Pacific Dairy Review which happened to come under my notice, I read an article by P. S. Lucas of the Oregon Agricultural College, taking up the value of the whey separator in cheese factories. seems to me that this is a particularly opportune time for owners of cheese factories to consider the installation of an equipment to look after the fats which are normally lost in the whey. several districts throughout Ontario cheese factories are finding it difficult to compete with other dairy industries at the present fixed price of cheese. If the whey separator alor cheese. If the whey separator ab-lows the factory to make more profit than it does at present, I think it would be well worth looking into. Mr. Lacas states that in cheese

side. Use a little sal soda occasion- this method would be about as follows: For a 600-gallon storage tank \$150, or a proportionate cost for a larger size. The cost of a large fac tory size whey separator would be approximately \$500, about \$20 cost for installation, and \$50 for siphon or pump, pipes and a belt, making a total of \$720. The initial cost will vary from this figure up to \$1,000, depending upon quality and size of materials used.

As to running expense, the following figures will apply on a machine of about 5,000 pounds' capacity. Oil, insurance and incidentals for a year \$15, depreciation \$50, or 10 per cent. of the original cost; interest at the rate of 6 per cent., \$30; labor, figured at two hours per day for 300 days, \$180; fuel, \$90; repairs, \$10; \$35 inter-est and depreciation upon the \$220 used in equipment other than separa-tor, making a total of \$410. These are average factory figures.

In figuring income it is assumed that the factory is receiving 5,000 pounds of milk daily for 300 days. Figuring 85 pounds of whey to the hundred pounds of milk, the factory would have at its disposal during a period of 300 days, 1,275,000 pounds of whey. If this whey contains .25 of 1

The Dairy Meeting at Guelph

HE annual cheese and creamery meeting of The Western Ontario Dairyman's Association will be held at the Dairy School, Ontario Agri-cultural College, Guelph, on Tuesday, December 4, at 1.30 p.m. Subjects of importance to the dairy industry will be discussed, well-known dairymen leading the discussion on each sub-Some of the subjects to be discussed are as follows: Exhibitions, cream buying stations, rennet substitutes, pasteurizing cream, importance of collecting rennets, grading butter, and regulation in connection with butter substitutes.

Every person interested in dairying will be made welcome.

Cold Weather Starting Troubles

E VERY motorist who has not the good fortune or the convenience of a heated garage experiences quite often a lot of trouble and delay in starting his cold motor. Quite often trouble is experienced

even on cars equipped with starters, and with cars not equipped with starters, even more trouble and a great deal of cranking is necessary before the motor works of its own accord, often resulting in an immeasurable amount of swearing, hurt feelings and sprained wrists.

Every one of the motorists who has encountered the trials that a cold motor brings will welcome a new Priming Plug which has a side valve, and is so made that it gets the gase line down into the cylinder, right where it is needed to catch the spark and set the motor humming.

and set the motor humming.

In these days of exceedingly high
gasoline prices the Priming Plug
makes it possible for a driver to stop
his motor when he stops his car, instead of keeping it running to keep it warm, while he is waiting to drive to another destination.

Practically every car, (the possible exception being those that are equipped with powerful starting systems) should have a priming plug in each of their cylinders. The gasoline eco-nomy would in a short time, more than offset the expense of putting in the Priming Plug.

The Champion people who make the new plug, place an absolute guarantee

behind their Priming Plugs.
Motorists will appreciate having these facts with reference to a real winter driving necessity.

DO YOUR BIT. A little bit goes a long way— and provides for a great deal. Page 11 tells the story. A PAR: is to take the sal on Friday herd is a titeally every from two years ago good sires Lambkin. "I have istered Helle Auctio "Some: "Some: breakered helfers we their dam bloods as what it m gettings the looking on In Canada by Matt.' Both the famous of who was came to CP, test his than the cows. He lid proven ing 87 1-2 Colantha buil. The Emily, a 2 of two bit to the conformal to the conformal test. The daughter as a three stable over

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THE SALE OF BROOKSIDE HERD.

THE SALE OF BROOKSIDE HERD.

A PAINTCULARIAY good opportunity
to secure, many choice Holsteins
at the sale of W. L. Lambkin at Gorrie,
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THE SALE OF BROOKSIDE HERD.

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years old she made over 20 lbs. butter in seven days.

To cross with these cover 1 puchased. A. Carr. Tully, N.Y. His tree nearest dams average 26 lbs. butter each in seven days. He beins a grandson of the noted days. He beins a grandson of the noted perfect type of Holstein cow in America, the control of the control of

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

W. A. CLEMONS, Sec.,

LLENROCK NOTES

SOME ST. GEORGE HOLSTEIN

SOME ST. GEORGE HOLSTEIN
BREEDERS.

ITCHENN BROSS, who live just within the limits of St. George, have
done little testing the While they have
good stock. Their sends are is DeKol
Meethilde Prince, son of Prince Aagste
good stock. Their sends are is DeKol
Meethilde Prince, son of Prince Aagste
yeas, 19.43 bits butterfain DeKyl
Duch, which was a standard of the St.
in 7 days. The junior sire is Plus Evergreen whose are is Plus Inka Syving,
to the prince of the St.
in 7 days. The junior sire is Plus Evergreen whose are is Plus Inka Syving,
to Hill St.
in 10 Bis. in one day.

Another St. George breeder who lat
whites is Wellington Sager. At present
most of his cown are quite young, but
they are good individuals and have some
sire is a young bull. Ten. Keyes, No.
2284, who is a brother to Lady Keyes
Mercena, 15.38 his butter and 3647 ha,
brother to Princess Lulu Keyes, 27.68 has
butter and 555 lbs. milk in seven days.
Illis dam is Ardela DeKot Tensen, butter
19.61, milk 30.43, e. of P. at two years old,
167,546 lbs. milk and 355 lbs. butter.

35

Head

35 Auction Sale

Pure Bred Holsteins

BROOKSIDE FARM, at GORRIE, ONT.

Friday, December 14th, 1917, at 1 P.M.

Here is an opportunity to buy a sire good enough to head almost any herd or to lay a foundation for a first-class herd of pure-bred milkers. Start right and you are always right.

I am offering a son of a 10,000-lb. milk daughter of the famous old sire JOHANNA RUE 4th's LAD, who carried 87½ per cent. blood of COLANTHA JOHANNA LAD, Field's great \$10,000 bull. Also several of her daughters and granddaughters.

My herd combines the blood of the Johannas, Korndykes, Veemans, Waynes, etc. Write for a Catalogue. Lunch free. Trains met on day of sale at GOWANSTOWN, G. T. R., and FORDWICH, C. P. R.

W. L. LAMBKIN. R. R. No. 2, GORRIE, ONT.

BO YOU WANT REGISTERED HOLSTEINS

Write to-day to
J. Alex. Wallace, Secretary,
Norfolk Holstein Frieslan Breeders'
Club, Simcoe, Ont.
100 HEAD—Cowa, Heifers, Heifer
Calves, Bulls, Bull Calves.
Tell us the class you want—we
have them all—100% values.

\$3.00 per page for 500 copies. Single typewritten PiDIIGRES, Single typewritten PiDIIGRES, copies, \$1.00: 10 or more, 75c. each. Get your order in early. THE CANADIAN HOLSTEIN SALES COMPANY.

CHOICE DAIRY FARM, 2 miles from Brockville, halt mile from school, approximately 80 and will fence of the following state of the followin

Four Choice Registered HOLSTEIN COWS

Due to freshen before January 1st, 1918. All in the pink of condition with good teats, and bred to a son of MAY ECHO VERBELLE, 29 lbs. butter 7 days.—she the dam of MAY ECHO SYLVIA, 40 lbs. butter 7 days. Price \$650 f.o.b. Delta

Also the bull-15 months old KORNDYKE DEKOL PHILIP, sired by a son of MILDRED DEKOL, 101 lbs. milk per day; 2 nearest dams average over 30 lbs. Dam a granddaughter of PONTIAC KORNDYKE, with a 19-lb. 3-yearold record.

Will price for quick sale delivered in Ontario or Quebec for \$150.

W. C. STEVENS Philipsville

---OXFORD BREEDERS

60 Head Registered High Class HOLSTEINS



Consignment 60 Head OLSTEINS

Woodstock, Wed., Dec. 12, 1917

a rare opportunity for dairy men to secure some of the best producing blood of the breed. Most of the females are fresh or springers, well grown and developed, with records, or from record dams. We are offering some males fit for service, from dams up to 33 lbs. butter and over 100 lbs. milk a day.

Auctioneers,

Our Motto is: QUALITY & SATISFACTION

M. L. HALEY, Springford, Manager.

For Catalogues write W. E. THOMSON, Woodstock, Ont.

MOORE & DEAN

NEW

MA mild of ra any, about very potato shipp spring shipp A ree Advis vises potato stocketo bu been

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OLIVER CABANA'S OFFERING AT WELLAND.

DITOR, Farm and Dairy.—We are making a most excellent consignment of registered Holstein cattle to the Niagara Peninsula Breeders' Sale to be held at Welland, Ontario, December 11, 1917.

There are several things about this consignment which are unmount.

In the continue of the con

ONTARIO PROVINCIAL WINTER FAIR.

ONTARIO PROVINCIAL WINTER FAIR.

THERE are 311 entries in horses, the Cydedsdate control 11 aged imported Cydedsdate entered 11 aged imported in the Percherors have a good display, lead-in the control of the control

the sheep department, there are \$22 entries, a record entry for the show, in the awine department, there are \$32 entries, a record entry for the show, in the awine department, there are 302 entries. The killing class not being quite as heavy as usual, but, there are 302 entries are shown as heavy as usual, but as heavy, in the poultry department, there are \$4,000 entries, which is very much ahead of any previous cutton, the entries, while not as heavy as last year, the banner

year, will likely be up to any other record.

Taking one class with another, the
1917 Winter Fair promises to excel any

THE SALE AT COLUMBUS.

THE SALE AT COLUMBUS.

Nonmection with the National Dairy
Show at Columbus, Ohio, a sale was
held on October 26 and 27, in which 134
head of Holsteins sold for 25,258, an avstein sales have equalled this average, and
in this sale there were no 13,000 or 150,000
animals to help swell the total, the highPauline Dekol Ophella, followed by \$4,000
for a 55-50 son of Rag Apple Korndyke
Sth. The highest purchasers were Belvoir Farms, of Pennsylvania, taking 30
head for 15,058. Threshoes went to 18
States and to Canada.

Postal Card Reports

Correspondence Invited.

HUNTINGDON CO., QUE.

HUNTINGDON CO., QUE.
HUNTINGDON, Now. 15.—Godmanchester is the only township in the county
annual plowing match. This year 14
single-furrow plows and three doublefurrow plows competed on the farm of
R. E. Ness and J. W. Logan, of Howlek,
and John R. Roy, of Ormatown. Dougless Elder was the sweepstakes plowman
with Jas. Anderson the winter in the

junior class. John Logan won the double-furrow class. A banquet was served in the evening with addresses by the judge and others.—W. F. S.

COMPTON CO., QUE.

COMPTON CO, QUE.

Bury, Nov 12.—Weather fine, after
the disappearance of a few inches of
snow. Threshing about completed; yield
of grain generally poor. Local paper reports one man having i.46 bus. of grain,
an average of 45 bus. of cert., or an experience
and the state of the state of the state of the state
and the state of the state of the state
paying \$16 a cwt, for ewe lambs. The
Shropshires seem best adapted to this
locality; the losses with them seem
small, making them very profitable.—
G. W. P.

BICHMOND COUNTY, QUE.

RICHMOND COUNTY, GUE.

DANVILLAS, Nov. 18.—We have all the
cross in with the exception of a few turnnips. The weather has not been favorable for fall work, there has been much
rain and hard frests; Threshing is almost finished with a fair yield of grain.
All farm products are high in price has
find a ready sale. Cautile zoon
the winter and in good condition.—M.

CARLETON COUNTY, ONTARIO. CARLETON COUNTY, ONTARIO.

HRITANNIA BAY, Nov. 12.—The
farmers in this district are nearly done
plowing. Hay is selling from \$12 to \$15 cats. \$60: potatoes.

Both potatoes. RENFREW COUNTY, ONTARIO.

DOUGLAS, Nov. 12.—Weather fine and dry after two or three weeks' wet, back-ward weather in October. Threshing-all done: root cross .1 in .6a light crop). Grain turned out at Paraproduce high Grain turned out at Paraproduce high Lambs, 16c; hogs. 16c; butter, 48c; eggs, 40c; potatoes, 11.56 a base. Labor is very scarce. Lots of feed for stock. Some farms changing or a contract tree.

NORFOLK COUNTY, ONT.

PORT BURWELL, Nov. 15.—Buck-wheat threshing is the order of the day it is turning out fairly well. Hogs are selling at \$15.50 wheat, \$1.50 a bushel. Dairy cows are doing well where conditions are favorable. Potatoes, \$1 a bag. —B. E. P.

QU'APPELLE COUNTY, SASK.

For the First Time!

TO MY FELLOW BREEDERS OF CANADA:

This is the first consignment of cattle ever made by Pine This is the first consignment of cattle ever made by Pine Grove Farms to a public sale held in Canada. I am glad of this opportunity to meet you. Glad of the opportunity that will enable me to know you all better. We are sending you some splendid animals. They all carry the Pine Grove Farms guarantee, and REMEMBER, we are going to send you a son of Rag Apple Korndyke 8th, "The Greatest Bull in the World," out of a 32-lb. dam.

I trust you will see that my confidence in you as pro-

ressive breeders is fully sustained and that this calf inds a home where his "greatness" may add materially to the Holstein interests of Ontario and put many dollars in the bank for the man who buys him.

Sincerely yours, OLIVER CABANA, JR.

A Son of the Mighty Rag Apple Korndyke 8th

Will head this, our first Canadian consignment. His dam is Onyx Clothilde, whose record of 32.24 ibs. of butter in 7 days was made from 649.30 ibs. of milk. This is a cow we are sure is slated for still higher honors when she again freshens find the far-slighted breeder who takes home young son will win his share of the increased value that is bound to follow. This grandly bred young sire, in addition to the four carefully selected animals described in the

Will be Sold at Welland, Ontario, Dec. 11th

This consignment will go absolutely without reserve. There is not an animal in the whole lot but that will prove a profitable investment for the man who buys it.

PINE GROVE FARMS Oliver Cabana, Jr. - Elma Center, N.Y.

No. 1---Uniform De Kol

A sister to the World's Champion junior three-year-old cow, Uniform Lorena, with a record of 37.48 lbs. of butter in 7 days. This splendid A.R.O. heifer is safely with calf to one of our greatest junior herd sires, King Pontiac Fayne Segis, and due to freshen in February.

No. 2---Roslyn Leila Pontiac

This heifer is not only exceedingly well bred, but is due in January to King Pontlac Fayne Segis, a son of King of the Pontiacs, and a 28-lb. four-year-old daughter of Segis Fayne Johanna, first and only cow in the world to make 50 lbs. of butter

No. 3---Lilith De Kol Clyde 2nd

Here's a cow with a record of 28.01 lbs. of butter, 481 lbs. of milk in 7 days, and a granddaughter of Woodcrest Nig De Kol, that great son of Hengerveld De Kol with 116 A.R.O. daughters. Safely with calf to one of our best young bulls. Great chance.

No. 4---Riddle Meadows Pearl Pontiac

A Show heifer, and bred in the purple. Her sire is a son of Fairview Korndyke Lad, whose dam was that great 37-lb. cow, Pontiac Pet, daughter of Pontiac Korndyke. This heifer is in calf to King Pontiac Fayne Segis. She will surely please.

westminster district.

Wakeshie leauty, 1897; 6,197 lbs. milk.

23 lbs. fat. 41 per cent. fat. John Me
Book del Lady, 47112; 6,287 lbs. milk.

23 lbs. fat. 41 per cent. fat. John Me
Book district.

Wakeshie leauty, 1897; 6,57 lbs. milk.

Western Hell Company.

Western Fuel Company.

Western Puel Company.

Western Pu

Mature Class.

URTA 2ND of Allandale, 25405; 10,236

ibs. milk, 344 lbs. fat, 3.35 per cent.
fat. Arthur S. Dennis, Stewiacke,

Burnside Verwar-Old Class
Valley Style, 24525 - 2019 Class

Valley Style, 24525 - 2019 Class

Valley Style, 24525 - 2019 Class

Valley Style, 24525 - 2019 Class

Valley Style, 24525 - 2019 Class

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Valley Style, 24525 - 2019 Class

Three-ver-Old Class

hei, fat. 4.09 per cent. fat. John McKee, in Morwich. Three-Van-Old Class.

Helen Janu 48-07, 179, 18-18, 1

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 BROS., R. R. NO. I, MOOREFIELD, ONT.



ducers, rich in butter fat and very prolific. Write for booklet,

W. F. STEPHEN, Secretary Canadian Ayrshire Breeders' Association

Box 508, Huntingdon, Quebec.

Brookside Jessie, 48372, 6,197 lbs. milk, 283 lbs. fat, 4.09 per cent. fat. John Mc-Kee. Brookside Lady, 47313; 6,878 lbs. milk, 283 lbs. fat, 4.11 per cent. fat. John Mc-Kee.

SHIRE BREEDERS' ASSOCIATION.

"\$50 for an Ayrahire cow, \$50 for a two
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RIVERSIDE NOTES

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Jer cent conversable fat average of about 1 per cent the herd at precent are a choice lot of young bulls from the preent sire. Present are the present sire. Present sire of young bulls from the preent sire. Present sire for young the present sire for the present sire for the present sire. Present sire for the present sire for sire for the present sir

B. C. AYRSHIRE SALE.

B. C. AYRSHIRE SALE.

SHANON BROSS, of Cloverdals, B. C.

C. Shanon Shan

Special Western Number of rain Dairy.
Grandview Grace has a two-year-old record of Performance production of \$1500 labs of milk and \$35 lbs of fat. and the second of the second control of the second

SHORTHORN SPECIAL

A prize of \$35 is offered by the Domin-ion Shorthorn Breeders' Association for the best animal of the GUELPH WINTER FAIR, either pure-bred, grade or cross-bred, sired by a Shorthorn bull recorded in the National Records.

The Old Original Summer Hill Farm:

Where you find the pure bred Oxford. We have for sale 150 head of registered ewes, 75 head of yearling rams, 50 ram lambs and 50 ewe lambs, some choice show rams and ewes, all first class individuals and guaranteed pure bred.

PETER ARKELL & CO.,

Box 454

TEESWATER, ONT

PEACH BLOW AYRSHIRES

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

Prepare for the Dairy Standards Act

Now is the time get your Ayrshire bull or the cows and heifers for your foundation Ayrshire herd at the

Fifth Consignment Sale of 50 Head 50 Head

Pure Bred Ayrshire Cattle

From the Herds of

Southern Counties Ayrshire Breeders' Club to be held at

The Dr. Rudd Sales Stables, Woodstock December 19th, at 1 p.m.

This is the district from which the great producing Ayrshires are This is the district from which the great producing Ayrshires are coming. Our offering consists of a richly bred lot of cows, fresh in milk, or due to freshen shortly after the sale, together with heifers of all ages with breeding that spells production. A few choice young bulls are also included. The famous MOUNTAIN LASS (Grand Champion at London last September), LADY JAME, (the R.O.P. mature class champion), SCOTCH THISTLE (3-yr.-old Ayrshire champion), LENORE 2nd (the 2-yr.-old ex-champion for butter-fat), were all purchased by their present owners from members of our club. Come and secure some of the good ones for yourself. The club constitution absolutely prohibits all "by-bidding" or 'bidding-in".

TERMS:-Cash or credit up to 6 months on bankable paper, with interest at 6 per cent.

Send to Secretary for Catalogue.

W. W. BALLANTYNE, President, JOHN McKEE, Sec.-Treas., Stratford, Ont. Norwich, Ont.

T. MERRITT MOORE, Auctioneer. Mention FARM AND DAIRY.



First Consignment Sale

Niagara Peninsula Holstein Breeders Club Fair Grounds, Welland, Ont.

Tuesday, Dec. 11, 1917, at 1 o'clock

50 PURE BRED HOLSTEINS 50

Included in this Sale are well bred young cows with records; some fresh by day of sale, others soon due. A few wonderfully bred young bulls. All animals six months old and over will be sold guaranteed to stand the tuberculin test.

LIST OF CONSIGNORS:

C. Hagar, Port Robinson.
C. Robbins, Wellandport.
McLeod Bros., Stamford.
Dr. Hutton, Welland.
J. W. Moote, Canboro.
P. S. Moote, Dunnville.
F. Hamilton, Stamford.

W. C. Houck, Black Creek.
Oliver Cabana, Elma Centre,
N. Y.
C. P. Claus, St. Catharines.
Dr. Miller, St. Catharines.
J. A. Dyer, St. Catharines.
Paul Merritt, Beannsville.
W. Stringer, Dunnville.

Send for Catalogue Immediately

W. L. HOUCK, Sec'y, Black Creek

When You Write---Mention Farm and Dairy



Brantford, Wed., Dec. 19

at 1 o'clock at the Old Commercial Stables

The Brank District Holstein Breeders are holding the high standard for square dealing and quality animals in their particu-larly fine offering of the "Black and Whites" for the above date. They are of the finest breeding, and all but two or three will be females and mostly coming fresh. Among the choice material is females and mostly coming fresh. Among the choice material is EBLVA BEATRICE DEROL—a cow with 28.40 lbs. butter, 108 lbs. in 30 days, on a 4 % basis. Another is a 23.5 lb. helfer—a granddaughter of COLANTHA JOHANNA LAD.

Get a catalogue and look up the others in our offerings. The sires are record backers.

J. W. RICHARDSON, COL. ALMAS. President.

N. P. SAGER, Sec., St. George, Ont.



DEC. 19

-HOLSTEINS

We have the only two sons in Canada, of the 46-th, buil Ormsby Jane King—only mature son of the world's most famous cow. One of them for safe, also a 30-th, caff, whose dain and two great-grain-dain rolls, butter in 7 days. Also I buil calves of lesser note, and females of all ages.

R. M. HOLTBY,

R. R. Ne. 4,

PORT PERRY, ONT.

THE O'REILLEY STOCK FARM-

offers a 13 months' old calf out of an 18-lb. 3-year-old. He is sired by a son of Canada's only 29,000-ib. cow, Rauwerd.

Also a few females due to freshen this winter. Write out your wants in the Holstein line. You will find our prices are right.

R.R. 9,

PETERBORO, ONT

VILLA VIEW OFFERS AT BARGAIN PRICES.

Two bulls ready for service; one from a 20-lb. cow (record made at 10 ars); price \$125. The other is from a 25.85-lb. cow, which has miked for a years without being dry, and caived each year; price \$160. Both stred the \$2,000 the company. ARBOGAST BROTHERS, Sebringville, Ontario.

WHO WILL SUPPLY ME? With a Reg. HOLSTEIN BULL of good size, conformation and breedh a Reg. HOLESTEIN BOLL of good asset, community ing, at least 12 months old? As my cows are dark in color he must be at least half white, also in the habit of throwing heifer calves.

Write, stating price and description. H. B. McGREGOR

Box 2517

Reston, Man.

- 100 lbs. Milk - in one day on both sides

WE OFFER BULL CALVES, sired by a son of a hundred pound cow, and whose dams are sired by a son of a hundred pound cow—also cows and helifers bred to a hundred pound sire.

JAS. A. CASKEY

R. R. 2.

MADOC, ONT.

Dutchland Colantha Sir Mona

Lakeview Dutchinal Hengerveid and, the Buil that won senior champion to both human at both human at both and built that won and 1917, and Lakeview Dutchinal Artis, the highest producing senior three-year-old in Canada-3-4.68 ibs. butter in 7 days with an average test of 4.58 per cent. Also the sire of Lakevier mis cheap, whose dam, grand-dam and great-grand-dam averaged over 23 lbs. butter in 7 days. T. A. DAWSON, Mgr. Bronte, Ont. MAJOR E. F. OSLER, Prop.,

"SOMETHING CHOICE"

King Hengerveld, of Oak Park, born March 8, 1917, half black and white, a good individual and well grown. His dam and sire are tuberculin tested. Sire—Lakeview Dutchiand Hengerveld 2nd, Grand Champion at the Canadian National Exhibition and London, 1918. His stater is the Canadian Chambion as a senior 2-year-old with 346 his. butter in the Canadian Chambion as a senior 2-year-old with 346 his. butter in the Canadian Chambion of the Canadian Chambion as a senior 2-year-old with 346 his. butter in the Canadian Chambion Ch

Dam.—Canary Colantha Queen, a yearly cow with great capacity and a record of 438.6 lbs. milk with 28.15 lbs. butter and an average test of 4.85 per cent. fat. The average test for the two nearest dams of this buil is 4.77 per cent. Write at once as he is a bargain. Correspondence solicited.

W. G. BAILEY OAK PARK STOCK FARM R.R. NO. 4, PARIS, ONT.

MARKET REVIEW AND FORECAST

The census and statistics office of the census o

to weakness; live stock strong.

WHEAT.

The market is quiet, as little Ontario
wheat is being offered. This situation
will continue as long as weather is favoreshe for outside work. If the present
cold snep continues much wheat year
valiable at country for the
case of chees the raing of a price on
wheat has cut profits in buying down

THE SALE PROGRAMME.

OXFORD COUNTY. Oxford District Holstein Breed-ers' Club consignment sale of Hol-steins, on December 12th, 1917, at Woodstock, Ont.

The 5th consignment sale of the Southern Counties Ayrahire Breeders' Club will be held at Woodstock, Ont., on Monday, December 19th, 1917. Mr. John McKee, Norwich, Ont., is Secretary of the Club.

WELLAND COUNTY. On December 11th, 1917, the Ningara Peninsula Hoistein Fries-ian Clib will hold a consignment sale of 60 head of pure bred Hoi-steins, at Welland, Ont. Mr. U., Houck, Black Creek, is the Sec-

BRANT COUNTY.

The Brant District Holstein Breeders' Club consignment sale of registered Holsteins will be held this year on December 19th, at Brantford, Out. N. P. Sager, of St. George, is the secretary.

HURON COUNTY. W. L. Lambkin & Son, of R. R. No. 2, Gorrie, Ont., will dispose of their 35 head of registered Hoisteins by public auction on Friday, December 14th.

ELGIN COUNTY.

ELGIN COUNTY.
Elgin County Holstein Breeders'
Club will hold their annual consignment sale of pure bred Holsteins at St. Thomas, Ont., on
Tuesday, December 18th, 1917. E.
C. Gilbert, R. R. No. 7, St. Thomas,
Ont., is Secretary.

to such an extent that many old-time dealers consider it hardly worth with the control of the co

United States buyers are now operat-

ing in the Lake Erie counties and the hay market has a decidedly stronger tone. The limiting factor is the lack of is quoted \$12\$ to \$13\$ for No. 1 on track and \$11\$ to \$12\$ for No. 2. Montreal quotes No. 2 hay at \$12.50.

POTATOES AND BEANS.

guotes No. 2 hay at \$12. 2 Monreal guotes No. 2 hay at \$12. 2 Monreal guotes No. 2 Monreal gu

DAIRY PRODUCE.

Turkeys ... 20 to 36 ffe to 36 deee ... 12 to 10 to 18 to 18

No. 4, \$4.22 in store Montreal.

Oats are the strong feature of the corns grain maket, heaven to corn the corn of the corns grain maket, heaven to corn of the cor Less \$1 to \$2 on light or thin hogs; less \$3 to \$3.50 on sows; less \$4 on stags; less \$60e to \$1 on heavies.

Intario Provincial

Held in

November 30th to December 6, 1917

WINTER FAIR

PROGRAM OF JUDGING

MONDAY FORENOON-DECEMBER 3rd.

9.00 Judging Competition (Dairy Cattle).

10.15 Judging Shires.

10.45 Judging Competition (Beef Cattle) MONDAY AFTERNOON-DECEMBER 3rd

1.30 Judging Shorthorns. 5.00 Judging Ponies.

MONDAY EVENING-DECEMBER 3rd.

Judging Heavy Draughts (2-Year-Olds).

7.45 Musical Ride (64th Battery).

Judging Thoroughbreds.

9.45 Saddle Class.

TUESDAY FORENOON-DECEMBER 4th.

9.00 Judging Competition (Horses).
10.30 Judging Bulls (Dairy Breeds).
11.05 Judging Shorthorn Cows (Dairy Classes).
11.25 Judging Baby Beef.
11.35 County Specials.

TUESDAY AFTERNOON-DECEMBER 4th.

1.30 Judging Aberdeen-Angus.3.10 Judging Percherons.

TUESDAY EVENING-DECEMBER 4th.

7.30 Judging Heavy Draught (3-Year-Olds).

7.45 Judging Standard-Breds. 10.05 Judging Standard-Breds (Specials).

WEDNESDAY FORENOON-DECEMBER 5th.

9.00 Judging Kerefords

11.05 Judging Clydesdales (Foals).
11.45 Judging Clydesdales (Yearlings).

WEDNESDAY AFTERNOON-DECEMBER 5th.

1.30 Judging Clydesdales (Yearlings)

Judging Clydesdales (2-Year-Olds).
Judging Clydesdales (3-Year-Old Mares).

Judging Heavy Draught (Aged). Judging Heavy Draught (Teams)

WEDNESDAY EVENING-DECEMBER 5th.

7.30 Musical Ride (64th Battery).

Judging Hackneys.
Judging Hackney Specials.

THURSDAY FORENOON-DECEMBER 6th.

Judging Beef Cattle (Grades).

| 10.05 | Grand Champion (Beef.), | 10.55 | Grand Champion (Beef.), | 10.50 | Judging Angus Specials, | 11.05 | Judging Hereford Specials, | 11.15 | Prince of Wales Prize (3 Best Beef Animals), | 11.40 | Judging Clydesdales (3-Year-Old Stallions).

THURSDAY AFTERNOON-DECEMBER 6th.

Judging Clydesdales (Aged Stallions).

Judging Clydesdales (Aged Mares).

Judging Clydesdales (Aged Mares).

Judging Clydesdales (Mare and Progeny).

Judging Clydesdales (get of Sire).

Champion Clydesdales

Grand Champion Clydesdales.

THURSDAY EVENING-DECEMBER 6th.

Presentation of Trophies in Arena. Grand Parade of Prize Winners.

9.30 Musical Ride (64th Battery).

W. W. BALLANTYNE, President, STRATFORD, ONT.

PROGRAM OF EVENTS

(Not in the Arena)

THURSDAY, NOV, 29TH-

3.00 P.M. Commencement of Dairy Test. 12.00 (Midnight) Poultry Exhibits in Place

FRIDAY, NOV. 30TH-

9.00 A.M. Judging Poultry.

SATURDAY, DEC. 18T-

10.00 A.M. Judging Poultry. 10.00 A.M. Judging Seeds. 12.00 (Midnight) Live Stock Exhibits in Place.

BUNDAY, DEC. 2ND-

Junipay, DEC, SND—

3.00 P.M. Conclusion of Dairy Test.

MONex, DEC, SRD—

1.00 M. Molton Pictures,
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1.00 A.M. Midding,
1.00 A.M. Molton Pictures,
1.00 A.M. Molton Pictures

WEDNESDAY, DEC. 5TH-

BEDAY, DEC. 511—
3.00 A.M. Sude of Seeda.
10.09 A.M. Solio of Seeda.
11.00 A.M. Motion Pictures.
11.00 I.M. Motion Pictures.
11.00 I.M. Sale of Seeds (continued).
11.00 I.M. Motion Picture Open to Public.
11.00 P.M. Motion Picture Open to Public.
11.00 P.M. Conclusion of Egg Laying Contest.

THURSDAY, DEC. 6TH-

11.00 A.M. Motion Pictures. 1.30 P.M. Sale of Dressed Poultry. 2.00 P.M. Sale of Carcasses. 4.00 P.M. Motion Pictures. 8.30 P.M. Motion Pictures

ARRANGEMENTS FOR SHIPMENTS OF LIVE STOCK FORWARD. ED TO EXHIBITIONS.

GOING JOURNEY. Livestock forwarded to fairs and exhibitions will be carried to the station of the delivering line at point of exhibition at full tariff rates.

RETURN JOURNEY. On return journey, when such stock is accompanied by the original paid expense bill, or freight receipt, showing that the property indicases are railway to point of exhibition, and a certificate, in duplicate, from the Secretary of the holiton, and a certificate, in duplicate, from the Secretary of the defect that the stock has not changed ownership, it will be Thurmed free to the veriginal shipping station.

LIABILITY FOR EXHIBITS RETURNED. When shippers elect accept free transportation for return carriage to original shipping sint, as provided for under the conditions of section (b), such shipping sint, as provided for under the conditions of section (b), such ship-ents will be transported entirely at the risk of the owner as to loss damage, and bills of lading must be so endorsed.

or damage, and bills of lading must be so endorzed.

ATTENDANTS IN CHARGE OF LIVE STOCK. When ordinary slock cars, or short horse cars, are used, one attendant in charge of each earlied will be passed free on same train with stock to and from in charge of atock will be passed free on same train, two attendants in charge of stock will be passed free on same train. L. C. L. shipment of live atock will be charged one-half the regular first-class fare, both ways, when travelling on same train with stock.

RAILWAY TICKETS, GENERAL PUBLIC:

(a) TERRITORY-From stations in Ontario, Kingston, Harrow-smith, Sharbot Lake, Renfrew and west, but not west of Azilda.

(b) FARE—One-way ordinary first-class fare and one-third for round trip.

(c) GOING DATES—November 30 to December 6, inclusive.
(d) RETURN LIMIT—December 8, 1917.

ALLWAY TOKETS UDGES AN EXHIBITORS—From all stations in Eastern Canada and a stations in Eastern Canada and Eastern Canada at one way ordinary forth-class fare and one-third for the round trip, at one-way ordinary forth-class fare and one-third for the round trip, comber 10, 1917—mahor 27 to December 6, includive; return limit December 10, 1917—mahor 27 to December 10, 1917—maho

R. W. WADE, Secretary, PARLIAMENT BLDG., TORONTO (32)

Bacon Is A Military Necessity

Bacon is the most compact form in which meat and fats can be supplied to the armies.

It takes up the minimum of space in freight cars, ships, transport wagons and in supply depots at the front. It is easily handled, and it keeps.

Bacon, on account of its large percentage of fat, is the great outdoor food. Men who work and travel hard, sleep in the open air, and percentage to the wet and cold, require a percentage amount of fatty foods, because such for seest

supply the nutriment, the energy and the heatproducing quanties necessary. Bacon fortifies the body sainst exposure, repairs the wear and tear of ard work and is easily digested. It is also assily and quickly cooked.

The Allied Armies require enormous supplies a bacon, the British Army ration allowing pound per man per day. With the United States raising great armies, the demand for bacon will be still further increased. Where is the supply to come from?

32,425,000 Hogs Short

There is a shortage of 32 ±25,000 hogs in Europe. The hog population the United States is 10% below nor states the uniter of hogs staughtered in Caro * Other the United States and the United States of professional transfer of the United States and the United States of Professional States of the United States of Sta

anticipated in order to insure an adequate supply of meats and fats for the Danish population.

The situation is serious. The armies must be assured adequate supplies of bacon. A great increase in the production of hogs in the United States and Canada is a military necessity.

Save the Young Sows

Young sows which are slaughtered now only produce about 150 pounds of meat per sow, whereas each of these sows, through her progeny, could produce at a moderate estimate 1,500 lbs. of meat within a twelve-month period.

The United States has committed itself to greatly increase its hog production. Canada will do her share. Every pound of pork that can be raised is urgently needed.

The Dominion Government and the Provincial Governments are co-operating to encourage greatly increased production in hogs and to safeguard the growers.

Already steps have been taken to control the spread in price between that received by the producer and that paid by the consumer. The grower is assured his fair share of the price paid by the consumer.

The Flour Mills are under a form of license and allowed a profit of 25 cents per barrel on the

flour only—the bran and shorts will be sold at cost, and are to be free from adulteration.

The huge United States corn crop is under effective American control to prevent speculation and to insure none of it going to Germany. There will be an abundance of feed from this source as the 1917 crop is 600,000,000 bushels greater than last year's.

The buying of the meat for the Allies will all be done by the one Commission representing the Allies which will be an influence in stabilizing the market and preventing wide fluctuations in price.

The great shortage of hogs in Europe and the vast demands of the Allied armies for pork products indicate a bright future for the swine industry in Canada.

There is individual responsibility, and every man who can raise hogs should seriously consider the possibility of raising one or two extra litters in 1918.

Dominion of Canada Department of Agriculture

LIVE STOCK BRANCH

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