FARM AND DAIRY RURAL HOME



BETTER FARMING



Toronto, Ont., January 24, 1918



ISSUED EACH WEEK.

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ONE BOLLAR A VEAR

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GILSON MANUFACTURING CO. LTD. 507 York St., GUELPH, Ont.







Western Dairymen Meet in Convention

Storms Delayed Trains and Reduced Attendance. Strong Stand Taken on Oleomargarine. Other War Time Problems Taken Up for Discussion

- HE Slot Annual Convention of the Western Ontario Dariymen's Association met in troublous timeswith the weather as the trouble-maker Railway traffic had been delayed for days, and even when the convention opened, many lines had not been cleared. This reduced attendance to cleared. This reduced attendance to small proportions from outside points, and bad country roads made a similar reduction in local attendance. There was, havever, a fair attendance at all sessions, and the Association was enabled to express themselves on several abled to express themselves on several war-time problems of interest to the dairy industry. A national aspect was given to the assembly by the presence of W. A. McKay, Dairy Instructor for Nova Scotia; Abs. McKay, Winnipee, and L. A. Gibson, Dairy Commissioner for Manitoba. Professor Bousky, of Chicago, gave the international touch.

On the question of oleomargarine strong ground was taken that the estrictions be re-imposed as soon as the war is over. The growing shortgood reason for asking patrons to own good reason for asking patrons 15 own their own cans, in order that they may receive better care. The butter-grad-ing system was endorsed again and ing ayatam was successed again and again. The question of cheese prices, however, did not evoke the expected fire works, and definite action was not taken on it as at the eastern convenlaken on it as at the eastern conven-tion. It had been hoped by many that steps would be taken to link up all of the Canadian dairymen's associa-tions in a Dominien-evide organisation, but this subject was not mentioned at all until the last hour of the conclud-ing session, when Mr. McKay, of Nova Scotia, expressed his regret that some such move had not been considered.

mittee, of whom, only one memi mittee, of whom, only one memory present copresented the producers. "It is up to the dairymen," said Mr. Stratton, "to see to it that the end of the war also ends the life of elec. of the war also ends the life of eleo. in Canada. We feel sure that it is patriotism only that has kept dairy-men quiet, not wishing to embarrass the Government during the crisis of the war." His final words commended the start in butter grading, and suggested that now is the opportune time to remedy the present was related and extrawagant system of furnishing. cream cans let the patron supply his The Resolutions

The thanks of the Association were for their hospitality, to the numerous firms that contributed to the prize list of the dairy exhibition, to the speak-The butter-grading service was en with in the following terms:

with in the following terms:

"That this Association believes it to be in the best interests of both producer and consumer of dairy products, to immediately upon the conclusion of the war, rescind the pres lows as a war measure only, the imoleomargarine in Canada, and respectfully petition the Federal Minister of Agriculture to, through the Federal Government, again put into force the restrictions against eleomargarine as they appear in the Dairy Industry Act."

The question of cream cans result-ed in the following resolution:
"That this Association is in sympathy with any movement tending to

"Whitlevites" at the W.O.D.A.

Every dairyman knows that with fair feed prices and fair fabor costs, he can make more on milk than he can on beef; the cow is worth three thems as much as a milk producer as when turned into much can be the same than the same

We have an Ontario law against ward regulating scrub dairy sires.

Our supremest energies are needed to-day. We cannot afford to fuss and fritter with a 3,000 pound cow. Such owners appear adrift on an ocean of unbelief regarding true values.

A clear cut case at one of our record centres shows that extra feed, more clover and more meal, valued at \$605 given to 100 cowe, produced over \$1670 worth more milk; an investment that paid 170 per cent.

The program was an "all-round" one covering almost every phase of the dairy farmer's activities, and from an educational standpoint, was one of the most valuable in the history of the Association. Many addresses merely summarized here will be given in full in future issues of Farm and Dairy.

The President's Address.
W. Stration, in his presidential address, dealt unhesitatingly with address, deart unaesstating; with the big problems that face the dairy industry. He admitted that milk and milk products have reached highest prices on record, but certain factors have made conditions even more unsettled than usual Fixed prices on cheese and unlimited prices for milk and certain of its products constitute an injustice, but in spite of the Association's efforts, no one will accept the responsibilty of fixing the price or dealing with the matter. Butter-men, too, have a grievance in oleomargarine. "But, unlike the cheese-men," remarked Mr. Stratton, "butter-men feel confident of being able to place the blame for this on the right man, "The Food Controller,' and when you know why and how this was done it stirs up anything but a feeling of cooperation with the said man." The president then traced th agitation for oleomargarine to its source, the big packers, and reviewed the manner in which the dairy inter-

were ignored by the Milk Com-

support the creameries in a change of business policy which will, under pres-ent conditions, discontinue the supplying of cream cans free of charge to cream shippers."

Wartime Problems.
Some of the problems directly trace Some of the problems directly trace-able to the war, were dealt with by Mr. J. A. Ruddick, Dominion Dairy Commissioner. Without popsin as a substitute for rennet, he stated that 75 per cent. of the factories in the country would have closed. Even yet, however, the situation is serious. Even more difficult is it to get tin sheets for milk cans and vats. An embargo has been placed on their export by the British Covernment, and all efforts to have it amended have failed. Manufacturers may get small sheets in the United States, and Mr. Ruddick sug-The main body of his address, how-ever, was a defence of the sale of cheese through the Cheese Commis-sion. He asserted that the price secured, 21% cents, was more than the British Government had intended to pay, and was more than they are now paying in New Zealand-19c to 194/c One advantage of the method was that cheese was paid for on this side, and a cost of exchange, which would have a cost of exchange, which would have amounted to 1% cents a pound, was saved to the producer. Dealers, he thought, paid more than the market (Concluded on page 6.) Trade inc VOL. X

We Nee HE beg short o that the sh short is the Britain, who of all kinds to milk and stitute for vegetable vegetable a step in phy I am to dea

The first is at the ba products. I feed poor co very many over in 24 1 make four 1,000 lbs. in efforts than ducers, thus fat, without the same tir

The ongar prove the d of Performa bred stock a owner of c These, coup gradual thou of Canada

The secon tite, always condition, is butter and c grass, soifag sonable qua bran, oil cal increasing t Laberal feed sential for it feed problem the present tation is to below what winter time, feed is ease milk in larg about one pe milk produce one-haif the

The third acute proble namely, the present confarming bee is tikely to which have machinery, a eign labor; on the farm.

* An addre



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

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TORONTO ONT. JANUARY 24 1918

Suggestions on the Production of Butter and Cheese in

We Need Better Cows-Cheaper Feed-More Labor-More Economical Use of By-Products and a Higher Price for Cheese Prof. H. H. Dean, O. A. C., Guelph, Ont.

THE beginning of the year 1918 finds the world short on food and the people hungry as never before, because it is a peculiarity of humans that the shorter the supply of catables in the cuspboard. the more hungry we become. Particularly short is the supply of butter, more especially in Great Britain, where butter has been selling for as high as one dollar per pound during the past year. Fats as one dollar per pound during the past year. Pats of all kinds are earce, milk-at more than all others, because of the s'aughter of cows and lack of labor to milk and care for dairy cattle. There is no substitute for milk butter. The nation that relies on vegetable and animal fats other than milk fat, especially for children, has taken the first serious step in physical and mental degeneracy. However,

I am to deal with practical suggestions on the pro-duction of butter and cheese for the coming season. The first one is that old one of better cown, which is at the basis of all increased production of dairy is at the basis of all increased production of dairy products. In these times, farmers cannot afford to feed poor cows. While we may not be able to breed very many cows which produce 100 blos. of milk or over in 24 hours and 20,000 lbs. milk in a year; or make four to five pounds of butter in a day and 1,000 lbs. in a year; the fact that we have a number of such cows, should stimulate breeders to greater of such cows, should stimulate precess to greater efforts than ever to secure these phenomenal pro-ducers, thus increasing the world's supply of milk fat, without increasing the number of cows and at the same time we shall be conserving the supply of

feed. The organizations which are doing most to improve the dairy cattle of Ontario are the Records of Performance and the Record of Merit for pure bred stock and the Cow Testing Association for the owner of common cows or unregistered stock. These, coupled with private records are making a gradual though slow huprovement in the mibel cows of Canada

Cheaper Feed Essential.

The second suggestion which, like a good appe-tite, always remains with us, when in a healthful condition, is to secure more and cheaper feed for butter and cheese production. Cheap and abundant potter and coesse production. Cheap and abundant grass, solfage, sliage and root crops, with a rea-sonable quantity of grain and by-products, such as bran, oil cake and cottonseed meal are essential for increasing the production of butter and cheese. Laboral feeding of the right kind of feed is an es-Liberal feeding of the right kind of feed is an essential for increased preduction. Unfortunately the feed problem is a serious one on dairy farms. With the present price of grain and millifieds the temptation is to lessen the quantity of there to a point below that is required for profitable production in winter time, as a certain amount of concentrated feed is essential along with roughars, to produce milk in large quantities. Large producers require about one pound of meal for three to five pounds of milk produced. The great importance of cheap feed is realized when we consider that approximately one-half the cost of producing milk is for feed.

The Labor Problem.

The third practical suggestion relates to a very soute problem on dairy farms, at the present ime, namely, the labor problem. No class of farmers have been bit so hard as have dairy farmers in the present condition of labor. Many have sold their berds of dairy cattle and gone into other lines of farming because of help shortage. This condition is skelly to continue for some time. The remedies which have been suggested are, to buy more dairy machinery, such as tractors, miking machines and engineering the conditions of the state of the same being induced the same feely import foreign labor; conscript labor; and grow more help on the farm.

*An address before the recent Experimental Union lonvention.

Not only is there a shortage of skilled labor on dairy farms, but the creameries and cheese factories of Ontario are like; to be short handed for 1918. This latter is fully as serious as the help problem on the dairy farms. Without our factory system on the dairy farms. Without our factory system of manufacturing butter and 'cheese, milk would be a drug on the market. While it is true that a considerable quantity of butter is still made on Ontario farms, and also some cheese, the quantity is lessening each year and likely to be markedly so from now on, as poor dairy butter will have to compete with decountagraine and will have to be sold at imitation butter prices

Lebor demands may be summed up in eix words-short hours, easy work, big pay.

Cheese Prices Must Advance.

If we are to increase or even maintain our present If we are to increase or even maintain our present cheese output, the price of cheese must advance over the prices allowed by the Cheese Commission of 1917, which was 21½ cents per pound for grade one cheese, at the port of Montreal. We have no hesitation in saying this is not anywhere near its food value as compared with the prices paid for meat and other protein carrying foods. The coun-ment and other protein carrying foods. The counmeat and other protein carrying foods. The com-petition from milk condenseries is driving the cheese factories to the wall. Both patrons and manufac-turers of cheese are having a serious time and something must be done to relieve the situation or our cheese trade, the result of over half a century of fostering care, will be out of existence in a few years. Some claim that the present condensed milk boom is only temporary. A leading American dairy journal recently said:—

The Food Situation

T HE food situation in the Ailled countries of western Europe is graver than it has been at any time since the beginning of the war. In-formation has been received by the Food Controller which shows that the utmost effort must be made to increase spring acreage and to secure a much larger production of bread grains in 1918 than was done in 1917. Mr. Hoover has already gointed out that if ships have to be sent to more distant countries to carry food stuffs to Europe, fewer ships will be available to carry soldiers and sup-plies from this continent, with a result that the continued participation of the United States and Canada in the war will be greatly hampered.

The situation has been thoroughly canvassed, and among those who have studied it, there is unanimous agreement that the only solution of the food problem is greater production in North America. In this connection it is especially important that the spring acreage sown in bread grains should be as large as it can possibly be

.Every person who can possibly produce food must do so, no matter how small his or her contribution may be. Those who cannot produce food. can at least conserve it. The utmost economy is imperative. The situation to-day is critical and the world is rapidly approaching that condition when price will not be the most important question, but when even the people of Canada may be glad to eat any food which they can obtain.

The successful prosecution of the war by the Allies will depend to a very large extent upon the extent of food production and food conservation this year by the people of North America

"We have no food product to-day that is in such "We have no tood product to-day that is in such great demand for export as is condensed milk, and the manufacturers can afford to pay prices for it that will drive the creamery and the cheese factriat was drive the creamery and the cheese fac-tory, with which the condensery competes, out of buginess. . One creamery has put in a part of a condensing outfit, and is selling the condensed product in bulk to another condensery which is canning it."

If the condenseries are allowed to pay the high If the condenseries are allowed to pay the high prices which have prevailed during the season of 1917, then choese manufacturers must receive at least 26 cents a pound wholesale for number one quality of cheese. One of the powder milk companies paid \$2.35 per 100 lbs. for milk taxing 3.5 per cent. fat for the month of November, 1917, and \$2.50 per event, for four per cent. milk. Milk testing 3.5 per cent. fat will make about nine and one-half \$2.50 per event. fat will make about nine and one-half per cent. milk fattable obsess per 100 lbs., and four per cent. milk cents of the 10 lbs., these per cent. The milk fattable obsess per 100 lbs., and four milk fattable obsess per 100 lbs., and four cents which sells for 32 lbs. these per cent. milk make into cheese which sells for 32 lbs. hundred pounds of three and one-nail per cent. mix made into cheese which sells for 36 cents per pound would be worth \$2.17½, which means that 17½ cents would have to be realized for the by-product whey which is practically impossible if fed to caives or pigs. There is also the cost of manufacturing which would amount to 19 cents at two cents per pound of cheese. We can readily see that the cheese of cheese. We can readly see that the cheese patron and cleese manufacturer are heavily handicapped when competing with condenseries under present arrangements. It is not too much to say that number one cheese should sell for as high a price per pound as does number one beef or bacon. The new slogan regarding prices to be paid for farm produce is, "Cost of Production, Plus a Fair Profit." Whether this is obtained by means of Government regulation or through cooperation and organization among farmers, makes little difference, but this principle carried into farm practice, means a new era in agriculture. of cheese.

a new era in agriculture.

Manufacturing the By-product.

While live stock would no doubt suffer considerably if there were neither skim-milk nor butter-milk for calves and pigs, the fact that from 12 to 15 milk for caives and pigs, the fact that from 12 to 15 pounds of edible food, highly protein in character, may be made from 100 pounds of these by-products and whereas it requires from 25 to 30 pounds skimmilk or buttermilk to produce a pound of gain in pigs, we see that considerable human food is lost by feeding these to pigs instead of converting them directly into food for humans. Assuming that a pound of skim-mik cheese is equal in food value pound of skim-milk cheese is equal in food value to a pound of gain in pigs, 160 lbs, of skim-milk or buttermilk converted into cheese would be three as economical in the production of human food as feeding hogs on these by-products and by many would be considered cleaner and pleasanter work. Whether or not the consuming public is of this opinion remains to be tested.

To sum up—in order to increase the production of butter and cheese for 1918, more cows and better or outer and cheese for 1918, more cows and better cows are needed, more and cheaper feed, more labor on dairy farms and in factories, or its equivalent in machinery, higher prices for the cheese produced in 1918, than was paid in 1917, and the manufacture of larger quantities of dairy by-products into paint-sole, digestible, merchantable food products for di-rect hugens consumption sealer the sealer of the products of the consumption of the products of the consumption of the products of the consumption of the products note, discertifie, merchantage took products for direct human consumption, rather than through the agency of animals by which latter process a 'area part of the energy value and protein compounds of skim-milk and buttermilk are lost.

The opposition to Chinese labor on the farms or in the factories of Ontario is overwhelmingly straig. This province is going to remain white.—Toronto

and sundamental and the sundamental sundam

Fitting and Feeding for Test Work

Fitting is Important and a Good Start is Half the Battle-A. D. McD.nnell, Mgr. Dodge Farms, Conn.

THE man who is hoping to make large records must first of all have a cow with productive shills, capacity and dairy individuality. Feed, time and patience are essential, but above all is the shillst to understand chimb animals with their likes and dislikes. I think all feeders will agree that cows differ as muca physically, and in disposition, as do people. If a cow is at all this, as the good ones are likely to be, three months will not be too long for proper fitting for the seven-day test, yet some cows will get in good coudition in much less time. It is sometimes difficult to dry up a cow so long before freshening, and lack of care at this time may cause udder troubles that will produce permanent effects. manent effects.

The most important part of test work is in the fitting, and the essential thing here is proper feeding. Care must be taken that a cow does not get too much feed, for a cow "off her feed" Still she quite comes back. Still she must be fed to full capacity must be fed to full capacity if the best results are to be obtained. The rest from feed which, she gets while drying off, followe by a few days of light laxative feed and porhaps a few small doses of salts, will be bone-ficial. When the wally dry, begin feeding a ration of grain, consisting o equal parts of bran, ground oats, hominy and oil meal. Begin with 8 or 10 pounds daily, gradually increasing the amount till she is working at full capacity. Here is where the feeder must use his judgment Watch her closely and do not wait till she refuses feed before cutting down on her grain. A look at her eye will tell the experienced feeder whether or not she is feeling right.

Quarters for the Cow.

A roomy box stall with plonty of clean bedding, sunlight and fresh air, with water and salt always at hand, are all quite important. A cow with these advantages does not need much, if any, outdoor carcies. It is the general opinion that she will put

acraniages exercise. It is the general opinion that she will put on a softer fat without the exercise. Remember to watch the cow. Just as too much grain reduces the milk flow, so will it interfere with the laying on of fat and, besides, it may overwork the laying on of fat and, besides, it may overwork the laying on washinger and cause a setback in the the digestive machinery and cause a setback in the normal and consistent improvement essential to success. As a rule stock foods and tonics are un-necessary, and used indiscriminately are useless and secessary, an used indiscriminately are seeless and even harmil. Powdered charcoal is often helpful, but not necessary. If a cow needs a tonic and can be kept going with its help, by all means give it. Epsom salts is always a safe prescription, and should be followed by a veterinarian's prescription for that special cow.

The Last Month Before Freshening.

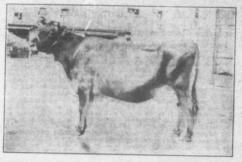
The last month before calving feed her four times daily. Before any signs of serious inflammation of the idder show, change her feed to a mixture of bran, oats and oil meal. Watch her more carefully than ever taking particular care to keep her appe-tite good. Keep her out of drafts at calving time and blanket her if the weather is at all cool. Let her have all the water she wants and as hot as she will drink it. Give her bran mashes the first three days after calving, then a few of the bran, oats and oil meal mixture. She will tell you how much and how long to feed this before changing to the ration to be fed during the test. Do not make this change too suddenly, and be guided by the condition of her udder, her appetite, amount of milk given and gen-eral condition.

For Yearly Work.

For semi-official work, give a cow considerable outdoor exercise while fitting and feed any good dairy ration, varying it, of course as the individual danty ration, varying it, or course, as the individual demands it in the preliminary preparation. The idea is not to get so much soft fat as for a seven-day test, but to get the cow in as strong, vigorous and hearly condition as possible. Remember she has to run 365 or 365 davs and not for seven only. The to run 305 or 365 daws and not for seven only. The same treatment applies at calving time as for the seven-day test except that a little more time can be taken in getting her on full feed. A big start is a help, but. like driving a race horse, a cow must not be pushed too fast at the beginning for there is danger of overdoing it and losing out later. The cow on semi-official work will need her feed very carefully analyzed all through the year. And again;

An Example of Overfeeding.

I could give several examples of overfeeding. One cow in particular was nearing the finish of her year's work. She was cleaning up 18 pounds of grain daily. The amount of naik varied from one pound daily. The amount of malk varied from one pound to as much as 12 pounds a day, so I knew something was wrong. After trying different feeds with no scod results, she was given the original feed and the amount reduced one-half pound daily, till she was getting only 18 pounds a day and giving more milk than when cating 18 pounds of grain. Feed was



Mabel of Edgeley, First in her Class at the Ontario Provincial Winter Fair. When of Edgerey, risk is a second to the control of the control of

carefully increased to 16 pounds a day, when she gave 52 pounds of milk a day. She did not vary a pound a day for the rest of her year, and finished up giving 62 pounds a day.

If too much feed affects a milking cow this way.

it seems reasonable that too much is also bad for a cow being nited. Enough cow, enough appetite, enough feed, is the combination for big records. enough feed, is the commination for big records. Finally, let me say to the young breeder, get at it. It pays.—Address delivered before Western Connec-ticut Holstein-Friesian breeders.

Experience With Fertilizers A Quebec Farmer Has Found Them Profitable John W. Alexander, L'Assomption Co., Que.

Y first experience with commercial fertilizers dates back to the memorable year of 1914, when I was persuaded by a representative of the "German Potash Syndicate," of Teronto to try an experiment with an

acre of potatoes. The company 7as to supply the amount of fertilizer needed free of cost, and to follow out direc-tions. The acre of land as divided into three equal plots of a third of an acre each, and the three plots were to receive the same amount of man-ure, and also the same cultivation during the cultivation during the season. About 10 spreader loads of 40 bushels capacity were applied per acc. Plot No. 1, no fertilizer applied.
Plot No. 2, complete fertilizer consisting of fertilizer consisting of 10 based on home place.

120 lbs. acid phosphate, 40 lbs. nitrate of soda, and 55 lbs. sulphate of

potash Piot No. 3, acid phosphate and nitrate of toda in same proportions as No. 2, but no

Although the season

was unfavorable, being very dry and hot, which affected the aprouting of potatoes, the results were saruprising. Plot No. 1 yielded 54 bushels, most of which were unmarketable as they were small and scabby. Plot No. 2 yielded 55 bushels of fine large-sized tubers with very few small ones. Plot No. 3 yielded 57 bushels not much better than Plot No. 1. Junes 37 bushels not much better than Plot No. 1.

This experiment showed me erry conclusively that fertilizers pay if you use them in an intelligent way and that for potatoes it takes a fertilizer high in potato content.

potch content.

In the same year I determined to discover how effective a cheaper grade would be for corn, and accordingly purchased a 5-26 fertilizer and applied 350 pounds per acre when planting the corn. This was put on with the fertilizer distribution attached to the corn planter and dropped right in the drill, but and touching the corn. A light dressing of manure had been put on the land and wall worked into the soil.

the soil. The results were very satisfactory. Some few drills were not fertilized and they were noticeable all through the season, and when the count there were from 8-to 10 hundles less per drill swhere the fertilizer had been applied. Although prices of fertilizer had been applied. Although prices of fertilizer had been applied. Although prices of fertilizer have advanced very much I stways make it a point to have it on band when core planting time comes as I always find that it-shows up on the yield and hastens growth; also you are fully assured of a good carch of clover when that field is seeded down.

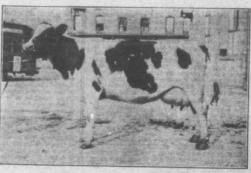
I would advise every farmer to make a trial on his own.farm and find out the grade best suited to his particular soil. Our soil varies from heavy casy to sandy loam and wherever I have used it the results have been satisfactory.

Alfalfa Growing in Quebec Success With the Grimm Variety

GROUP of dairy cattle breeders of the Province A of Quebec were discussing with an editor of Farm and Dairy the suitability of alfalfa to Quebec conditions at the time of the last Ormstoon show. The general verdict seemed to be that affalfa. show. The general vertice seemed to be that affairs was not a suitable crop for Quebec farms. When the group had dispersed, a stranger who had overheard our discussion came forward and offered his experience with alfafa. He proved to be Mr. K. McRac, manager of the big farm owned by L. J. Carte, south

of Montreal.
"Two years ago this spring," said Mr. McRee, "we seeded a considerable acroage to Grimm alfala. It was as old and not properly prepared and win and barley as a nurse crop. Last year we cut two crops of affalfa, running about four tons of the last crop with the calves. The crop came through this last winner in excellent condition, except where some grass had reper in . I am convinced that under our condition, it least, and and the said can be grown successfully in Quebec."
"And how about the feeding of the hay?" Mr. McItae was asked.
"We fed it erincinally to the calves," said.

"We fed it principally to the calves," said he.
"Some of it we ran through the straw cutter, mixed
with bran and fed to the chickens. Two brood sows
also got liberal rations of alfalfa hay. In all cases
it proved the best roughage on the farm. In fact, our calves got no grain at all, just affair hay, corn enslage and roots and they are well grown and thrifty. We think so much of the crop that we seeded down more this spring, but this time without



She did the Best of any Pure Bred Holstein at Guelph.

She did the Best of any formal properties of the Helslo Mercena DeKol, owned by H. C. Hanner, Norwich, Ont., was first in the Helsln cow class. Her production for the three days was 115.1 lbs. of 3.5 milk and her
ore 252.814 points. For her breed she is not a large cow, but she js of good type and
conformation.

conformation.

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A Manitoba Method of Wintering Stock that Calls for a Minimum of Labor and Building Investment.

—Photo Courtesy Immigration and Color

Some Practical Suggestions on the Production of Spring Wheat

The Importance of the Crop Itself---Selection of Seed and Dates of Seeding as Discussed by Dr. C. A. Zavitz at the Experimental Union Convention

W HEAT is used more extensivel as human food that Is used more extensivel as human food than any other cereal. It is particularly rich in nutritive onetituents and no other grain except rye contains extensively the contains which is capable of expanding and forming light probability. When can be easily grown, economically transported more and be easily grown, economically transported more deful opportunity of doing a tremendous service at the present time in producing wheat for export. The afreage of fall wheat in Ontario was considerably below the average in 1917 and owing to unfavorable weather conditions last autumn the area of winter wheat is about the same this year. It will be necessary, therefore, to depend upon the spring wheat for any increase in acreage. In 1917 there was an increase of spring wheat over the previous year of approximately 38,000 acres.

According to recent estimates the normal annual

wheat for any increase in acreage. In 1917 there was an increase of spring wheat over the previous year of approximately \$8,000 acres.

According to recent estimates the normal annual communities of wheat in Ontario is about 13,000,000 on the communities of the open should be considered to the communities of the Ontario in the past year was therefore, wheat of Ontario in the past year was therefore, wheat of Ontario in the past year was therefore, wheat of Ontario in the past year was therefore, wheat of the control of the co

| Period of Six Years. | Average Bushels of Spring Wheat per acre per annum. |
|--|---|
| 1882 — 1887 1888 — 1893 1894 — 1899 1900 — 1905 1906 — 1911 1919 — 1917 | 15.5 15.0 15.7 17.8 17.4 |

It will be seen that the highest average yield per acre was for the last six years. It may be a surprise to many of the farmers of the production of spring wheat in Ontario has been a failure in recent years to know that the average annual yield per acre of spring wheat for the past three years has been greater than that of any three consecutive years from 1882 to 1914. Some of the highest yields in spring wheats during the past five years have been made in some of the counties of both eastern and spring wheats during the past five years have been made in some of the counties of both eastern and western Ontario and in some of the districts in the northern part of the province. Under the circumstances it seems reasonable to conclude that the acreage of spring wheat in Ontario might be advantageously increased to a considerable extent.

Sowing the Best Variety.

According to the results of cooperative experiments and the experience of farmers throughout Ontario good returns have been made by both the wild Goose good returns nave been made by both the wild Goose and the Marquis varieties of spring wheat. The average yield in bushels per acre for the last five years has been 20.2 for the former and 10.9 for the latter. As the Marquis variety of spring wheat is about the special production it will likely be used extensively for seed purposes in the coming suring.

Not only is it important to sow a good variety of

spring wheat, but it is also exceedingly wise to use seed of the highest quality. In an experiment which was conducted for eight years in sowing different selections of seed of spring wheat some interesting results were obtained. The following shows the influence of one season's selection of seed repeated for eight years:—

| | Weight | Average Yield per Acre per Annum. | | | |
|---|--------------------------------|--------------------------------------|-----------------------------------|--|--|
| | Measured Bushel (pounds) | Tons of Straw. | Bushels of Grain by Weight. | | |
| Large plump seed Small plump seed Shrunken seed | 59.1 58.3 56.9 | 1.4 1.3 1.2 | 21.7 18.0 16.7 | | |

This shows that large, plump seed gave an increase over small, plump seed of shout 20 per cent. and over shrunken seed of shout 20 per cent. It is exceedingly important to the strong vitality in order to get the lound seed of strong vitality in order to get the large treturns. Sowing at the Right Time.

In an experiment conducted at the Ontario Agricultural College in each of five years, spring wheats were sown at six different dates in the spring, starting as early as the land was in a suitable condition for cultivation and allowing one eek between each two dates of sowing. The experiment was conducted in duplicate each year. The average results of the ten tests conducted in the five years are as follows:—

| Seedings. | Weight | Yield pe | r Acre. | |
|---------------------------------------|--|-------------------------------|--|--|
| Measured Bushel (pounds) | Straw (tons) | Grain (bus.) | | |
| First Second Third Fourth Fifth Sixth | 60.1 59.6 59.0 58.9 56.5 54.0 | 1.2 1.1 1.0 .9 .6 | 21.9 19.2 15.4 13.0 8.4 6.7 | |

It will be seen that for best results it is of great importance to sow spring wheat as early in the spring as the land is suitable for cultivation. According to the results of the experiment a cleay of one week made a decrease in the yield of 2.7 bushels per acre or of fully 12 per cent.

By sowing at the right time on well prepared land the best seed obtainable of the Marquis wheat, the increase in production would be surprisingly great and the available amount for export might be

great and the available amount for export might be easily increased many fold.

Reports concerning clover seed are not favorable in the main, says a bulletin of the Ontario Department of Agriculture. The crop at one time promised well for seed, but rains delayed cutting, and early frosts did so much injury to the heads that many fields were nut to nasture. fields were put to pasture.

Bacon Production

By Prof. G. E. Day, Guelph, Ont.

A T the present time a strong plea is being made for increased bacon production. There are several reasons why hogs are especially important in times like these, and the following may be noted:—

(1) Hogs multiply rapidly, and mature uickly, so that they offer the quickest means of increasing the world's supply of meat.

(2) Hogs produce more meat from a given mount of food than any other domestic ani-

(3) Hogs give a greater weight of dressed carcaes in comparison to live weight than any other animal.

(4) The carcass of the hog contains more edible meat in proportion to bone than that of any other animal. (5) Pork and bacon contain a large propor-

tion of edible fat, which is vitally needed in the rations of soldiers.

(6) Bacon is perhaps the most compact form in which meat can be shipped. It will be seen, therefore, that the hog is bound to play a very important part is ration-ing our armies and those of our allies.

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TOP DRESS all Crops with

Nitrate of Soda, no matter what other fertilizers you may have used-100 pounds per acre for seeded crops and 200 counds per acre for the cultivated ones. The increase will yield large profits over cost

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The price of condensed milk, Mr. Ruddick contended, was not due to the fixed price of cheese. The demand is so great that the condenseries would have gotten the milk no matter would have gotten the milk no matter what the price of cheese. The world-wide market for the product, too, makes its control almost impossible. In the course of evolution certain cheese factories are bound to go out of business when near condenseries It would be regrettable, however if after the war, the cheese factories were disorganized and the demand for milk at condenseries should fall off, and the speaker urged that cheese factories be supported. Another change due to the war is that white cheese has increased, and next year no colored cheese at all may be made in Canada

Mr. Ruddick placed the exports of Canadian cheese this last year at \$37, 544.850, or about 2,000,000 boxes of Taking home consumption in

Cheese Prices Discussed.

When Mr. Ruddick sat down the discussion started. Mr. Jas Donaldson, the chairman, as president of a large cheese factory, voiced his opinion that

justified, and the producer got all Association should be willing to co-there was in it. operate with the £2.0.D.A. in placing The price of condensed milk, Mr. the situation before the Minister of Agriculture

> ness? The answer is best given in the results of rural surveys, such as the one conducted in Peel County last fail. Mr. Archie Leitch, who conducted the survey, reviewed his work as at the Experimental Union, report. 67 farms, as compared with 99 farms a varies according to the size of the

| farm as follow | 78: | |
|----------------|-----------|---------|
| Size | Number | Labor |
| of farm. | of farms. | income. |
| Under 85 acre | s 22 | \$ 408 |
| 86-100 " | 15 | 811 |
| 101-150 " | 14 | 1.074 |
| 15/1-241 " | + 16 | 1.619 |

On the whole, Mr. Leitch believe that the small and large farms would

plowed down is ideal for corn again. grain crop; a bushe! each of oats and barley by weight is still the heaviest fielder. A man in the audience asked but was assured that a reduction in 'otal yield would surely result. Finally each farmer was advised to select a few good mangel roots from which to grow his own mangel seed next year.

The Premier Speaks.

The Premier Speaks.

Premier Hearst was the principal speaker Wednesday evening. As acting Minister of Agriculture, he devoted the most of his address to a review of the work of that department butter grading, wool marketing and educational work. He appealed for greater sympathy between different classes of the community, and expressed his regret that efforts of town people to aid in production had not always been kindly received. Speaking of the farm labor problem, the Premof the farm labor problem, the Premier promised more returned soldiers for farm work, and men of this class will operate the 130 Government tractors. He repudiated the suggestion that Chinese coolies be imported with

that Chinese coolles be imported with these words: "Id on to believe that they would do effective work or that they would be desirable."

An appeal for greater production concluded the Premier's address. "Farmers hold the second line trenches," said he. "Failure in the second line. means disaster—in the front line as well."

Butter Grading Endorsed Butter Grading Endorsed.

"I can scarcely conceive of anything more satisfactory to a creamery owner," said Mr. W. Waddell, of Kerwood, after Mr. Scott had given his report, "than to have every churning of butter scored by a capable, efficient and disinterested man, appointed for this purpose. It provides ed for this purpose. . . It provides a medium for the sale of butter as be-tween buyer and seller. The owner can sell his butter and ship it forward in confidence that he will get a square deal, which he otherwise sometimes doubts." In one case Mr. Waddell shipped 85 boxes of butter, and the buyer insisted on classing it as second grade and reducing the price a cent pound. Fortunately the butter had een scored by Mr. Scott as No. 1, and payment was made accordingly. The grading system, he said, results ore careful factory work, and will in time lead to some kind of a cream grading system. As a factory owner, Mr. Waddell strongly advised all to come in on the grading system.

Speaking of the grading system from the standpoint of the dealer, Mr. J. W. Steinhoff, of Toronto, said that the work had resulted in decided benefit to the creamer; interests. He re-gretted that he could not yet, however, endorse the quality of Western On-tario butter. He suggested that creamerymen should go further and sell erymen should go further and sell their butter on grade rather than try to get one price for all. Mr. Scott, he thought, had been rather liberal in his grading. In some instances, when butgrading. In some instances, when our ter was held, it did not score up to the grade assigned it. A weekly auc-tion sale of graded dutter in Toronto was suggested, similar to the auction sales of Quebec butter in Montreal.

Rennet Substitutes. Pepsin, used as a substitute for ren repsin, used as a substitute for ren-net extract, has resulted in good cheese, but an excessive loss of fat in the whey. Mr. Geo. Barr. Dairy Branch, Ottawa, has been conducting experiments at Finch, to see if this loss cannot be avoided. His results, as told to the convention, indicate that "setting the milk at a temperature slightly under 86 degrees, with a suffi-cient quantity of pepsin to coagulate the milk ready to cut in less than 30 minutes gave practically as good results in the whey as when rennet extract was used." But Mr. Barr added, "I am quite convinced that it requires greater skill on the part of the chees maker to make cheese successfully with pepsin than with rennet extract

Experiments were also conducted at Finch with "Actolac," Mr. Barr found that the addition of two ounces of

After Waddell.

Cash on ha Members fe Legislative Money recei Donation fo Sale of dai Advertising gram

gram .. Miscellaneos Tota

Cash naid for the butter \$ Co. \$50. petition Stenographe rectors

Printing \$107.65
Judges fees
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express charges, Half fines p Anditors Fe

Western Dairymen Meet in Convention (Continued from page 2.)

cheese. Taking home consumption in to consideration, the make was prob-ably about the same as in 1916, and exports showed a slight falling off.

The Rural Survey. What are the factors that make for success or failure of the farm busi-ness? The answer is best given in the

ed in Farm and Dairy last week. Re-sults have now been compiled from year ago, with no change in general year ago, with no change in general deductions. The labor income, what the farmer has left after paying five per cent. on his investment, all running expenses and a reasonable amount for labor done by the family,

average about the same in quality of live stock, and yields per acre; size,

The Dairy Industry in Western Ontario Some Gleanings from Chief Instructor Herns' Report

10,669 patrons (716 less than 1916) supplied milk to 140 cheese factorie Percent, fat in milk was 3,34 per cent, (.03 per cent, less than in 1916). T price received in 1917 is the highest on record, an average of over 21 cents With the exception of a couple of weeks in July the quality of the cheese

Ten more cheese factories paid by test than in 1916.

Instructors tested 8,857 samples of patrons' milk at cheese factories. Or these 2,118 tested 3 per cent. or under, and only 210 four per cent. or over. 102 samples tested as low as 2.6 per cent.

THE CREAMERY REPORT

Butter prices were the highest on record; estimates, however, indicate a corease in the output of about 12 per cent. compared with 1916. Quality was reli maintained, but some butter developed mayors in storage. 38,982 patient maintained, but some butter developed mayors and 98 cream buying supplied cream (89 per cent. fat) to 127 creameries and 98 cream buying

The average of moisture in butter was 14.75 per cent.; 67 samples from 28 creameries tested over 16 per cent, moisture. Thirty-two creameries (7 more than last year) pasteurized. Eight creameries graded cream for churning, and one paid for cream by grade.

"The point has been established that a grading plan is practicable under Ontario conditions, provided the service is supported by the creamerymen and dealers of the province.

"It is likely that a class for 'specials' scoring 94 points or over will be adopted for next season, in connection with the grading system, but a provision will be made for this grade that the cream must be pasteurized."

there was much room for improve ment in the present situation. A fac-tory owner, Mr. Frank Boyes, stated that it was his understanding that condensed milk and milk powder were purchased by the Allied Governments buying commission at New York, and if our Government can do anything through them to regulate prices it should do so. Mr. Thos. Ballantyne. should do so. Mr. Thos. Ballantyne, of Stratford, felt that the dissatisfaction was not so much with the price of cheese as with the difference in price, and perhaps this could be regulated. Mr. Ruddick explained that central buying is a recent development, and even yet different government, and even yet different government. ments are bidding against each other for condensed milk.

Prof. Dean brought the question to a head when he suggested that the Western Association join with the Eastern Association in sending a delegation to Ottawa to urge an increase in the price of cheese. Mr. Ruddick stated emphatically that no number of delegations would influence the price delegations would influence the price one jots. He said he knew just what the situation was, "Don't worry about the price," was his counsel. "Your interests will be looked after in every possible way." He suggested that with the situation as serious as it is we don't know whether we can sell our cheese at all or not. There is not even a cheese commission appointed for this year. No resolution resulted from the discussion, but the opinion was expressed and applauded, that the

therefore, was the controlling factor in the labor income. The advantages of size were summarized as more capltal invested productively and more acres worked per horse and per man.

A Talk on Crop Production. Prof. C. A. Zavitz, of Guelph, enum Prof. C. A. Zavitz, of cheiph, enum-erated five points in which progress can be made in crop production: Bet-ter seed, better cultivation, under-drainage, more fertility and a better planned rotation of crops. The first can be accomplished without any extra expenditure of labor. Multiplicity of varieties is a weakness. The speaker stated that as many as 60 different varieties of potatoes have been mentioned as most extensively grown in different districts. In the township of Caradoc, where one var-lety, the Dooly, is specialized in, potatoes of uniform quality are shipped in car-load lots. Sixteen to 18 variin car-load lots. Sixteen to 18 varieties of oats are grown extensively, but the tide is toward O.A.C. No. 72, even as it has already gone to O.A.C. No. 21 barley. For the bean crop, Prof. Zavitz mmde a special appeal. Ontario is right in the "bean belt," the demand is certain to keep up and prices will be high.

In the matter of crop rotation, the Professor advised such an arrange-ment of crops that each would be a preparation for the crop to follow. For instance, corn prepares the soil excellently for grain, too heavy seed-ing of oats will be avoided for tear of injuring the stand of clover, and sod

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"Actolac" per 1,000 lbs. of milk just before setting and then using the usual actorac per 1,000 loss or mits lass before acting and then using the usual quantity of pepsis, time from setting to cutting was lessened six or seven minutes; or the pepsis may be reduced one ounce, and the curd will cut in the same time as it would had full pepsis ben used. "Actolac" did not affect fat in the whey, and should not affect fat in concluding he congratulated the cheese-makers of all Canada on the good cheese made this seasen, not a single compaint coming from the other side.

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ada be carefully saved.

Why Prices Advance.

Prof. Dean was asked to explain
advancing prices for darry products,
and in doing so he said he felt that
be was attempting to "unscrew the
inscrutable." Some of the factors
mentioned were advancing labor costs, inscrutable." Some of the sactors mentioned were advancing habor costs, higher prices for cows, equipment and lead. In the latter instance is justified in selling his cows if he can't get market prices for the grain and fodder he feeds them. Other factors are higher interest rates on loans, expensive factory supplies and more pensive factory supplies and more stringent regulations of boards of health. "And even yet," said Prof. Dean, "milk is a cheap food. Other dairy products are cheap. It is the duty of this association to help educate the public to an appreciation of these facts." This address will be problished in full in a later issue of Parm and Dairy.

The Dairy Herds' Competition. The Verds' competition reached a very lower this year; there was only one cetty gas class. In the cheeve patrons' second Dairy from the price of the pros. Lambell, entered in the produced as average of 4,912 the of milk.

beth, entered 16 grade cows that produced an average of 4,912 lbs. of milk per cow in the factory season. In the creamery section, Alan C. Ha'lman, of New Dundee, entered 16 grade Hoistein and Shorthorn caw, with an average output of 122 lbs. of fat per

| Money received from prosecutions Doration for special prize | 469.84 311.00 2,000.00 547.50 50.00 2,934.16 155.00 3.45 |
|--|---|
| Total . | |
| Total Expenditures. | 0,470.96 |
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| butter \$413.00. Canadian Sait | |
| | |
| | 473.00 |
| | 114.70 |
| Stenographers salary, \$459.00; Di- | |
| Postand tattonery \$326.93; | 594.80 |
| Printing, \$262.25; advertising, | |
| \$107.65 advertising. | ***** |
| Judges fees and expenses | 598,83 43,50 |
| Prosecutors salary and expenses | 273.75 |
| | 223.30 |
| Cost of reporting | 60.00 |
| | 9.933.79 |
| Office expension light, cleaning | |
| and sundries | 224.84 |
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| | 171.45 |
| Tele and telerhone, \$97.10; express and cold storage | |
| | |
| | 134.09 |
| Andhors Pees | 15.00 |
| | 19.75 |
| | |

Refund to members

\$6.450.95 The Dairy Exhibit.

The Dairy Exhibit.

A fuller rexhibit will be given in Farm and Dutter exhibit will be given in Farm and Dairy next week.

1 put of an of publishing, the prise list had not been made public. The sale of exhibits resulted as follows: 65 large cheese, at 21%c: 16 flat, at 21%c; 9 stittons, at 21%c: 12 boxes, winter creamery but21%c: 16 flat, at 23%c; 9 stittons, at 45c; 24 boxes, other butter, 45%c, and four 14-bb. boxes September butter, at 45c; 240 hoxes September butter, at 46c.

United States Price Fixing

HE United States Food Administration has announced that the price of bran to the wholesaler will be 38 per cent. of the cost of wheat at the mill. If the price of a bushel of wheat to the miller is \$2.20, bushel of wheat to the miller is \$2.20, the bran will be sold at about \$27.85 to the dealer. The purpose of this ac-tion of the Food Administration is to bring some immediate relief to dairy farmers in particular, and it is hoped that the reduction in the price of bran will cause other feeds to be cheaper.

The price of cottonseed meal has

also been fixed by the Food Administration, at \$47.50 a ton f.o.b. shipping point, in lots of 30 tons and more.

This is on the basis of a protein content of 35 per cent. For each per cent, of protein added the price will be increased \$1 a ton. When the price was fixed, meal of standard quality was selling at \$49.50 shipping point, and the reduction is, therefore, two dollars on the tou.

and the reduction is, therefore, two dollars on the tog.

"Perpesentative of the American Perpesentative of the American Perpesentative of the Perpesentation of the Perpesentation of the Perpesentation as saying: "We now anticipate that poultry feeds will drop in price to a point from 40 to 50 per cent. lower than during late suymer and early fall of 1917." The report of the international perpesentation as a point from 40 to 50 per cent. Lower than during late suymer and early fall of 1917." The report of the international perpesentation and the perpesentation of th counting this report considerably.

A Short Course in Poultry Husbandry will be held at Macdonald College for the four days, Feb. 19-22. Alphases of poultry feeding, housing, marketing and even the cropping of the poultry farm will be covered with as great a degree of thoroughness as

the time allows. In addition to he college staff, such leading authorities conege starr, such leading authorities on poultry subjects will be present as F. C. Elford, Dominion Poultry Husbanoman; W. A. Brown of the Dominion Department of Agriculture, and P. E. Aird, Secretary of the Montreal hensive program covering the essential phases of the poultry industry, and it is free to any who care to take it in.

Which Corn Yields Best? Experimental Union Results Name

| | Wisconsin | No. 7. | |
|------------|-----------|--------------------|----------------|
| | | Tons. Freshly | Tons. Whole |
| Variety. | | Husked Ears per | Crop |
| | 0 | Acre | Acre |
| Wisconsin | No. 7 | . 3.4 | 13.0 |
| Compton's | Early | . 3.4 | 12.5 |
| Golden Glo | | | 12.2 |
| Longfellow | | 3.2 | 11.8 |
| White Ca | p Yellov | / | |
| Dent | | 3.1 | 11.7 |
| Bailey | | | 11.1 |
| Salzer's f | | | |
| kota | | 3.2 | 10.7 |

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The welfare of the farm demands Permanent Right we all concrete. Our farmer need to it for building of greten-truck, fruits and dairy poulates into constitution, in the same of concrete above on this harting be done commissally. If pure all the same time is not the same and the same commissally. If you were not true of modern traffic. Concrete in in first, as necessary to some constitutions. Signify what you want information about -FLOORS CONCRETE BLOCKS . BARNE FENCE POSTS GARAGES ROOT CELLARS TROUGHS AND TANKS ROADS "What the farmer can do with concrete The Canada Cement Company Limited, 210 Herald Bldg., Montreal



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WANTED—Cheesemaker for Enterprise Cheese Mfg. Co. Tenders will be con-sidered up to January Elst. Cheesemaker to furnish all supplies. Make of cheese about 70 tons per year. Apply W. T. Sine, President, Stribus, Ont.

WANTED: A qualified man to operate condensed milk plant. State salary nd experience. Apply G. A. Gillespic, eterboro, Ont.

LADIES WANTED to do plain and light sewing at home, whole or spare time; good pay; work sent any distance; charges prepaid. Send stamp for particu-lars. National Manufacturing Co., Mont-

WANTED.—Cheesemaker for Ridge Tree Factory—married man preferred Pree house supplied, maker to furnish supplies and state at what price per hundredweight will make for. Make last hundredweight will make for. Make last the Secretary, Wm. H. Trick, Thedord, On Secretary, Wm. H. Trick, Thedord,

FEEDERS CORNER

A Holstein Milking Record

A Holstein Milking Record

OUR Holstein cowe are milking from
OUR Holstein cowe are milking from
John of mix daily. We have
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and can get all standard freed, except
A.J.W., York Co.,
Ont. daily for company
Solap pounds; and a grain mixture
composed of bran, two parts; distillers
grains; glutten feed or ground
oats, fwo parts; old cake, one part;
odis, five parts; old cake, one part;
odis, five parts; old cake, one part;
outprosed or our pound for every 2% the rate of one pound for every 21/2 pounds of milk produced in the case of the heavy milking cows, and at the rate of one pound to every 5 or 6 pounds of milk produced in the case of the cows well on in their lactation period. The above grain mixture is recommended - when feeding clover hay. The bran and oil cake might be increased slightly when feeding on timothy hay.—G. W. M.

Feeding Cows Well on in Lactation

W.E. have several cows well on in their milking periods and giving to be completed and complete their periods and complete their periods and complete their periods and complete their periods and complete their milk but we doubt if the extra milk pays for them. Is there any advantage their milk pays for them. Is there any advantage to the increased milk fine doubties of the increased milk fine doubties of the increased milk fine magnit? What feeds are best before calving?—H.M. Silver in the complete the comp

Sherbrooke Co., Que

It is usually considered profitable to feed meal to good lairy cows until they are practically dry. That which is not returned to you by way of the pail is laid up in fat on the cow's back and means increased production dur and means increased production dur-ing the next lactation period, espe-cially during the first few months of it. A pound of meal a day during the dry period is considered to be worth as much as two or three pounds of-meal after freshening. Would advise feeding at the rate of one pound of grain for every five to six pounds of multi-moduled until about to dry milk produced until about to dry them off, then remove grain from ration until dried off. A grain mix-ture consisting of two parts bran, two parts ground oats, corn or barley, and one part oil cake meal fed at the rate of four to five pounds a day for every thin cow, and at the rate of one to two pounds per day for cows in good flesh, should put the dry cows in good con-dition for calving.—G. W. M.

The Colt's First Winter

A Ta sale this month I hought a couple of hast spring's cotts of Clyrdo breeding, good growthy animals. Am running them in the rough, To a couple of heat spring's cotts of the couple o

The colt should receive plenty exercise and be given a ration composed of good clean mixed hay (tim-othy and clover), together with from three to five pounds per day of a grain mixture composed of two parts oats and one part bran. If it is pos-sible to add two or four pounds of roots (carrots, mangels or turnips) per day to the above ration they would help it considerably. Give salt regularly, preferably in the form of rock salt, where they can help themselves.

—G. W. M.

Peanut Meal and Soja Bean Meal

IN town the other day I bought a copy of the Country Gentieman. In it I nofice that in experiments at lowa Experimental Station, peanut and sola bean meal are spoken of very highly as

pig feed. What is their value and do you know if we can get them in this country:—Subscriber, Middlessx Co., Ont. Peanut meal and Soja bean meal are

Peanut meal and Sojs bean meal are little used in Canada and at the pre-sent time are possibly off the market. Where procurable in the United States they are considered good hog-feeds, particularly the soja bean meal. Pea-nut meal, a by-product of peanut oil manufacture, is high in digestible pro-teir; 40 to 42 per cent. Tests at the Experimental Farm at Ottawa, where peanut meal was fed with shorts and ground barley, and compared with ra-ground barley, and compared with raground barley, and compared with ra-tions containing cottonseed meal, lin-seed meal, corn, distillers' grains, etc., indicated that the by-product in ques-tion had a low feeding value for pigs which in this case seemed due more to lack of palatability.-G. B. R.



Some Competition Statistics

HE Sixth International Egg Laying Contest, conducted by the British Columbia Department of Agriculture, has now been completed. Notes on the progress of this competition have appeared from time to time in Farm and Dairy and we can now give a summary of results. The following particulars will be of special

| No. of birds | 240 |
|--------------------------------|----------|
| No. of eggs laid | 38,360 |
| Value of eggs laid\$ | 1,310.63 |
| Cost of feed | |
| Profit over cost of feeding | \$699.58 |
| Average price of eggs per doz. | .41 |
| Highest price received | .60 |
| Lowest price received | .30 |
| Average cost per doz | 19.1 |
| Average No. of eggs per bird | 159.8 |
| Average cost of food per bird | \$2.54 |
| Profit over cost of feed per | |
| bird | \$2.91 |
| A comparison may be dre | men ha- |

MRS. DARGAVEL DEAD.

It is with regret we learn of the death of Lirs. Cargavel, wife of Mr. J. R. Dargavel, M.L.A., at her home at Elgin, on Sunday last. Mr. Dargavel is well known to a large circle of friends and to the readers of Farm and Dairy, who regret to hear of his loss and extend their sympathy to him in his bereavement.

tween results in the fourth contest of fween results in the fourth contest of 12 months' duration, held in 1914-15, and the sixth contest in 1916-17. There were 240 birds in each contest. Fourth Sixth

Contest. Contest.

No. of eggs laid ... 33.757 38.360

Cost of feed \$527.38 \$611.05

Profit over cost of feed\$549.37 Average price of eggs 32.5 Cost to produce dozen

Good Profit in Eggs

15.9 19.1

eggs

HAT eggs give the largest return for the money of any foods on the Canadian market to-day was the statement of Mr. Lewis N. Clark, of Port Hope, prominent utility fowl breeder, speaking before the Ottawa Poultry Association. He showed de-spite the general complaint of eggs being high-priced to-day that they only cost 16 per cent. more than in the corresponding month before the war. Feed, however, had gone up 226 per cent. and the cost of labor 218 per cent. Eggs at 75 cents a dozen gave far more nourishment than two pounds of beef at the same price. What was vital for carying on the egg business was that more eggs per hen

should be produced. While it cost 26 cents monthly for feed for each hen to-day, more than double the cost eight years ago, an egg-laying return of only 14 per cent., which meant that or only 14 per cent., "hich meant that fourteen hens out of every hundred should lay an egg a day, was necestary to meet ordinary expenses of the small poultry-keeper, if the eggs were sold at 75 cents a dozen.

He advised poultry men and ama-teurs to consult the Poultry Division of the Department of Agriculture. Mr. Clark also told of his experiments at Port Hope with an electric light in-Port Hope with an electric light in-stallation in the poultry houses which automatically switched on light at five o'clock in the morning and at sunset, so that the hen's day was ngthened by several hours, making lengthened by several hours, making her more active and resulting in a great increase in the production of eggs. "Whereas it used to be a bit of a gamble. I know now with the electric light that I can make a profit from every hen," he said and several of the members of the Ottawa Poultry Association present declared they also had good results from electric light in the hen houses.

Owing to the scarcity of wheat, Mr Clark said the feed problem was likely to be great until the end of the war, but he believed that no self-respecting poultryman would feed wheat to fowls while it was so needed by the Allied armies and populations Europe.—Canadian Food Bulletin.

Poultry Pointers

AM strongly opposed to the use of cayenne pepper. I know from past experience that live disease and kindred troubles are general result when this strong spice is used; but if that condiment is placed in a preparation of spice there no doubt there no doubt is a medicinal newder, if right as work on the blood, which in turn purify the system, and nip in the bud any disease germs that may be starting. Furthermore, a reliable powder will strengthen the orreliable powder will strengthen the or-gans, which must make egg production more easy and natural. Of course, there must be a judicious use of all stimulating preparations—just enough to gain the point desired. It is not in the use, but the abuse that condition buckwheat or barlow get, that makes them dangerous to few life.—M. K., Boyer.

C. H. Wyckoff says that 100 pullets. hatched at one time, and raised to-gether, were placed in one house, and when one laid she was taken out. This was continued until there were fifty in each house. A critical examination showed that nearly all that were layshowed that nearly all that were laying were of a certain type—wile
those that were unproductive, were of
another type—a longer legged, ungainly, slim-bodied hen, that spends her
time looking for something to get
scared at. A record of the two flocks
showed a difference of twenty per
cent in the number of eggs laid. No.
1 kept laying until pagive denvise, of cent. In the number of eggs into. No. 1 kept laying until nearly denuded of feathers, and after molting, began laying before No. 2 did. A short-legged, deep-bodied, full-breasted, wedgeshaped, large combed hen, with a quiet disposition, has capacity to consume large quantities of food, and return eggs instead of noise and flutter.

It is not what we get in the market so much as what the thing costs, that determines our profit. The poultry business is not destined to make men wealthy. It is a steady, honest occupation for the man who is not afraid to work, and it pays good wages to all

There is a little secret which make some men fairly coin money while others hardly make a sale. It is the manner in which the goods are marketed. First, the condition in which the goods are sent to the stalls. Second, the reputation the goods have. Third, the time marketed.

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ception some lo years. labor is of the la its effect dairy pr There cream d crease f wish to wisdom of (a) p ity, (b) another and cons Your a of 319.

A spec tion. 24 than the \$10.00 to The bugurated culture h and we'r work be

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Instructor Buro and the Cornwall Silverware.

r. J. Buro, of the Cornwall Syndicate, carried off the silver as the instructor whose clories got the greatest number of prizes at the Perth cheese exhibition. The cap rithest from Mr. Ruro went to Charles Wilkins, Mills Evshe on a \$81, score. Mr. Bikins is a maker in the Cornwall Syndicate.—Photo taken specially for Farm and Dairy.

The W.O.D.A. Directors Make Their Report Some Association News and Some Straight Statements on the Oleomargarine and Cheese Price Situation

HE season just closed was favorable for milk production and no
prolonged period of dry, warm
weather prevailed. Pastures were
abundant, fodder crops, with the exception of corn were equal to, and in
some localities better than in former
years. The price of cows, feed and
labor is ligh with a serious shortage
of the latter. This situation has had
its effect upon the total production of

its effect upon the total production of dairy products. dairy products.

There was very little export of cream during the past year. An increase in the number of cream duying stations is noticed. We again which to express our doubts of the which to express our doubts of the probable order on account of (a) probable order on butter quality, (b) economic grounds, as it places another middleman between producer and consumer.

and consumer. Your association has a membership

A special officer was again employed to deal with cases of milk deteriora-tion. 24 cases were reported (19 tess than the previous year) and fines from \$10.00 to \$50.00 were imposed.

The butter "grading service" inau-gurated by the Department of Agri-culture has met with general approxi-and we respectfully suggest that this work be continued, in conjunction with the regular dairy instruction work.

The Act to regulate the manufacture of Dairy products provides for the registration, after inspection, of cream buying stations and also for the issuing of cesting permits to the opera-

Importance of Dairy Exhibitions.

importance of Dairy Exhibitions. We wish to express our appreciation of the increased number of entries by the cheesemakers and butternakers of Western Ontario for the three chief fall exhibitions (Teronto, London and Ottawa), and vilso to congratulate all those who won priess. In this connection we wish to especially mention the Silverdale Creamery and the Black Creek Cheese Factory. Mr. the Black Creek Cheese Factory Mr. Jno. R. Almont and Mr. Wm. Morse, were successful in securing the highest score for butter and cheese, respectively, exhibited at the Canadian spectively, exhibited at the Canadian National Exhibition, Tosonto. We re-spectfully urge the cheesemakers and buttermakers of Western Ontario to make still, further efforts to exhibit their products at these exhibitions, as well as at the Winter Dairy Exhibi-tion

Introduction of Oleomargarine.

It is impossible at this time to state what may be the effect upon the dairy industry of the introduction as a war measure of oleomargarine into Canada There is, however, a fear that it will eventually result in not only a de-crease in the total production of fats in this country, but will also have a detrimental effect upon the local but-

detrimental effect upon the local but-ter markets.

The export trade may, during the war the export trade may, during the war, the extensive enough to stimulate the creamery industry to maintain near the present output, but when-changed conditions arise after the war, the situation will require very careful consideration if the industry is to be prevented from receiving permanent injury; and consumers also from being placed in a more allos from being placed in a more allost the consideration of the consumers. difficult position than would be the case were oleomargarine not allowed. tase were deconargarine not anowed. It is also feared that to properly enforce the regulations so as to prevent the fraudulent sale of substitutes for genuine butter will be difficult if not impossible.

The Price of Cheese.

The Price of Unesse.

The price received for cheese during the past season, although high compared with previous years, was less than the price paid for market milk and for condensed and powdered milk, an extensive demand for which the mydgate has davelaned during. latter products has developed during the war. 'Most of the milk in the cheese sections was, therefore, diverted during the fall months into other channels, thus decreasing the usual production of fail cheese. Under existing financial and abnor-

Under existing financial and abnormal shipping conditions it was no doubt in the best interests of the cheese trade that some special arrangement was made through the former Federal Government for the Cheese Commission to purchase Canadian cheese. Dairymen take a broad gauge view of the situation and they have sengrally no desired. sauge view of the situation and they have, generally, no desire to question the advisability of this, change in business methods. They realize that conditions demanded some such action in order that the cheese tradetion in order that the cheese trademight continue with the feast degree of inconvenience to producers.

It is, however, pointed out that some further consideration of the situsome turing consideration of the situ-ation seems necessary for the com-ing season, to allow the various manufactured dairy products to be placed upon a more equal basis. The majority of the milk produced in Canada is manufactured into cheese Canada is manufactured into cheese and butter, the prices of which are controlled, the former through the price fixed by the British Board of Trade and the latter indirectly by the introduction of oleomargarine. The price of the milk which goes into direct consumption or in which the price of the milk which goes into direct consumption or in which the price of the milk which goes into The price of the mink which goes into direct consumption or is manufactured into other forms of milk products is apparently uncontrolled, or if so, the limit allowed is greater compared with that received for cheese and

with time butter.

If the price paid for milk not intended to be manufactured into cheese and butter is necessary for the producers to make a profit above the producers to make a profit above the cost of production, it may become the cost of production, it may become intending with the present labor abort-

age to fully maintain cheese and but-ter production unless some levelling of prices takes place, especially when there is evidently no control of the expenditure required to cover the cost of mik production and also the cost of manufacturing, that is to say, the cost of stock feed in the first instance and the cost of supplies in the latter.

and the cost of supplies in the latter.

Long Period of High Prices.

Authorities state that there is a world shortage of approximately 20 million hogs and also a very heavy shortage of beef animals. There will be after the war a wide demand for Canadian live set with the state of the control of the contr be after the war a wide demand for Canadian live stock at remunrative prices, and while the war lasts the demand will be tremendous. Indica-tions point to a long period of high prices for meat and dairy products. Dairy cows are of equal importance to wheat growing. Should the dairy herds be reduced it will take far longer to restore them than to restore the supply of wheat. Shortly after the end of the war the argent demand for wheat will be lessened but the de-mand for live stock must, in view of the existing shortage, continue for

Years,
Factory cheese and butter-making
is conducive to live stock raising. The
valuable by-products of whey, skimmilk and butter-milk are among the
cheapest and best foods for young
stock and of immense importance in
the economic production of hogs and
heef. The chease and butter industry. The cheese and butter industry beef. The cheese and butter industry, which is now passing through a critical stage of development, should, therefore, receive every encouragement, not only for the reasons mentioned, but also that there may be no curtailment of the output of highly

concentrated human foods.

Scarcity of experienced factory assistants and farm help will further handicap the industry during the

coming season.

This is the fourth report of your Directors since this great world war began. No one may say how long it began. No one may say how long it may last but perhaps before another report is due, allied victory will be complete. Then will come peace and the readjustment period. May we prepare so far as it is humanly possible to meet these changed conditions and in the magnifical conditions and in the magnifical conditions. to meet these changed conditions and in the meantime let us put forth every effort (along with the great army of dairymen of the country to the south of us, who have joined hands with the other allied nations in this great fight for democracy) to increase the much needed special food supplies of the world, dairy products heaf and hence. ducts, beef and bacon.

THE 5th annual convention of the Dairymen's Association of Nova Scotia was held at the Coilege of Agriculture at Truro on the 10th and 11th inst. Delegates were present from practically all of the cheese factories and creameries in the Province. The report on dairying showed that in the year 1,760,871 lbs. of butter were

manufactured at a value of \$706,899.25, an increase of 175,000 lbs. over 1916.

Addresses of much interest to dairymen were delivered by Prof. Trueman of the Agricultural College; D. J. Cameron of the Cold Storage Division. Ottawa; J. D. McKenna, of the Mari-time Farmer, Sussex, and others. The most interesting features of the convention this year were the summer butter competition and the winter dairy exhibition.

The Scotsburn Creamery Company of Scotsburn, carried off the trophy for of Scotsburn, carried off the trophy for highest scoring butter in the summer competition. Their September butter scored 95.59; October, 95.8. The Pic-tou County Dairy Co., was a close second with a score for August butter of 95.7. In the whole summer com-petition the Scotsburn Creamery led with an average score of 95.56 and Pictou company followed with 95.34. Whiter dairy exhibiting brought out

Winter dairy exhibition brought out the Acadia Dairy Co. as the leader in high average scores. Prizes in the creamery butter classes were awarded first, Acadia Dairy Co., Wolfville, with 95.28 score; second, Scotsburn Creamery Co., score 94.83; third, Brockville ery Co., score 94.83; third, Brockville ery Co. Creamery, Brockville, score 94.43.

Officers Elected.

Officers were elected for the current year as follows: President, A. M. Wheaton, Woltville: Vice-President, Harold Falconer, Stellarton: Sec'y-Treasurer, W. A. MacKay, Truro: Di-rectors, J. D. McKenzie, Bridgewater, H. M. Altten, River Hebert; John C. Chisholm, Lower South River. Paschwidnes were nassed asking the

Resolutions were passed asking the Department to urge the Agricultural Societies to keep records of the progeny of the bulls where a grant is given; that the Short Course, as started last year, be continued and that, when consistent with the times, a new up-to-date dairy building be erected at the College of Agriculture. A resolution of agents were as the solution of regret was passed on the death of C. W. McDougall, Dairy Superintendent for the Province of New Brunswick,

Sixteen Cows and a Machine

have been milking 16 cows this past season and W this past season, and I don't know how we have gotten the work done without own liking machine," says B. C. Tweker, ex-President of the United Farmer's Cooperative Company, Ltd., and a dairy farmer in Hastines county, "we installed our milking machine last March. When in full flow our cows are making 700 lbs. of milk a day, I did all of the milking myself with two units, stripped the cows, and the work was done in an hour and a quarter. My preference is for the single unit. The cows do not then have to be paired. Even in using the single units we do not wait for slow quarters. We we do not wait for slow quarters. We prefer to milk with the machine as long as the milk is flowing freely, and then finish by hand."



The Eastern Ontario Cheese Exhibit.

"The finest lot of fine cheese I've ever seen," was the verdict of Dr. J. W. Robertson, who is well known as an authority on cheese, after examining the E.O.D.A. exhibit at Perth. The finish was especially good.—Photo taken specially for Parm and Dairy.

(10)

Rural Home The Farm Paper for the farmer who milks
Published every Thursday by
The Rural Publishing Company, Limited
Paterboro and Toronto.

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SUBSCRIPTION PRICE, \$1.00 a year. Great Britain, 1.20 a year. For all countries, except Canada and 11.20 a year. For all C. 3.100 a year. Great Britain, Great Britain, add 50c. for controls, except Canada and AOVERTISING RATES, 10-time, and insertion. One page 50 inches, one column 12½ forces. Copy received up to Saturday preceding the Peterbore Office—Hunter and Water Streets.

Toronto Office—di McCaul Street.

United States Representatives: Stockwell's Special Agency.
Chicago Office—People's Gas Building.
New York Office—Tribune Building. CIRCULATION STATEMENT.

The paid subscriptions to Farm and Dairy approximate 20,000. The actual circulation of each loan, including copies of the paper sent to subscriber, including copies of the paper sent to subscriber, including the copies of the paper sent to subscriber, including to 2,000 the actual copies. No subscriptions are accepted at less than the fusion of the paper showing its distribution but of circulation of the paper, showing its distribution but continues and provinces, will be mailed free on request.

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The Rural Publishing Company, Ltd PETERBORO AND TORONTO

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

Let Wool Growers Beware

CONVENTION of sheep raisers will be held in Toronto, February 5th to 7th, at which wool growers from every province will meet to discuss questions pertaining to the development of the sheep breeding industry in Canada. This convention comes at an opportune time. For the last two years the sheep industry has been booming. For the first time in 15 or 20 years, Canadian wool growers, with the freedom of the United States market and the stimulus of war demands, have been enjoying prices which cover cost of produc tion and allow a fair profit to the producer. Cooperative marketing on a provincial basis has also played an important part in the increased returns Even at present prices, however, a wool producer cannot be classed as a profiteer. If he allows himself fair wages for his labor and pays for feed and pasture, the interest realized on his capital investment will not be as great, even this year as industrial corporations have been accustomed to expect even in normal years.

But the textile manufacturers are not satisfied to share their profits with the producer of the wool Although their business is flourishing as never before and enjoying profits such as the wool producer never makes, they are now redoubling their efforts to have an embargo placed on Canadian wool, in order that they may buy at their own price. A leading Canadian daily makes the following comment in its news section: "In Canada the cry becomes more insistent that an embargo on the exportation of Canadian wool is Imperative and is coming." The Toronto Globe speaking editorially admits the injustices suffered by wool growers in the past, but concludes with the following comment:

"But, despite all this, the Canadian sheep-raiser "But, despite all this, the Canadian sneep-raiser now sees the necessity of sinking all personal interest for the sake of a more vigorous presecution of the war. He intends to place his can the hands of the Federal Government and rely in the representation of the Hon. Mr. Creers in bringing about a condition of what's that will let him known. all the assistance possible to the textile industries without committing him to price regulations that will hart this very important Canadian industry. Some months ago The Globe suggested that the Government night commandeer this year's Canadian would give an end of these clied quint with com-Government might commandeer this year's Cana-dian wool citp, and all other clips during the con-innance of the war, leaving the wool-growers free to self their wools wherever they like after the war. That suggestion still provides a reasonable way out of the present difficulty.

It may be that this lack of understanding between producers and manufacturers may be due to a failare to appreciate each others difficulties. It may be that the proposed conference between producers and manufacturers at the time of the Toronto gathering, will bring the opposing interests closer together. In any case, however, the placing of restrictions on the wool market would be an injustice. that would endanger the future of the wool grow ing industry. It would be class legislation designed to add to the profits of the manufacturer at the expense of the producer. Textile manufacturers can keep the wool clip in Canada by paying a competitive price for it. This they do not intend to do, however, if they can influence the Government to impose an embargo which will leave the wool producer at their mercy. Apparently, if we may judge from their actions, when an embargo was imposed two years ago, they are quite willing to sacrifice the Canadian wool growing industry for their own immediate personal gain. Wool growers will do well to rally strongly in opposition to the influences which are being exerted in high places to curb their freedom of trade

Chinese Labor

O the farmers of Canada want Chinese labor? Already it has been suggested by an official high in authority in one of our Provincial Departments of Agriculture, that 100,000 Chinese coolies be brought to this country in bond to help on the farms during the war, and then be returned to their own land.

Surely this is the counsel of despair! It is very easy to talk of holding Chinese coolies in bond, and then returning them whence they came when the war is over. To collect 100,000 of them from the farms of Canada and carry them back to the Orient would, in itself, be no small task. To keep them in China once they had had a taste of Canadian wages, and that at a war-time level, would be impossible. These coolies would carry home to China stories of great opportunities in America and thousands upon thousands of them would soon be com ing back, head tax or no head tax. They would come back, too, when our own boys would have returned from the trenches and white labor would be abundant. They would come to compete with returned soldiers for jobs. No, farmers are willing to work long and hard before they support a measure that would add another race problem to our already long list of national difficulties, We will have to look elsewhere for the source of the suggestion that Chinese labor be imported.

And we will not have far to look. Aiready one of the cordage companies in the town of Welland, Ont., has 400 Chinese laborers in its employ. Other manufacturers, not all we are glad to say, would welcome an opportunity to get cheap labor of a similar variety. Present gain would count for more with them than the maintenance of the Western standard of living on which rests our very civiliza-, tion itself. Canada must be a white man's country and Canadian farmers will have nothing to do with making it otherwise. He who advises otherwise does not bespeak the sentiment of Ontario's farmers.

The Rural Survey

ETURNS are now available for 49 farms of the 113 covered by the rural survey in Caledon Township, Peel Co., Ont. As summarized by Mr. Leitch, who had the work in charge, the results hold out little encouragement to those whose ideal for rural Canada, is a land of small or family sized farms. Almost one-third of the farms surveyed were of 85 acres or less. The owners of these farms had a labor income of only \$392, or less than the

standard rate of wages for laborers in the same township. With farms of 86 to 100 acres, the labor income increased to \$814 and from then on by gradual stages to \$1,699 for the man with a farm of 151 to 180 acres and \$1.925 on farms of 181 to 240 acres. In the first class was one farm that returned a labor income of over \$1,600. This was one of the best farms in Ontario of its size with good land, good crops, good stock and good management. But when individuals in this class drew such satisfactory returns, some must have worked for almost nothing to bring the average labor income down to \$392. Even on farms of 100 to 180 acres, the labor wage was no better than the wages of good mechanics working shorter hours and with no financial investment or responsibility whatever.

One thing this survey has proved beyond the shadow of a doubt—the farmer is not a profiteer. Another thing it makes equally sure—that rural depopulation has had an economic basis. Last year was the most prosperous one that Caledon Township farmers have ever experienced. They enjoyed the unusual combination of good crops and good prices. In normal years, however, as Mr. Leitch was careful to emphasize, the farmers who worked 85 acres or less, must have given their labor for nothing and in the other classes the incomes would be substantially less. Even with war prices, farming is not proportionately prosperous with city industries as is proven by the steady drain of farm labor to munition factories. Recent figures show that the decrease in township population in the last year in Ontario has been 30,000, the largest decrease in any single year since the rural exodus started some forty years ago. This is accounted for in part by rural enlistment, but the attraction of high wages in city factories has probably been a greater factor. Our farmers' organizations and all real farm leaders have long been aware of the economic disabilities under which the industry has labored. The Caledon survey is another conclusive argument for the correctness of their deductions.

A Valuable Convention

HE annual convention of the Ontario Agricultural and Experimental Union, reported in Farm and Dairy last week, was attended by 150 to 200 students of the Agricultural College, and perhaps 30 farmers. The students could not have spent their time more profitably. The regrettable feature was the small attendance of farmers. At no convention of an agricultural flavor in Canada are problems of soil tiliage and crop production discussed in so thorough-going a manner as at the annual meeting of the Experimental Union. This year, too, all other phases of the farming industry came up for some consideration, and there was much of profit for everyone in attendance, no matter in what line of farming he happened to be in-

The Experimental Union was primarily intended as an organization of ex-students of the Ontario Agricultural College, who would cooperate in testing the comparative value of varieties of farm crops, the worth of which had already been proven in the Emperimental Department of the College. The first year there were but twelve experimenters. Since then the work has grown, until last year 4,299 Ontario farmers cooperated in the work of the union. Its activities have been broadened out to include experiments with fertifizers, methods of weed eradication, and incidentally the union has become one of the greatest agencies for the distribution of desirable strains of seed grain that we have in Canada. At the annual convention each year the results of the season's work are discussed and many problems of farm management come up for thorough discussion. A full report of this year's proceedings will soon be available for the public. For next year's convention we bespeak a larger attendance of practical farmers They will find it to be two days well

Life is a series of surprises, and would not be worth taking or keeping, if it were not. God delights to isolate us every day, and hide from us the past and the future. - Emerson.

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In Union There is Strength

Fair Weather Cooperators By L. H. Blatchford.

OU all know the men who think their local club and the cen-tral are fine fellows when he happens to strike the market right. He buys feed a dollar or so cheaper than he can set it locally, and perhaps ret: a little better price for sometails he has to seil. But some day it is his misfortune to miss the market, he makes a great tius, required to take his goods, or wants central to sixe him a rebate. What are they there for if it tsn't to give him goods to see money than he can get them locally?

I believe the locals would have less happens to strike the market right

I believe the locals would have less difficulty in transacting their business difficulty in transacting their business if they would at retail prices and divide. By profits according to the Business done. They would not an-basonise done. They would not an-basonise to local dealers to the same extent, seither would they show their fanal to him the same. He is anxious do know what your goods cost you, and there is usually some one whe will tell him what a bargain he got. The dealers what a bargain he got. The dealers are often willing to cut a little lower for a time if by doing so they can create a dissatisfaction among the club men, for there are of-

Ad Talk-Bare Facts

Advertising is an investment rather than an expenditure. This has been proven by thousands of business men in all walks of life.

Experience is a better guide than theory. This fact is obvious.

Years of consistent concentration on the economic problems of the dairy live stock situation in Canada has supplied us with the experience. It has placed us in a position to ren-

tr na piaced us in a position to reli-der a unique service to Canadian breeders of live stock. Satisfactory live stock advertising can be created best by men who have a special knowledge of Canadian live stock conditions. Such men are found on the staff of Farm and Dairy.

The agricultural and live stock market differs to such an extent from the city market that only farm raised and farm trained minds are suffi-ciently conversant with the various problems involved to meet the farmer

If you wish to buy or sell dairy live stock, or if you wish to place your product, no matter what it may be, in rural districts, we can do for you what we have already done, and are still doing, for scores of other satisfied advertisers.

Any advertising campaign having as its objective the farmers of Can-ada, more particularly the breeders of dairy stock, can best be conducted

through the Farm Press.
FARM AND DAIRY is a publication which gives remarkable results with live stock advertisers.

time than the present for entering upon a strong advertising campaign. upon a strong advertising campaign. More particularly is this so with regard to hreaders having live stock for age. This is the time of year that the strong of the strong

You will never rearet such a move.
All copy for Dec. 6th must be in by
Dec. 1st. Phone or send your copy tonight.

C. G. McKILLICAN,

Live Stock Department-Farm & Dairy Peterboro.

ten men who cannot see beyond the immediate five cents. If members paid the retail price they would know paid the retail price they would know exactly how much cooperative dealing was worth the cooperative dealing to the cooperative dealing the cooperative of the cooperative dealing cooperative cooperative dealing cooperative cooperative dealing cooperative cooperative cooperative cooperative dealing cooperative c saving. Then you have to again second possible losses, and expenses, and second retaries to be paid. By selling at reretarios to be paid. By seiling at re-tail prices you have something to work on. This method appeals to me as the most feasible. Some clubs have adopted it and find it works quite satisfactorily.

The Rights of Farmers' Clubs Gordon Waldron, Solicitor for the U.F.O.

HERE has been a good deal of Tillette has been a good deal or anxiety about town bylaws imposing penalties for trading without a license. Generally speaking, the towns cannot molest the clubs for bringing goods into railway stations and distribution than aurons stations and distribution; than aurons stations and distribution; than aurons of the control of the con stations and distributing them among farmers of the neighboring munici-palities. Taking orders in the towns and delivering to people in the towns may come within the prohibitions of those bylaws.

There has also been anxiety about the penalties for non-registration of

POTATOES SHOULD BE MARKETED

66 DOTATOES should be go ing freely to market now," said Dr. J. W. Robertson, speaking before the E. O. D. A. Convention recently. "We must eat more potatoes. They are plentiful this year, al-They are plentiful this year, atthough they are, by many persons, being held back from market for higher prices. If this hoarding of potatees continues they will slump to \$1 a bag in they will slump to \$1 bay will be a person for their they will see they will slump to \$1 bay will be a person for their they will be a person for their t the spring, for then they will have to be thrown on the mar-So farmers should market potatoes now if they do not want them on their hands next spring."

partnerships under the Partnership Registration Act. There is no just cause of anxiety. Generally speaking, cause or anxiety. Generally speaking, as I have said, the clubs are not partnerships, but it is possible that occasionally they engage in strictly partnership transactions. I have not met any. The Act, however, applies met any. The Act, however, applies only to trading, manufacturing and mining partnerships. R by any chance liability should arise, the Government dare not, I should think, in view of your numbers and influence, hesitate to remit the penalties.

The object of our western farmers in going into business is not primaring to make a profit for our share-holders but to give service. Our aim is not type of the most possible out of the people we do business with, but to promote their interests and reduce the cost of doing business. After this, has been accomplished our desire is to be in a Position to return any profits realize to the people from whom they are made.—It. W. Wood, President United Farmers of Alberta, Calgary.

The Cooperative Supply Company of the Alberta Farmers' Cooperative Ele-vator Company, Limited, last year did a business of \$1.300,000, which was about double the business of the year before.

RIGHT NOW IS THE TIME When You Need a Silo and right now is the time to arrange for its erection



IGHT now if you had a silo you would not only be getting 25% more milk, but you would be spending a great deal less for feed. With cream and milk at present prices, you must appreciate your need of a good si'o more than ever, because there never was a time when good cows, properly fed, would return to their owner as great a profit as they do today.

Right now is the time when an Ideal Green Feed Silo, filled with rich, juicy, milk-producing silage, would save your worrying about feeding so much high-priced grain and would be putting more milk in the pail every day.

Right now is the time to prepare for bigger profits from your cows next winter. Our silo catalogue, which we will gladly send on request, contains a great deal of valuable information about silage and explains why the Ideal Green Feed Silo is the best to buy.

Write today for this catalogue.

THE DE LAVAL COMPANY, Ltd.

LARGEST MANUFACTURERS OF DAIRY SUPPLIES LARGEST MANUFACTURERS OF DAIRT OUTFILES IN CANADA. Sole manufacturers in Canada of the famous De Laval Cream Separators and Ideal Green Feed Silos. Alpha Gas Engines, Alpha Churns and Butter-Workers. Catalogues of any of our lines mailed upon request.

MONTREAL PETERBORO WINNIPEG VANCOUVER

IDEAL

CREEK

REED

SILOS

Cream Saving Machines

F you are still setting your milk and skimming by hand, you are losing anywhere from one-fourth to one-third of your cream. If you are using a sep-arator, and it is not one of the best, you are still losing an amount of cream that would surprise you if you knew it. Every farm loss or leak that can be stopped this year should be stopped. Buy a Primrose cream separator and stop the "cream loss



Don't imagine that cream left in the skim milk will fatten pigs and calves faster. It has been proved scores of times that stock thrives as fast on warm separator skim milk, when a little meaor flax replaces the fat. Cream in the skim milk is dead-loss

Primrose separators get that cream. We can prove to you that they get it all, except about one drop in each gallon

Besides that, they are well-known as simple, easy-running, easilycleaned machines that last and do the same good work year after year. Buy a Primrose-It will pay back its cost in cream you may now be losing. See the local dealers who handle these separators, or, write us for catalogues.

International Harvester Company of Canada, Ltd.

BRANCH HOUSES

WEST-Brandon, Man., Calgary, Alta., Edmonton, Alta., Estevan, Sisk., Lethbridgs, Alta., N. Battleford, Sask., Regins, Sask., Saskatoon, Sask., Winnipeg, Man., Yorkton, Sask. EAST-Hamilton, Ont., London, Ont., Montreal, Que., Ottawa, Ont., Quebec, Que., St. John, N. B.



68



(A)UR chain of life is forged with little rings; and little words and acts uplift the soul.-Egan.

The Heart of the Desert

(Continued from last week.) rage and aimed a vicious kick at

Synopsis of Preceding Chapters.—Rodes Patel a fragile girl, affecting with a supposedly fragile girl affecting a friend Mrs. Jack Newman, in the valley at the supposed of the s

MOLLY paused and grinned de-lightedly. "All right! You come help poor Molly!"

With Cesca looking on sardonically, Molly poured fresh seeds on her rude metate and showed Rhoda the grinding roll that flattened and broke the little grains. Despite her weak fingers Rhoda took to the work easily. As she emptied out the first handful of meal, a curious sense of pleasure came to her. Squatting before the metate, she looked at the little pile of bruised seeds with the utmost satisbruised seeds with the utmost satis-faction. Molly poured more seeds on the metate and Rhoda began again. She was hard at her task, her cheeks flushed with interest, when Kut-le re Rhoda did not see the sudden turned. look of pleasure in his eyes.

"You will tire yourself," he said. Rhoda did not answer, but poured another handful of seed on the metate "You will begin to like the life." he went on, "by the time you are educated enough to leave us." He turned teasingly to Cesca. "You think the white squaw can cross the desert soon

Cesca spat disdainfully.
"No! White squaw no good! All time sit, sit, no work! Kut-le heap fool!"

"Oh, Cesca," cried Rhoda, "I'm too sick to work! And see this meal I've made! Isn't it good?" Cesca glanced disdainfully at the

little heap of meal Rhoda had bruised

little heap of meal Rhoda had bruised out so painfully.
"Huh!" she grunted. "Feed 'em to the horses. Injuns no eat 'em!"
Rhoda looked from the meal to her slender, tired fingers. Cesca's contempt hurt her unaccountably. In her weakness her cleft chin quivered. She

turned to Molly.
"Do you think it's so bad, Molly?"
That faithful friend grunted with

eyes and would have risen but a voice whispered:
"Hush! Don't move!"

CHAPTER VIII.

A Broadening Horlzon.

Rhoda lay stiffly, her heart beating wildly. Kut-le and the squaws, each a muffled, blanketed figure, lay sleeping some distance away. Old Alchise stood on solitary guard at the edge of camp with his back to her

"Make as if you wanted to shift your blankets toward the cat's-claw bush behind you!" went on the whispered

Obediently, Rhoda sat erect. Al-chise turned slowly to light a cigarette out of the wind. Rhoda yawned, rose sleepily, looked under her blanket and shook her head irritably, then dragged her blankets toward the neighboring cat's-claw. Again she settled herself to sleep. Alchise turned back to his to sleep. Alchise view of the desert.

"I'm behind the bush here," whis-pered the voice. "I'm a prospector. Saw you make camp. I don't know where any of the search parties are but if you can crawl round to me I'll guarantee to get you to 'em somehow. Slip out of your blankets and leave 'em rounded up as if you was still un-'em. Juick now and careful!

Rhoda, her eyes never leaving Al-chise's impassive back, drew herself silently and swiftly from her blankets and with a clever touch or two round-

A Home Fitted for Good Service for Years to Come.

This comfortable and commodious farm home is owned by Mr. C. E. Hurley Prescott Co., Ont. As Mr. Hurley is one of the third generation to occupy thi home, it is not new by any means, but its appearance is sufficient testimon that it will still do good service for many years. This house stands on the spot where the log cabbi was built which was the first Hurley home.

away her cigarette and walked with a sniff over to the cooking-pot. Rhoda drew her hands from the young In-dian's clasp and walked to the edge of the camp. The hot pulse that the touch of Kut-le's lips sent through her body startled her.

Cesca. Then she put a protecting arm about Rhoda.

"It's heap fine! Cesca just old fool. You love Molly. Let Cesca go to

Kut-le had been watching the little

scene with tender eyes. Now he stooped and lifted Rhoda to her feet, then he raised one of the delicate hands and touched it softly with his lips. "Leave such work to the squaws,

dear! You aren't built for it. Cesca, you old lobster, you make me tired! Go fix the turkeys!"

Cesca rose with dignity, flipped

"I hate him!" she said to herself. "I hate him! I hate him!"

The trail that night was unusually difficult and Rhoda had to be rested frequently. At each stop, Kut-le tried to talk to her but she maintained her silence. They paused at dawn in a pocket formed by the meeting of three divergent canons. Far, far above the desert as they were, still farther above them stretched the wonderful barren ridges, snow-capped and silent. As Rhoda stood waiting for the squaws to spread her blankets the peaks were lighted suddenly by the rays of the still unseen sun. For one unspeakable instant their snow crowns flashed a translucent scarlet that trembled, shimmered, then melted to a pink, then to a white so pure so piercing that Rhoda trembled with sudden awe. Then as she looked, the sun rolled into view, blinding her eyes, and she turned to her waiting

She had slept for several hours when she was wakened by a soft tap on her shoulder. She opened her

ed them. Then she crept around the cat's-claw, where a man squatted, his eyes blazing with excitement. He put up a sinewy hand to pull her from sight when, without warning, Rhoda sneezed

Instantly there was a click of a rifle and Alchise shouted: "Stop!"

"Confound it!" growled the man, ris-ing to full view, "why didn't you swallow it!

"I couldn't!" replied Rhoda indig-intly. "You don't suppose I wanted

She turned toward the camp. Alchise was standing stolidly covering them with a rifle. Kut-le was walking coolly toward them, while the squaws sat gaping. "Well!" exclaimed Kut-le. "What

can we do for you, Jim?"

The stranger, a rough tramp-like fel-low in tattered overalls, wiped his face. on which was a week's stubble.

"I'd always thought you was about white, Cartwell," he said, "but I see you're no better than the rest of them. What are you going to do with me?"
Kut-le eyed his unbidden guest speculatively.

"Well, we'll have something to eat first. I don't like to think on an empty stomach. Come over to my blanket and sit down, Jim." Ignoring Rhoda, who was watching him closely, Kut-le seated himself on

alm closely, Kul-le seated himself on his biankst beside Jim and offered him a cigarette, which was refused. "I don't want un favors from you, Cartwell." His voice was surly. There was something more than his rough appearance that Rhoda disliked about the man but she didn't know about the man out see under a show just what it was. Kut-le's eyes nar-rowed, but he lighted his own cigar-ette without replying. "You're up to a rotten trick and you know it, Cart-well," went on Jim. "You take my adweil," went on Jim. "You take my advice and let me take the girl back to her friends and you make tracks down into Mexico as fast as the Lord'll let

Kut-le shifted the Navajo that hung wer his naked shoulders. He gave a short laugh that Rhoda had never heard from him before.

"Let her go with you, Jim Provenso! ou know as well as I do that she is safer with an Apache!

"Yes, this else!" Jim's voice rose angrily. "If ever we get a chance at you, we'll hank you sky high, see? This may go with Injuns but not with whites, you dirty pup!"
Suddenly Kut-le rose and, dropping his blanket, stood before the white

man in his bronze perfection.

"Provense, you aren't fit to look at a decent woman! Don't put on dog just because you belong to the white race. You're disreputable, and you know it. Don't speak to Miss Tuttle again; you are too rotten!"

The prospector had risen and stood glaring at Kut-le.

"I'll kill you for that yet, you dirty Injun!" he shouted. "Shucks!" sniffed the Indian. "You

haven't the nerve to injure anything but a woman!" Jim's face went purple.

For two bits I'd knock your block off. right now."
"There isn't a cent in the camp."

Kut-le turned to Rhoda. "You get the point of the conversation, I hone?"
Rhoda's eves were blazin." She had gotten the point, and yet—Jim was a white man! Anything white was better than an Indian.
"I'd take my chances with Mr. Pro-

venso," she said, joyfully conscious that nothing could have hurt Kut-le Kut-le's lip stiffened.

"Lunch is ready," he said.

"None of your grub for mine," remarked Jim. "What are you going to do with me?"

"Alchise!" called Kut-le. "Est

something, then take this fellow out

something, there are this relief would and lose him. Take the rest of the day to it. You know the next camp!"
Then he folded his arms across his chest and waited for Alchise to finish his meal. Jim stood in sullen silence for a minute. Then he seated himself on a nearby rock.
"No, you don't," he said. "If you get me out of here, you'll have to use

Kut-le shrugged his shoulders.

"A gun at your back will move

Rhoda was looking at the white man's face with a great longing. He was rough and ugly, but he was of her own breed. Suddenly the longing for her own that she was beginning to control surged to her lips.

"I can't bear this!" she cried. "I'm

going mad! I'm going mac!"
All the camp turned startled faces toward the girl, and Rhoda recovered her self-possession. She ran to Kut-le and laid her hand on his arm, lifting a lovely, pleading face to his. "O Kut-le! Kut-le!" in th

in the that she had used to Cartwell. "Can't you see that it's no use? He is white Kut-le! Let me go with him! Let me go back to my own people! O Kut-le, let me go! O let me go!"

his arm. Rhoda was too excited to notice that his whole body shook at this unwonted touch. His voice was.

(Continued on page 15.)

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The Upward Look

Others May, You Cannot G. D. Watson.

F God has called you to be really like Jesus He will draw you into a life of crucifixion and humility. life of crucinxion and humility and put upon you such demands of obedience, that you will not be able to follow other people, or measure yourself by other Christians, and in many ways He will seem to let other good people do things which He will not let you do. let you do.

not let you do.

Other Christians and ministers who seem very religious and useful, may push themselves, pull wires, and work schemes to carry out their plans, builty out cannot do it; and if you attempt it, you will meet with such failure and rebuke from the Lord as to make you sorely penitent.

sorely penitent.

Others may boast of themselves, of their work, of their success, of their writings, but the Holy Spirit will not allow you to do any such thing, and if you begin it, He will-lead you into some deep mortification that will make you despise yourself and all wars you grant works. your good works.

Others may be allowed to succeed Uthers may be allowed to succeed in making money, or may have a legacy left to them, but it is likely God will keep you poor, because He wants you to have something far better than gold, namely, a helpless dependence on Him, that He may have the nriviless of summires of summires of summires. the privilege of supplying your needs day by day out of an unseen treasury.

The Lord may let others be honored and put forward, and keep you hidden for obscurity, because He wants to produce some choice He wants to produce some choice He wants to produce some choice He wants to the produce of the some choice He wants to be produced in the shade. The mallet others do a work for Him and get the credit of it, but He will make you work and toil on without knowing how much, you are doing; and then to make your work stilf more precious. He may let others get the credit for the work which you have done, and thus make your reward ten times greater when Jesus comes. The Lord may let others be honored

clean for the wark which you have clean for the walk was comes. The Holy Spirit will put a strict watch over you, with a jealous love, and will rebulk you for little words and feelings, or for wasting your time, which other Christians never seem distressed over. So make up your mind that God is an infinite Sovernind that God is a sovern

Settle it forever, then, that you are to deal directly with the Holy Spirit, and that He is to have the privilege of tying your tongue, or chaining your hand, or closing your eves, in ways that He does not seem to use with others. Now when you are so possessed with the 'living God that you are, in your secret hear. are, in your secret heart, pleased and delighted over this peculiar, personal, private, jealous guardianship and man-agement of the Holy Spirit over your life, you will have found the vesti-bule of Heaven.

Compensations

"After all, it is not they who carry fags, but they who look upon it from a private chamber, who have the fun of the procession," wrote Stevenson. If we are set aside from active life, and are not able to make a figure in the attention, would be a steries, would be a set as the set of the and are not able to make a figure in the stirring world, there are com-pensations. Let us possess our souls in peace, and cheer for those who are bearing the burdens, and waving the dags.

Peanut Butter Very Nutritious

THE peanut is an article of food which many of us do not use to the extent that we might.

From comparisons of food values we From comparisons of food values we find that peannts contain one-quarter more protein and three and one-batt times as much fat as their weight in round beefsteak. We are continually being advised to conserve meat, so peanuts are surely a good substitute, occasionally at least.

tute, occasionally at least.

Peanuts come to us in more than
Peanuts come to us in more than
one combination. For instance, there
is peanut butter. How many of us
know how to make sandwiches properly with peanut butter! Very often
the peanut butter is simply spread on
the peanut butter is simply spread on
the bread the way it comes in the
Jars. but this is not the best way to
Jars. but this is not the best way to
lase it. It is a better-plan to put some
peanut butter in a bowl and combine
peanut butter in a bowl and combine
water, and stirring until creamy and
excer, and stirring until creamy and
the consistency of mayonnaise. Then
the consistency of mayonnaise. the consistency of mayonnaise. There the flavor can be viried by adding a the havor can be writed by adding a little shawed cheeve, chopped pickles or olives, bot catsup, orange marmalade, chopped dates and lemon juice, sellad dressing or lemon juice, with a little bit of salt as required.

We are told that peanut butter can also be used in soups, breads and cakes, as it serves both as shortening and thickening, and adds richness, color and flavor. It also makes good icing for cake, and if desired, a touch of chocolate may be added to darken and vary the flavor

Some Fuel Saving Hints

THE fuel problem is one of the most difficult once we have to face these days, especially those of us who have to depend for the most part on coal. Coal is one of the most part on coal. Coal is one of the most part on coal. the things which can hardly be pur-chased "for love or mioney." Up to last winter our main consideration in last winter our main consideration in cold weather was to keep the house warm, but now we are confronted with the problem of keeping the house warm and at the same time burning the lesst possible amount of coal. Is there not a possibility that with a lit-there not a possibility that with a little careful study we might regulate the careful study we substit regulate our stores and circuraces to a greater decree, and white regulate the ouse counfortably heates, we would not be burning excess fuely beates, we would not be burning excess fuely required to the complete some rules recarding regulating the country of the property of the service of the country of th we publish them herewith:

Don't burn coal in an open grate, for in such a practice 75 per cent. or more of the heat goes up the chim-

It isn't necessary to have every room heated. Most people would be healthier if they slept in cold bed-

Examine furnace and see that there are no cracks at floor line to permit air leakage into the ashpit.

Endeavor to keep the entire fuel space of your range or furnace filled, heaping the coal slightly in the cen-tre. Don't let the fuel bed burn waste. Break lumps to about egg

Feed the fire and shake the grate at regular intervals. Two or three times dully is generally sufficient. Shake down the askes before adding fresh coal and ston shaking the mo-ment the first bright spot appears under the grate.

If the fire has burned very low and more heat is desired, open damper in the ashpit and add a small quantity of coal. In this particular case, do not shake the grate until this fresh coal is well ignited, then shake down the ashes and again add fuel.

Don't leave feed door drafts open

and admit cold air over a glowing fuel bed at any time. Air for comfuel bed at any time. Air for com-bustion should be drawn through the burning bed of coal, and, as a general rule, all checking of draft should be accomplished by closing the asbpit damper and opening the check damp-er in the smoke pipe. The check damper should never be opened until the ashpit damper is closed. The damper should never oe opened until the ashpir damper is closed. The shut-off damper in the smoke pipe may be partly closed in case of an unusually strong draft or to check the fire in mild weather.

Before feeding a furnace see that Before feeding a furnace see that the shut-off damper in the pipe is open, and close the check damper. This prevents the escape of dust. Keep the ashpit empty. Remove ashes at least once daily, and be sure to self all ashes to recover the

good coal.

Clean fires frequently; with soft coal every other day is none too often to give the furnace a brushing down. One-eighth inch of ashes and soot on boiler surfaces rotards heat transfer 25 nor cont. transfer 25 per cent.

transfer 20 per cent.

Carc'ul seeding of a house by means
of weather strips, double windows,
etc., results in a material saving of
fuel. Don't forget, however, that it
the basement walls are airtight, provision must be made for an ample
supply of sign convolution. supply of air for combustion.

The Old Reliable Remedy

OW many people know just how to make a linseed poultice?
Our grandmothers used to rely very largely on linseed in times of very largely on lineed in times of very largely on lineed in times of apply a poultice, but probably soad apply a poultice, but probably soad of the present generation are not so familiar with making up this pain remainer. As lineed is generally considered one of the best materials to sidered one of the best materials to sidered one of the best materials considerable oil and can therefore be siderable oil and can therefore be used at a higher temperature than used at a higher temperature dance other substances without dancer of other substances without dancer of used at a higher temperature than other substances without danger of blistering the skin, the following directions for making might well be saved for future reference:

Have for the adult, about one and one-half pints of water boiling for-cibly; into this sprinkle, slowly stir-ring the water with a spoon while doing so, sufficient flaxseed to make the mixture just thick enough to be easily spread with a knife, but not so thin that it will spread by itself.

The mixture must not be allowed to stop boiling during the addition of the flaxased and should be beaten lightly. Spread on to the muslin evenly about one-third of an inch

Mustard is often added to flaxseed poultices in ord to increase the counter-irritant property. The proportion of mustard to flaxseed used is, for an adult, one to eight, and for a child, one to eight, and for a child, one to eight, and for a child. an adult, one to eight, and for a child, one to sixteen. Dissolve the mustard in tepid water and add it to the poultice after the flaxseed has been removed from the first, hen beat the poultice well so that it and the mustard will be thoroughly mixed.

A poultice should not be left on longer than one hour, as after that it is not even as warm as the body. After removing the poultice, dry the surface of the skin and if it is very red, apply a little oil or vaseline.

Pantry Battalion Regulations

T HE pan is mightier than the sword.

Live economically and let live.
A half loaf is better than most of us

None but the brave deserve the best

You cannot be a glutton and a patriot. Save food and save the world. A foolish entertainer and her allow-

ance are soon parted.

A soldier in need is a shame indeed.
A polato saved is a battle gained.
Learn to eat everything. All's fare in war.—LIFE.

IT PAYS TO AT' END THE ELLIOTT

Yong and Charles Sts., Torento.
Yong and Charles Sts., Torento.
Traditates of the secret of our underredutates of the secret of our undergraditates of the secret of our underded good business positions and still
the feel is far beyond our supply.
Write feel is far beyond our supply.
Write feel is far beyond our supply.
W. J. ELLIOTT, Principal.

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Is it possible that we are some that the endown of the three heads of a many it was a many that the endown of the commencement of those asks, and more than ever this year, will we do well it watch for this not be a rood time also to purchase wash materials for making working dresswach materials, when we might as well have some prefty lightweet with the many that the materials when we might as well have some prefty lightweet with the many time of the materials when we might as well have some prefty lightweet with the many time of the materials when we might as well have some prefty lightweet with the many time, and the materials when we will also as a shall have a materials when we will also a many landered. Some women seem to waits, badly worn skirts, apron probably made from old sacks, and down-at-the-kitchen At the same time, these women are shamed to put in an appearance in such an outil it a visiter happens along his badden when a such an outil it a visiter happens along happens along the same time of the seem of th

bloomers and shown are a part of the pattern. This is a very simply constructed garment, and would be easily slipped on and off. Such an apron should be handy to slip on after the girls come from school, and thus save their school dresses. Five sizes: 2, 4, 6, 8 and 10 dresses.

from school, and thus save their school dresses. Five sizes: 2, 4, 6, 8 and 19 and 19

middy outfit with the pleated skirt and nose middy. Five sizes i, 6, 8, 10 and 2202—Girl's Dress,—Here is a dress for the little miss, which is unique and very attractive. Note the way in which the girdle which is ited looselv in the back. The dress is laid in pleats, both back and front. Pour sizes: 6, 8, 10 and 12

and front. Four sizes: b, 5, 10 and 12 years of the property o

Is Saving Worth While? With the Household Editor.

THINK the majority of farm women are very careful of the things which they have to purchase, but many of us have tendency to be rather wasteful of the things we grow on the farm, and which we sometimes hear people claim do not cost us anything said Mrs. Brown at their Women's Institute meeting a few days ago.

"It is my opinion that Mrs. Brown is right," said Mrs. Jones. "Here is is right, sain airs. Johns. From is an example which goes to prove her statement. We all know how Mrs. Williams prides herself on her economical housekeeping. I went over nomical housekeeping. I went over to see her one day last week and found her coaxing the kitchen fire with good chicken fat. I was so astonished that I made some remark about it being such a wasteful meth-od of making the fire burn, as chicken fat is such a splendid substitute for butter or lard as shortening. Mrs. Williams told me, however, that she had never considered it of any value."

"I am afraid I am rather wasteful "I am arreid I am rather wasteful at times," admitted young Mrs. Johnson, one of the newly-married members, "for I am often oblived to throw out stuff that has spoiled before we set it used. For instance, Ted and I are very fond of custant, but ny revies calls for three quarts of milk and a dozen evers."

"Why not use your eers and milk in smaller pronortions?" suzzested firs. Jones. "You will get just as good results and will waste nothins. It zeems to me that this is one of the leaks in many hornes. Too much food is moked up at one time to be eater with a refish, and if it becomes a little stale, the members of the will not eat it. I find it much hefter plan to make as nearly much better plan to make as nearly as poscible just the emount the family will est. I think it is a better plan to have the family estima what is on their mixes and looking for more, maker than serving in too large quantities and then have some left

"You women make me tired, laving so much stress on every bit of grease and cramb," broke in Mrs. Burke, who was fond of a good table. "For my part we have always been accus-tomed to boying plenty of good things on our teble, and enough and to snare. I do not bother about left-overs such as small portions of potatoes or other veretables a morsel of meat and so forth. I distike having my nantry chittered un with leftovers so I pother the leavings un after meal and rive them to the nim. We who live on the farm set sood prices our products nowadays, and I don't appende you women who are so careful to avoid waste save more then a cent or two a day anyway."

"Even a cent or two a day would be worthy of consideration," said Mrs. Prown. "If the world's supply is short, and according to all renorts fold that we needlessly waste is reducing someone's food by just that much. While these small savings do look instenie ant, in a year they amount to onite an item. Just vesterriay I read that if 1.000 000 families in Canada waste one slice of white 1.14 onnces), his total waste of bread by the 1.000.000 families would amount to 71.250 one-nound loaves, or enough for 21.500 men for three and one-third days. If these figures were taken for one year, the loss would amount to 3 705 000 one-pound loaves. It seems to me that when we take such figures as these into loaves. oned deretton, we cannot overlook the fact that it is up to us to save all the food we can."

"I had not thought of the question just in that light," replied Mrs. Burke, rather tamely, "and perhaps you are right, to a certain extent at A Needy Case

E have recently heard of a very pathetic case of a family trystraightened . circumstances. It is such a pitiful case that we are going to tell Our Folks about it, trusting that in this way some he pful sug-gestions may be offered to assis! in relieving the situation.

The family in question consists of the father, mother and three children and they live 20 miles from a town in one of the newer parts of Ontario. Five years ago the husband was seriously hurt and since that time has been an invalid and will be helpless for the remainder of his life. They have lived on a farm, the wife doing all kinds of farm work and really doing a man's work, but her health is giving way under the heavy strain and she finds she cannot keep up this work. Then, too, there was not a school near at hand and the woman realized that education was necessary for her children, so she rented the farm for \$75 a year and also put a mortgage on it of \$300. This money and what she realized from selling the live stock was used to pay doctor bills and other debts, so the family is wholly dependent on what she can earn. They have not had to pay rent for the house in which they live and in summer the mother and children gather fuel, but in winter they have to buy it. This year the people from whom they purchased the wood, allow-ed them to have it for three dollars a cord, but even this soon counts up when no money is coming in, Here are some of the facts as stated by this woman in a letter which we received from her recently:

from her recently:

"I do not expect that we will be able to stay where we are now living, longer than spring, and then I will have to look for another place. I would like to get a place where I could grow our own potatoes and other vegetables, keep some sheep, a cow and some fowl, I really do not think such a place, should be hard to secure if I had a little capital to work on.

Perhaps wo could suggest some way. Perhaps you could suggest some way by which I could earn bread for my family and still live in the backwoods as it is so much cheaper here than nearer town. My husband is too ill to leave alone much and the children are young, so I cannot get away from home. I have thought of trying to get a knitting machine, but I do not know of any company that would buy hosiery at all times of the year. I could get a knitting machine for \$30 or \$40. and while I haven't the money to buy one, if I could get it and could find a place where I could dispose of my work at a reasonable price, I would do my west to pay for it as soon as possible. I have been knitting by hand, but one cannot make much headway and I can only make about 10 cents a day, which of course, does not elp out very much in these days of

high prices. "I am also a good sewer but in a backwoods place like this, almost everyone is in poor circumstances and have had to do their own sewing so of course I can get very little of this kind of work. I would like to honestly earn my living. Some of the time I suffer a great deal with rheumatism, but I would do my beet if I could get any work to do, as food is very dear and we feel the pinch of hard times, as all the responsibility is laid on myself."

Our sympathy is aroused for this family and we feel sure Our Folks will also be interested. If any of our Women's Institutes, church organiza-tions or any such organization fee's that they could be of assistance in some way, we would be very glad to put them in touch with this family. Probably some organization would like to contribute something which would help to remove the mortgage of would help to remove the mortgage of \$300, and if so we would be pleased to look after any business negotiations connected therewith. We will look forward with interest to hearing from some of Our Folks in connection with his needy case

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camp day a wound circled hours, These very h voice, her bla "Dea "It is I patient the sta Rhoda?

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would ha intense, p estimate merciless day of he more and wore on. only with ness inen back unor der what such an thing in i forced her self. Littl trying to a Her lik ent long

"Do you asked the she sorted What e Sit with so? No! head. Now you no so Rhoda th was a lov

picking up

The Heart of the Desert

caressing but his face remained in- that she had assumed that she never

"Dear girl," he'answered, "he is not your kind! He might originally have been of your color, but now he's streaked with yellow. Let him go.

streaked with yellow. Let him go. You are safer with me!"
Rhoda turned from him impatiently, "it's quite asseless," she said to Jim; "no pleaning or threat will move him. But I do thank you—" her yoice breaking a little, "Go back with Alchies and tell them to come for me ambellet". for me quickly!"

Some responsive flash of sympathy came to Jim's bleared eyes

Rhoda stood watching Alchise mar shall him out of the camp. She moaned helplessly:

"O my people, my own people!" and Kut-le eyed her with unfathomable

As soon as lunch was finished, camp was broken. All the rest of the day and until toward midnight they day and until toward midnight they wound up a wretched trail that circled the mountain ranges. For hours, Kut-le did not speak to Rhoda.
These days of Rhoda's contempt were very hard on him. The touch of her hand that morning, the old note in her hand that morning, the old note in voice, still thrilled him. At midnight as they watched the squaws unroll as they watched her blankets, he touched her shoulder

"Dear," he said, in his rich voice 'it is in you to love me if only I am patient. And—God, but it's worth all the starvation in the meantime! Won't you say good-night to me,

Rhoda tooked at the stalwart figure in the firelight. The young eyes so tragic in their youth the beautiful mouth, sad in its firm curves, were strangely appealing. Just for an in-stant the horrors of the past weeks

"Good-night!" said Rhoda. she rolled herself in her blankets and slept. By the next morning, however, the old repulsion had returned and she made no response to Kut-le's

Day succeeded day now, until Rhoda lost all track of time. Endless-ly they crossed desert and mountain rideas. Fndlessly they circled through dusky canon and sun-baked arroyo, dusky shoda looked forward to each amnig-place with excitement. succeeded day now, new camping-place with excitement. new camping-place with excitement. Here, the rescuers might stumble upon-them. Always she started at each
unexpected shadow along the trail
Always she thrilled at a wisp of
smokelike cloud beyond the canon
care. Always she felt a quiver of
containty at antident breast, of twin or edge. Always she felt a quiver or certainty at sudden break of twig or fall of stone. But the days passed and gradually hope changed to des peration

The difficulties of the would have been unbearable to her had not her natural fortitude and her intense pride come to her rescue. The estimate of her that Kut-le had so mercilessly presented to her the first day of her abduction returned to her more and more clearly as the days were on. At first she thought of them only with scorn. Then as her loneli-ness increased and she was forced back upon herself she grew to won back unon herself she grew to won-der what in her had edven the Indian such an ordinion. There was mome-thing in its plercine austerity. That forced her to truthfulness with her-self. Little by little she found herself,

Her liking for Molly grew. She spent long afternoons with the squaw, picking up desert lore.

"Do you like to work, Molly?" she asked the sunaw one afternoon, as asked sorted seed for Molly to bruise. "What she to do?" asked Molly. "Sit with hands tolded on stomach, so? No! Still hands make crasy head. Now you work with your hands you no so sorry in head, buh?" Rhoda thought for a moment. There was a loy in the raide camp tasks "Do you like to work, Molly?" she

had found in golf or automobiling. She nodded, then said wistfully: "You think I'm no good at all, don't you, Molly?"

Molly shrugged her shoulders.

"Me not got paposes. You not got paposes. Molly and you no got paposes. Molly and you no good! Molly is heap strong. What good is that? When she die she no has given her strength to tribe, no dyne any spod that will lust. You are done any good that will last. You are heap beautiful. What good is that? heap beautiful. What good is that: You no give your face to your tribe. What good are you? Molly and you might as well die to-morrow. Work. have papooses, die. That all squaws

are for. Great Spirit says so. Squaw's own heart says so."
Rheda sat silently looking at the

equaw's squat figure, the toil-scarred fingers, the good brown eyes out of which looked a woman's soul. Vaguely Rhoda caught a point of view that made her old ideals seem futile. She smoothed the Indian

"I sometimes think you are a big-ger woman than I am, Molly," she said humbly.

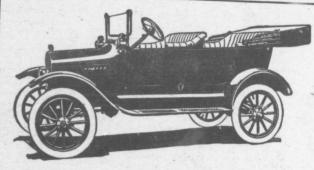
"You are heap good to look at." olly spoke wistfully. "Molly heap Molly spoke wistfully. "Molly heap homely. You think that makes and difference to the Great Spirit?"

Rhoda's eyes widened a little. Did it make any difference? After all, what counted with the Great Spirit? She stared at the barran ranges that

lifted mute peaks to the silent heavens. Always, always the questions and so vague the answers! Suddenly Rhoda knew that her beauty had counted greatly with her all her life, counted greatly with her all her life, had given her ber sense of superiority to the rest of the world. Rhoda squirmed. She hated this faculty of the Indians and the desert to make her seem small. She never had felt so with her own kind. Her own kind. kind! Would she never again know the difference, the gentleness, the loving tenderness of her own people? Rhoda forgot Molly's wistful

"O Molly!" she cried. "I can't stand this! I want my own people! I want my own people!

Molly's eyes filled with tears. (To be Continued)

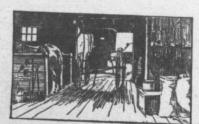


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(16)

Dominion Dairy Council Proposed

Ontario Creamerymen Hold Second Annual Convention. Companies Will Not Supply Cream Cans. Store Away Ice

THE most important problem dealt with at the second convention of the Canadian Creamerymen's Association of Ontario, held on Tuesday, Jan. 15, in Toronto, was the or-ganization of a national dairy council which would bind together all the var.ous dairy organizations at present various dairy organizations at present existing in the Dominion. Such a national organization would be of un-told value in keeping the Federal Government in touch with the dairy-Government in touch with the dairying interests of Canada. It was
pointed out at this convention that
for the aurount of capital invested,
dairymen are the most unorganized
body of men in Canada. There is
no central organization which might
take up with the Federal Government,
such architect as the introduction of take up with the Federal Government, such subjects as the introduction of o'comargarine, or the fixing of a price on cheese. A benefit which should accrue from a national organization would be greater uniformity in standards of grad to butter and cheese. Another heading would be greater uniformity in standards of grad to butter and cheese. ards of grading butter and cheese. Another benefit would be that at the meeting of the central organization (which should be held before the dairy conventions meet) problems for dis cussion at these conventions might be arranged so that the different associations could get somewhere in their meetings

The subject was first introduced to Ontario dairymen at the recent E. O. Ontario dairymen at the recent E. O. D. A., when the suggestion was made by Mr. G. A. Futnam that greater cooperation among the various dairy organizations would be of value. Western dairymen have given this subject much consideration, and there subject much consideration, and there-were prasent at the Creamerymen's convention in Toronto Mr. Alex. Mc-Kay, a Winnipeg creamery man, and Mr. L. A. Gibson, Dairy Commissioner for Manitoba. These men brought before the convention the desire of western dairymen to cooperate with the rest of Camada, and Mr. W. A. Mc-Kay, Dairy Commissioner for Nova Scotta, brought the same Canada will the Marithmen porter of butter. If she the Maritime provinces. Canada win soon be an exporter of butter. If she would achieve a national reputation for this, the grading of butter must be uniform throughout the various provinces.

A motion introduced by R. J. Mac-A motion introduced by R. J. Mac-Lean, of Toronto and seconded by Alex. McKay, of Winnipeg, proposed that a national organization of dairy-men be formed, to be known as the "Dominion Dairy Council," for furthering developments in the dairy inter-ests and solving dairy problems, that this council be composed of one or more representatives of the following: The Canadian Creamery Association of Ontario, etc.

This motion will be taken before the other dairymen's conventions and submitted to them for their approval. It is hoped that such an organization may be formed which will hold a meeting once a year at some central point where the representatives from beint where the representatives rought the different associations may come together and discuss matters of national dairy import. The graders of butter from the various provinces should also meet in this way and thus standardize the various grades of but-ter for all of Canada.

An Ice Campaign.

"There is no use talking to patrons about ice in the summer," said Mack Robertson, president of the associa-tion. "The time to talk ice is now, when it can be obtained. We must have ice on the farm if we are to get our cream in good condition, and with Gleomargarine competing with inferior grades of butter, it is especially imgrades of butter, it is especially important that cream be delivered to the factories in good condition, so that a superior quality of butter may be made from it." Mr. Robertson show that cans, the 10 per cent. loss and a similar superior quality of butter may be made from it." Mr. Robertson show 431.30 per can per year. Better care ed a copy of a circular letter that is going out from his creamery to the patrons, trging the putting away of in Ontario that companies supply cans. at least one ton of ice for each ow After considerable discussions a com-

on the farm. In this circular he states that there are three essentials to the schding of good cream to factories.

These are ice! kee!! ice!!!

Mr. J. A. McFeeters called attention

Mr. J. A. McGreeters called attention to the demonstration orchards that have been conducted in various parts of the province by the Government. Why not have demonstration lee houses? One good ice house on a concession line will act like a silo. It will be copied by other farmers. Mr. Alex. McKay pointed out that the way to get ice on the farms is to grade the cream and pay a higher price for cream properly cared for, than for that which is not cooled. "Money talks."

Farmers Must Supply Cans. The subject of the supply of cream cans was introduced by R. J. MacLean. of Toronto, who pointed out that each centralized creamery loses annually considerable money through losses in cream cans which go astray. In many cases, particularly in connection with flag stations, the express companies are not particular about where they

mittee was appointed to investigate the situation and get the various greameries of Ontario to cooperate in saving the waste from this source. It is likely that no creameries will sup-ply cans during the coming season, or if they supply them, they will be charged up against the farmer until they are returned in the sall.

Election of Officers.

At the evening session the election of officers was proceeded with and the following were elected for the en-suing year: President, Mack Robertthe following were elected for the eli-suing year: President, Mack Robert-son, Belleville; lat Vice-President, Wm. Newman, Lorneville; 2nd Vice-President, J. A. McFeeters, Toronto; Secretary-Treasurer, W. G. Jackson, Shricce, Directors: S. R. Brill, Tees-water; W. MacWaddell, Strathroy; L. Southworth, Omemee, and A. Aldrich,

On a resolution introduced by W. MacWaddell the fees of the associa-tion were increased from two dollars year to five dollars.

The resolution dealing with the or-

The resolution dealing with the organization of a Dominion dairy council appears earlier in this report.

Mr. J. A. McGreeters, of the Toronto Creamery, Toronto, moved a resolution, seconded by Mr. P. Christie, the

WORLD'S RECORD SENIOR FOUR-YEAR-OLD HOLSTEIN COW. Angafe Acme of Riverside 2nd, owned by A. W. Morris and Sons, California, has finished her second yearly test and annexed three world's records. On attrictly official test as he produced 294.68 lbs. of fat in 306 days and 1065.128 lbs. (fat in 305 days and 1065.128 lbs. (fat in 305 days.) This exceeds the previous record held by Keystone Beauty Plum Johanna by almost 30 lbs. of fat.

deposit the cans. Frequently they are deposit the cans. Frequently they are tossed off, and roll into the ditch and in winter time become covered with snow. In other cases they are car-ried to the wrong stations and become Express companies under pres ent rulings will take no risk for cans accepted or delivered at flag stations. Again, in some cases the farmers who ship the cream are not particular in returning the cans at the end of the season. Mr. MacLean pointed out that the buttermakers have to supply the containers in which they market their butter. In the same way it should only be fa! that farmers supply the containers for marketing their cream. Whereas three years ago the price of cans ranged around two dollars, to-day they cost five to six dollars. Where a central company has to keep from 1,000 to 4,000 cans affoat, this means considerable overhead expense

Mr. Johnson, of Lindsay, stated that his company loses 10 per cent. of their cans each season. He gave figures to show that with the interest on \$5

Valley Creamery, Ottawa, Ont. that,
(1) Whereas there is a scarcity of
edible fats, and, whereas the dairy
industry furnishes the majority of our
edible fats, and whereas the dairy
-palatable fat and the only commercial
fat containing the valuable growth

principle, therefore be it resolved that the production of such fats be encouraged and if possible increased.

(2) And whereas the introduction

of oleomargarine into Canada in com petition with butter has made the future of dairying uncertain, thereby causing many dairy cows to be slaugh-tered, a course that will work almost irreparable injury to the dairy indus-try and will result in a decrease in the supply of fats; and whereas a direct statement from the Govern-ment, to the effect that the former regulations regarding oleomargarine will be restored with the coming of will be restored with the coming effect upon the minds of dairy farmers as to the ultimate stability of the industry, and would encourage production, therefore be it resolved that the Canadian Creamerymen's Association of Ontario request such assurance from

the Federal Government.

(3) And whereas the administration of the regulations protecting the consumer against the evil effects of the

sale of oleo as butter, are in the hands of the Veterinary Director-General's Department, and inasmuch as the dairy branch has an organization branch has an organization ing the field, therefore be it resolved that the supervision of the sale and distribution of oleomargarine should be placed in the hands of the dairy branch, thereby avoiding dupli-cation of effort.

A Chicago Visitor. Prof. Bouska, of the National Cream-

erymen's Association of America, one of America's best authorities on butof America's best authorities on butter, dealt with many of the practical
points of buttermaking. He spoke
at length on the determination of
moisture in butter, particularly as relates to federal regulations. He advanced the idea that the keeping
quality of butter was as much dependent on the wmount of working of the
butter as on bacteriological factors. butter as on bacteriological factors butter as on bacteriological factors. In order to get a good over-run, he opined, we work the butter too much destroying both grain and keeping quality. Pasteurization does, however, improve the keeping quality butter immensely. Low acidity, too, butter immensely, Low acidity, too, butter immensely. Low acidity, too, is necessary to avoidance of fishy flavors. Several in the audience were inclined to place more faith on pasteurization than did the speaker, but the Professor stuck to his position that at least three factors should be given consideration.

Mr. Bert Rashbonen, Danuty Minister.

Mr. Bert Roadhouse, Deputy Minis-ter of Agriculture, facetiously remark-ed that Ontario took some credit for western progress, seeing that most of the western dairy leaders were educated in the older province. Following his remarks on the initial work done in butter grading, Mr. McLean expressed the hope that a greater number of Ontario creamerymen would take advantage of the system next year. Incidentally, both Mr. McLean and Mack Robertson paid a warm tribute to Mr. J. H. Scott, the butter

The Can Question. There was little discussion of the can question; opinion was unanimous that patrons should be asked to supply their own, Mr. Taylor, of Guelph, suggested that all creamerymen be cir-cularized to see if 75 per cent, would be willing to shift the burden over to the patron. With this number agreeing the change could be put through easily. Mr. Hughes, of the Farmers' the change could be the Farmers' casily. Mr. Hughes, of the Farmers' Dairy, thought the time not opportune for a change. On motion of B. A. Reddick, seconded by Colonel McLean, the meeting placed itself on record as favoring the purchase of carriers by the patrons. Mr. Bingham, of Ottawa, had a different solution; his making an exact allowance company is making an extra allowance to farmers who supply their own cans.



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HOLSTEIN-FRIESIAN NEWS

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HIGHLAND LAKE FARMS SALES.

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HIGHLAND LAKE PARMS SALES.

THE rare breading of the stock hept on Highland and the stock hept of the

HE SELECTS A GOOD ONE.

HE SELECTS A GOOD ONE.

Nordering a new advertisement to appear in Parm and Dalry, Mr. T. A. Drawon, manager of Lawreius Rickerius Ricke

AAGGIE ACHE OF RIVERBIDE 2nd.

ABGIE words record for butter production has said a purebred. Holstein cow.

Acmo of Bleveride new As a purebred. Holstein cow.

Acmo of Bleveride new hop producing to the champion. The condition of the champion of the cham

FEED YOUR FOWL STEVENS' GREEN GROUND BONE Goo. Stoyens 364 Mark St., Peterbore, Out.

1.187.94 pounds of butter; 366 days—
\$2,000 pounds of michael 1.21.77 pounds
\$2,000 pounds
\$2,00

A WORTHY YOUNG SIRE AT ELM-CROFT.

A WORTHY YOUNG SIRE AT ELMCROFT.

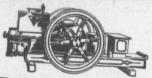
AREM and Dalry had heard considerable of the control of th

WHEN A BUYER COMES BACK FOR

ANNUAL MEETING OF THE BROWN SWISS ASSOCIATION.

THE Annual Brown Swiss Association meeting was held at the New Sherbrooks Poroks House, Sherbrooke, Que, on January 2nd, 1918. The chief officers and a number of outside members being pre-

January 2nd, 1918. The chief chiefer has a number of outside members being preamber of members had been outside during. The yearly report showed that the number of members had been doubled during. The sim of the Association to 1918 in to again double its membership and to see that all large exhibitions open not already donn brisis, where they have not already are Italym Ballagh, and Right Halled Halled



Think of all the work this ALPHA GAS ENGINE would save you

V FIH this simple, strongly built engine you can saw wood, run a pump, cream separator, churn, washing machine, feed cutter or feed grinder, and save time and labor around your farm.

if you need a gas engine, it will pay you to buy a good one. An ALATA costs little more to begin with than a choan, poorly designed engine, and will quickly make up for any difference in the first cost by the longer and far more satisfactory service it will give you.

The ALIPHA is simple and durable in construction and is free from any of the complicated, delicate paris that make some engines a constant sort of irritation and expense. You can operate it with either gasoline or kerosene, and it will develop its full published rating with a minimum amount of either.

An All'PHA is a raving investment any way you look at it. It will save the money you now must pay out to get done work that requires power, because you can own and operate it for the same than it would cost you to hire some one with an engine, and it was than it would you are now doing by hand and give you more time therefore the work. The sooner you get an Al-PHA, the sooner it will pay for itself.

The DE LAVAL COMPANY, Ltd.

LARGEST MANUFACTURERS OF DAIRY SUPPLIES IN CANADA.
Sole manufacturers in Canada of the famous De Laval Cream Separators and Ideal Green Feed Silos. Alpha Gar Universal disturbers with the Company of our lines mailed upon request. PETERBORC WINNIPEG VANCOUVER 50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

CUT YOUR OWN HAIR EASIER THAN SHAVING 50c CASH GIVEN FOR THIS AD.



You do not need any experience or practice to use the DUPLEX AUTO.

MATIC: 'AIR CUTTER: It comes to you all ready for instant use, and five
minutes a ter you receive it you can have your hair cut better than it was

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pacent washington to the blades.

HAIR CUTTER has increased nearly 150 per cent. In a very short time you will have to pay more for time you will have to pay more for time you accept this advertisement from all the same time to the your accept this advertisement from all one with farm and Dary he haans as bec. cash. Cut it out and send it to us with farm and Dary he haans as bec. cash. Cut it out and send it to us with farm and Dary he have well send as the complete with the properties of the particular to the properties will send the properties of the properties of the properties will send the properties of the properties of the properties will be properties of the properties of the properties will be properties of the pr

HE IS FOR SALE

Bull 10 months old, half white. DAM Dalsy Mottle Beauty, Jr. 4

97. record 30.76 lbs. butter in 7 days. HER DAM Mottled Dalsy
20,800 lbs. milk in 1 year, milked twice in 1 day.

SIRE'S DAM 34.60 lbs. butter in 7 days. 116 lbs. milk in 1 day.

R.R. No. 2, HAMILTON, ONT.

The Bull — CENTRE VIEW PONTIAC SEGIS-

The Bull — CENTRE VIEW PUNITAC SEGIS
as advertised in Farm and Dairy, is sold to W. M. Steinscker, of Stratford,
I now offer two other bloody follows from untested dams and sired by
Steinsche Walkers System (Steinsche Price, \$150,
No. 1 born March 31, 1917, a dandy; evenly marked. Price, \$150,
No. 2 born June 15, 1917, a dandy; evenly marked. Price, \$150,
On 2 born June 15, 1917, will make a show bull; about half white.
Good bulls are scarce, write quick if you want one.

Woodstock Shipping Station.

M. McDOWELL Sale Station Station of Oxford Centre, Only

Help This Country

Never before was food needed to so great an extent as at the present time. The call of this country is for greater production. In the dairy line we can help you answer this call. Our Dairy Meal will materially increase the flow of milk from your herd. This means more butter and cheese for human food. Give

Caldwell's Dairy Meal

a thorough triad. You will profit from its use, and this country also will be benefited. We have, now, thousands of customers who are feeding it daily. They find it increases the milk yield. Caldwell's Dairy Meal is a balanced meal ration. Start feeding it. Sold everywhere by feedmen or direct

from our mill.

The Caldwell Feed & Cereal Co.

ONTARIO

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



INGLEWOOD AYRSHIRES

A bull calf whose dam is a daughter of SCOTCH PHEFIAS, the cham-nion R. O. P. 3-year-old, record of 14,90 ibs. mils, 631 lbs. fat. Ills sire is son of BRIERY ND of SPRINGBANK, the heaviest milking 2-year-old grey tested in Canada, record 14,131 lbs. mils, 520 lbs. fat. Priced atfrac-

WILSON MCPHERSON & SONS

ST. ANN'S, ONT.

PEACH BLOW AYRSHIRES

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

This Engine Will. Cost You Nothing

You need an engine—get h Glison on our new easy payment plan, and it work for it to de this fail and winch help is scarce and high priced—save yearned a let of work and the payment plan. The control of the standard is to deep the payment of the standard and the payment of the standard in the payment of the pay

Glison Engines have long enjoyed an indisputable fresulation for depends attractive proposition for the discriminating buyer. Prices of even more attractive proposition for the discriminating buyer. Prices of everything you have been buying have been soaring, but by carreful management we are able to furnish (blison Engines at temperable) are represented in the proposition of the prices of t

GILSON MFG. CO., LIMITED, 257 York St., Guelph, Ont.

GUARANTEED

is the ideal feed for milk production.

THE mere fact that it costs a little more than Bran, does not I mean that it is more expensive. On the contrary, it is cheaper than Bran—it is about the cheapest feed you can give the cows-because it increases the milk yield so much

We have a little book that tells about Edwardsburg Gluten Feed - what it does and how it makes money for you - write for a copy, free.

THE CANADA STARCH CO., LIMITED - WORKS AT CARDINAL BRANTFORD, FORT WILLIAM TORONTO UNION BANK ASSETS NOW EXCEED \$143,400,000.

Tike Union Benk of Canada not only Tike Union Benk of Canada not only Tike recent rate of progress during the feest year of 1917, which closed on November 21 and 1917, which closed on November 21 and 21 an

sible to make a writing-or-premises: strencth of the Union Bank in the West, where a large volume of cur-ency is being employed in the financing of the 1917 crop-nowing, which indicates at once the strength and popularity of the bank and the profitable nature of its condition.

THE ABERDEEN ANGUS.

THE ABENDEEN ANOUS.

AIM and Dairy bega to acknowvised editor the revised collection of the revised collection of the revised collection of the refourth edition of this excellent little
booklet, which tells in pleture and in
brend. Readers who are interested in the
brend may scure a cupy on application
to the secretary, Chas. Gray, BY Exchange Xenue, Chicaso, BY

AN ARBOGAST SALE.

AN ARBOGAST SALE.

A REBOGAST BROS. of Sobrinsville, recently sold to N. R. MacArthur, of Themseford a choice, the sold size of the sold size

MR. LANING'S OFFERING.

MR. LANING'S OFFERING.

EADERS will notice the advertisement of Mr. Robt. C. Laning, of Villa Nova, which appears in this issue. Columns, and we take this Opportunity of introducing him to our readers. The young built he offers should be a bargain at two-year-fold record of 19.8. His dam is a 80-lb. Jr. 4-year-old, and in looking over his pedigree, we notice such aspects over his pedigree, we notice such aspect. Can, record when made, Prince Pauline Dekci, 14 R. of M. daughters, and 12 R. of M. sons, and Mercena Srd, w. 7s. 27.40 (hbs. bottler in 7 days.





are good breeders-

milkers - easy Write for

W. F. Stephen, Sec'y., Canadian Ayrahire Breeders' Association, Bex 508, Huntingdon, Que.



TANGLEWYLD AYRSHIRES

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

W1000155E 1901., P. R. HO. '.

SPR NGBANK AYRSHIRES Bulls from one month to seven months old for sale. All are bred to color and type, and from R.O.P. dams. If you need a well bred bull write at once.

A. TURNER & SON,

Ryckman's Corners, : Ogtario.

- AYRSHIRES -Two Richly Bred Bulls For Sale Two Ri. hly Bred Bulls For Sale
One 8 mos. whose Gd.dam's sire
is St. Simon, the sire of Auchenbrain Brown Kate, with over
23.000 lbs. milk record. The
other 20 months, whose dam as
a two-yr.-old record 8,330 lbs.
milk, 365 lbs. fat. His Gd. sire is
Lessnessock Comet (Imp.). Also

R. R. No. 1, Clinton, Ont.

=HEREFORDS= 5 for Sale 1 polled--BY AUCTION--horned

in Victoria County. Pure-bred Stock Association sale at Lindsay, January 29th. Consigned

MOSSON BOYD CO., Bobcaygeon, - Ontario

Write for catalogue.

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

W. A. CLEMONS, Sec.,

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The but s tlong freigh bag, short lies,

to \$1 Wh Alsik

ABSC Reduce Bruises at deale Manufa W.F. Y

Absorb FOR runnir Churn eltuate from i factor; ter Co

MARKET REVIEW AND FORECAST

TORONTO, Jan. 21.—The tie-up in Allway e supportation has left the market in a principal and the property of the state of

WHEAT.

WHEAT.
There is very little movement in the when market. Everything is tied up by the storm, and flour mills are reported at awaiting shipments of wheat. Orders all awaiting shipments of wheat. Orders all awaiting shipments of wheat. Orders all shalloon. For William, nominal. (Including 29st Lax): No. 1 northern, \$2.20%; No. 2 northern, \$2.20%; No. 3 northern, \$2.17%; No. 4 wheat, \$2.10%.

COARSE GRAINS.

wheat, 22.104;

wheat, 22.104;

The same can be said of the coarse stain market as of wheat. Nothing its settlement of the coarse stain market as of wheat. Nothing its settlement of the coarse stains and its settlement of the coarse stains and its settlement of the coarse stains of the conomical. Quotations: Manitoba out-not 20 CW, 354; No. 3 CW, 354; extinction of the conomical contains and the conomical contains of the coarse stains of the conomical contains of the coarse stains of the conomical contains of the coarse stains o

MILL FEEDS. MILL FEEDS.

There is a good demand for mill Theds, but supplies are scarce. Toronto quotations, car jots, delivered, Montreal tions, car jots, delivered, Montreal Giller, and the state of the state o

HAY AND STRAW.

Prices for hay remain unchanged with eary little moving. Toronto on track, No. 1, \$15.50 to \$15.50; mixed, \$13 to \$15; straw, car lots, \$2.50 to \$3. Montreal, No. 2 hay, per ton, car lots, \$14.50 to \$15.

Wholesalers are paying the following prices for seed at country points:
Alsike, No. 1 fance, bush, \$12.00 to \$12.50 do No. 1, ordinary ... 11 25 to \$11.75 do No. 2, per bushel ... 10 00 to 11 00 do No. 3, per bushel ... 800 to 9 do a rejected, por bushel ... 420 to 700 do rejected, por bushel ... 420 to 700





more the shir, and you can seed the heirs. Si Oo per horite, delivered. BSORBINE, JR., antiseptic liniment for mankind. Feduces Fainlaid, Swalen Veins, Gaire, Wens, Strains, Bruises, stops pain and indamnation. Price \$1.00 per horits of celled we delivered. Will sell you mere il you write. Manufactured only by W.F. YOUNG, P.D.F. 123 Lymans Bldg., Montreal, Can.

Absorbine and Absorbine, Jr., are made to Canada.

FOR SALE—Butter factory in complete running order, with nearly new Victor Churn and about \$500 worth of supplies; situated in village of Bluevale, 1½ miles from rasilway station. Dwelling house in factory. Apply Bluevale Cheese & But-ter Co., Ltd., Bluevale, Ont.

WANTED—Competent young married man to work on Alberta grain farm, \$600 for eight months, beginning April first. Free house and garden. W. M. Sanders, Lamine, Atta.

| Red clover, No. 2, bush. | 11 | 00 | to | 11 | 75 |
|---------------------------|-----|-----|----|-----|----|
| do No. 3, per bushel | 6 | 25 | to | 6 | 75 |
| do rejected, bushel | - 6 | 25 | to | 6 | 75 |
| l'imothy, No. 1, per cwt. | 8 | 75 | to | | 00 |
| do No. 2, per cwt | - 7 | 75 | to | | 00 |
| do No. 3, per cwt | 6 | 75 | to | | 90 |
| do rejected, per cwt | - 2 | 25. | to | . 4 | 78 |
| Flax, bushel | * | 15 | to | | 00 |

POTATOES AND BEANS.

Since the big ators of last week manyof one of the big ators of the big ators
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EGGS AND POULTRY.

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Chickens, spring. 25 to 600 25 to 600 25 to 500 Constant of the seg market in t

DAIRY PRODUCE.

The term of the second of the

LIVE STOCK.

Few were the offerings on the market this last week on account of the storm, the prices were very good. The total received settle for the week only totalled 2,494. Good to choice steers and hefers sold good to choice steers and hefers sold stuff to the week only totalled 2,594. With fair to medium stuff, bringdeg from \$0.90 to \$15.86 per cet.

cwt.

There were 607 hors on rate on Friday, and they sold at Therraday's advance
to \$13.75 fed and watered.

Spring lambs sold as high as \$19.50
this week, but on Friday prices were at
from \$18.55 to \$35. Sheep were at from
\$19.55 to \$35. Sheep were at from
\$19.55 to \$35. Sheep were at from
\$19.55 to \$19. Sheep were \$1.50.

Quidations for the \$1.50.

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Quidations for the \$1.50.

| Strokers | God | Strokers | Str

do medium
do common
do heavy fat
Sachus Jambs. owt.
Sheep, ewes, light
the beep, owes, light
do heavy and bucks.
Hors, fed and watered
do off cars 7.00 10.50 19.00 15.50 15.00 9.50 6.50 00.00 do off cars 20.00 to 0.50 do off cars 20.00 to 00.00 do fo.b 18.75 to 00.00 Less \$1 to \$2.00 lpt for thin hogs; less \$3 to \$3.00 en sows; less \$4 on stage; less \$60c to \$1 on heavies.

= LLENROC STOCK FARM =

On the Banks of the Beautiful Niagara River

A few well-bred, young Holstein Bulls for sale. Also a Belgian Stallion, weight about a ton. Address,

W. C. HOUCK

R. R. No 1

CHIPPAWA, ONT

HOLSTEINS

We have the only two sons in Canada, of the 4s-ib. buil Ormsby Jane King-only mature son of the world's most famous cow. One of them for safe, sales also considered and and two great-grand-dams accrace 34 the substitute of the safe of

PORT PERRY, ONT

-WANTED-

Registered Holstein Bull ealf, about a month old, or younger. WOULD LIKE ONE BRED FOR HIGH PERCENTAGE OF BUTTER FAT. Send copy of Extended Pedigree, with full particulars of conformation of sire and dam, with FARM AND DAIRY

Box 50.

KING SEGIS ALCARTRA CALAMITY'S

sons are in great demand, so don't delay in writing me about these two No. 1. A fine straight fellow, 15 months old, out of an 18 ib. 3-year-old No. 2. An individual hard to ceual, six months old, out of a 22,000 ib granddaughter of COLANTHA JOHANNA LAD.

MICHAEL A. ARBOGAST, R.R. No. 3, STRATFORD, ONT... Sebringville Station.

EDGELEY STOCK FARM

The home of Canada's greatest producing Jersey, Sunbeam of Edgeley, the Sweepstakes Dairy Cow at the recent Guelph test; is also the champion R.O.P. butter cow for Canada. Would a grandson or great-grandson of this famous cow improve your herd? We have them. Write for particulars. JAMES BAGG & SON, (Woodbridge, C.P.R., Concord, G.T.R.) EDGELEY, ONT

HERE'S A GOOD ONE

KING BCHO DARKVIESS—born Peb. 24th, 1917. 4, black: sire KING SBGIS ALZAMITHA, SHOPPINGE (Son of the 160,000 bull); dam QUBENO OF THE MAY EXCHANGE 417.00 bulls of the control of the cont

KING SEGIS ALCARTRA CALAMITY is living up to his royal breeding. His first daughter made nearly 21 lbs. butter at 2 years old. Four sons of King for sale from the butter of 2 high-class youngsters. Write to-day for one from the butter of the control of the cont

PETER S. ARBOGAST - R. R. NO. 2 - MITCHELL, ONTARIO

== A RARE CHANCE=

Holstein bull 12 months old out of 20 h. jr. 4-rear-old. Sire-REUREN.
ARMERKERK MERCUSNA, whose only 2 tested daughters have records of 19.63 as Jr. 3-yr.-old and 16 h. 3-yr.-old. This sire is from 2.6 b. daughter of MADPAN years to 17.64 are 18.69. His sire has 22 R.O.M. daughters from 28 lbs. at 4 well grown. Price for egges young bull is an Al individual, well marked and well grown. Price for egges also, \$100.

ROBERT C. LANING VILLA NOVA, Ontario.

SUNNYSIDE STOCK FARM HOLSTEINS

50-MIO SEGIS FAYNE, our herd sire, is by a brother of the world's 50-MIO SEGIS FAYNE, our herd sire, is by a brother of the world's not yet 4 years old. The same property of the bull, write or come and see them.

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

HIGHLAND LAKE FARMS _

Herd sire, AVONDALE PONTIAC ECHO (under lease), a son of MAY ECHO SYLVIA, the world's record cow. Only one other 41-ib. bull in Canada. We have young bulls for sale, whose two nearest dams (both Canadian champions) average as high as 35.62 lbs. butter in seven days; another whose two nearest dams are both 100-ib. cows, and one ready for service from a 41-lb, sire and an 18,000-lb, two-year-old dam. Send for our "Book of Bulls." A few females for sale. Satisfaction guaranteed.

R. W. E. Burnaby

Farm at Step 55 Yonge Street Radial

Jefferson, Ont.

LAKEVIEW FARM

is now offering a choice young bull almost fit for service, sired by KING CANARY-SBGIS, whose dam PET CANARY COUNTESS 2nd, has for 3 consecutive years held the Canadian Record for butter in 7 days in the 8 months after calving division, best 7 days butter 27,73 lbs. as a 2-year-old. His dam at 4 years, 19.56 lbs., is a full sister to the Highest producing 2-year-old in Canada, LAKEVIEW DUTCHLAND ARTIS, 34.66 lbs. butter from 6-77 lbs. milk, average test 4.85%.

Major E. F. Osler, Prop.

BRONTE, Ont.,

T. A. Dawson, Mgr.

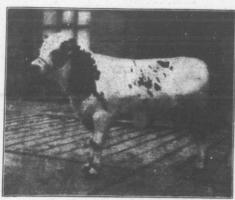
Have You Secured One of Farm and

Dairy's Real Live Premiums?

If Not, Get Busy at Once!

These live stock premiums are proving very popular with Farm and Dairy Readers. We know this because they keep us busy filling their orders,

We like them best because after Our Folks get them they will constantly become more valuable. A cheap and trashy premium would be lost or destroyed in the course of a few months, but at the end of that time one of our real live premiums has trebled in value and become a source of constant revenue.



Pure Bred Holstein Bull Calves

These Holstein calves are big, strong, typey fellows. Begin at once and earn one of them before they are all gone. Send us a list of 30 New Subscribers to Farm and Dairy at \$1.00 each, and we will have one ordered for you right away.

REMEMBER Even if you do not get the required number of subscribers for a calf, you can win a pig, or if you prefer we will pay you a large cash commission on all subscriptions you do get. So do not hesitate to start. You are bound to get something for your work—calf, pig or cash.

IMPORTANT—We do not guarantee to deliver either calves or pigs before March.



Pure Bred Ayrshire Bull Calves

These are guaranteed to be good, well bred, typey calves, well marked with clearly defined colors and of the very best breeding.

In short, they will be a credit to the Breed, Eligible for Registration.

We are giving one of these calves for 30 New Subscribers to Farm and Dairy at \$1.00 each.

FREE PIGS

HAVE YOU GOT YOURS?

Pure Bred Pigs Given Away FREE



Have you won any pure bred Pigs for the securing of New Subscriptions to Farm and Dairy? If not you can easily do so now. Read our offer.

We will give a pure bred pig, of any of the standard breeds, from six to eight weeks old, for only fifteen New Subscriptions to Farm and Dairy, taken at the regular subscription price of \$1.00 a year.

We have already this year given way many pure bred pigs. You can secure one also just for the work of securing fifteen (15) new subscriptions.

FARM AND DAIRY

PETERBORO, ONT.

Dear Sirs

Please send me full information and supplies, as I am determined to win one of your REAL LAVE PREMUUMS.

Name ..

Address

Premium desired