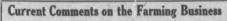


#### FARM AND DAIRY

November 8, 1917.



### Seed Cora for 1918

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### **Regulating Milk Prices**

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### A Questionable Move

'HE milk committees have it in their power to reorganize and con-solidate the milk business of any city where such reorganization gives promise of increased efficiency in distribution. It is estimated that such economies in distribution, amounting to one cent a quart, would represent a total saving to Canadian city consumers of \$1,567,120 annually. At first glance such a saving looks like good busishowing a short show a short short a saving books may good gun-ness all round. But it is a proposition that grows less attractive as it is studied more carefully, and in the long run it may well be questioned if it would result oven in financial gain to the consumer.

if it would result oven in financial gain to the consumer. Competition is the great regulator of prices. The plan of the milk committee would do away with competition to a considerable degree and substitute a governmentmade monopoly, privately operated. And monopolies are always dangerous. With the milk business so completely centralised the great incentive to efficiency in operation, hope of profits in proportion to effort, would be largely removed, and the cent a quart that the commission hopes to asave the people might be awailowed up in the one item of decreased effort. In selling his milk the farmer would have to take the price of one monopolistic company; and monopo-lies have never been friendly to the farmer, so far as we have been able to discover. to discover.

The state into the second triangly to be induct, so far as we have been able of discover. Of course, possible injustices to the farmer would be minimised by the commission's oversight of prices agreements. But have we not here the weakest point of the whole scheme? The carrying out of the commission's oversight of prices agreements and the second government machinery, operating from coast to coast. We know that the annual cost of such a system of milk control would soon be greater than the expected saving of a million and a half dollars. The precedent is a dangerous one. Already the city dialles are pointing to the number of bakers' right that traverse each city street. It is only one step more to accuse grocerymen of like inofficiency, and so on through all lines of rotali and wholesale builness. And the granting of the "reforms" (f) which would maturally flow from a seemingly minple system c' milk control would be the equivalent of state socialism! Did the committee look before they leaged?

Reading Farm and Dairy is simply getting the ideas of men who have made a great success in farming or dairy farming.



Trade incre VOL. XX

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He'll Appreciate Your **Good Judgment As Well** As Your Good Will

if for Christmas, 1917, you send him a Gillette Safety Razor! That's

the gift that is valued Overseas for itself as well as for the sake of the sender. Few articles of personal equipment are so welcome, for the Gillette is known up and down the Allied lines, by Canadian, Briton and Anzac, Frenchman, Italian and American, as the one sure passport to a clean and enjoyable shave.

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Gillette

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## You will find it Profitable to Apply Sydney Basic Slag to **vour Pastures and Meadows**

Hitherto very few farmers have thought it worth while Hitherto very few farmers have thought it worth while to try and improve their grass lands. Perhaps the high cost of the 'general run of fertilizers has contributed to this, but vith Sydney Basic Sing available, costing \$22 per ton, no farmer can now say he cannot afford to treat its pastures and meadows. If we can show that the use of basic slar will make money for you, will you apply some this fail or early winter? Snd us your name and address and let our representative call on you. If wo think it worth while to incur this exponee, doesn't it show our confidence that we can interest you.

THE CROSS FERTILIZER CO., Limited SYDNEY, NOVA SCOTIA

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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

VOL. XXXVI

TORONTO, ONT., NOVEMBER 8, 1917

#### No 45

# Pigs a Desirable Side Line on the Dairy Farm

A British Columbia Dairyman, Mr. G. S. Harris, Gives Suggestions on Feed and Care

To be candid, I do not love the pig, but I find him a good side line of the dairy business. To my mind it is far more interesting to work with catile. Making the little Jersey composition of the dairy business work than feeding pigs. But our country is short of meat and our soldiers at the front must be fed and fed well. There is no other meat that can be produced so quickly or so cheaply as pork, nor does any other meat stand transportation so well as cured pork. It is, therefore, up to us to get busy and raise more pigs.

One of the most important things to consider in the pork business is the kind of pigs to keep. The bacon hog is what I feel certain we ought to get after.

#### Bacon Hogs Not Hard Feeders.

I know a lot of stockmen think that these long, mkinny-looking pigs take a whole lot more feed to produce a pound of pork that nequired with the short, thick, fat lard type. If you have not had the chance to compare them yourself, read up the experiments conducted by the various experimental stations. The conclusion that they have come to is that for economical production, it is not the breed that counts so much as the individual of the breed.

Many think that as pork is just so much a pound it matters not what kind they raise. Butchers of British Columbia now make little or no difference in price. But just as soon as its supply is greater than the local demand, the exporting of the bacon type will be found more profitable than the fat type. It will be but a short time until there will be a strong discrimination is favor of the long type with its big percentage of high-priced cuts.

Cooperation in breeding is a point not to be evericosked. There has ever been a tendency for the farmer to want something different from his neighbor. Did you ever stop to think how much more profitable it would be in any line of live stock for a whole community to have the same breed? If a buyer could come into a district and pick up a whole car load of hogs o' one type, color and size, the farmer could then great sconomy to be able to exchange boars with neigh boars rather than have to import animals from long distances at a big expense.

Keep your pigs in good clean quarters. You can't set the best out of them when you keep them in a small, filthy, lousy pee. Give them plenty of room, a clean pen and a good sized run, and wherever possible, a clover or alfalfa pasture. Value of Clover Pasture.

Speaking of the value of clover pasture, I con-

<sup>9</sup> An address delivered at the Dairymen's Con-

ducied a small experiment accurately with one acre of clover. Besides keeping four sows for three months, it helped produce in young pork 1,075 pounds. In addition to the clover, 3,400 lbs, skimmed milk and 1,000 lbs, meal (meal consisted of one-half shorts and one-half ground barley and oata) was fed and cost at that time about \$24. After deducing the cost of milk and meal, the acre of clover was worth about \$75 for pig feed. At the present price of pork, it would be worth nearly, double that amount. Here, in the interior of British Columbia, where we can grow such spiendid alfair, one wonders why pigs are not the most important branch of the farmers' live stock instead of the least.

Shade is a very important factor in the pasture lot. Small pigs are especially liable to sunburn, and once badly sunburnt they will not thrive nearly so welf. In fact, it will frequently stunt them so that it will take months to recover.



#### The Market for Hogs

SINCE the beginning of the war the including enemy nations, have been decreased by 32,425,000 head. Even if the Allies aboutd kill the larger number of their hogs, they still could beet sungly their sure decreases.

Even if the Allies should kill the larger number of their hogs, they still could not supply their own demands. Importation of pork products by the Allied countries from the neutral nations surrounding Germany have dwindled to very small proportion. The Allies look to North Proportion to nork and pork products.

America for pork and pork products. The entrance into the war of the United States means that the demands for bacon and other pork products to feed the American army will greatly increase. The United States surplus production will not be much more than enough to feed the United States expeditionary forces, Great Britain and the Allies therefore will look to Canada to an increasing actent to supply hog products.

creasing extent to supply hog products. By killing their own food and stock animais, the Allied nations are able to substitute to a considerable extent the production of bread grains instead of fodder available shipping by importing more meat products and increasing their home production of bread grains, is expected or or thread with increasing velocity as long as the war. This consideration ensures to the Canadian farmer that there will be a good market for his hogs in If possible, keep the young pigs indoors for the first three weeks of their lives. Then gradually harden them to the sunlight by turning them out for a short time at first. After the pigs are a few days old, let the old sow out for a few hourd' run each day. It will prove an enjoyable relief to get away fror' the pigtets for a short time.

Even though pigs are not the most tractable and sweetsmelling live stock, we must consider their profit and treat them kindly. There is nothing more aggravating at farrowing time than a cross now. Don't be afraid to make a pet of the old sow. Scratch her back and talk kindly to her. When it comes to farrowing time, stay with her and take the pigs away as fast as they come. I have found it much the best way keeping the little fellows away from the sow for the first two or three days, and just bringing them to her every three or four hours for a feed. It seems like alt of work, but it is only for a short time, and it amply repays one by the larger number saved.

Water is a most important factor in the summer. If possible, it should be kept before the pigs at all itmes. At any rate, they should have all they want two or three times daily.

#### A Word on Winter Feeding.

It may not be out of place to say a word or two about winter feeding. If we are going to depend on feeding shorts and mill feed exclusively, there will be very little profit. In these days when feed is ao high we must depend upon housegrown crops for the greater part of the ration at any rate. There is no better feed than roots. Of these, I prefer Swede turnips.

Either clover or shalfa hay cut on the young side and carefully cured makes a splendid winter feed. To get the best out of the hay, it should be cut up fine in about one-half inch lengths and steamed or cooked. I find that a wooden tank with a metal bottom set up on a brick foundation makes a very serviceable cooker. A three-inch plank thirty inches wide makes about the right depth. A sheet of metal eight feet by thirty inches makes a serviceable sized cooker. It will abo be found hangy for scalding the pork at killing time.

There is quite a variety of other feeds that, when cooked, can be profitably fed to pigs. A few tons of pumpkins grown among the corn make excellent pig feed. Small potatoes or any= other roots may be utilized. Screenings from grain containing weed seeds make excellent feed and there will be no danger of the seeds germinating when cooked.

I wish to urge every farmer who does not already keep pigs to get in line and keep at least one sow. Treat her right and give the young pigs a decent chance and you will be amply repaid for your labors. 1208

### Home Grown vs. Commercial Seed

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#### Canadian Seed Has Proved Superior

O NE of the reasons why root seed growing has not been practised to any extent in

Canada before, is the rather widely spread idea that Canadia climatic conditions are not as favorable to the production of high-class seed as are the conditions in those European countries upon which Canada has relied in the past for her seed supply. In other words, the European countries have been supposed, by virtue of more sufhable soil and climatic conditions, to be capable of raising seed producing larger root crops of higher quality than Canada ever could be expected to do. A similar conception is also very common in the United States. Such a conception has no foundation and is entirely wrong.

Experiments conducted the last few years by the Experimental Farms System all over the Dominion, most conclusively prove that Canadian grown seed in no respect is inferior to imported

seed. On the contrary, it produces better crops than does In imported seed. support of this statement the results obtained in 1916 with home-grown seed of varieties of mangels and swede turnips in comparison with imnorted seed of the same varieties may briefly be summarized. Some Tests With Mangels.

Mammoth Long Red Mangel seed, raised at the Central Experimental Farm, Ottawa, in 1915, produced a root crop in 1916, which averaged, when tested at nine of the Dominion Experimen-

tal Stations, over two and four-fifths tons more to the acre than imported seed of the same variely. Mammoth Long Red Mangel seed grown at Charlottetown, P.E.T., was tested at Charlottetown and Ottawa and produced about half a ton of roots more to the acre than imported seed of the same variety, and this in spite of the fact that the Charlottetown seed was harvested under most unfavorable conditions. Seed of the same variety, raised at Kentville, N.S., gave a root crop at that station which exceeded the crop realized from the imported seed by close to three and a half tons to the acre.

Yellow Intermediate Mangel seed, originated at Ottawa, was tested at seven experimental stations and produced, on the average, three tons 750 pounds more roots to the acre than imported seed; seed of the same variety raised at Oharlottetown. P.E.I., tested at six stations, yielded an average of one ton and three-quarters to the acre in excess of imported seed.

Danish Sludstrup Mangel seed, raised at Agassiz, B.C.; Kentville, N.S., and Charlottelown, P. E.J., respectively, was leading with, on the average, about half a ton to the acre in comparative tests with imported seed of the same variety, conducted on a number of stations.

Kangaroo Swede Turnip seed, raised at Fredericton, N.B., and tested at five experimental stations in Eastern Canada, gave an average yield of two tons, and three-quarters in excess of the imported seed, grown in comparison with it.

Experience Favors Canadian Seed. It is rather obvious, from these figures, that

#### FARM AND DAIRY

there is no foundation whatsoever for the con ception that European-grown seed of field roots is superior to Canadian-grown. On the contrary, the figures furnish a strong argument in favor of Canadian-grown seed being used in preference to imported seed. It is true that in some instances the imported seed produced yields only slightly behind those of Canadian seed, but what is of real importance is this: In no single case did the Canadian-grown seed fall behind, in yielding capacity, the same variety of European seed. This is the more encouraging as in most cases the Canadian seed was raised from roots, a great percentage of which would, under no circumstances, have been accepted by European growers as fit for seea production.

Under the circumstances there seems no reason why Canada should, in the future, rely on foreign countries for aer root seed supply. There is an opening, now, for a new agricultural industry and, indeed, it is believed that the development and firm establishment of that industry will bring unthought of advantages to Canadian farming in general.



A New Idea in Demonstration Car Work in the West.

The car seen herewith was part of a demonstration train which toured parts of Saskatchewan has summer. Taiks on live stock judging ware given direct from the floor of the car, representative animals of the beef and dairy breads being used to improve more fully the points in judging emphasized by the speakers.

### Ready Mixed Dairy Feed A Cooperative Selling Scheme in New York

O NE of the most interesting departures in the dairy feed world is the plan which has been

arranged by the Dairymen's League of New York State, for the mixing on a large scale of feed to formulae approved by the best feeding experts, and the selling of this feed to dairy farmers at nominal costs. The balancing of rations for dairy cattle is work that is often not thoroughly understood by many feeders. The Dairymen's League, therefore, resolved to have experts on rations draw up certain formulae for dairy feeds and have the dairy feed manufacturers mix their grains according to these formulae. These feeds are then to be distributed to members of the Dairymen's League and other dairymen at prices allowing but a nominal profit to the manufacturer over the wholesale cost of the individual feeds for his trouble in mixing them.

As the result of cooperative effort between the Dairymen's League and certain manufacturers, dairy feeds are now being marketed which are guaranteed to be mixed according to certain formula elial down by the State College of Agriculture. The legend on the front of a bag of feed for instance, is as follows: "100 has net; Dairymen's League dairy feed; made according to formulae 20; New York State College of Agriculture." (Name of manufacturer.) On the back of the bag is the guarantee: "Twenty per cent far."

#### November 8, 1917.

The guaranteed ingredients are mixed together according to the general formula; 100-500 1ha ground barley; 100-600 lbs. ground oats; 100-400 lbs. corn feed meal; 100-500 lbs oil meal, 100-800 Ibs. gluten feed, 100-600 lbs. wheat bran; 160-500 lbs. brewers' grains, 100-400 lbs. malt sprouts; 100-500 lb; cottonseed meal, 100-800 lbs. hominy. This is a representative formula. The manufacturer contracting under this formula must mix the feeds within the limits specified, thus there shall not be less than 100 lbs, of each. The sliding scale with upper and lower limits is given so that the actual mixture may be changed according to the market, and thus the farmer derives the benefit in his mixed feed of the law of supply and demand. Different mixtures will be known by different formulae numbers.

It is planned to give to the exact formulas as well as the general formulas as much publicity as possible. For example, the feed now being manufactured under Formula 20 by Hales and Edwards has this mixture: Cround barley, 100 pounds; ground oats, 100 pounds; corn feed meat, 100 pounds; old process oil meal, 400 pounds; gluten feed, 100 pounds; wheat bran, 300 pounds; browers' dried grains, 300 pounds; mait sprouts, 200 pounds.

This plan will ensure a mixed feed with a known formula and standard quality and the rations will be balanced ity experts in this work. The plan is flexible enough to ensure competition and to keep prices down. It makes only one handling necessary between the producer of the by-products and the local distributor. And by the publicity given to the different formulae it will act as an educator in the better feeding of dairy cattle.

In connection with the selling of these dairy feeds, the Dairymen's League is establishing in New York City a central office which will assist in having formulas drawn up and feeds manufactured to these formulas. The feed will be distributed by local purchasing agents, and the maximum price for feed has been placed at \$3 per ton above the wholesale price at the time the purchase is made. Besides this, various discounts will be allowed to members of the Dairymen's League for prompt semoval of feeds and for cash payments.

All feeds sent out will be guaranteed to contain the ingredients set forth in the formula and in the proportions laid down. The manufacturers will send out weekly wholesale price sheets. As all business will be done on a strictly cash basis, it is believed that the average price of feeds will be much lower to the farmers than is now the case, for dealers will not have to charge for carrying over bad debts. The plan promises to cut down the number of distributors and to give the farmer feeds mixed to approved standards at mominal prices.

#### Butterfat and Income When Production Doubles, Income Trebles

T is well known that profitable cows must be comparatively large producers, yet few people

realise fully the remarkable rate at which profits advance as production increases, say dairying specialists of the United States Deparment of Agriculture. The following Agures obtained i om the records of 1,668 cows in various cow-teeting associations, show how rapidly with increased production of butterfat income advances over cost of feed.

#### Production and Profit.

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FARM AND DAIRY

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A Part of the Dairy Herd of Mr. N. Clark, Killarney, Man., a Province where Dairying is on the Increase. --Photo courtesy Manitoba Department of Immigration and Colonization.

As butterfat production increased from 150 pounds to 300 pounds, income over cost of feed advanced from \$18 to \$66, or as production doubled income above feed cost increased from 150 pounds. As butterfat production increased from 150 pounds to 450 pounds, income over cost of feed advanced from \$18 to \$108, or as production trebled income above feed cost increased six times. If no expenses except the cost of feed are considered, the cow that produced 450 pounds of butterfat was as profitable as 27 cows of the first group, whose average production was 100 pounds. If labor and miscellaneous expenses also could be taken into gonsideration the results would be much more striking.

A further study of the records showed that the cost of roughage was about the same for all groups, but that the total cost of feed was somewhat greater for the more productive cows. The increased profit should therefore be credited in part to better feeding, but apparently it was more largely due to better cows. The present high cost of feed will eliminate the low-producing cow. or it must eventually eliminate the dairyman who keeps such cows. More cows are needed, but better cows are needed more. Certainly it pays to keep souch cows and to feed then well. their fertilizing value. I will value these fertilizers at pre-war prices, as perhaps they will be used to grow post-war crops, which will sell at pre-war prices. Also they are not so available as in commercial fertilizers, and therefore I cannot value them at the highest price. A fair basis, I believe, would be 15 cents a pound for nitrogen, four cents for phosphoric acid and five cents for potash. At this rate the fertilizer that I would have a market value of \$78.86, and the real returns from my acreage would be just \$371.14. If I want to be fair to the soil, I would have to go out and buy fertilizers for \$78.86, which would be a cash outlay.

#### The Loss in Selling Hay.

There is a serious loss in soil fertility in selling grain, but when we sell hay off the farm, the fertilizer consideration is even greater. Take clover hay, for instance. The crop this year was so good that the price in the barn would not be more than \$7 to \$10 a ton. From Henry's "Feeds and Feeding." I find that a ton of clover hay contains approximately 40 bs. of nitrogen worth \$6; 11 bs. of phosphoric acid worth 44 cents, and 37 bs. of potch worth \$1.5. a total of \$8.29 worth

### Feeds That Make for Fertility Considerations in Buying and Selling

"WHY is cottonseed so expensive?" I asked of my feed dealer. His answer was illu-

minating. "For one thing," said he, "it is going up because all other feeds are, and in the second place the fertilizer manufacturers are buying hundreds of carloads of it to make into fertilizer."

This answer afforded food for thought. If fartilizer manufacturers can afford to buy cottonied meal to put into the fertilizer, which later they sell to us, then why should we not consider the fertilizing value of the concentrates which we buy to feed to our dairy cows and likewise the fertilizing value of the raw products, which we sell off the farm? Both have a relationship to soil fertility and there are a few of us whose farms are so rich that they cannot stand improring. I were thome and tid a little flarurins.

This year I had 15 acres of outs on our 100-acre farm. The crop was a good one and they threshed out at the rate of 50 bushels to the acre or 750 bushels from the field. I could have sold these cats for 60 cents a bushel, or 450 for the lot. 1 got down Henry's "Peeds and Peeding" and figured out that in that 750 bushels of oats, there were 4368 has of nitrogen, 1873 lbs. of phosphoric acid and 1152 hbs. of potash. Did I sell that crop of oats, I would be hauling all of that fertility off my farm. Realty what I would be realizing on the cats would be 4450, minus



A Thing of Beauty and a Joy Forever This magnificent elm was photographed by in editor of Farm and Dairy in a New England pasture field What would be its worth in an otherwise shadeless pasture? of fertilizing ingredients in a ton of hay that we would have to sell for about the same figure. Of course, in selling clover hay, the soll is not impoverished to this extent as the nitrogen is taken largely from the air. 1, however, am anxlous to increase the fertility of my soll. Gan 1, therefore, afford to sell clover hay for \$\$ or \$10 when by feeding it on the farm, I can return to the soll'at least \$6 worth of fertility, taking for granted that there will be a loss of only 25 per cent. in the handling of the manure?

What I really started out to discuss, however, was the question of buying feeds. Feeds this winter are high. We dairy farmers know it well. The aforesaid feed merchant, however, gave me a new angle from which to view the feed proposition. All of the common concentrates are rich in nitrogen, phosphoric acid and potash. If manure is carefully handled, 75 per cent, of this fertilizing value should find its way into the land. A bag of bran contains 29 cents' worth of nitrogen, nine cents' worth of phosphorus and six cents' worth of potash. Therefore when my feed merchant puts a bag of bran in my wagon for \$1.75 to \$2, he throws in about 44 cents' worth of fertilizer. It is only fair, therefore, to credit that bag of bran with 44 cents, bringing the cost down to \$1.31 a hundred pounds.

#### Oil Meal and Cottonseed Meal.

Another concentrate of which we buy considerable, is oll meal. Figuring it on the same basis, it contains 71 cents' worth of fertilizer per bag. Finally we come to cottonseed meal, which started the discussion. I have been toid that in the days when cottonseed meal was very cheap, farmers in the New Encland states spread it directly on the land as a fertilizer. Cottomseed meal will return to the land 94 cents' worth of fertility for every 100 lbs. fed, or a rebate of \$18.80 a ton. I can buy cottonseed meal was the she methed at \$45, which makes the real cost about \$40 a ton for feeding. That is, providing I am in a position te make good use of its fertilizing redients.

Perhaps 1 have painted the picture a little tos attractively. If I were farming on good, new soil, rich in humus, I could not afford to pay much for potash. I could get my nitrogen by clovering and with both of these ingredients out of consideration, I could buy phosphorus most cheaply in the form of basic slag. With most of us, however, the previous generation took full advantage of virgin fertility, and the maintaining of the productivity of our soil is one of the biggest questions in farm management. I and, I think, most of the other farmers in Easters Canada, can well afford to figure the value of the fertilizer we are buying in concentrated feeds.

Implements are going uhusually well at all fait sales. The retail price on new machines is continually increasing. The loss from poor shelter or no shelter at all for farm implements is, themfore, a more formidable sum now than before the war.

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rage income • feed cost: \$ 4 • 18 • 29 • 43 • 56 • 68 • 88 • 108 FARM AND DAIRY

# Farm Management

#### Troubled With Sow Thistle

We are troubled with sow thistle. We can at to be the work kind of weed grows in patches and kills out everything. Can you give me any infor-mation on controlling it - W. J. W., Grey County, On.

Sow thistle is usually most trouble Sow thistle is usually income grain some on heavy land where grain growing is followed extensively. It is makes and the source of the source forms where a short rotation of crops is followed with a large percentage of The best method of controlling the pest is never to give it a chance to grow. This can be best ac-complished by heavily manuring the soil and a heavy seeding of all crops, especially with clover. Heavy seeding on land that has been well fertilized will crowd out almost any weed. In any cases this may not be possible on a large scale, but where only one or two fields on a farm are infested, it might be possible to give the treatment recommended to the fields in question. Pasturing the ground infested with sow thistle, also tends to keep the weed in check.

For immediate results a good plan ould be to manure the thistle patches fairly heavily, summer failow thor-ouchly until July, then plant rape in drills and cultivate, or seed heavily to hundrefact. Plowing fields buckwheat. Plowing fields imme-diately after harvest and keeping clean until late in the fall, also helps to bring sow thistle under control. It is a dangerous weed and half way mea-sures of dealing with it, will result in buckwheat. disappointment.

#### Grow Root Seed

F you set aside a few choice roots at harvest time this autumn and then make up your mind to grow a sup-ply of mangel, turnip and carrot seed, at least sufficient for your needs, you will save yourself a number of disap-pointments in 1919 and future years. AH signs point to a serious root seed shortage, a shortage that can only be remedied by the growing of these seeds on the home farm. Select two dozen smooth, well shaped mangels, turnips or carrots of your own favor turnips or carrots of your own favor-ite variety. Put these carefully away in cellar or pit to await the coming of sprinz. In April when the soil is in condition to plow, bring the stock seed roots out of storage and set them in position that they may produce a seed crop. In soil well pre pared by plowing or cultivating, plow a deep furrow or dig holes sufficiently deep to plant the seed roots, so that the crown will be the only part ex-nosed at the level of the ground sur-Cultivate the soil about these face. plants as you would cultivate nota-toes. The seed hearing stalks will appear very soon after the roots are set; these will continue to develop during the season and in July will blossom and set seed. The ripening process will continue through August and in Sentember the seed will be ripened

With mangels, beets or turning when ripe the entire plant may be cut at base of the stalks; these may be threshed with the aid of a flail or a rubbing board or a threshing machine as soon as dry or the crop may be put away in a dry place to await a con-venient time. After threshing, the seed may be cleaned with the ordinary sloves or fanning mill used for grain. With carrots the seed heads are gath ered as they ripen and stored until ready to thresh and clean. Where small quantities of seed are grown the seeds may be threshed and freed from the stalks by simply rubbing the seed

#### November 8, 1917.



Brantford, Winnipeg, Regina, Calgary

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but one kind of carrot. If you grow more than you require and aid in preventing the evils of a seed shortage in your district, you will then be per-forming a national service.

#### Handling Liquid Manure.

DITOR, Farm and Dairy: 1 read L an excellent article in your issue of last week entitled "Getting Ready for Potatoes." One thing, however. I do not agree with the method advocated for handling liquid manure. I was glad to notice that Mr. Kyle fully appreciates the value of liquid manure as a fertilizer and a soil improver. Now to get the full value from liquid manure, we must not allow any of it to be lost, and we must be care ful not to be toer, and we must be care-ful not to apply it wholesale. A little of it should go a long way, and our practice should be so directed to make it go a long way. Spreading it over the land in barrels is neither a con-servative nor an efficient method of utilizing it.

The proper way to handle liquid manure is to have it absorbed in the litter and incorporated with the manure and make one distribution do in-stead of two, as the author of the article in question advocates. Labor is rereases the farm chores should be guarded against. The question of night stabling during the coming sumnight stabing during the coming adm-mer might even be answered in the negative, and one could justify the answer. The custom has become almost established, and probably we almost established, and probably we will continue to night stable. As to handling manure, it is not always practicable in the summer months to take time to haul it out. Why not use more litter and soak up the use more litter and soak up and liquid? This will result in less loss of liquid. It makes for a cleaner stable and at the same time adds considerable organic matter to the soil. This I would say is the most efficient method of utilizing the most encoder the same time it cuts down the labor and lessens the waste.-T. H., Fredericton, N.B.

#### Cropping Muck Land

WHAT is the best and most profit-shie crop that I can grow in a muck field and now should it be cultivated?-C.S.H. Ontario Co. Ont.

Taking it for granted that your en quirer refers to farm crops rather than to special crops such, for instance, as celery and onions, I would say that we have had considerable experience on the Central Farm here and on our other Experimental Farms, in the growing of crops on muck fields, and have found great differences in the facility with which they may be grown on different fields of what are usually termed "mucky" soils; that is to say, some muck soils will produce almost any variety of cereal and give fair yields, whereas others will grow only certain kinds and even then not do very well.

I may say, however, that, in a gen-eral way, bartey has been found to do much better than either wheat or oats, and, in fact, barley will grow and pro duce a crop when either of the other cereals may die off after about a month of growth. Corn for either grain or of growth. Corn for either grain of fodder usually does fairly well. Man-gels do exceedingly well, but are a little difficult to start. As a rule, clover will grow and give a good re-turn, while timothy does wonderfully well on such soil once it has a good start

Probably the best rotation for such



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**A** Provision

for

**Old Age** 

OLD AGE involving

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ally shrink from it,

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8, 1917.

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## Engines

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y and exa demon-sands of Get one place your

a for work title, as it ha. a full line Grinders, iks, Water etc. mailed on

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a field would be about as follows:-

Ist year: Corn or mangels. 2nd year: Barley, seeded down with a mixture of 10 bbs. timothy, 8 1bs. red clover and 2 1bs. alsike per acrered clover and 2 lbs, alsike per acre-the land being rolled before seeding and again after seeding and then scratched lightly with a harrow after the second rolling. 3rd year: A mixture of timothy and

clover hay.

4th year: Chiefly timothy with some **s**laike

the double rolling has the effect of compacting the muck, which, generally, is so light and open as to dissipate its moisture rapidly and so interfere with germination. If roots should be used rather than corn, the greatest care is necessary to see that the seeds are put well down into the damp earth and that it is packed firmly around them. that it is packed nrmiy around them. Partially germinating the seed, or at least soaking it well, before planting, is likely to help greatly on this mucky land,--J. H. Grisdale.

#### Distribution of Seed

E DITOR, Farm and Dairy,—By in-structions of the Hon. Minister of Agriculture a free distribution of superior sorts of grain and potatoes will be made during the coming winter

will be made during the coming winter and spring to Canadian farmers. The samples of grain for distribu-tion will consist of spring wheat (5 has), and field peas (5 has), barloy (5 has), and field peas (5 has), that for will benefal Parm, Ottawa, by the Do-minion Ccrealist, who will farmish the necessary application forms. A distribution of orotaces in sam-

necessary application forms. A distribution of potates in sam-fies of nour tool of the Experimental Farma, the Central Farm supplying only the Frovince of Ontario. All samples will be sent free by mail. Only one sample of frain (and one of potatoes) can be sent to each applicant. As the supply of seed is limited, farmers are advised to apply very early. J. H. Grisdale, Director, Dominion Experimental Farms.

## FARM CHATS

#### Duty Free

H. Percy Blanchard, Hants Co., N.S. H. Percy Blanchard, Hants Co., N.S. P ARADOXICAL as the statement when the "United Farmers of Canada" may yet thank the Govern-ment for its duty on farm implementa. Among the most interesting chapters of British history is the story of the birth and growth of cooperation in Britain. I need not repeat it. Suf-fee to point out that it was upon op-mention if they we When the little cofice to point out that it was upon op-position it throws. When the little co-operative retail stores were rotused goods by the trade wholessiers, they organized their own wholessier depart-ment. When the meaning of the properties of the store of the store of the tories. To day they manufacture pra-tiessily all that the members consume. In Canada, for a farm implement

theally all that the members consume. In Canada, for a farm implement that retails at \$25, it costs, simply to manufacture it, about \$12.50. The bal-ance of \$12.50 is made up of distribu-tion, advertising, profits of manufac-ture, wholesaler, retail depots, local agents, and losses from bad credit sales. It is this total the farmer must new

sales. It is this total the farmer must pay. The day is not far distant when the "United Farmers of Canada" will manufacture their own implements grind their own stanks and import and distribute their own stapks artifu rob-ably comes in the state of the star-ably comes of the start of the communication. The state of the communication of the start of the start of the start of the start of the geoduction at more than "factory" cost plus a fair profit. Were I starting

### FARM AND DAIRY

an automobile factory, a concern building engines would sell me en-gines in quantities at such rates, ir-respective of their retail price. But you can bank on the assurance

But you can bank on the assurance that the implement factories in Cana-ada won't cut much into their retail prices for the United Farmers. They-know the United Farmers ant't go to the Diates to fill their orders, because of the protection duty. But they may not realize that the United Farmers can themselves start implement fac-san themselves start implement faccan themselves start implement fac-tories, cut prices in two, and be safe from slaughter price attacks from be-low the border by the manmoth con-cerns there trying to smash the "movement" by this very same protec-

tive duty. It is enticing to take up, coopera-tively, the manufacture of tractors.

However, this implement is in its in-fancy. There is the locomotive type, like the little "Ford"; the type which carries its own plow rather than drags carries its own plow rather than drags it; the iron horse type, like the Rein-drive tractor. All these have their special merits; and a little time is needed to test them out. The diffineeded to test them out. The diffi-culty is that every improvement is being covered by patents, and prac-tically the only way to get the right to manufacture the winner is to buy out the plant to include the patent rights. Probably the start will be made with harrows and plows, then made with harrows and plows, then wagons; until finally the more com-plicated machinery is reached when the "Farmers" distribution organiza-tion is fully developed. At the same time while I am far from defending a tariff on the farmer's raw product,

(7) farm implements, I can imagine the day not far distant when we will be thankful for it.

"I regard a mixture as more suit-able than pure seedings of the clovers," any E. A. Lods, of the Ex-perimental Department at Macdonald College. "A mixture is a safety valve, One season may favor one of the plants in the mixture, while another plants in the mixture, while another and will favor another, and a good account the burywated pury van. In reason will favor another, and a good crop will be harvested every year. In the case of alfalfs, if orchard grass is seeded along with it, the orchard grass will take the place of the weeds that would otherwise grow. Also the mixture of alfalfs and orchard gribs is easier to cure, and they will be about the set of the orthard gribs about the set of the orthard gribs about the set of the orthard gribs.



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These are a few modern devices assuring the recreation of the farmer and mis wife, or lightening their labors. Some or all of them are to be found in the more settled farming districts, and are rapidly finding their way to the fringes of Western Settlemant. Do not add to the overdene competition of City Labor. There is equal happiness and better living on a Farm. If you have been as the four settle settle settle settlemant is an act for our more is equal happiness and better living on a farm. So the four settlemant is a settlemant of the four settlemant is an act for our more the field out settlemant and the four settlemant is a set for our mission settlemant is and any of our descriptive bookies apply to names dama or write our laborate and any of our descriptive bookies apply to names dama or write our laborate for the four the four the four the four settlemant is and the four the four settlemant is and the four the four settlemant is and the four settlemant is and the four settlemant is a set of the four settlemant is and the four settlemant is and the four settlemant is and the four settlemant is an art for the four settlemant is an art for

CANADIAN NORTHERN RAILWAY

FARM AND DAIRY



#### Marketing Poultry M. C. Herner, Prof. of Poultry Husbandry, Man. Agri. College.

THIS is again the season when the surplus farm chickens find their

way to market. This year, as during other years when we have had a mild fall, the crop of chickens tends to move later in the season that when the fall is rough, cold and wet. When the latter conditions prevail, farmers are always in a hurry to get rid of their stock. Prices usually are better early in the season, and the feed required is also less.

This season we are somewhat at a loss to size up the situation satisfactorily. The demand for dressed chickens has not been nearly as good during the summer and fall as in former seasons. It has been very er-During other seasons broilers ratic. have always been in demand; but this year the call for them has been only very limited; and the prices have been much lower. Some poultry raisers argued that the customers boycotted them; but we believe it was only a natural result of the high cost of living. Dressed poultry, especially broilers out of season, must be con sidered more or less of a luxury; and a luxury at best is high priced.

Coming to conditions at this time of year, we find them considerably changed. This is the natural season for marketing poultry, and prices are correspondingly lower. In fact, prices right now are so low as to make poul try meat a far cheaper article of diet than any other except fish. Right here it might be stated that the best advertisement the poultry industry the price of all other meats has gone up sky high, corresponding to the price of feed, those of poultry have remained comparatively low, thus encouraging larger consumption of poul-try. The effects of this are likely to try be seen this fall. The price of chick-ens this fall is no bicher than a year ago, and yet the price of feed is about double that of last year

At this time it might be well to point out the danger we see in poultry being marketed in poor condition. Feed of all kinds is high priced, and there is a tendency to rush in the farm chickens in a rough unfinished feed be Even though condition scarce, it will pay to finish the poultry pronorly. On an ordinary farm, where there are 40 to 50 surplus cockerels, it would be well to make two shipments, selling off the bigger ones as early as possible, and the smaller ones later. Under no condition should farmers

sell off pullets that are likely to make winter lavers. farmer to go through his flock carefully right now and sort out all the old hens and sell them off, or use them at home. Probably they are worth just as much to his household as food, as to somebody else. These do not require any special fattening: they are ready to go any time.

#### Poultry House Disinfection

cation of poultry diseases is the adoption of proper sanitary measures at the outset. Infectious is the man who gets along. The work disorders will recur no matter how expended in producing a poor article wisely treated, unless such treatment is largely wasted and results in disis supplemented by the liberal use of couragement.

November 5, 1911.

efficient disinfectants. Disinfection is the one basic principle upon which rests freedom from disease and pre vention must occupy the foremost place if headway is to be gained. The proper method of disinfecting fowl houses is as follows:

Remove all litter from the floor and nesting places and burn as near the building as convenient to avoid contamination of the surrounding soil. possible remove nests, roosts and other portable fixtures and place in other portable nxtures and place in the sunlight. Empty all hoppers, feed bins, etc., of dry mash and other grains and discard grit or scald with boiling water before using a second time. Scald all utensils, pans, etc. If cotton fronts are used, these should be removed and either washed thorough ly or scalded with boiling water. 123.240 windows should be taken out and washed with warm water and soap, the frames being well scrubbed with a hard brush. If stray lofts are used, the straw should be removed burnel with the litter. The i The inside should then be boroughly swept down to remove cobwebs, dust accumula-tions, etc., or 41 possible, flushed out with a good hose. All accumulations of hard droppings should be loosened by softening with water and scraped clean with a hoe or other sharp instrument.

#### Mixing the Disinfectant.

Disinfection may now be com-menced. Mix 50 pounds of unslaked menced. or quick-lime in a barrel of water and add to this one gallon of good commercial disinfectant. If a smaller amount is required it may be made by adding two and one-half pounds quick-lime to a pail of water plus a teacupful of disinfectant. The

that the lime is not slaked by to the air as all its disinfecting power is thereby lost. The easiest method of applying the lime-wash is by means of a spray-pump which can be purchased at a reasonable cost and can be used to advantage in other build-ings. Before using the lime solution ings. it is advisable to strain it through a fairly fine sleve or cheese-cloth, as the filter is liable to become clogged. in the absence of a spray-pump, a whitewash brush may be used, although it is difficult to fill the cracks and crevices without a stream to drive in the solution. These cracks serve as breeding places for mites, lice, etc., and should be given careful attention.

Where an infectious disease, such as tuberculosis, has been present 14 is wise to spray the interior at least twice with an interval of one week be tween each application. Otherwise one good treatment will be sufficient. The runs, if not too large, should be covered with a thin coating of airslaked lime and then spaded or plowed to a good depth. If lime is or not available, a thorough spading may be sufficient, although less effective than the former method. The runs should be changed each year if possible or divided up, one-half being sown to rape or other green crop. This cropping destroys the breeding places of worms, etc. If portable houses are used, they should be moved If portable frequently as feeding fowls and chicks on the same ground year after year, serves to infect them with numerous diseases. Allow the fowls open range if such is available.

Disinfect in the spring and fall if possible and by all means in the fall before introducing fresh stock into the fowl houses

HE principal factor in the eradian impoveriated farm.

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November 8

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Dairy Farm F. W. Fo

T PERE ar pears, fruits such a greatly incre ing extensive

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#### November & 1917

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Dairy Farming and Fruit Growing F. W. Foster, Kings Co., N.S.

T PEREs are many dary farms well pears, pluns and the smaller fruits such as strawberries, racyber-ries and blackberries, that could greatly increase their revenue by go-ing extensively into the raising of fruit, such as has already been men-tioned tioned

I have found by experience during the last 20 years, that dairying and fruit growing should be carried on jointly. Add to these the raising and feeding of hogs and you have the best feeding of hogs and you have the best combination that a man with 25 to 500 acres of land can possess.

combination that a man with 28 to 500 acres of land can posses. Hogs can be def farm. It is desire baily and one kim milk to feed the one of the set of the set of the one of the set of the set of the one of windfall apples and cuis they can be fed either whole, or better still, or corn meal with them. In this way to of worthless apples can be con-they are not available pork. They are not better still, they are not better still, and the set of still and better help is employed they are nound. There is sufficient set of apples. The work gas of a nemoothly and everything is done at Dairying and here are being is done at an above, but where orcharding and the raising stried on, my avice is to sufficient the business principles are sufficient to the sufficient of the sufficient the raising tried on, my avice is to sufficient the business principles are be setificatory.

### Cooperative Fruit Selling

Cooperative Fruit Selling Medical Cooperative of the instance in America is the California Fruit Graver were Stechange. In the year of the angle of the angle of the angle of the second seco

country. The service is performed at absolute cost. According to the report for the year just closed, the exchange now mar-kets 69 per cent. of all oranges, lemons and graps fruit grown in Cali-fornia, totalling 15,492,990 boxes of citrus fruits. This fruit was market at a cost of four and three-quarter data box out the management point cents a box and the management point cents a box and the management point with pride to the fract that not a penny way to warrate their scapely The growers owned has year purchased for 40.5%. They own their scapelies worth and sawnills, and make their cracts and sawnills, and make have tracts and sawnills, and make have and sawnills and scape of the plant was built tast year for the pro-duction of cirrus acid.

Jant was built hast year for the pro-duction of citrus acid. Great success has been achieved by the exchange in their advertising. For this purpose each box of oranges is assessed two and one-quarter cents, and every hox of lemons, four cents. Last year tigh meant a fund of nearly haff a million dollars for publicity work. During the 10 years in which advertising has been done, consump-tion of citrus fruits has increased 80 tion of citrus fruits has increased 80 r cent. or four times as rapidly as he population.



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FARM AND DAIRY Peterboro Ontaria

### FARM AND DAIRY

### SHEEP AND SWINE

### The Cross-Breeding of Sheep

CORRESPONDENT writes in A stating that he is desirous of croasing his flock of Leicester ewes with an Oxford sire. He asked if the lambs from this cross should again be bred to an Oxford, and if still further crossing with Oxford sires would further increase the flesh and wool of the flock.

So far as we can judge, such a pro-cedure would not bring the satisfactory results desired. The crossing of breeds in sheep is a practice which has a distinctly temporary purpose. In many places the larger breeds are crossed with an early maturing breed to get early market lambs with good sized carcasses. Continued after the first cross, the progeny usually proves inferior

True, a number of the prominent breeds, especially those of mutton judicious cross breeding. But it has been demonstrated that no more difficult task in breeding animals than crossing can be attempted. It calls not only for the application of correct principles, but for a degree of practical judgment out of proportion to the benefits to be ordinarily derived from crossing. Time and again good strains of sheep have deteriorated by cross breeding.

While many of the long-wooled breeds of sheep have been benefited by a cross of Leicester blood, results from Leicester and Oxford crosses have not been more than moderate. and in many cases failures have re-sulted. The best plan to be pursued our correspondent seems to be that he sell his flock of Leicesters and purchase grade Oxfords direct.

#### Curing Pork on the Farm

THE advent of the cool autumn days' will turn the attention of the farmer to his meat supply. 1 He has not usually access to cold storage facilities which might enable him to use his meat in a fresh condition. are facilities which mucht enable hum build build build build be and be and be and be and be and be are used be and the the foods that are used be so it is therefore necessary for him to combined as to produce the maximum take such precautions as will ensure of results. The question of housing take such precautions as will ensure him his meat supply in a palatable condition, and will diminish the danger of its spoiling.

The first essential in curing pork is to allow the carcass to cool thoroughly after the animal has been slaughtered. The animal heat will usually have escaped in 24 to 36 hours. After the meat has thoroughly cooled, the carcass may be cut up in pieces of convenient size for handling and oured. Sugar cured pork is prefermore pleasant flavor and because the meat is not so hard.

and pack it in a cool place over night, The next day pack it in a barrel or an earthen jar, with the heaviest hama and shoulders at the bottom, the lighter hams and shoulders next, and the bacons and tongues at the top.

For every 100 pounds of meat weigh out 10 pounds of salt, two and one-half pounds of brown sugar, and two ounces of saltpeter. Rub those together thoroughly, taking care that the saltpeter is finely powdered. Dissolve the whole by stirring it into four gallons of boiling water. Allow this brine to cool thoroughly, and then pour it over the meat. If it does not entirely cover the meat, and more Good ventilation is possible without water. The brine should cover the drafts in the stable. A gradual remeat at all times. The mean may be newing of the air without drafts is away, for if it is not covered the pro-errord systems.

#### jecting meat will decompose in short time

If the brine shows signs of fermenting during the curing process, it should be drawn off, boiled, and cooled, and then poured back on the meat.

The bacons and tongues may be taken from the pickle after four to six weeks, and after being washed in warm water they may be hung in the smokehouse and smoked. The light-er hams and shoulders will be ready to take out of the pickle in six to eight weeks, and the heavier ones at the end of the eighth week. Dry Saiting.

Rub each piece of the pork with a mixture of salt and pulverized salt-peter in the proportion of 10 pounds of salt to four ounces saltpeter for of sait to four ounces satipeter for from one to three minutes, according to size of piece. Spread a layer of this mixture one-eighth inch deep on the board or table on which the meat it to be placed and an equal amount over each piece. At the end of five days this operation should be repeat-ed. After 10 more days, the blood and uric acid, which often cause unpleasant flavors in meat, will have been extracted and there is no further ne of saltpeter in the mixture. T The meat should then be given an application of salt and sugar made in the proportion of 10 pounds of salt to four pounds of sugar; the sugar will serve to keep the meat soft. These pieces may be placed in a barrel with a false bottom about four inches from the real bottom to provide a recep-tacle for the fluids which may come

out of the pork during the process. At the end of 15 days, pieces not exceeding 10 pounds in weight will be sufficiently salted. Pieces exceeding 10 pounds and those not intended to be used within two months should be given another application and should be given another application and should remain in the mixture for another two weeks. A covering should be placed over the barrel to prevent the meat being frozen.

#### The Feeding and Housing of Swine

O<sup>N</sup> account of the high value of concentrated foods suitable for swine feeding, it is important also enters largely into the profitable production of pork. To encourage farmers to raise as many hogs as pos-Tarmers to raise as many hogs as pos-sible, and to make the most money therefrom, the Department of Agri-culture at Ottawa has issued Pamph-let No. 22 on the "Feeding and Hous-ing of Swine." This pamphlet, which may be obtained free at the Publica-tions Brench, Densel, Den tions Branch, Department of Agricul-ture, Ottawa, deals also with the questions of breeding and care of the ani-mals at different ages and at different 

that an expensive piggery is unneces-sary. Brood sows may be kept under most circumstances, even in the winter season, in a single board hog cabin. This pamphlet gives specifications and plans, not only of a large piggery, but of a cheap and portable cabin.

Palatability is one of the most im-portant factors in a good ration. It is almost as important as a proper balance of nutrients.

erford systems



November 8, 1917

FARM AND DAIRY

### November 8, 1917. l decompose in a

ws signs of ferment curing process, it off, bolled, and cool-ed back on the meat. nd tongues may be pickle after four to ter being washed in may be hung in the smoked. The lightalders will be ready he pickle in six to the heavier ones at thth woek. Saiting.

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G. B. Rothwell. fter much experi lown the principle lggery is unneces-nay be kept under even in the winter board hog cabin. specifications and large piggery, but able cabin.

e of the most im a good ration. It tant as a proper

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# Farmers! Help the Nation— Buy Canada's Victory Bonds

WITHOUT the help of the farmers of France in 1871 France would have remained for many years in the bondage of the Huns.

Germany demanded a billion dollars indemnity and the farmers came forward with their savings and hastened the delivery of their country from the clutch of the invader.

In the world's history the husbandman has been the sure reliance of all nations, and to-day Canada, with reason, relies upon her farmers to uphold the nation in its need.

HIS YEAR when Canada called upon her farmers to produce as they never did before, they answered the call with a magnificent crop.

Also they have answered the call to arms in keeping with the best traditions of the noblest peace-calling in the world -Agriculture.

It has been only by the establishment of credits on a vast scale for the Imperial Government that Canadian agriculture this year found a market for its grain, cheese and other products.

And now Canada sounds another call to the farmers of her broad domain.

Canada asks that they shall buy Victory Bonds.

-that the war may be carried on to victory and lasting peace,

-that Canada may continue to produce the imperative food needs of Great Britain.

-that the producers may continue to have a cash market for their grain and cattle and dairy products.

Canada's Victory Bonds will be on sale beginning Monday, November 12, next.

"Canada's Victory Loan All About It"	Chairman, Provincial Com Canada's Victory Loar Toronto.					
is the title of a pamphlet that should be in the hands of every man and	Kindly send me a copy of entitled "Canada's Victory About It."					
woman in the country.	Name					
Mail This Cassas	Street or R.R.					
Mail This Coupon	PO					

at once and get your copy

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f pamphlet Loan - All

Prov.

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

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#### Bural Home

"The Farm Paper for the farmer who milks cows." Published Every Thursday by The Rural Publishing Company, Limited Peterboro and Toronto

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SUBSCRIPTION PRICE, \$1.00 a year. Great Britain, \$1.20 a year. For all countries, except Canada ADDRESHIDTION PHILE, 3100 4 years contained and a second control of the second contro

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#### CIRCULATION STATEMENT.

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#### OUR GUARANTEL

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#### The Rural Publishing Company, Ltd. PETERBORO AND TORONTO-

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

#### Hon. Martin Burrell

E VENTS of national and international import-ance are transpiring with such rapidity we are apt in days such as these to overlook matters that under normal conditions would receive more attention. The resignation of Hon. Martin Burrell as Dominion Minister of Agriculture, after six years of capable service in that office, is one of these. During his administration the Department of Agriculture made noteworthy progress and was strengthened in a number of important respects. The greatest achievement of Hon. Mr. Burrell was the setting aside of \$10,000,000 to promote agricultural extension work throughout all the provinces. Much excellent work has been accomplished by means of this fund, and the Dominion and provincial departments of agriculture have been brought into closer touch with one another than ever before. The appropriations for the different branches of the department of agriculture were increased by Hon. Martin Burrell and their opportunity for service increased in proportion.

Among the most important improvements made might be mentioned the separation of the fruit from the dairy division, and the appointment of Mr. D. Johnson as Dominion Fruit Commissioner. Mr. Johnson has proved himself to be the right man in the right place, and has accomplished valuable work for the fruit interests during his term of office. A similar forward step was made when the live stock and veterinary divisions were separated and the former placed under the capable management of the late Live Stock Commissioner. Jna Bright. Breeders of pure-bred stock throughout the Dominion bear testimony to the excellent

#### FARM AND DAIRY

work the live stock department has accomplished during the last few years. One of the best steps made by the department was the creation of the markets division under the supervision of Mr. H. S. Arkell, B.S.A.

Under the direction of Mr. J. H. Grisdale, Director of Experimental Farms, the work of the experimental farms throughout Canada has been placed on a more practical, and therefore more serviceable, basis than formerly, and the various farms have made marked expansion in the scope of their work. Much more might be said for Hon, Mr. Burrell's administration. He leaves behind him a very creditable record of work well done

The new Minister of Agriculture, Hon, T. A. Crerar, is fortunate in finding a well-organized and efficient staff, ready to carry on with him such policies as he may approve. With the exception of the Deputy Minister of Agriculture, who has never been properly qualified to fulfil his responsible duties, the head of every division of the service is well-known and highly thought of by those with whom their duties have brought them in contact. This being the case, still greater expansion of the work and usefulness of the department may reasonably be looked for under the administration of Hon. Mr. Crerar.

#### How About Oleo ?

LEOMARGARINE is now a fact. Before this issue of Farm and Dairy reaches Our Folks it may be on sale in Canada. Our efforts for its continued exclusion have failed. Just how seriously dairymen's protests were considered is indicated by the fact that final action was taken without consulting any representatives of the dairy industry. And now the question is, what shall be our attitude in the future?

Farm and Dairy is disposed to agree with the claim of the Food Controller that the introduction of oleomargarine will have no present influence on the price of butter. Much of the butter now produced in Denmark, Norway and Sweden is finding its way into Germany. The same is true of the output of Holland, although hutter has never been an important export of the Netherlands. Siberian supplies have not been reaching Britain since the outbreak of the war. The natural result of these war conditions has been a strong demand from Britain for Canadian butter, and it is this export demand that regulates the price of butter in Canada at the present time. But what of after the war, when the market drops back into normal channels and the export demand is greatly decreased or ceases altogether? It is then that oleo competition will make its influence felt on the butter market, and the manufacturers of oleo may be able to use their product to force the butter market up or down at will. Fortunately, the present Order-in-Council admitting oleo to Canada is a war-time measure only. If, from our experience in the meantime, it appears that oleo will endanger the natural trend of the butter market, then it will be up to our farmers' organizations to exert their full power to have the restrictions replaced on oleo when the war is over.

There is a present duty for the dairymen's associations. The restrictions on the use of oleomargarine are severe. They will not be pleasing to the packers. They are calculated to keep oleo in its own clothes. Such clauses as those which prohibit coloring, and giving publicity to its use in eating places, will be a subject for constant attack. We, who are interested in maintaining these restrictions, should see to it that the government stands firmly by our interests and that the restrictions are properly enforced. In this we will need to be vigilant. Even more vigilant will we need to be in guarding against attacks on the time limit of the Order-in-Council. Already prospective manufacturers of oleo are asking that this limit be removed in order that they may erect plants in Canada, and the interests supporting them are powerful.

In one respect the regulations of the present are unfair. Imported oleo is not subject to tariff restrictions. The buttermaker, on the other hand, is hemmed in by tariff restrictions, All of his supplies are subject to a heavy protective tariff. The same is true of the farmer who produces the cream. At every turn the protective tariff enhances its cost of production. Would not dairy farmers be justified in contending that they be given the same unrestricted conditions that oleo manufacturers, who will be shipplying their products into Canada, enjoy? In demanding the removal of tariff restrictions the farmers' organizations of Canada are already united

#### Automobile Thieves

HEY are a continually increasing pest. They are found in every part of Canada, but more particularly near towns and cities. We do not refer to the men who steal other folks's automobiles. Oh, no; our reference is to the folks who ride in their own autos, paid or not paid for as the case may be, and who consider it quite

legitimate to climb the roadside fences and despoil orchards and gardens. Many of these pleasure seekers, with their moral sense absolutely perverted, consider it quite clever to come home from the country loaded down with green corn. pumpkins, melons, apples, and even chickens, pilfered from the long-suffering, hard-working farmer.

Did these people steal the same produce from the store front of their local greengrocer they would expect to be run into jail for it. They would never think of taking a bottle of milk from a neighbor's doorstep. They would draw a huge distinction between these two kinds of theft. though from a moral standpoint they are identical. We would not care to suggest that a loaded shotgun might help to correct the perverted senses of these marauders, but if this kind of theft continues to increase, it is quite evident that farmers, in districts surrounding towns, will have to organize for their own protection.

#### Wiring the Farm House

few weeks ago we visited a new home of a A farmer friend of ours. It was most complete. With great pride he showed us the bathroom upstairs, the well equipped laundry in the cellar, and hot and cold water on tap everywhere it was needed. Finally he called our attention to the wiring. We have no source of electricity yet," said he, "but when electric power does come our way, we will be all ready to use it in lighting our home."

We regarded this last as an instance of real foresight. Hydro-electric power lines are being pushed rapidly over rural Ontario. Rural radial lines in contemplation will also furnish electric energy to many thousands of farmers. At the same time home plants for the development of electric energy are being perfected and adapted to the farmer's requirements. It is not too much to say that within a few years the majority of farm homes, in the older sections of Canada at least, will be electrically lighted. In the most of these the wiring will have to be exposed, and it is unsightly as well as unsafe. The wiring of a house can never be done so cheaply or so well as when the building is being erected and the wiring is all confined between walls. Prospective builders will be wise to plan for the wiring of their new home, and wise builders will have competent electricians to do the work, for electric wiring is safe only when the job is well done.

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#### November 8, 1917.

Maximum Prices Not Wanted Throlt, Furm and Daity.-Allow me to compresulate you on the the approximate of the second the second approximate the

very little but misrepresent us. One thing I would like made clear to the farmers, and have it made a party issue at the next election, is

#### AD TALK

Good Prices—But Good Stock Y<sup>OU</sup> are a breeder of pure bred stock. What's the best method of selling it? That's your

problem. That was John Arfmann's problem, too. Hs got only \$2500 for his first buil calf. (That's as much as a whole lot of others are getting right now). A neighbor saw the ad, and was along the next morning before breakfast. John thought it a good sale.—But found out later it was far too low a price. He hadn't reached enough prospects and so had to take a low price. Arfmann never forgot that lesson.

The same problem is before the breeders today. They sell real good stuff, some of it choice stuff, at partically beef prices. And all for the simple reason that other breeders don't know about them or are not made to appreciate them. You may not become as noted a breeder as John Arfmann, but other breeders, those whose names and stock you see in the advertising columns of FARM AND DAIRY, also get some prety long prices. They get it because they advertise.

Farm and Dairy will cooperate with you in securing batter prices. We reach practically every man in Canada keeping pure bred dairy animala. We also reach a host of dairy stock men who keep good grades and use pure bred sires. These men will eventually drift into the pure bred business. They form a market for thousands of head annually. And they require good stuff also.

All these people scan our advertising columns every week. That is why we can sell your surplus stock and reach just the buyer for which it is best suited. Our large advertisers-both live stock and general-can tell you If it pays to advertise. The proof is that they continue to do so in increas-inniv large snace. The breeders also make a special effort in connection with the CHRISTMAS AND BREED-ERS' NUMBER which this year appears on December 6th. Be in this issue if you have something choice to offer. Good nhotos do effective work with prospective buyers-your herd sire, your hest cow. or some of the young stuff-will keep your herd prominent. It is as profitable a form of publicity as you can attain. Ask us any information on the publishing of these photos, or assistance in ar-ranging your advertisements-anything that will help you secure the best results not only on December 6th, but in the coming winter season. C. G. McKillican, Live Stock Rep-

Farm AND DAIRY, PETERBORO, ONT.

#### FARM AND DAIRY

the placing of maximum prices on farm produce. I am an independent in politics and I would say to either or both political parties, 'keep your hands off.'' There are not many who are elamoring about the high cost of living who are doing anything to remedy conditions. One might say with a clear conscience that union labor is the cause of this great shortage and it did not start with the war, be long, before. Have they not made scale of wages as high as possible and have these inducements not attracted every available workman to the city, and ensuefully the younser element? Are they to jcitate to their employers what scale of wages they shall receive and at the same time dictate to us farmers what we shall receive for our produce, or shall supply and demand control both? Why are our government officien's considering the adviament officien's normality and demand control both? Why are our government officien's normality and the county to assist with the plowing. While every little bit helps, 25 such machines could not do half of the work they have orders for. A plow of that king coust sfoll on the United States: It costs a little over \$3,000 lore. Why does the government not the farme and the dist on as and they be does the government not the farme and inclus the bit helps, 25 such machines could not do half of the work they have orders for. A plow of that kind costs \$560 in the United States: It costs a little over \$3,000 lore. Why does the government not the machines could not do half of the the farmers half and the sasteaters place a price on our commonities, it will have to be hept on forever, for the farmers will not bear the hurden, but will also follow the termal to the cities. Prices will alwas the same trail back to the farm and commence modering.—G. Grimahaw, Frontemac Co, Ont

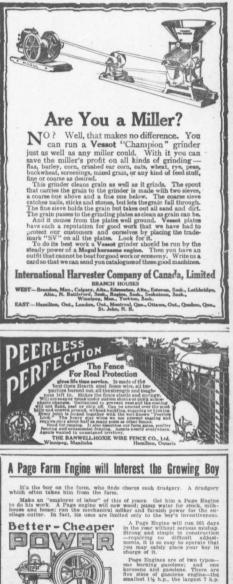
#### The Fatherless Children of France

EDITOR, Farm and Dairy.-You have done so much in placing homeless Ganadia children in chadlen fram honder, children in to me that you will sense that it occurs to me that you will sense that it or the sense of the sense of the clear for the Relief of Franchene Soclear for the Relief of Franchene or phans known as "The Plancheness Othdren of France." Neither France or Belatum. I understand, will permit of the country for chopton in American homes. The French government, however is giving thefr ulmost coopertion to the branch of the work that I have just mentioned.

The object of this organization is to surplement by 10 cents a day, the small amount allowed by the French government to the needy children whose fathers have fallen is he war, and by this litle bit of assistance to evable many molhars to keep their children with them, bringing them up 1; their own homes instead of in a public institution, giving them the enverthey as much need just now and

public institution, giving them the crite they so much need just now and educating them to some useful trade. Ten cernix a day, three dollars a month, 385.50 a year. It seems a little, but it may mean everything to some and farmer or phanns. Any Camential farmer of the second second second carry come little French child three the this time of stress, will have some one special child and the child far the write the child and the child to he write and remains and the second second second write the child and the child to him and I have no doubt facilities will be afforded for translating the letters.

The Excentive scenetary of this society is Mrs. Edwin Payson Fowler, 685 Fifth Ave. New York city. I would like to commend this good work to Farm and Dairy readers.--F.E.B., Halton Co. Ont.



1137

And our direct-to-the-farmer seiling plan permits us to offer these engines st an extremely low price. Write for full part's ars,

THE PAGE WIRE FENCE COMPANY Languezo WALKERVILLE, ONTARIO.



THE main thing in any life is not the world around it. but the world within it.

#### Four Thousand Bushels of Corn (Continued from last week.)

ard

start of ours," Jimmie said, as he pick-

"WHAT'S your burry?" Castner exclaimed, as the blacksmith exclaimed, as the blacksmith started to crank the engine. "How much will you give me for that corn in case I should decide to sell it back to you?"

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"How much do you want?" Jimmle asked.

Castner hesitated, "Well," he said, slowly, "it was a long drive over there

and back. The load was mighty hard on the buggy springs, too. How would \$10 a bushel strike you?"

"Do you mean to say you'd rob the boy of \$30, just because an innocent old lady made a mistake?" exclaimed the blacksmith.

"Tm not robbing anyone," Castner retorted. "Tm well enough satisfied with my bar-gain. Good night!" He turned to go into the house.

"Hold on!" Jimmie cried, and after him. "Bring out the I'll pay you the \$10." ran after him. corn.

"I hate to see it go, even af that price," Castner said, as he carried the sacks out on the porch. "Some fellows never would have given it back, but I don't like to be hard on a young fellow."

Jimmie handed over the \$30 that Castner had paid for the corn, and then wrote out check for thirty more. In In the meantime the blacksmith and Bill Ellis had loaded the corn into the back of the automo-

There was great relief in Jimmie's voice as he bade Castner good night. "I feel as if that \$30 were well spent," he said, turning to

were well spent," he said, turning to Bill, who was perched on the corn be-hind. "I wouldn't have had the heart to finish out the summer if I had lost that seed corn."

It was nearly eleven o'clock when they drove into the McKeene yard and unloaded the corn. The blacksmith refused to accept any pay for his part in the night's adventure.

"Don't say anything about pay to me!" he exclaimed, indignantly. "Do you want to put me in the same class with Castner?"

Jimmie had to use a good deal of Jimmle had to use a good deal of will power in order to get out of bed at five o'clock the next morning; nevertheless, at six o'clock he was stretching the planter wire across the stretching the planter wire across the peat forty. When the preacher came out with the other team at half past nine, Jimmie had made a good start; he stopped long enough to tell the preacher the story of his experience the night before.

"It's lucky for you it didn't delay the planting," the preacher said. "Colonel Edwards says that Verne the Wilson's corn is coming up." "That gives it at least a week the

#### FARM AND DAIRY

"blind cultivate" the planter tracks with the two-row cultivators. Not a weed was in sight yet, but the culti-vators turned up thousands of long white sprouts that would later have caused much trouble. The harrowing that followed leveled the ground and killed still more of the sprouting weeds

Two weeks later Jimmie came u from the pert forty with a troubled expression on his face. In front of the barn he met the preacher, who had been out inspecting his forty.

claimed enthusiastically. "Three stalks in every hill, and not one miss-ing. It's as straight as a string both ways, too." "It's coming fine!" the preacher ex-

"The cutworms are" after mine," Jimmle said. "In a week more there won't be enough corn left to make that forty worth cultivating. I ought to have known that the old peat bed would be full of them."

"Isn't there anything you can do?" "Nothing that I know of, except to et them eat," Jimmie answered, in a discouraged tone. "Usually, there are not enough of them to do a great deal not enough of them to do a great deal of harm, but this wear there are mil-lions of them down on the peat forty." 'I'm going to find out if something can't be done." The preacher went

into the house.



#### An Example of What Remodelling Will Do.

The illustration here shown gives a glimps of the gradem and conservatory of the home of the Miases Thompson, Peterbore. This home previous to being remodelied, was a very plain frame in the laws and gardem, made the home one of the most strative in the city. We who live in the laws and gardem made the home one of the most strative in the city. We who live in the laws and gardem material that oftentimes a little remodeling would make a vast im-provement on our homes.

as he climbed down from the planter seat.

ed up the reins and started the team. Luckily, the weather continued fair.

and by the next night the peat forty was planted. But it was after dark when Jimmie finally drove into the

"That's the hardest week's work I ever did in my life," he said, wearily,

The last field on the farm was

The hired men put away the team, and Jimmie went into the house. He found a hot supper waiting for him. Aunt Jane, who had not been told that her sale of seed corn had cost Jimmie \$30, bustled round and helped Mary to get the things on the table. But Jimmie was too sleepy to notice what was set before him; he ate only a little, and then stumbled upstairs to bed.

"No wonder Walter went to town, and no wonder Jimmie wants to go," Aunt Jane said. "I hope he does. He would kill himself in a few years if he should stay on the farm.

"It isn't all like this past week," Mary answered. "Even this wouldn't have been so bad if Jimmie hadn't been too fussy to let Jake help with the planting."

"Well, I hope the boy gets some big crops this year, seeing it's his last year on the farm."

"I hope he gets big enough crops so that it won't be his last year on the

The next week Jimmie started to

When he came out a few moments later, his face wore a disheartened ex-pression. "I called up Mr. Hodgekins; he says to disk up the ground and plant it over again. The colonel says he doesn't know what to do, though le has heard that sometimes you can poison them. Why don't you call up the professor?"

"I will," said Jimmie.

A few moments later he rushed out of the house and started to hitch up the team. "The professor says to soak some bran in Paris green water, and to put a little of the mixture beside each hill of corn toward night. The cutworms come out to eat at night, and he says they will eat the poisoned bran instead of the corn.

By four o'clock Jimmie had enough bran prepared to go over the forty acres. He had hired a couple of boys from town to help, and about half past four he and the preacher and the two boys and the two hired men started out to distribute the poisoned bran. It was no small task to go over the 140,-000 or more hills of corn, dropping a tablespoonful of the bran by each hill. It was dark when they finished and

went back to the house for the big supper that Mary and Aunt Jane had prepared for them.

"I was reading to-day that there are six kinds of bugs that attack corn," the preacher said, as Aunt Jane helped him to some more chicken.

him to some more chicken. "Let us hope that three or four of them, at least, pass us by." "Many more days like this, with bran costing \$30 a ton, will be likely to make my expense account larger than the selling price of the corn," said Timmie

But a second application was not necessary, for the heavy dose of Paris green put a stop to the depredations of the cutworms, and the peat forty suffered little from them after that.

All through June the preacher work-d away industriously at cultivating his forty; the churchgoers of the community agreed that he had never preached better sermons. The mapreached better sermons. The ma-jority of the people in the neighbor-hood were now regular attendants at church. Many were attracted to church for the first time by the fame of the preacher's prize forty; and the simple earnestness of this sermons was usually enough to bring them to there to reach the sermons church again.

After another trip to Maytown early in June, Jimmie came home and

ordered surface attachments for all his cultivators. He had the cul-tivators set so that they did not stir the soil more than an inch deep, which was just enough to kill the weeds and leave a little loose soil on top to check eva-poration. Shallow cultivation was no new thing among the best corn growers of the neighborhood, but that was carrying it nood, but that was carrying it a little further than any of them had yet considered practical. Mr. Hodgekins heard 'what Jimmie was doing, and the next time he met him asked him about it.

"The professor says the big-gest part of the available plant food is in the top few inches, food is in the top few inches, and that it's a crime to keep the plant roots out of it." Jimmie said. "He says the Eacteria that prepare the plant food for the roots work in the warm top soil, and that the yields are of-ton reduced by keeping the roots from reaching this prepared form.

'Don't talk about bacteria to "I hat the blamed things since I had typhoid fever seven years ago. I don't want any of 'em on my place." "According to the professor.

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#### ber 8, 1917.

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erious des-a delicate ndian who though the an and a s friends-the utmost n bitterly. te breathes desert. The quarding. desert. The guarding, ly master-suppressed preat silent v and cur-p skles full e constant hings work. She be-bust, but ds. You'll ou've read rseif.

### THE UPWARD LOCK

November 8, 1917.

#### Great and Small are God's

ND God said: "Let the waters A under the heaven be gathered together unto one place and let the dry land appear; and it was so." Gen. 1:9.

How hard it is for us to fancy ourselves back in our world's infancy and picture it to ourselves, as described in Genesis!

Last week a wonderful afternoon was spent with one of God's noblest nature students, in studying God's hand-writing on the face of His earth We were taken to the shore of a small fresh-water lake and there in myriads and myriads were exquisite little dainty sea-shells, which could only have been deposited there when salt-water covered that whole surface of land.

Now, the ocean is hundreds of miles away. It is so difficult for our finite minds to grasp the infinite number of years ago, that that was the condition, and thus the infinite number of years it all represented. This is all our God's handiwork. Excavations had God's handiwork. Excavations had been made to a great depth for build-ing material. There in the banks our teacher showed us the marks of that mighty body of salt water, ages and ages ago. Now we can trace its di-rection and form an estimate of the swiftness of its course.

The course of that vast sweep of waters was His handiwork. Then I dooked at one of those minute sea-shells in my hand. If my mind could not grasp the wonder and the miracle of the flow and subsiding of those ancient waters, it could appreciate the exquisite workmanship in that tiny, fragile shell, which was also His handiwork.

So also are His all the great and the small of this world. His heart and soul are in one, as also in the other. I. H. N. Both are His handiwork .--

#### Fighting the Pests of House Plants

O PATENTIMES after the plants have been lifted from the gar-den, potted and brought into the dea, potted and brought into the bouse for winter, we have difficulty in getling them to thrive properly on ac-count of isseris of various kinds which tromble them. The commonest of all pests of house plants is the applis, green fiv, or plant lows; then comes the unjust black suider which approximately be and the white five and the which the small red and/er, the scale louse, small white worms in the earth, the means but and the white five and the whi

Fine tobacco dust is fatal to many plant lice and to the naked larvae of all. Ground tobacco in the earth is used for macrote in ontdoor gardens and possibly might me used in this way indoors. An extract made by boiling the chonned stems and leaves-one pound of tobacco to one gallon of water-is recommended for all soft-bodied insects. The scale louse is an enemy of cactos neims clean. la an entry or carse and ivy. Setting such plants out in a rain storm is of factive or an application of songuida, annied with a whisk or shaving brush will remove them. Fir-tree oil has also been recommended. The red spider detests water and frequent spraving of the plants should keep him absent.

nim absent. One remedy for white worms is lime water. Take a humn of unslaked lime, about the size of the closed fist. Drop this lump into an ordinary sized Drop this tump into an ordinary sized bucket of water and, let it stand 24 hours, then use the clear liquid, avoid-ing the sediment. The earth in the pots should be allowed to become dry before applying the lime water.

#### FARM AND DAIRY

A kerosene emulsion will cause the white fly to disappear. The mixture consists of two ounces of hard soap dissolved in boiling soft water and adding to this one pint of kerosene. For the mealy bug, hand picking and afterwards washing the plant with a good insecticide, is safest.

Sometimes a small species of rootlouse gathers on the roots of potted plants. When these are discovered, the best and quickest method of elim-inating them is to lift the plant out of the soil, shake off all earth, wash the roots well, scald the pot and replace in entirely fresh earth. Soaking the earth with kerosene emulsion or tobacco tea is helpful.

#### Select Foods Carefully

C ANADIANS who are willing to follow the advice of the Food Controller in order to help to save urgently-needed wheat four, beef and bacon for the soldiers, will find a considerable number of wholesome

To save wheat flour, barley may be used for soup and barley flour for thickening; corn meal for bread and cereal; oatmeal for cereal and oat muffins. Potatoes may be used in a variety of appetizing dishes, and when variety of appending disnes, and when they are served, bread may sometimes be omitted from the meal. At present the price of corn meal is high, but the new crop in the United States is very hew crop in the United States is very large and will be coming on the mar-ket soon. The question of price has to be carefully considered by the great majority of people, but those who can afford to do so should substitute in part other cereals for wheat, even if the price of the substitutes should be higher

For meat, fish is a peculiarly suitable substitute because of the variety available and the abundant sources of supply in the Dominion. Beans have nearly the same food values as meat. By a careful selection of other foods the consumption of meat may be very considerably reduced, especially by persons who are not engaged in heavy manual work.

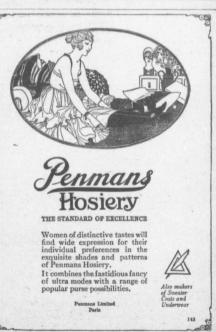
manual work. And remember, the primary reason for urging saving of wheat flour, beef and bacon is not economy in cost, but that the soldiers may be supplied with the food which they need.

#### Women's Institute Conventions

THE Annual Womer's Institute Conventions for the Province of Ontario will be held in the Y.M. C.A. Ottawa, Nov. 7-8; Auditorium, London, Nov. 7-18; Technical School, Toronto, Nov. 7-18; Technical School, Toronto, Nov. 7-19; Technical School, Throughout the past pers, or Tave un-dertaken new lines of work, have been asked to give reports. Plans to make the work more helpful ihroughout the coming year will be formulated. Patriotic work in its imany phases and the food conserva-tion problem will of course be the Owner folks as possible will make an effort to attend the convention nearcest their home. Even if not sent as a delegate plan to go anyway. The out-ing will do much to help us catch a new vision of our home duties, and it will also do us good to mingle with other women who are following the generaking. HE Annual Women's Institute memaking.

Life





When You Write---Mention Farm & Dairy

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We want to take this opportunity of introducing to our dairy breeders throughout Eastern Canada the new Live Stock Representative of Farm and

### Mr. C. G. McKillican

Mr. McKillican has been brought up in one of the

Mr. McKillican has been brought up in one of the districts of Ontario noted for its advanced dairy interests. He is thoroughly experienced with dairy cattle and with the dairy-breedor's problems, being himself a partner in his father's pure-bred herd. Mr. McKillican will be in Western Ontario during the coming few weeks, in connection with our AN-NUAL CHRENTMAS AND HREEDEDRIC'S NUMHERS of Farm and Dairy, and we are anxious that he should get acquainted with as many of our breeders abould you desire Mr. McKillinebie.

in the next few weeks, we shall be glad to have you drop us a card to

Live Stock Department

Peterboro, Ont.

Farm & Dairy

### Homely Hints for the Home Nurse Marion Dallas, York Co., Ont.

A tor. Of course she died. This incid-ent brought forcibly to mind the fact that in many rural communities where the mother in the home has to act as both doctor and nurse in the family, there are many homely "don'ts" for the sick room with which all of us might do well to become familiar. for Here are a few of them:

Don't keep medicine and poison on a table within reach of the patient. Label all bottles clearly and put them on separate shelves kept strictly for that purpose only.

Don't whisper in the sick room; unconsciously the patient strains his ear than to see a woman dying of con-and nerves in the attempt to catch the sumption sweltering for sumption thread of conversation.

floor when you walk.

patient whose appetite is capricious, try it and you will be more than delighted with the results.

Don't allow a strong light to fall upon the eyes of the sick one. Don't tell or allow any one else to

tell gloomy stories Don't use a feather bed in nervous iseases or in any illness of long duration. If the patient is very weak the little light and fresh air. weakness will be augmented. If a room has heavy c

Don't collapse in moments of sudden change in the patient's condition. As-sume self possession if you do not feel it; your assurance means much to the patient in a critical moment.

Don't cross a patient, especially in delirium

Don't taste a patient's food in their Dresen

Don't leave milk or other foods standing in the room. The desire to partake of food upon which you have watched the dust settle, is not very keen

Don't leave traces of the meal around the bed. Remove the crumbs. Don't have heavy carpets or hangings in the sick room

Perhaps in reading these "don'ts," Perhaps in reading these "don'ta," the writer hears some one say, "Why any person who cares for the sick would never make any of those mis-takes." Perhaps not, but there are many people who have so little know-ledge of disease that if the duties of nurse are suddenly thrust upon them they are nonplussed, and have no idea as to the easiest and best methods of nursing, and if they do not take a spec ial interest, the patient suffers much needless pain and inconvenience.

Every "Don't" has come under the personal notice of the writer. One in particular impressed me, "A young woman in Toronto had a prescription for a cold filled. By a mistake strychnine instead of quinine was put in. The mistake was noticed im-mediately after swallowing the capsule. After several hours' hard work the doctors (four in number) were able to save her life. She was proable to have ner life. She was pro-gressing favorably when one after-noon a friend called. "Oh," the visi-tor remarked, "did you know that a woman has just died who was poisoned in a similar maner to you." Then seeing the distress on the patient's acce she exclaimed, "My, I should not have told you, but you will forget it won't you?" Did she forget, or her beart-broken mother and friend who Sunday following you will find hang-lastened to her pititin pleadings when ing up behind the dear on the other the delirium ran high, as she begged side of the vestry."

SHOCKING tragedy was enacted them not to allow her to die. That the other day in one of our east- happened some years ago, but the wo-A the other day in one of our easy mappened some years say, but us you ern towns. A young woman man has never fill again size will be pro-tow a dose of carbolic add in mistake, she is ever fill again size will be pro-for the medicine ordered by the doc- tected from such friends-'Advance tor. Of course she died. This incid agents for the undertaker' some one has designated them.

Everyone is aware how fitful the ap petite becomes during illness. A case of typhoid fever came to my notice recently. At stated times milk and water were brought to the patient's bedside. If they felt like taking a drink all right. If not, it was left on a little table near the bed, sometimes for hours. At last the patient re-quested that it be brought up in smaller quantities or else put out of sight

What could be more deplorable sumption, sweltering for five months on a feather bed? The doctor remon-Don't rattle dishes or shake the strated but could not make the friends floor when you walk. Don't say to a patient would you til it was too late and the patient too care for this or that to ear? With this and wasted to sleep on a mat-your knowledge of their condition pre-tress. Night after night the fatal pare the disk and suprise them: if sweats came on and between the you have never tried this plan with a struggle of rubbing and range the damp clothing and re-arranging the feathers, the patient was exhaust-ed. In fact all reserve strength was used up in this way and none left to fight the disease.

Many physicians will tell you that the reason some patients make such slow progress toward recovery is, bethe average sick room gets so

If a room has heavy curtains, upholstered furniture and a closet full of plothing, it will not only require thorough, but constant cleaning. Add to this a dressing table littered with ore things than can be readily dusted every day, draw down the blinds to hide the dust and it is easy to imagine the state of mind of not only the patient but the nurse. Contrast with this a room where there are no car-Contrast with pets, therefore easily swept without a cloud of dust, no curtains, or light washable ones, and dark heavy blinds to keep out the strong light of the to keep out the atrong light of the sun, a cheerful picture or two on the wall, placed just where the patient can see them casily, a dainty white cover on the dresser, when possible flowers, and the whole atmosphere will suzgest hopefulness and promote a strong desire on the part of the pa-tient to set up and out into the faceout a strong desire on the part of the pa-tient to get up and out into the fresh air. This is half the battle for the re-turn of strength. The keynote of all sick rooms should be brightness and cheerfulness

One more "don't." Unless you want to be a long sojourner in the sick room, don't rush out into the air. room, don't rush out into the air, should you have the misfortune to set fire to your clothes. Roll on the floor or wrap yourself in a blanket, or rug, or any heavy garment handy, and crush the flames from the mouth down ward

ward. Trivial as these "don'ts" may ap-pear, we realize that life is made up of trifles and a knowledge of the or-dinary rules of the sick room \* will prove most conducive to the comfort and health of all patients, whether they be strangers or members of our own household.

Parson Wilder, who had a small church in a little western town, was about to go away for a two-weeks' vacation. The Sunday before he start-ed he announced from the pulpit:

"The preacher for next Sunday will be Mr. Judson, and the one for the Sunday following you will find hang-

8, 1917.

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### HALLAM'S GUARANTEED **UR COAT** Why it is Cheaper to Buy BY MAIL

Every intelligent man or wo-. 8 .

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You are sure of satisfaction when buying by mail from Hallam-be-cause of Hallam's guarantee "to matisfy you or your money back." You are the sole judge.



le judge. We a re com-pelled to give you extra good value, for our own safe-ty, because no mail order house can afford to have goods returned. The two Illus-trations here tell about some very attractive Hal-lam bargains.

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warmth. Finished with natural head, tail and paws, lined with grey corded slik poplin. Value un-purpassed. Price \$13.50, delivered to .

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you. 1883-Muff of genu-ine Grey Canadian Wolf to match above -barrel shaco. Isrge roomy and confort-able, tail and pave. soft down hed, silk wrist cord, lined with prey corbeel silk your





35 pounds.

those who bolt their meals.

Pass Along Economy Hints

and means of economizing. You practice little economies, and I prac-

practice little economics, and I prac-tice others. I was told recently of the way in which a German family in Muskoka became comfortably well off. They purchased a far., on which thistles and weeds fourisi ed plent-fully. They dug up the thisties by the roots, boiled and fed them to the pigs, cut the weeds up finely and fed them to the turkers. The farm became clean, but there was a broken down woman, who at a comparatively seri-

woman, who at a comparatively early age, lay crushed under the burden of care. Speaking of starving out the Germans, she said she didn't think they could be starved out, for they practiced economies we never think

Well, I am not thinking of cooking thistles, nor chopping up weeds, but here are a few items which might

suggest to your mind some others to return to me. I make a vegetable stew which is rich, nourishing and

appetizing and will assist in making a meatless meal. The foundation is made by boiling bones that have been

EAR Homeclubbers.-Suppose we have a little discussion on ways



#### Exercise Culinary Gray Matter "Aunt Fanny," Peterboro Co., Ont.

PROBABLY never since pioneer days has the Canadian house-wife been called upon to exer-Whe been called upon to exer-cise her cullnary grey matter to such an extent as at present. One of the big problems which confront us each day is: "What shall we have for din-ner or tea?" Breakfast does not require so much planning. (I may be mistaken, but just in this connection it is my opinion that oftentimes the men folks are not as appreciative as they might be of the difficulties un-der which we labor in preparing meals to tickle their palates and at the same time to prepare them economically. We all realize that it is a fine thing to have men around to cook for, but, at the same time, it is only natural that we occasionally long for a few words of appreciation of our efforts. Of course we know the men do appreciate our cooking, but they simply forget to mention the fact.)

We are continually hearing and reading nowadays that "we must pro-duce all we can, waste nothing, and shift our consumption, as much as shift our consumption, as much as practicable, from wheat, dour, beef and bacon to other foods." The other foods, we are told, are just as whole-some for us, and we can well under-sitand there are many of these other foods which are not suitable for ship-ment oversees la war time. A friend of mine sent me a builetin the other day on "War Meals," which has been day on "War Meals," which has been the sent and the second of mine the some of them might be of value to other readers of Farm and Dairy. to other readers of Farm and Dairy,

It is pointed out that a well-bal-need meal contains body-building, anced heat and energy supplying and regu-lating substances in the right proporlating substances in the right propor-tion, and in sufficient quantity, and that simple meals can fulfill all requirements. Some farm women seem to be of the opinion that it is very well to talk of conserving food and serving simple meals in the city, where the men folk are not doing hard manual labor, but that a hard work for man on the farm must have working man on the farm must have rich foods, blenty of variety and lots of food. The "War Meals" bulletin states that K is wiser to spread the variety of food over several days than to provide many kinds of food in each to provide many kinds of food in each meal every day. Several examples of simple, but well-balanced, meals are siven, which might be tried out to dvantase by all of us. They are: I. Fruit, estimeal and whole milk. 2. Frue, bread, butter, fruit or vage-

tables. Bread cheese tart fruit.

3 4. Raked beans, brown bread, apple of.

Same. 5 Mutton, potatoes, second vege-table, fruit batter pudding.

Milk soun, corn bread and syrup. Whole wheat bread, whole milk,

Drunes.

brunes. These meets may seem very simple to some of us, but they meet the needs of healthy, active adults. A list of supplies of food for a family of five for a week is given,

nears or nearrow, active adulta. made by bolling bones that have been A list of sumplies of food for a left from a boll or roast of beef. So family of five for a week is given, long as there is marrow or gristle on based on standards such the recombed the bones, when bolled there is the authorbies. The man it is supposed, foundation for soup or stew. To this will, simp bounds: a boy of 15, about put through the oppose, cerves and conions, not will simp is a give of 15, about put through the oppose, but cut in 15 pounds; a give on inc, shoul 56 medium alked pieces, add sait and



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some day by an imitation of

and possibly you will not detect this imitation until

the tea-pot reveals it. Demand always the genuine

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#### **FARMS FOR SALE** 300 Acre Farm, \$6,500 With 75 Tons Hay, Crops, 4 Horses, 20 Cows and

4 Horsee, 20 Cows and Relifers, 3 builts, 2 coits, 7 coives, 16 heep, horse mice, jows, harvow, cality, horse hee, wagons, cart, carriage, sleights, sets harvesses, 100 outlies potacoes, weetsables, dry wood and cream separ-tion. Nearby creamery buys cream, exit, and the set of the

Stopping an advertisement to save money is like stopping a clock to save time. Advertising is an insurance policy against forgetfulness - it compels people to think of you

You may be deceived

materials of the vegetables will remain in the stew. Scraps of meat may be added also to the stew.

(18)

This is the third season we have had no apples for cider to add to the cider vinegar. The supply of vinegar was getting low, so I added fresh, clean rainwater, adding to it baking s to sweeten, fruit juices and

321

As currants are expensive and ing a suet pudding or scarce, I use instead dried apples prerecipe calls for three cups of dried fruit keeps moist and rich and has apples soaked over night in water. In the appearance of lots of fruit. the morning chop apples through vegetable chopper-add the cider mies I use and would be glad to hear from the apples to the vinegar-and from others as to anything new .-simmer for an hour and a half or two

pepper, slir frequently. The juices of syrup drippings, and cooked the par- hours, having added one or one and the vegetables should prove molisture ings of apples in water, strained and a half cups of baking syrup. The enough added to the broth. Boil this added that also. Now I have a lot syrup makes the apples sweet, rich in an hour and a half or nearly. They o' good vinegar. I also cooked the flavor and a dark, fruity color. I put require to be thoroughly cooked so winks and stones of peaches and add- this cooked apple and syrup mixture that there will be no juice to drain de that juice. In a jar and use what I want in mak-of, but as in soups, all the mineral As currants are expensive and ing a suet pudding or dark fruit sponge cake, adding seedless raisins pared as for Farmer's Fruit Cake, The for other fruit. Cake made with this

FARM AND DAIRY

These are a few of the many econo-"Tirza Ann."

The Military Service Act, 1917 CANADA **DON'T DELAY! Do It TODAY** 

THE MILITARY SERVICE ACT is passed; the Proclamation issued October 13th. It is now the bounden duty of every man in Class One to report for service or claim exemption. This includes all bachelors and widowers without children (not otherwise excepted) who were 20 years old on the 13th October, 1917, and whose 34th birthday did not occur before January 1st, 1917.

## What To Do

Go to your Post Office and ask for the form for reporting for service or for claiming exemption. The form contains clear instructions for filling in. Do this not later than NOVEMBER 10th.

## Beware of the Last Minute Rush

With so many thousands of reports and claims to be dealt with, the rushof Class One Men will grow heavier day by day. You will waste less of your time and serve your own best interests if you avoid the inevitable rush on the last days.

The law is being enforced with the Government and the People firmly behind it. Obey the law. Do it today.

> Issued by The Military Service Council

November 8, 1917.

#### Four Thousand Bushels of Corn (Continued from page 14.)

want them or not. It would be impossible to raise grops without them. "Well, you can farm according the professor if you want to, but I guess even be could learn a few things from us old corn growers."

"That's just what he is doing. He says he's learning as much from the farmers oven in DeKalb county as they are learning from him. But you see he has the benefit of all the practical experience he has observed and a scientific education besides.

Mr Hodgekins shook his head in credulously. "We'll see what the judges have to say when husking time comes.

The next Sunday afternoon the blacksmith drove up in his automo-"I thought you might want to bile. see what your competitors' fields look like," he said to Jimmie. "Get Mary and your aunt, and we'll visit a few of them. My wife took the children to visit her family last week, and I've got to do something to pass away the afternoor

They stopped in town for preacher, and then drove over to the Wilson farm. The sight of Verne Wilson's cornfield had a sobering ef-Nor did the appearance of Ed. Cas-sidy's or Mr. Hodgekins's forty make them any more cheerful. They visit-ed several other fields, but none were so good as those three.

"I don't care, they aren't any better than ours," Mary maintained, stoutly, "We were in hopes they wouldn't be so good." Jimmis said. "Not wishing them any fil luck, of

course," added the preacher.

You can be encouraged by the fact that your forties are looking as well as they are," the blacksmith said. "It's too early to tell much about the -I'll say one thing." he added, as they drove down to the peat forty 'Even if you don't get a prize, that is the best corn I ever saw on the Mc-Keene place."

"I guess that could be said of a good many farms round Duketon," remarked the preacher. "The colonel is so much pleased over the results of the contest already that he can't talk about anything else."

Toward the end of June the five judges of Colonel Edwards' corn-growcontest made a preliminary visit to all the fields that had been entered in order to measure them and make notes on their appearance When they came to the peat forty, the judges, who were all farmers from other parts of the county, stopped in surprise. They were still more as-tonished when Jimmie told them how many crops the peat land had raised.

"That beats anything I ever saw on an old peat field!' one of the judges

exclaimed. "What did you do to it?" As Jimmie was about to reply, he saw Mary running across the meadow: she was frantically waving her straw hat.

"The cows have broken into the preacher's corn!" she cried, as soon as she was near enough to make herself heard.

Deserting the judges, Jimmie ran to the preacher's forty. He found that it was not his own cows, but Sam Walker's, that had broken into the They were greedily devouring the tender leaves and stalks. Jimmle had no doz, and alone and on foot he ould do little with the hungry cattle. He had almost reached the limit of his patience, when Sam and his shepherd dog came up: the three made short work of getting the cows back into their own pasture.

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mmie ran to found that but Sam en into the y devouring ks. Jimmie i on foot he but Sam ingry cattle. limit of his made short s back into November 8, 1917.

The Makers' Corner

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

Contract on Sliding Scale Basis

taken at the prevailing prices, these

prices are subject to change without

ing the past season. While each year a fewer number of cheesemakers work

on a price per pound basis, including the supplying of materials necessary, there are yet a considerable number

of contracts made on this basis. Mak-

the prices of materials have advanced

to such an extent as to leave them for their labors barely enough money to meet expenses. Some makers looking

meet expenses. Some makers looking forward to next year have found it difficult to secure cheese boxes and other supplies necessary, while others have found themselves in a quandary as to where to get their supply of coal. Taking all these things into con-characting the other theory.

sideration, it might be well for cheese makers to contract to make cheese at

certain price per pound contingent

upon the increase or decrease in price of supplies. No one knows at present just how high the prices of the various supplies will go, or whether supplies may be obtained for

future deliveries at any price. The greatest care should therefore be used

in making contracts for next season.

Margarine Interests Get to Work

E Toronto Globe of October 30th, I notice an article stating that a prominent American concern is con-

sidering the investment of half a mil-lion dollars in a plant for the manu-

facture of margarine in Toronto, "providing the company is assured by the federal authorities that the manufac-

federal authorities that the manufac-ture of margarine will not cease when peace is declared." This is just the beginning of the work of margarine interests in Canada to have its manu-facture unrestricted. In introducing oleomargarine into Canada, the fed-eral government has given the dairy interests assurance that such action is seen whenter of particulation of the seen whenter only further manner to be will have enough influence with the government on make them break fail

government to make them break faith with the farmers in this matter. The point, however, that struck me

most forcibly in this article was that the margarine interests are starting

deliberate mis-statements are starting deliberate mis-statements in their comparison of butter and oleo. The first statement made by the general manager of the company interviewed

manager of the company interviewed by the Toronto Globe is that the taste for margarine has developed so ra-pidly in the United States that the firms cannot consider the export trade.

I would like to point out the fact that I would like to point out the fact that some months ago whom it seemed cer-tain that margarine would be admit-ted to Canada, the United States prices for this product firmed up on the market, the explanation being that firms were holding large quanti-tion for a chivment to. Chanda

ties for shipment to Canada. The article boosts the margarine which is made out of vegetable oils,

ers working thus during the past sum mer, have in many cases found that

notice to the purchaser. It was this changing in prices of supplies that removed the profit from the work of many cheesemakers dur-

#### FARM AND DAIRY

stating that there is more nutriment manager speaks that it will be far in this and that it will keep longer than butter, which is an animal fat. Food authorities never for an instant have considered any vegotable oils so nutritious as animal fats. Pound for pound no margarine can excel butter in food value. It is only the poorer in food value. It is only the poorer grades of oleomargarine manufactur-ed in the States that have any but animal fats in them. The higher qualities contain mostly neutral lard, cleo oil and butter. It is evident that this firm intends to manufacture the cheapest grades of oleo, and by their mis-statements to sell this stuff to the innocent city consumer at prices which will assure the firm a good margin of profit.

A the present time few supplies headed in choese making can be bought for future delivery at atputated prices. Most of the concerns who sell supplies are quoting prices for immediate shipment of goods and very fittle goods are being carried in steek. Though the order may be taken at the neuraling meteors there good margin of pront. The article further states that peo-ple will not be able to tell the differ-ence between good butter and good margarine. I would like to point out that if margarine is manufactured from the vegetable oils of which the

manager speaks that it will be far from good margarine. Grade one mar-garine in the United States is made up of 100 ths. oleo oil, 130 ths. neu-tral lard, 95 ths. butter and 32 ths, salt, for each 357 ths. The second grade is made up largely of neutral lard and other animal fats with a mixture of cream to give it a flavor. Margarine made from vegetable oils

Support of the states and the states of the states of the states that margarine can be states that marg be sold at less cost than cooking ma-terials such as lard. If the margarine which this company proposes to turn out is fit to rank in any of the higher grades, which are composed largely of lard and butter, it will be seen that such a statement is preposterous. Indeed the whole attitude of the ar-Indeed the whole attitude of the ar-ticle is an attempt to deceive the pub-lic and to educate them to paying profitable prices for an inferior ar-ticle.—J. S. B., Ontario Co., Ont.

#### (19) 1223

#### Wants Cheese Price Raised

RESOLUTION was passed by the A Brockville Cheese Board on Nov. 2nd urging the Pominion Government and the Imperial Cheese Commission to take prompt Action in influencing the British Government to act at once to increase the price of Canadian cheese at least four cents per pound. It was claimed that the present low production at a larger cost made the present fixed price un-profitable and unsatisfactory to the farmers supplying milk to cheese fac-

Objection was taken to the resolu-tion by two buyers, who agreed that the difficulty of financing the cheese market was responsible, not the British Government, for the seemingly low price of cheese. Sales were made to-day at 21%c.



### (20) The Next Annual Meeting

OTIVITY is the rule nowadays at A of Ontario at 6 Francis street, • of Ontario at 6 Francis stress, Toronto. The busy winter season is beginning and the date of the next annual meeting is near at hand. De-cember 19th and 20th have been sea lected for this year's gathering, and it is hoped that these dates will be made permanent. "We would like to make this week known as the Ontario farmers' week," explained Mr. Mor-The sessions will be held in rison the same auditorium as last year, at 65 Church street.

Plans for the convention are not as Fiams for the convention are not as yet complete. A feature already de-cided upon is a law talk which will throw much needed light on many legal phases of club work-contracts for instance. The real object of the convention the club of the legal phases of club work-contracts for instance. The real object of the convention, the giving to farmers of an opportunity to express themselves on public questions, will always be kept to the fore. Clubs are reminded that they are entitled to one delegate up to 20 members and an additional delegate for every 20 mombers thore-after, provide their assements have been paid to the central association. Railway fares to Toronto are not Railway fares to Toronto are paid by the association.

#### Stock Selling Campaign.

For a long time it has been felt that the company cannot do its best work for Ontario farmers with the present limited working capital. A stock selling campaign will start at Whitevale, in Ontario county, on Nov. at Whitevale, in Ontario county, on Nov. 6th. Mr. A. A. Powers, of Orono, and Mr. J. A. Orchard, a director of the Saskatchewan Grain Growers' Asso-ciation, will be the principal speakers. The plan now is not to sell shares of The plan now is not to sell shares of U. F. Company stock to local clubs, in but to individual members of the be-club. As monitoned in Farm and Dairy last week, one club in Ferth ye-counts already has 11 shares in the 3 counts already has 11 shares in the 3 owner a shareholder in the every means has ber a shareholder. ber a shareholder in the parent con-cern. Mr. R. W. E. Burnaby, who has advocated this plan of finance for

FARM AND DAIRY

mány months, will also taxe a leading coming in for speakers, and a good part in the stock selling campaign. winter's work is expected linking up Many new clubs will be organized hundreds of more farmers in the the offices of the United Farmers this winter. Already requests are movement.

# Market Review and Forecast

WHEAT. Ontario milers are buying Western wheat steadily, but are not taking large greatly molecular bla deal of the stead of the stead

COARSE GRAINS. Ontario osi, like wheat, le rather slow in coming to market. Feeders who are hoping to benefit by the large corn crops expect chesp corn for some little lime yet. Spot corn is quoted at \$2.50 for No-must be arranged for at Ottawa and Washinton. Shipments are further de-layed by lack of cars. The new crop is \$14.6, and until such cheap corn can be obtained, there will be very little fed. Quotedicars. Oats, CW. No. 8, 661 No. 57

Totion TO, Nov. 1.--Weather condi-tions throughout boils Bartern and the second secon

POTATOES AND BEANS. The attempt some weeks ago to set a price on potatoes, has apparently failen strained and process of this vogetable are per bar. There are still some potatoes which have not been day. The unea-has made work with them difficult. Large elipments are still being and to the approximation of the set of the set of the them and the set of the set of the There have been fow Canadian beans offered on the market yet. Canadian beanbeil; foreign hand picked at \$6.75 to \$1.

butter: Toreign hand priced at 4.5 for the CGS AND FOULTRY, 5.7.15 For Bost AND FOULTRY, 5.7.15 For a substantial quantities that they have hitle bearing on the market. Storage with the substantial price of the substantial pear promising. Even at the decline of supplies the demand shows in this instru-tory of the substantial substantial substantial be quoted in the mer future. Wholesal-tore dealers believe that lower prices will be quoted in the mer future. Wholesal-tore dealers believe that lower prices will be quoted in the mer future. Wholesal-tore dealers believe that lower prices will be quoted in the mer future. Wholesal-tore dealers deartons, got et 52c. "En revealed, cartons, got et 52c. Week. Live weight Dressed.

DAIRY PRODUCE.

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Date: Daily Products.
Batter dealers are of the ophion that while the admission to Canada of electronic processing the price of bottler officiel of decreases. In the price of bottler officiel of the price of bottler officiel of the price of bottler officiel of the price of bottler. In the price of bottler of the price of bottler officiel of the price of the

#### LIVE STOCK.

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#### November 8, 1917.

#### SALE DATES CLAIMED OXFORD COUNTY

Tuesday, November 6th, 1917. is the date of the dispersion sale of 21 head of pure-bree cattle from the Big Creek. Farm of W. J. Thompson, of R. R. No. 1, Port Rowan, to be held at the Royal Hotel, Tilisonburg. Ont.

M. Armstrong, will hold an auction of Holdson sattle at Mil-1917. Control of the sattle at Mil-1917. The Hollert, at Maple Group Mr. II. Bollert, at Maple Group Ont, is announcing November 38th as the date of his complete disper-ments. Breeders make note of the Group Million Science Science Sciences (Million Sciences Sciences Sciences) (Million Sciences Sciences) (Million Sciences)

date. Oxford District Hoistein Breed-ers' Club consignment sale of Hol-steins, on December 12th, 1917, al Woodstock, Ont.

The 5th consignment sale of the Southern Counties Archite Breed-era' Club will be heid at Wood-stock, Ont., on Monday, December 19th, 1917. Mr. John McKee, Ner-wich, Ont., is Secretary of the Club.

#### WELLAND COUNTY.

WELLAND COUNTY. On December 11th, 1817, the Niagara Peninsula Hoistein Fries-ian Club will hold a consignment sale of 60 head of pure bred Hoi-steins, at Welland, Ont. Wr. W. L. Houck, Black Creek, is the Secretary.

#### BRANT COUNTY.

The Brant District Holstein Breeders' Club consignment sale of registered Holsteins will be held this year on December 19th, at Brantford, Ont. 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 Holsteins by public auction on Friday, De-cember 14th.

demand is apparently unimited at pri-of stockers and feeders. The offer ins-transformer of the stand head in the stock of the stocker of the stand head in the stock of the stocker of the stand head in the stock of the stock of the stand head in the stock of the stock of the stand head in the stock of the stock of the stand head in the stock of stock of the stock of the stock of stock of the stock of the stock of the stock of stock of the stock of the stock of the stock of stock of the stock of the stock of the stock of the stock of stock of the stock of the

LIVE STOCK.			
Choice export steers\$1	1.00	to	\$ 12.25
Butchers' choice handy 1		to	10.50
do good	9.00	to	9.50
do medium	8.00	to	8.50
do common	7.25	to	7.75
Butchers' bulls, choice	8.00	to	9.25
do good	7.50	to	8.25
do medium	6.25	to	7.25
	8.50	to	8.50
do good	7.00	to	7.50
do medium	6.50	to	7.00
	8.00	to	9,25
Stockers, good	7.25	20	8.00
do medium	6.50	to	7.00
	5.25	to	5.75
	0.00		125.00
do com. and medium 6	5.00	to	85.00
Calves, veal, choice 1	5.00	to	15.50
do mealum	6.00	to	6.50
do common	6.00	to	7.00
do heavy fat	8.00	to	10.50
Spring lambs, cwt 1	6.75	to	16.00
Sheep, ewes, light i	0.00	to	13.50
do heavy and bucks	7.50	to	9.50
do culls	4.00	to	5.50
Hogs, fed and watered 1	6.50	to	16.75
do f. o b 1	5.50	to	15.75
do f.o.b	550	to	15.75
Less \$1 to \$2 on light or t	hin	hog	a: less
\$3 to \$3.50 on sows; less \$4	on s	rtag	s: leng
50c to \$1 on heavies.			

#### The O.A.C. Sale

O NE of the most successful public auc-tions of high-class live stock ever held at the Ontario Agricultural Col-lege took place on Nov. 7. The sale was held in the large arens, and it was filled

#### Noven

with stor Quebec, 1 States. The hij was a pu gusta Sno at the O. that well Ashburn, and the Ashburn, ered the O. A. C. O. A. C. also purc Roan Lad her side, There y total of \$ and 10 op of \$37.75 totalied The three average brought \$ the five d an averag calves bro \$322.50, ar brought \$1 total amo slightly or

bilgnity ov Daisy P Brampton, A. C. 2nd, of O. A. C. ton, \$225. Merayweth Rue Battle School, \$11 6th, J. H. Rue Bouts Mercena's Brampton, W. J. Fra. Basw, Heg A. Redding

Bud's Mi \$150. Flos wether, E Masterplec \$70. Sonei \$55. O. A Merryweth Masterplec

Imlaie's Bull & So Reverance, Reverance, \$55. Two head to A. Barb pound. Twenty-n of \$1,782.60.

PREFE

E DITOR. ture R breads Delta these anions these anions these anions these anions the an avers a stream things in t buil during life, the per-buil during life, the pic-tion and the vious to the vious to the cost of feed Many peop buil is more than a stream cost of seed Many peop buil is more than a stream the pic-tion as a stream a stream the pic-tion as a all ages is t when he is

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One farm hand says: "We'd strike rather than go back to hand milking."

You can produce milk of certified grade in ordinary stables by exercising reasonable care in handling Burrell Milkers.

Dust and dirt cannot get into the machines at milking and they milk of each cow by itself.

Our illustrated book will show you why we believe Burrell Milkers are easiest to operate and cheapest to maintain. The book shows all types of our machines. The Standard milks two cows into one pail, the partition keeps the

D. Derbyshire Co., Ltd., Brockville, Ont. Branches: Peterboro, Ont., Montreal and Quebec, P.Q.



Let One Man Do



B-L-K

### **MILKERS** Good for the Herd

are easily kept clean and sterile.

#### 8, 1917.

ED 917. sale fro W.

Port Royal d an Till-26th. Grove stock, r 28th lisper-grade imple-of the

Breed-Hol-17, at of the Breed-Vood-smber Nor-the

the Fries ment Hol-Sec

held held , at r, of R. R. se of teins De-

t pri-dferings ek was being a Canada was a a triffe an last points, out the ffe hard

prices ral car farmers Freight nent of

sold at ed. On by 25 auoted bulk of h some Thurs-5. The of good ar than Mr.

#### November 8, 1917

<text><text><text><text><text><text><text>

Two head of choice fat cattle were sold to A. Barber, Guelph, at 20c and 19c per pound.

Twenty-nine pigs were sold for a total of \$1,782.50.

PREFERS THE PROVEN SIRE.

PRERS THE PROVEN SIRE. TCOIL TARM and Daity.—At this seat-of the year there are numerous mu-ter of the year there are numerous mu-ter of the year there are numerous mu-ter of the year of the year of the year are toward buying a mature built. This was averated on the part of some breed-ter toward buying a mature built. This was averated on the part of some breed-ter toward buying a mature built. This was averated on the part of some breed-ter toward buying a mature built. This was averated on the part of some breed-ter toward buying a mature built. This was averated of growth, than during the the year are feed by buying a call, and they can avera feed by buying a call, but they can avera feed by buying a call, they are the they buying the source of the buying the they buying the source of the they be considered the period pre-toward the source averation of the they be and they bay they be averated in the built buying the source source they be and the the source of the they be an of the source of the source of the they be an of the source of the source of the they be an of the source of the source of the they be an of the source of the source of the the source source of the source of the source of the the source source of the source of the source of the the source source of the source of the source of the the source of the source of the source of the source of the the source of the source of the source of the source of the the source of the source of the source of the the source of the source of the source of the source of the the source of th



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## SEMI-OFFICIAL RECORDS OF HOL-STEIN FRIESIAN COWS, AUG. 1 to SEPT. 30.

 Bitter Fritsank COWS, AUG.

 Batter Gaz.

 Batter Gaz.

 1. Distra, 1968, 39; 37138 lbs. milk.

 3. Batter Gaz.

 1. Ba

Perth.
Four-Year-Class.
DeKol Korndyke, 21542, 4y. 113d.;
Tibar Bulk, 627 Iba. fat, 782.75 Iba.
butter. A. A. Iroland, Easton's Corners.
Korndvko Hengerveld Jewol, 19199, 4y. 61d.;
12300 Iba. milk, 426 Iba. fat, 632.60 Ibb. butter. A. L. Stackhouse, Kin-

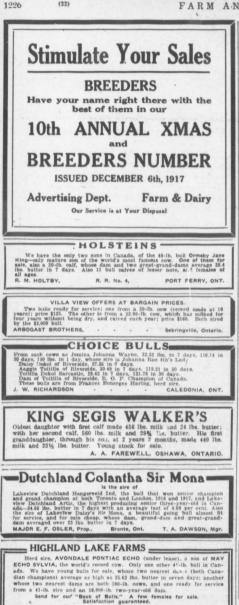
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writing to our advertisers

#### FARM AND DAIRY



Farm at Stop 55 Yonge Street Radial

A FEW YOUNG BULLS Fit for service. 1 from 27 lb. 3 year old, 54 lbs. In 1 day. Sirce, dam's ne-cord 30 J2 lbs. In 7 days. Sire from 34.60 lb. cow. 3 dams average over 30 lbs. In 7 days. "Speak Quick." PETER SMITH, R. R. NO. 3, STRATFORD. CMT.

Jefferson, Ont

R. W. E. Burnaby

### **Postal Card Reports** Correspondence Invited.

#### SHERBROOKE COUNTY, QUEBEC.

SHERBROCKE COUNTY, QUEEC. LENNOXVILLE, Oct. 20. -Extremely wat weather makes it difficult for our farmers to complete the harvesting of the second second second second second produces to searcity of help. Prices on the Sherbrocks market for all kinds of produce are remarkably good when trea. A karge number of farms have changed hands recently in the surround-ing country and prices realized have been good.-H. W. F:

#### HASTINGS COUNTY, ONTARIO.

HASTINGS COUNTY, ONTARIO. TREENTON. Oct. 27.-Very Hitle piew. TREENTON. Oct. 27.-Very Hitle piew. The second second second second second Hills fail wheat seven, and so prospects for a crop Just peoping out of the ground. No pasture; milk very low price out of abundant; stock are looking weil. The alo is helping out for the fail shortage of pasture-J. K.

DURHAM COUNTY, ONTARIO. CARDEN HILL, Oct. 32- The continu-ous cold, wet weather has retarded the growth of all wheat and yre. In many coldest automn in years. We have front amonet every night and were a good cross care being frond. Pedatoes are a fail crop roots are being with the average. Sev-eral cardias to polators have been thick are being frond. Pedatoes are a fail crop roots are being with the average. Sev-are cardias to polators have been thick are being frond. Pedatoes are a fail crop roots are being with a severage. Severation of the severage severation of the severage are being frond. Pedatoes are a fail are being frond. Pedatoes are a fail are being the being and the chicken are growth and the severage severage are being frond. Pedatoes are a fail watten con country. Owntanto. DURHAM COUNTY, ONTARIO.

WATERLOO COUNTY, ONTARIO.

WELLAND COUNTY, ONTARIO.

WELLAND COUNTY, ONTARIO. BRIDDERRIG, Oct. 54. — The weather has been rather wet for the month, keep-ing farmers from getting in all their po-tato and root crops. Fall plowing is well under way and on account of wet weat fall fail wheat is looking the best it has for years. The potato crop is somewhat damaged by wire worm on both and and count of the and blight, potatoes are being shoped in here as farmers do not grow enough to sail to the local towne-the heat crop was the best in year. The price of milk has advanced to 10 cents a quart, retail.—G. W. C. EEDMOTNO IDIT. ALBERTA.

EDMONTON DIST., ALBERTA. EDMONTON DIST, ALBERTA. HORNES UILLS, Oct. 1. - Harvert an organ is averaging about 45 bushess for the acre. which is shoult had what it was last year. But some farmers have full bushes are away below value in accord-action of the second state worth for bushes are away below value in accord-action of the second state worth for bushes are away below value in accord-action of the second state worth for bushes are away below value in accord-action of the second state worth for bushes are away below value in accord-tion we have a second state of the second the second state of the second state have had a epichdid season-d. E. T.

#### The Oak Park Sale

The constrained sale of Holisteins, held at Oak Park Stock Parm of Cettor 400, spectra for the cettor 400, spectra for the held at Oak Park Stock Parm of the provincial plowing match and tra-ter for the spectra for the heterprovincial plowing match and travent and consequently the attendance was good. There we probably over 500 The for the spectra for the spectra of a spectra for the spectra for the breading cetabilithment is in itself spec-tra for the set we probably over 500 The for the spectra for the spectra of the spectra for the spectra for the spectra for the spectra for the spectra while to speed a day there even if the spile to spile the spile to spile

while to speed a day there even if he had no intention of buying Holsteins at the second secon

Bough three for H48. The following is a list of animals catalogued with prices a list of animals catalogued with prices and the second s

NC Caniston. The auctioneer, Mr. T. Merritt Moore, and alao the secretary, Mr. Saver, descret great oredit for the modothness with which everything in connection with the sale was conducted.

Ont.



### **HEROLD'S FARMS** Beamsville, - -Son of KING PONTIAC ARTIS CANADA For Sale

Pontlac Canada Veeman, No. 17548, Dam Lydia Inca Veeman, No. 14687 -24 lbs. in 7 days at 3 yrs. old. He was born in April, 1913, is a real show bull, is safe, sure and active, also tuberculin tested and proven sound. Must sell to avoid in-breeding. W. KENNEDY - - . APPLE HILL, ONTARIO. J.

November 8. 1911.

(22)

Foyami

Wovember 8, 1917.

FARM AND DAIRY

# **Meat Shortage Critical Quick Action Needed**

"Since the War the live stock herds in Europe have decreased by 115,000,000 head. No one can say to what extent the breach of the Italian front was made possible by food shortage. France requires increased supplies unless the women and children are to suffer from hunger. The Allies look to Canada and the United States to save the situation which to-day is grave. We must and will save it. The demand for meat and the fact of depletion of European herds is a guarantee of high prices. Steps have been taken to assure fair treatment to the producers."

Mr. Hanna is working in co-operation with the Food Controllers of Great Britain and the United States. He, more than any other man in Canada, knows the needs of the Allies. His statement shows the seriousness of the meat situation. The question is: How can the shortage best be met?

The speediest way to relieve the critical situation is to greatly increase the production of hogs.

Swine, on account of being prolific and growing to marketable size rapidly, will produce meat more quickly than any other kind of livestock, because 1,500 pounds of dressed meat is a

# W. J. HANNA, Food Controller of Canada.

moderate estimate of what can be produced from one sow in one year. As it is a huge quantity of meat that is needed, and needed speedily, the Allies look to the hog raisers of Canada and the United States to meet the situation.

The Dominion Department of Agriculture and the Agricultural Departments of the Provincial Governments are co-operating to secure the interest and action of the Canadian hog raisers. The Food Controller states that steps have been taken to assure fair treatment to the producers. This will be explained in a further advertisement. The point the Government wants to impress to-day is to

#### Save the Sows oung

Great Britain has almost doubled her imports of bacon and hams since the war, importing over one billion pounds since last year. There has been no increase in the production of Canadian hogs to meet this situation. The killings in Denmark have decreased 40%. The receipts of hogs at Stock Yards in the United States for the eight months ending August 31st, 1917, show a decrease of 2,765.006 compared with the same period in 1916, while the month of September, 1917 (the latest month for which figures are available) shows the great decrease of 859,830

compared with September of 1916. These figures emphasize the pressing need for a great increase in the production of hogs and indicate a safe and profitable market.

The enormous consumption of the Allied Armies is sufficient to steady and maintain the bacon market at a high level. The British Army ration calls for one-quarter of a pound of bacon per man per day. Multiply this by millions of fighters and some idea is given of the need for increased production.

The fighters, and the women and children of Britain, France and Italy urgently need more meat. Canada can help supply it. Save the young sows

Dominion of Canada Department of Agriculture LIVE STOCK BRANCH OTTAWA

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