

What Shall We Put in the Silo? A Review of Crops at Our Disposal. Page 3.

An Answer Based on Five Years' Work. Page 4. What is the Profitable Dairy Practise? Buying Concentrates or Growing Them. Page 6.

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(2)

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The Outlook for Canadian Dairying in 1918 A Survey of Present Conditions and a Forecast of Future Production by Men Clusely in Touch With the Situation. The Difficulties Are Many, But

Prospects Are Bright

Nova Scotia Dairying

THE severe winter combined with the other influencies W. A. MacKay, Dairy Superintendent. The severe winter combined with the other influencing factors will no doubt have a certain detri-mental influence on the amount of dairy products produced in Nova Scodairy products produced in Nova Sco-tua, at least during the spring season In some parts of the Province feed is getting very scarce. In fact in Cape Breton the Government has had t⁴. Breten the Government has had to give aid in getting hay to carry the stock through and, at the present time, 60 car loads of hay are on the way to relieve the situation there.

The Nova Scotia dairyman is up against another problem. In the past large quantities of the short feed used was imported from Western Canada. as well as tremendous quantities of fertilizers of one sort and another. This never left a satisfactory margin of profit even when fed to good cows, let alone the average cows, but now these are being cut off to a certain extent and the prices have advanced to such an extent that the price of feed is almost prohibitive. There is no doubt, however, that while this is making a difficult problem at the no doubt, however, that while this is making a difficult problem at the present time, it is after all a blessing in disguise and the dairyman is being forced to produce his own feed; and in so doing produces his fertilizer. and in so doing produces its fercineer, as his forefathers did, and will elim-inaté the great wastage that at pres-ent exists and will have to be over-come before dairying will become permanent.

Creamery buttermaking showed a decided increase in 1917. It is hoped that 1918 will show a much greater that 1918 will show a much greater increase, but to do so requires the united effort of all concerned, and it appears to the writer that there is no more patriotic duty that dairymen

no more patriotic duty that dairymen can do this year than to increase just as much as possible along the lines of production in the Province, where he has aiready made a start. A Dairy School for the creamery battermakers of the Marilime Prov-initive Three, from March 13th to March 25th, and for the cheesemakers from March 27th to April 4th. Alto from March 27th to April 4th. Alto-gether 31 enrolled for the creamery course, quite a number being young ladies, who are taking the milk test ladies, who are taking the milk test-ing work in connection with the ac-counting at a number of the cream-eries and will also do the cow test-ing in some cases under the new ing in some cases under the new regulations from Ottawa. This course is along the same lines as the one held last year and is unique in its character, inasmuch as it is the first real tangible effort toward a Maritime Agricultural College and a union of the agricultural interests in these three provinces. The overhead expenses are met by the three provinces The overhead ex-

There is a decided increase in the amount of milk produced per cow in the creamery districts in the last few years, due to the influence of the creamyears, due to the innuence of the cream-ery coupled with the Record Centres for cow-testing that has been car-ied on, and while no definite figures are available for the whole province, the results from the cow testing centhe results from the cow testing cell-tree as given below, published through the courtesy of the Recorder for that district, will show the progress that has been made, considering that five years ago this was an average dis-trict producing about 3500 ths milk Pa

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et, producing about 3,59 cow.	00 Ibs. milk		(Continued	on page
atron's No. No. Cows. o. 1	Ave. Ibs. Milk. 4,139	Ave. lbs. Fat 163.8	Ave. Value. 72.62 101.90	Ave. Cost Fee 31.85
2 5 3 5 4 5	4,738 6,202 6,397	225.3 275.2 291.4	124.19 130.94	
5 5 6 2	5,027 4,165 5,439	233.1 171.7 227.6	106.17 76.04 102.65	41.59
7	9,113 5,098	312.5 222.4	140.64 96.61	99.89
10 3 Average 4.2	8,509	327.1	148.43	66.90 60.06

Increase Expected in Quebec J. C. Chapais, Assistant Dominion Dairy Commissioner.

HAVE beeen asked to write my im pressions as to the prospects for dairy production in Quebec for the next season. Speaking more specially crat season. Speaking more specially of the section of Eastern Quebee, with which I am more familiar, we have some reason to hope for a profitable season. Our dairy cattle are in good condition, having been amply fed with plenty of hay. Hay is the only plenti-fal crop that we had last year. On ac-tion of the season of count of the very wet weather during having time we had not what we could call a whole crop of good hay, but nevertheless, a great quantity of it was at hand and our cattle could thrive on it. The second reason why we may hope a good quantity of milk next summer is, that we are increasing the value of our dairy cattle through the organization of cow-testing associa-tions, and the third is that, through tions, and the third is that, through our farmers' clubs, we are getting, from year to year, better and more pure bred dairy bulls, which enable us to increase the number of good

cows. We had, in 1917, over 11,000 more cows than in 1916. As our farmers are raising more heifers in the past are raising more helfers in the past three years than they used to, we have good reason to hope that we will have in 1918 many of those young helfers giving their first calf and so increas-ing the number of milch cows and the quantity of milk.

the quantity of mink. The production of butter in Quebec decreased by 639.182 lbs. in 1917, as many butter factories were converted into cheese factories. This explains why, against the decrease in butter. we are enabled to oppose an increase of 5,498,456 lbs. in cheese. We do not suffer, in our province, from the com-petition of milk condenseries, so that all our milk is either spent for home consumption or converted into cheese and butter.

and butter. The wholesale price of butter per pound has shown in 1917 an increase of \$0.07, and that of chease brought us an increase of \$0.025, compared with those of 1916. The dairy pro-ducts manufactured in Quebec in 1917 reached a value of \$27.562.066, boing an increase of \$5.041,286 over that of 1916

Hoping, as we do, to have, if the Hoping, as we us, is nave, it have temperature of next season is favor able, a probably better production of cheese and butter than last year, we know that their value will entirely depend on the market.

Eastern Ontario Prospects Bright G. G. Publow, Chief Dairy Instructor. G. G. Publow, Chief Dairy instructor G facts from which we estimate production all point to increased efforts on the part of our dairymen to increase the output of dairy products in 1918

Probably at no time in the history of dairying have conditions surround ing this industry been more hampered. The labor problem is more nampered. The ver before, in spite of prefer-ence granted farmers in exemption from military service. The market value of all food stuffs upon which cattle are fed is exceedingly high. but fortunately available in most dis tricts. The cost of raw materials used

page 10.) Ave. Ave st Feed. Profit 31.85 64.57 41.59 99.89

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to be used as means of pro of milk. His yield at least

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

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What Shall We Put in the Silo?

If Com, it Must be Southern Com, but there are Several Good Supplements and Substitutes-By F. E. Ellis, B.S.A.

"A LL of the seed corn that will come into Can-ada this year will be of the Mammoth south-ern varieties," states Seed Commissioner Clark, with authority and emphasis.

Clark, with atchority and emphasis. "All of the seed corn produced in south-western Ontario must stay there," is the substance of one of the numerous Orders-in-Courcil emanating from Ottawa

Othawa So what are the enaliage growers going to do about 187. It is plainly a case of dopend on southern seed or look up supplements and substitutes. For-tmately there are several good substitutes for corn as a slage crop and several of these may be used also to supplement the corn in filling the silo. The substitutes are several of these the silo. also to supprement the corn in hing the silo. The situation may be serious, but the problem is by no means unsolvable. In fact, our inability to get seed corn of the usual varieties and types this year may be the means of giving us a liberal education in the

Core on the second seco

the southern variety known as Eureka Ensilage

Advantages of Mammoth Corn.

Advantages of Mammoth Corn. "This southern corn produces a very heavy crop." said Nr. Mailory in tell-ing why he preferred the mammoth type. "I can easily grow three times a much corn per acre as with the earlier maturing varieties. This is of particular advantage if a person is compelled to grow his corn on a small acreage. Occasionally if will ripen, but this is rare, and depends on a good long season. One of the diffi-culties that I have met with is the handling of the stubble the following year, especially if sowed in hills, but this can be partially overcome by sowyear, especially if sowed in hills, but this can be partially overcome by sow-ing more thickly in drills, and I am not sure but that this is the best system in any case. If sowed thilly or in hills, it fakes a very strong binder to cut R, but con the other hand too thick a seeding is not as strong in the state and more set to: strong in the stalk and more apt to blow down

"Does your Eureka corn make as good ensilage as the smaller varieties?" we asked Mr. Mallory.

Mr. Mallory was somewhat undecid-ed as to this He said that possibly the enslage was not quite as nutri-tious and yet he had no way of tel-ing for sure He was certain of this, that the extra amount of feed gotten that the extra amount of feed gotten off an acre mo e than made up for any lack in quality per ton. He looks upon corn as the chief succellant feed, to be used as a filter, rather than a means of producing a large quantity of milk. His corn crop, he said, would yield at least 20 tons of enalisace per Atre, and occasionally considerably more

Messrs. Flatt and Tracy also grow Eureka ensilage, but Mr. Tracy is the

only one of the three who grows it alone, both Mr. Mailory and Mr. Flat preferring to plant half and half with earlier maturing sorts. This year, how-ever, when earlier sorts are not available, Brither will hesitate to use the southern wardle, Brither and he grows tremendous crops at "Hamilton Parama". All three of these men, however, are in good corn districts. But there are thousands of allos in sec-tions removed, from the influence of the lakes, and in e other provinces that are not so yell adapted to tions removes, from the innuence of the lakes, and in other provinces that are not so well adapted to corn growing, and the owners of these siles will balk at using big immature corn and these men will be glad to welcome a good substitute as a silage crop

"O. P. V." Ensilage.

"O.P. V." Ensings." The most likely substitute for corn in Canada is "O.P. V." ensings. This crop was first introduced into Canada by Prof. J. M. Trueman of the Nova Scotta Agricultural College. The climite of Nova Scotta is such that it was found that a good corn crop was secured on the college farm in only about one year out of four. Experiments conducted dur-ing the last four years indicate that a mixture of oats, peas and vetches is certain to produce a good crop servy year and under produce rationate that an produce large yields. Prof. Trueman writes Farm

and Dairy regarding his experience with "O. P. V."

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Water Ash Protein Carbohydrates	1.59 2.31 23.42	Corn Silage (No ears formed.) % 80.00 1.42 2.37 15.33
Fat		.88

"It will be noted that the O, P, V; contains alls per cont. more dry mark-ter than the corn. The untrients in 100 lbs. of the O, P, V; area, 27.60, and in the corn 19.68 or an advantage of 7.92 lbs. In favor of the O, P, V: These figures are obtained by multi-plying the fat in each case by 2.35; and adding it to the protein and car-holter of the second s "It will be noted that the 'O. P. V.' bohydrates

The green material was cut just "The green material was cut just as the cats were about ready to enter the dough stage, before they began to turn yellow, and was put into the slio through a regular slage cuttor. It cured well in the slio and came out in excellent condition for feeding. The own and young stock is thinking the stock of the stock of the transmission of the stock of the st cows and young stock ate it readily there was no waste except what spolled on top before regular feeding

"Although, as shown shows, the '0, P, Y', contains more face, per 100 Hz, than the corn_athat is not its greatest claim for a place on th'. Nova Scotta farm, The best point in its faror is its certainty of producing a good yield in the great majority of seasons. It is suited to the climate of the Marithme Provinces and will grow well when many other crops would be almost a "Although, as shown shove, the 'O. nany other crops would be almost a failure. Furthermore, the labor re-quired to grow it is much less than for corn or for roots. Prop.rly handled it promises to make a valuable addi-tion to the feeds that can be grown



This Sile Must be Filled-but with What? Seed corn may not be available and the variaties available may not be advisable. There is all a side uses of choice-oats pees and vertices, the covers or combinations or these. The various substitution of an applements for corn as an enaitage crop are dis-cussed in the article advisable.

was begun.

No. 15

for the dairy cow in sections where corn is not a sure cron

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for the dury cow in sections where corn is not a sure crop. "We have secured the following yields per acre of 0. P. V. for the part three years: -164, 14 tons; 916, 960, 108, 137, 16 tons; 9167, 160,

on a small experiment in growing and enailing 'O. P. Y' mixture. Results were very satisfactory, so much V. mixture. Results were very satisfactory, so much so that, during the past summer, a large stave silo, 16 x 30, was erected and filed to about two-thirds its capacity, which is 108 tons. The mixture con-sisted of O. A. C. No. 72 oats two and a half bushels, Prince Albert peas three-quarters of a bushel and common yetch half a bushel. It was sown at the rate common vetch half a bushel. It was sown at the face of three and a half bushels per acre. Owing to the backward spring, seeding was done on June 6th, a month later than for the three previous years. The crop was grown on clay loam well manured. The

yield produced was an average of 10 tons per acre. The cilo was filled the first week in October. In addition to the 'O. P. V.' mixture, frozen spring wheat, oats and immature peas were utilized for ensilage. This latter does not produce quite as good a quality of ensilage, but it was good enough to a quality of ensuage, but it was good enough to justify utilizing it in that way. In New Ontario, where early fall frosts sometimes influre late sown , the silo provides a means of handling it to advantage. Weather conditions during early good advantage. good advantage. Weather conditions during early October were such that it would not have been pos-sible to make hav out of the material put in the sible to make hay out of the material put in the silo, hence the advisability of having a place to store the green fodder to advantage. "The cost of producing 'O. P. V.' for ensilage is no greater thank rowing mixed grains, and very often

a farmer can produce a heavier yield per acre by seeding after the ground is well warmed up. Germination is better and growth more rapid than with the early sown grain. I think we must class 'O. P. the early sown grain. I think we must class O, F', V', among the cheapest feeds produced on the farm. 'O, P, V,' does not require the cultivation that corn 'O. P. V.' does not require the cultivation that corn does, and, by using a grain binder for cutting it, handling is comparatively easy. The cats were in the firm dough stage at time of cutting and peas and vetches fairly well podded, although-not as far advanced as the cats. Growth was very rank, the astrong-stemmed oat gives best results along with a long-wined pea, and the common vetch. The en-

silage has kept exceptionally well; it is sweet and shinge has kept exceptionally year, it is exceed and palatable. The stock eat it most readily. Results so far obtained most certainly justify further and greater experiments in growing 'O, P. V.' for enailago

sliage." Experiments by Dr. Zavitz. Dr. C. A. Zavita, .t Guelph has for seven years been conducting experiments to dotrimine the beet grain mixtures for the supplying of green feed or the filing of slips. A study of the results of his experiments show that pees and oats gave the high-top of the study of the seven the seven the seven the study of the seven t experiments show that peas and oats gave the high-est yield per acre of eleven different mixtures in each of five of the six years. Vetches were not included in any of these tests. In each of sover years, nic-different proportions of oats and peas for fodde-production ware tested. It was found that the best satisfaction was obtained from the use of two bunches of oats and one bushel of peas per acre and the average annual yield from this mixture was 9.3 tons average annual yield from this mixture was 9.3 tons of green fodder. "it is formoritant," any Prof. Zaviz, "to use varieties most suitable for growing in com-bination if the best results are to be obtained. It has been found that a vigorous growing oat with comhas been found that a vigorous growing out with com-paratively stiff struw such as the American banner, or the O. A. C. No. 72 and peas with long ielender vines with the pods well distributed, such as the Golden Vine, the Multiplier or the Prussian Bine varieties give good satisfaction when grown in com-bination. The out fodder is a bundant in carboty-

(Concluded on page 12.)

The Question: Shall I Buy a Milking Machine?

The Answer: It will Return a Profit of 15% to 50% Annually and do Efficient and Satisfactory Work. A Conclusion Based on Five Years Experience with Several Makes .- By E. S. Archibald, B.A., B.S.A., Dominion Animal Husbandman

OW many Canadian dairy farmers

H dow many Canadian darry farmers have carefully considered this question? The mechanical milker is, above all, designed as a labor saver and must be considered in the same light as such implements as the mower, the binder, the gas engine and similar labor-saving machines already univer-sally adopted on the farm. Such being the case, let every man carefully sider the milking machine as applied to his own farm, for it may help to fill the place of that boy or man who has gone to the front, or it will allow the present help to pay more attention to work other than milking, thus increaswork other than mining, this intreas-ing the farm output and profits. Before any farmer sells out his breeding of cairy cows on account of labor or feed shortage he should consider carefully

 Jordage he should consider carefully these three things:

 The boys in the trenches and the average citizen of England are hun-gering for milk, butter and cheese.
 The enormous demand for breeding stock for several years after to wat will make the re-establishmound inon.

 difficult and expensive proposition. a difficult and expensive proposition. a. Labor-saying machinery, especially the milking machine, will allow the main-tenance of present production with less help and thus allow us to "do our bit" at homfe and do so at a fair margin of profit with even greater profits in view for future years. There is no doubt that

for future years. Increase ho would that help of the dairy farm is the greatest problem at present. On many such, an extra hand is necessary for the milking. The mechanical milker has an atfor the milking The mechanical milker has an at-traction for many nea, boys, and often girls who do not like the routine of hand milking. Again, here are, and will be many, partly disabled returned chinery. The utilizing of such help is a sound pro-position and a national necessity.

The Milking Machine' a Good Investment.

"I cannot afford a milking machine," is the state-"f cannot arora a miking machine," is the state-ment so often heard, yet evidence is everywhere at hand to show that a good miker, properly handled, will return from 15 per cent, to 50 per cent, per annum net profit on the investment, which profit is cidentally is far more than is realized on 86 per cent of our cows.

The cost of installation naturally varies with the size of he 1, the arrangement of cows, the particu-lar machine chosen, etg. etc. An average of the five best makes of milkers found in Canada shows a cost of installation of about \$400, including power for an outfit large enough to milk three cows at once. This is sufficiently large for milking a herd once. This is sufficiently large for milking a herd of 25 to 30 cows. An extra unit costing an average of about \$100 will give ample equipment for a 35 to 45 cow herd. The larger the herd the less the cost of equipment per cow, but even with the small herd of 12 cows the cost is only about \$25 per cow. The annual cost of operating a three single unit milker in a 24-cow herd is about \$150, this cost being based"on present prices for smaller or other

based on present prices for gasoline or other



The Milking Hour in a Large Dairy Near Ottawa.

seems no reason why any intelligent Canadian dairy farmer should not adopt a good type of milking machine, and not only find it an excellent investment, but a a good type of mining machine, and not show only more work on the farm so often con-hired man always ready and willing to do this routine work on the farm so often con-sidered drudgery." This is the conclusion to which Mr. Archibald has come after sidered drudgery." five years' experience with milking machines.

> power, labor in caring for engine, labor in daily washing and oiling machine, repairs, 6 per cent. interest on investment and 10 per cent. depreciation.

> This is a charge of 1% c per cow per day. Hand mliking at present value of labor costs over 7c per cow per day. On the other hand, one man, or even a woman, or boy can, with a three-unit machine, milk 24 cows in one hour at a maximum cost, includ-ing the 1% c fixed charges, of 4% c per cow per day. This is a net profit of 35 per cent. on the investment, and is so proven on hundreds of farms in Canada. Can any Canadian dairyman afford to overlook this proposition

How Many Units to Install?

Whether the single or double units are purchased is a matter of choice. One thing is certain, namely, -that only an active able-bodied man can handle double units to best advantage, and though the cost is greater, the single units should be chosen for women or boys. The rumber of units depends on the women or boys. They inner of units uppends on the number of cows to milk and the number of hands milking. One good man is capable of handling three single units and weigh the milk and strip after the machine. This may be a fair basis for calculation. Maintenance of the Machine.

Maintenance of the Machine. As with any piece of machinery, the milker must be kept in order. The simpler the machine and the more durably constructed the less will be the lakor and cost of maintenance. Special emphasis should be laid on keeping the pulsators offled, the pump and engine working smoothly and the rubbers of test cups in good repair. Generally speaking, the milking machine is not more difficult to keep in

shape than the cream cream separator shape than the cream separator. The common argument against milking machines is the numerous out-its discarded. Hundreds of Canadian farmers have used all the best milkers farmers have used all the best milkers for yoars and continue to jeet the best of asthfaction therefrom. Common sense, careful treatment is all that is required to guarantee efficiency. <u>Efficiency in Wilking</u>. If any good milking machine is kept in proper order it will give excellent results both as to cleanithers and milk

results both as to uniformity of miking. In fact, after many years experience with various types of machines we have found that the mechanical milker pro-perly handled is preferable to the aver-age available hand milker. Any good age available hand milker. Any good machine is reliable and break-downs are exceedingly rate. Gows do not de-crease in their milk flow more rapidly on the mechanical milking, especially if the practice of stripping after the milker is conscientiously followed. Gen-metric mechanism and come which here erally speaking, old cows which have been accustomed to hand milking are sometimes liable to retain consider-able milk, and the hand stripping is not only profitable in this case, but is a guarantee against udder trouble. However, helfers brought up on the milker will, as a rule, milk out quickly and fully as clean as with hand mik-

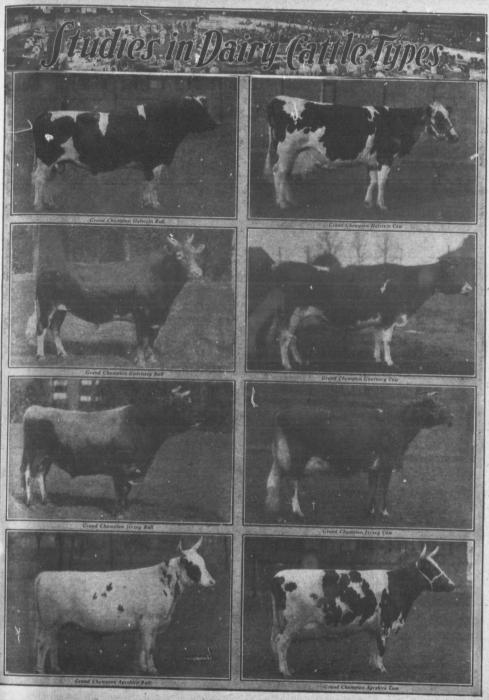
ing. It must be remembered, however, that the con-dition of the milker and the efficiency in handling regulates largely the thoroughness of milking.

Effect on Cows.

Effect on Cows. So often we hear reports of the milker having in-jured cows' udders that only after many years care-ful experience are we sure that this is due to care-legs handling of the milker or that the machine is of any description can be traced to the mechanical milker in the herd on the Central Experimental Farm where the cows have been milked by various types of milking machines during the past five years. If of miking machines during the past five years. It the guinators are kept in good condition and the rubber inflations sound, no farmer should have udder trouble from the use of the miking machine. Prinally, there has been a prejudice against mills -ers, owing to the fact that some which has not the mineminess or the kamping mailties of word has

mining machine process arms of the good had cleanliness ore the keeping qualities of good had milking. After careful research in this subject it has been found that, providing milking machines are carefully rinsed and scaled and that the robber parts are kept in the standard atterilizing solutions parts are kept in the standard aterilizing solutions commonly advocated by milkise-unachine companies, there should be no difficulty in producing milk which is decidedly cleaner than that of average hand milk iny. The milking machine, however, must have special care in washing and sterilizing, this being even more important than the washing and sterili-ing of the cream separator or other dairy utensits which have an ember parts. April 11.

April 11, 1918.



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FARM AND DAIRY

Shall We Make the Dairy Farm Self-Supporting? Or is There Greater Profit in Buying a Large Part of the Concentrates?

AXIMUM net profit is what the dairyman de-tires for his farm, and how to secure that mark-mum profit is the bidgest problem in success-ful farm management. Will the year's showing be most satisfactory where the stock as africity limited in number to the ability of the farm to feed them, grain ration and ail, or will the returns be increased by carrying the graetest number of stock for which roughage can be produced and buying practically all grain feeds and concentrates? Or is there a height maximum? These questions outline the prob-bem and on its correct solution depends the degree of financial succ as it every dairy farm elterprise. Thus

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dairy farm ei.terprise. Illus-trations are not lacking of success under all systems of management, but perhaps one of the most outstanding ex-amples of success with the

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amples of success with the buying system is found on a 50-acre dairy farm in one of the states to the south of us. This is a "square fifty." Every foot of it workable and has been described to us as "the richest land out-of-doors." The buildings are located right in the centre of the farm and their prinof the farm and their prin-cipal feature is the large bight periods we take. Only gumber of produced and that one corn for the sile. The cover are never allowed out of the stable from the day they are purchaffed until they are sold to the butcher. The roughnage ration is largely corn silage. All of the hay is purchased and every pound of grain or meal. There is only one product sold_-mar-ket mits. The farm is paying all running expenses, a big number of stave silos. Only all running expenses, a big salary to the manager and all big dividends to its owner.

big dividends to its owner. This is an extreme case of depending on the market rather than on the farm for feeding stuffs. The farm is favorably situated for the supplying of city milk and by buying feed in carload lots the manager zets an advanby buying feed in carload lots the manager gets an advan-tage in price. There is no question, however, but that such a system is not so pro-fitable to-day as it was a few years ago. The high price of eding stuffs would see to at. Even on more diversithat. fied farms many dairymen find themselves hard pressed by the high prices of purchas-ed feeding stuffs and are looking around for a system that will largely eliminate feed bills. The farmer with an abundance of pasture will find this easy. It is just a and this easy. It is just a case of getting into summer dairying and then carrying the cows through the winter on roughage and roots with perhaps a little home-grown chop. The system, however, is open to the serious objec-

chop. The system, however, "minute and reduct as a open to the serious objection of the serious objection of the series objection of the series objection of the series of

that the variety of corn that gives the largest yield of shelled corn with big tables and little gain does not a share. Corn with big tables and little gain does not analy the share wanted when feeding without concentrate. Be sure that the corn is fairly well matter before it goes into the site. The share well matter before it goes into the site produces milke the root economically is alfalls har, corn share, and good parsbred memory, consting caives and all practically prohing but stafals har, corn share, and so the share of the share of the share of the best of parsbred memory, consting caives and all practically prohing but stafals har, corn share, and pasture. The small amount of oll meal bought

the give you the fat records. All of these cows, ex-cept three, were born and raised in our own barn under our system of feeding. The three were bought as calves.

April 11, 1918.

as calves. "Three 5-year-old cows averaged 414 lbs. of fat, producizg 54 lbs. more than the requirement to enter the Advanced Register.

"Three 3-year-old cows averaged 363 lbs. of fat,

"Inree ayear-oni cows averaged av ios of fat, producing 56 lbs above the requirement. "Ten 2year-old helfers averaged 231 lbs, of fat, producing 71 dbs. more than the requirement for entering the Advanced Register "Besides producing the above amount of fat each

of the above animals carried a calf from 6½ to 8 months, and were milked only twice a day. "These records, while noth-

"Tness records, while noth-ing unusual about them, speak volumes for more conomical, safer, and more practical feeding. I know that much heiter records can be produced by high feeding of concentrated feeds but the expense will be greatly in-"We feed alfalfa the year

around; also silage when we have it. When on pasture we feed alfalfa evenings and si-lage in the morning. When without silage we feed alfalfa twice each day at milking time. During the winter months we feed 25 lbs. silage in two feeds per day and not only all the alfalfa hay they will eat, but enough more so that we get practically all of our horse hay from the cows' mangers. Horses pre-fer to eat the stems as much

as the cows do the leaves." The experience of Mr. Michels, that cows can be made to produce profitably with but little grain, finds a Canadian parallel in the ex-perience of Mr. Henry Glen-dinning of Ontario Co., Ont In his Jersey herd Mr. Glen-dinning hear made verdinning has made very satis-factory records with nothing aut alfalfa and corn silage. But which plan is most ad-visable in Canada, or what combination of both plans? We submitted the question to Mr. Leitch, the farm manage-rient expert at Guelph, to Prof. H. H. Dean, who runs i dairy farm as a sideline to his college duties, and to Prof. J. H. Grisdale. Mr. Leitch preferred to withhold his decision as a farm sur-vey in Oxford County is in contemplation, which, he an-ticipates, will afford conclu-sive information on this very point. Prof. Dean replied as follows:

Opinion of Prof. H. H. Dean. "As a general proposition, I favor growing feed on the dairy farm, though at times it is necessary to purchase, especially concentrated feed.

There are also times when it is to sell home prove briefs and provide the self home provide the self home self home provide the self home self home provide the self home s

shippers.

"There are, no freight, express, or commission charges to be paid, hence these are saved—a dollar (Continued on page 14.)

Husky Youngsters Reared Largely on Skim Milk and Alfalfa Hay.

Allow good breadery reas their calves with practically no grain, photing their dependence on a them will be a state with cover and seed to be a state with a state of the sta

would only amount to from \$56 to \$60 a year. "The bileve it is suffrain practical to get along with-out parting a single dollar for any freed. We can be used to be along the second strain the second train with a nume crop of barley or asis. This will give us a little grain for variety's asks and 1915, we reserved on alfalts fields and had no avect clover for seed, using the chaff for bedding. "We have had very satisfactory returns from our oncentrate. Our owns and heffers in milk have oncentrate. Our owns and heffers in milk have storing barley of barley of the train of the second ball of our stock without grain or other oncentrate. Our owns and heffers in milk have storing and ballow \$100, and for the past sec without all chimmilk was fed to our calves, pigs, and blokes.

chickens.

Good Production-Little Grain. "Since we have been having our cows semi-official-ly tested for a number of years, it may be of interest



April 11, 1918.

1918

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FIRM AND DAIRY

(7)



By the installation of a system of tile under-drainage, Parnham Allison is making his farm wonderfully productive.

In the field illustrated on the left where formerly corn couldn't be grown, large crops have been harvested since drainage has been provided for. The field on the ris was of no value as a grain producer in its undrained state, but after tile were put in excellent yields of grain have been secured. The crop illustrated is O. A. C. No. 72 on which averaged 90 bushels per acre in this 14-acre field.

A Small Dairy Farm That Brings in Large Milk Cheque

How Parnham Allison has Eliminated the "Slacker" Fields from his 55 Acre Farm, with Something on the Crops th Make Possible a Yearly Average of 300 Gallons of Milk Per Acre-By S. R. N. Hodgins, Associate Editor

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Practices Four-year Rotatic

As much of the success of the dairying on this farm is due to the cropping methods followed, we cannot do better than take a hasty glance at the farm prac-tice of Mr. Allison. He has based this on a four-year rotation under which comes the whole farm outside of his alfalfa field, for outside of his alfalfa field, for every acre is now tillable and tilled. His plan is to have one-quarter of his farm each year in heed crop-mostly corn of which he grows from 10 to 12 acres, one-quarter in oats, O. A. C. No. 73, or a mixture of early oats and huley "mandhes down" with and barley, "seeding down" with all grain, a quarter in clover hay and the quarter in pasture which was in hay the year before. The pasture land, broken up in the fall, while the cows are gather-ing the aftermath off the hay fields, receives the winter's man ure and is ready to produce a good corn crop next year. The farm is clay loam and has been found to produce better crops

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fall while feeding roots liberally, he cut down I meal ration more than half, and his cows milk better than they did at any other time during t

better than they did at any other time during the year. The section of the farm on which grain must grown in order to "seed down" the fold in its up in the rotation; is of sufficient size to provide the respectable quantity of oats or oats and hear for use as the foundation of the grain ration. While the acreage is not large the crops are, because the high fertility of the land, resulting from year of legume growing and of burying in concentrat feeds. Mr. Allison has his own thresher and as a threshes he cuts the straw and blows it into it most for use as bedding. He has followed this pre-tile of cutting the straw for 10 or 12 years and flar H acaks up the liquid better and that the manus when cut straw is used works into the root grows to better advantage. Alfalfa Will Save Meal.

Alfalfa Will Save Meal.

to better advantage. Affaifa Will Save Meal. Bestdes the large crops of clover hay which I grows Mr. Allion is getting a start in alfaifa gro-ing. Three years uso he sowed an acre and a ha of terium and accurd a fine stand, but an icy wi-put in six acress of this out. The next year I ut and accurd a law of the sowed and heat and the same of a start and the source and heat a turns crop of oats on lawd ing pittor-culture and the source of the sowed and heat "the drahned. A good stand was secured and heat "the at the first cutting and six loads at the second of time. A year ago last fall Mr. Allion top-freese half of the field with four loads of manure and 35 bis basic slage per acre. The crop on the part than the other during the following season. He fou that he gathered at least a third more loads per ac of this part of the field, so the whole field was trated in a similar manner is fully a the seathered at least a third more loads per ac of this part of the field, so the whole field was the field in the similar manner is the start of the field with the seathered at least a third more loads per ac of this part of the field, so the whole field was the start of the field with the seathered at the similar manner is the start of the field with the start of the field was the seathered the similar manner is the start of the field was the seathered start of the field was the seathered the similar manner is the start of the start of the field was the seathered the similar manner is the start of the start of the field was the seathered the similar manner is the start of the start of the field was the seathered the similar manner is the start of the start of the start of the start of the field was the seathered the similar manner is the start of the field the start was the start of the field the start of the field the start of the start o

fall

Mr. Allison's experience wi alfalfa as a milk producer lea him to think highly of it. Wi alfalfa and roots he can mai milk even without corn. ... present he has to buy a lot meal, but is hoping that by ra ing alfalfa and roots and fee ing these with, well maturi corn silage, he will be able ingreity cut down on his me bill. In connection with it favoring of concentrates, M Allison says: "If I had I Allison says: "If I had acres I would try to raise enoug extra crop such as wheat as beams to pay for any conce Mr. Allison's experience wi

extra crop such as wheat as beams to pay for any conce-trates I might require." The wakeset point about small dairy farm is the lack. Mark and the overcome the Mr. Allhon a year ago the Spring sowed siz acres of spring sowed size acres of sp expectations, the cattle appeare (Continued on page 28.)



The Attractive Heme of Mr. and Mrs. Parnham Allison.

The visitor to Parsham Allison's farm gets a good impression on his arrival, by the well-kept hawn, and nearly painted buildings. The house has hot and cold water on tap and many other conveniences usually found only id city homes, but it has far mores—it has its location in 'God's great out-of-doors."

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Farm Management

A eries From New Ontario

Uncruce from New Ontario W. Filds temperature of 68 degrees here the series of the series of the series of the series that where the same field of green situation where the series field of series situation where the series field of series where the series of the series field situation where the series field of the series of the series of the series of the farm in the series of the series of the farm in the series of the series and series of here of the servering and and schausting to the hand, the green and series of here of the green series the series of the series and the series of the series of the series of the series of the series will not injure seed grain in the series of the series of the series of the series of the series will not injure seed grain the

 A temperature of 65 degrees be-low zero will not injure seed grain in a bin if the grain is of normal ma-turity and dryness.
 A crop of clover plowed under will necessarily en-rich the soil more than the manure resulting from the feeding of the same crop, unless extra concentrates are fed. 3. Frosted or shrunken wheat ford will not produce nearly as heavy a crop as will normally developed seed wheat. 4. A ton of timothy contains

18.8 Ibs. of nitrogen, 6.6 Ibs. of phosphoric acid and 28.4 ibs, of potash, and the approximate value of these and the approximate value of these elements is 77. A ton of clover con-tains 39.4 lbs. of nitrogen. 11 lbs. of phosphoric acid and 374 bbs. of poi-cash, with an approximate value of \$13.7 this value is high now as com-pared with normal times, due to the almost prohibility price of potash. 5. The sails of hay, sepschally clover, off the land, will not exhaust the for-tility of the sedi as much as the sails of cereal grams...A. Leich, O.A.C. Guelph

Winter Damage on Wheat

V ERY shortly or wheat farmers V ERY shortly of wheat farmers will be able to tell to what ex-tent the sleet storms of the passing winter have damaged the passing winter have damaged the wheat crop. Probably there will be some damage, and such so there is will be irreparable—for wane ice in-jures at all it smothers the crop completely.

From now until the frost is out of From now until the frost is out of the ground winter wheat faces a new dangee—that caused by alternate freezing and thawing of the surface soil. Winter injury of this kind sol-dom kills a field in total, but rather weakens individual plants here and final result may be almost to injury. From now on the problem on the

FARM AND DAIRY



Fertilizer Gives the Wheat a Fresh Start. An application of Fertilizer will increase plant tillering. Act 5-No Pot 11-Acid Phosphato. Pot 9-Am moniated Superprosphate. Fertilizer

Looking Over the New Fence

A farmer is justified in feeling proud when he shows his neighbors his new FROST fence. It stands up there as "straight as a ramrod" and as spic and span as a soldier on inspection parade.

Its perfectly put on locks, and precisely straight and even spaced stays-its splendid outward appearance-are indications of its staunchness and goodness.

Years of service on many thousands of Canadian farms, with tremendously severe tests imposed on it, attest to its enduring stamina, and confirm all we have said about FROST fence as a lasting investment.

The FROST Company have always had one thought in mind-to build FROST fence so well that buyers of it will come back again every time they require new fence.

Our greatest asset is the great and ever increasing number of FROST fence customersan army of boosters for FROST QUALITY.

If you were to visit our mills and see how we make and galvanize the wire-how we put that peculiar elastic wave into Frost laterals-how carefully the locks are applied without kinking or weakening the laterals—you would have a pretty good idea why FROST fence is FIRST in quality, in service and in value. The next best thing is to see one stretched up on a field or to examine one at a FROST dealer's. If you don't know a nearby dealer, write us.

A style for every purpose.



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April 11, 1918.

wheat farm is to make these condientralizad.

Rolling the wheat field helps-it Rolling the wheat field helps-it pressess the moist soil close to the young plant and prevents it from drying cut. Light harvowing also helps-if dono with judgment and not too estiluw whichly. More important than sither of these, however, is the supply of available plant food-for available plant ford encourages the production of more tiller; and more roots, thickens up the stand and increases enormously seed-bearing stalks. the number of

Perhaps no vhere is this better abown than in work done by Profes-sor Grantham (Delaware Experiment Station Bullstin No. 117), in which it is shown that ammonia and phosphor'c acid are the two elements most effective in producing tillers. The drawing taken from Professor Grantham's bulletin illustrates how fer-



How Frost Injures Wheat.

stand. and repairing the FAVAGOR exused by the winter. Furthermore, the bulletin shows that the amount of the pulletin snows that he amount of tillering is very nearly in proportion to the amount of fertilizer applied— and the yield Bkewise in direct pro-portion to the tillering.

Increase Cost of Production N indication of how rapidly the

A net of producing agricultural products is increased agricultural inshed in a statement that has how used recently by Mr. J. B. Wilson, a well-known duffyman of Leeds cour-ty. This statement shows the cost of farm machinery in 1918. The figures are as follows:

	Prices	Prices
Farm Machinery.		1918.
Manure spreader	\$133.00	\$194.00
500-3b. separator	78.00	97.00
12-plate disc harrow.	30.00	57.00
4-soction harrow	18.00	29.00
13-tooth cultivator	40.00	71.00
Corn cultivator	60.00	102.00
13-diesc drill	90.00	128.00
6dt. mower	58.00	90.00
10-ft. rake	33.00	54.00
S.D. rake	70.00	117.00
Hay loader	70.00	107.00
Hay seeder	50.00	77.00
6-ft. binder	145.00	212.00
Blizzard cubter	145.00	225,00
Wagon, complete	80.00	120.00
Plow	14.00	20.00
Roller	45.00	75.00

The percentage of increase in the cost of production is 50.98 per cent. Has the price of farm products to the farmer increased in proportion?

The Commission of Conservation working in cooperation with the dis-trict representative in Dundas Co., trict representative in Dundnas Co., Ont., have been carrying on ilkustra-tion darm work with a view to mak-ing that county a model farming dis-trict. A gamphict entitled "Hand-book for Farmens," has been publish-ed for circulation in the county and a fow hundred copies are available for essent distribution to boan faic farmens on application to the Com-mission. FARM AND DAIRY

Growd more into the busy day

EVROLE

THE Chevrolet 490 is an investment, not an expense or luxury. Doctors, business men, farmers, salesmen and ladies-all should use the Chevrolet Four-Ninety and crowd more energy, activity and business into the busy day.

The Four-Ninety stands unchallenged in its price class. The electric starting and lighting equipment is most efficient. The car is powerful, roomy, comfortable and economical. The time gained by operating a Chevrolet more than pays for the cost. There also are two larger Chevrolet models on display at the dealers.

CHEVROLET MOTOR CO.

of CANADA, LIMITED OSHAWA, ONTARIO

MODEL 490-A \$825, f.o. b. Oshawa

There is a Chevrolet Show Room in your vicinity. Call and see the latest Chevrolet Models

IF YOU DON'T FIND IT, WRITE US Occasionally readers of Parm and Dairy wish to secure the ad-dreas of manufacturers of farm or household cutionnen, but are not able to locate it in our pares. At any time our Advertising Dept. At any time our Advertising Dept. Will be pleased to give you any in-formation of this nature. Write us freater. ADVERTISING DEPT.

FARM & DAIRY, PETERBORO, ONT.

T HE business survivors are the good advartisers. But good advar-tising is not chiefly the putting forth of strong advartisements. Advartising is worse than useless if the goods are not as strong as the advartising. Survival is founded on bedrock quality. Good ad-vertising must rest on that. Test the advartising in Farm and Dairy by that severe 'tandard, in actual purchase. We guarantee the integ-ity of every advertises in this isses, and believe they will stand the feet. Try them and see. When writing, say 'I saw your advertisement in Farm and Dairy."

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PEERLESS SPAN GATE

THE gate pictured below is a companion to the Peerless Perfection farm fencing, strong, durable, with heavy tubular brace, which stiffens it like a steel bridge. It swings true and rigid as an oak door hung by a master mechanic. Lateral and upright wires securely clasped at all intersections and stretched upon a strong rigid frame of subular steel electrically welded into one solid piece.

FOR LOOKS. WEAR AND SERVICE

In appearance a Peerless Gate says: "I am guardian here." For durability it is of heavy open hearth steel wire, galvanized and can't rust at any point. For service it is put together to last a lifetime and is the cheapest, **best gate** made. You will be interested in our **Catalog**.

Write Today for Literature

describing all our many styles of Gates, all kinds of Farm and Foultry Fencing, etc. Dealers nearly everywhere. It will pay you well to get acquainted with Peerless Perfection standard of construction. Write today.

The Banwell-Hoxie Wire Fence Company, Ltd. . Man Hamilton, Ont.

The Deering Manure Spreader Light Draft - Wide Spread

LOAD of stable manure is no light weight. Matted with bedding and litter, it is no casy job to tear it into small pieces for the kind of spreading that good farmers demand. Yet No. 8 in all ordinary going, and will get the load off in a good vene coat in three to four minutes. With its light weight, interpret the second state of the second state of the rame, the Dewing is a very light draft machine. The work of taking up the manner is divided between two besters, one of which is a spiral that makes this Dewing spreader a wonderfully efficient fertilizing machine. It spreade beyond the wheel track. It covers the ground minor of the state spreader is the spiral that the second spreader a wonderfully efficient fertilizing machine. It spreade beyond the wheel track. It covers the ground multiple of the state spreader is the spiral that the spiral the spiral of the spiral that makes this Dewing spreader as the spiral that makes the former a machine uitable for his farm - No. 3, 49 bushelst No. 5, 53 bushelst No. 6, 63 bushels capacity. See the load cleafer or write the nearest branch house for illustrated catalogue aboving all the good farmers of this Dewing light draft, wide-spread margure greader. Errational Harvester Company of Canada, Limit it is no easy job to tear it into small pieces for the

International Harvester Company of Canada, Limited BRANCH HOUSES

WEST-Branden, Man., Calgury, Alta, Edworan, Sak, Lethkridge, Alta, N. Batteford, Sask, Rogina, Sask, Soskatoon, Sask, Winner, Man., Werton, Sask, EAST-Hamilton, Ont, London, Ont, Mentral, Que,, Ottawa, Ont, Quebes, Que, St. Jahn, N.

The Outlook for Canadian Dairving (Continued from page 2.)

(Continued In in the manufacture of cheese and but-ter has materially advanced since last provide the cost of hauling milk and results of the cost of hauling milk and cheese factories in big jump. Mose advancing the price of manufacturing at least oncequarior to onchaid cent per pound. Fuel, too, is more costly than ever and difficult to secure, and streat many have endeavored to secure aught of wood during the winter months to lessen the scarcity of cost. Prom reports received there will be an increase in the number of cows, pos-sibly 10 per cent, or more.

increase in the number of cows, pos-sibly 10 per cent. or more. The question uppermost in the minds of the dairymen of Eastern On-tario at present is the still undecided tarlo at present is the still undecided remaits valuation or prices to be paid for the different producing these produces the cost of producing these produces will be materially greater than in 1917, and the market values should be ad-vanced in proportion. This will do more to increase production than any-thing of which I know.

In Western Ontario

Frank Herns, Chief Dairy Instructor. F OR various reasons a number of the annual factory meetings are

F the annual ractory meetings are being hold at a later date than usual. The attendance in some in-stances at meetings held during janu-ary was affected by unfavorable wea-ther, but on the whole the interest of the patrona is well maintained, and at-though the second second second second second the second sec the parons is well maintained, and al-though the cost of production is in-creasing, most milk producers are op-timistic regarding the future of the dairy isdustry and are looking forward to receiving sufficiently high prices to cover the increased outlay necessary to the season's production. Owing to a further increase in the

cost of dairy supplies it was necessary in many cases for cheese factory pro-prietors to again increase slightly the prices for manufacturing cheese. The patrons, realizing the situation, readily parrous, remining the situation, readily agreed to the increase. The increas-ing scarcity and high cost of tin, boiler plate, etc., will be a big factor in keeping up the usual standard of factory equipment. Conservation where these points are concerned will be necessary. The retuning of as many dairy utensils as possible. will no dubt have to be practised whenever possible. Several cheese factories that turned over the winter milk sup-ply to the condensors instead of makply to the condensers instead of mak-ing cheese will again resume cheese operations in April, and it is to be hoped that a sufficient number of competent men to properly man the factories will be available, but at present a scarcity of factory labor means imminant seems imminent.

Milk producers are, in many in-stances, realising more fully the im-portance of cow testing and inquiries in this connection are quite frequen

Several more cheese factories will likely pay for milk by "test" this coming season, as milk producers are becoming more convinced of the jus-tice of this method of distributing the proaboe

Considerable interest is shown in making a distinction in cream and butter prices in accordance with quality through cream and butter grading

Farm labor is scarce and will be a big factor in maintaining produc of cheese and butter during 1918.

Dairying in Manitoba

L. A. Gleson, Dairy Commissioner. D. A. Gleson, Dairy Commissioner. D. AIRYING in Manitoba is making fast developing into one of the most important branches of our agri-cultural industry. The rich soil and favorable climatic conditions, which favorable climatic conditions, which made Maultoba famous as a grower of high-class grains, is now produc-ing large quantities of dairy wroducts, and the fringe of her possibilities in this line is only touched. As the creatmery side of our dairy brainses is the largest and most important, com-

m page 3.) sequently it is the best harometer to gauge the expansion which is tak-ing place. I might mention that in the year 1912 we imported from East-ern Canada 65 carloads of creamery butter to meet our market require-ments; last year we exported close to ments; last year we exported close to 100 carloads after taking care of our own market requirements, the ma-jority of this butter going to differ-ent parts of Eastern Canada. The production of dary products for 1317 showed a substantial facrease of about 13 per cent. over the previous year, which shows the trend there is towards intessified farming in the Provinces of Manitoba. The of deture products on the produc-tion of detur products dusained produc-tion of detur products dusained produc-tion of detur products dusained produc-

The prospects for increased produc-tion of dairy products during the com-ing season never looked so encourag-ing at this time of the year; if we have a favorable season we should show a considerable increase over

show a considerable increase over any previous year. The condition of the cows through-out the Frovince is very good, not-withstanding the high price of grain and all other necessary feeds. For-tunately cur Province produces large crops of ont, peas and barkey, and these grains, particularly task, are being unce with very satisfactory re-

COOPERATIVE OWNERSHIP OF FARM MACHINERY AND IMPLEMENTS.

Have You Had Any Experience?

T takes a lot of money to buy all of the equipment that is necessary on a farm nowa-days. With part of the equipment, cooperative ownership may afford a means of reducing the capital investment per farm. Have you had any experience with such cooperative owner-ship? For the best letter tell-ing of successful cooperative nership, Farm and Dairy will pay \$3 and contributors rates for all other letters published. We have in mind such equip-ment as farm tractors, corn harvesting and silo filling machinery, threshing equipment and so forth. There is just one condition-all letters must be received in this office by the 19th of the month. Let the rest of Our Folks have the benefit of your experience in coopera-tive ownership.

sults as the main concentrated ration for our mileh cows. Western yre grass, browne grass, through and al-sike combinations make good hay, and are being used advantageously by our dairymen. Green gats and peas make excellent fodder for writer use, cut in the milk or dough stage, either cured as green feed or cut into the allo, produces slage of excellent quality. All these feeds are being accounts for our large wister produc-tion of milk, and the cows coming through the winter in such good con-dition. for our milch cows. Western TVA dition

dition. During the five winter months mem-bers of our Dairy Hranch addressed 65 meetings on topics relating to dairying in different parts of the Province; the subjects disensased were Feeds and Feeding, Dreeding Dairy Cattle, Feeding of Caivee, Care of Milk and Cream, Cow Testing, Grad-ing of Cream, Separation and Cause of Variation in Gream Tests. Demon-strations were given in cream testing. strations were given in cream testing, as well as soft cheese making. The attendance at all these meetings was attendance at all these meetings was very satisfactory, and the enthustasm shown was very marked. Applica-tions are already in for meetings of a similar character to be held next winter

The day is past in Manitoba when (Continued on page 26.)

April 11

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THE McGREGOR BANWELL FENCE CO., Limited, Walkerville, Ont.



FARM AND DAIRY

What Shall We Put in the Silo? (Continued from page 4.)

over clover silage that he told us

made (Crs

drates and the peas are rich in alchinery and sees that this is kept in buminoids. The two when grown in combination form a very well balorder

"In the morning all hands turn in and bunch the grass while it is still wet. This is done by forking two mower rows in one and then putting it in piles of convenient siz horse rake would go quicker, but on small stones. It takes about one hour in the morning to bunch grass enough to last one day. In this man-ner we are able to ensile from six to eight tons of grass per hour."

Supplementing the Oorn.

It is possible, where the value of silage from Mammoth corn might be open to question, to supplement the corn with other crops when filling the silo. Crops that might be used would be second growth clover, third crop alfalfa and a late planted "O.P. V." mixture. Mr. R. M. Holtby of Port Perry, Ont., is favorable to second crop clover. "I have put second crop clover into the silo several times along with the corn," he told me recently when we happened to meet on the train coming up from Toronto. "The clover is bulky, but the corn ensihage weighs it down. We cut the clover the same time as the corn as to be still green along in September. We run it up with a side delivery rake and then start to fill the silo immediately. We keep one team draw-ing in clover and three or four draw-ing in corn. We then get one load of clover to four or five of corn. We do run the corn and clover through the blower together, but just take the loads as they come up. Even then they seem to mix very well and makes better ensilage than straight sames pottor scalings than straight dor. In the past we have enabled dorver when we were short of core. I do not use that Mammoth Bouthers wrest will be a great disalvantage as we have not been getting cars any-way." WRY.

Harding Bros., of Weisford, N.B., whose Heistein herd is well known at all Eastern fairs, propose to use the "O. P. V." mixture in the same way as "O. P. V." mixture in the same way as Mr. Holtby uses his second crop clover. The following is an extract from a letter written by Harding Bros. to Farm and Dairy:

"I would like to know how dairy-men are going to make out with the seed corn problem. I tried to get Wisconsin No. 7, but find we can get wesconsin No. 7, out find we can get nothing but that big soft southern corn, and in looking around I believe I ran werows a good thing. It is this: ot in half the usual acreage of the big southern corn and the other half in oats, pens and vetches. Seed the mixture so late that when your corn is fit to out, the mixed grain is almost ripe or well over the dough stage and then mix the two as they go into the silo. The grain on the 'O. P. V.' makes up for the lack of ears in the corn and the biraw will absorb the julce that would otherwise sour the corn. This stuff, cut at the right stage, is giving excellent results to number of farmers who have used it and if you know of anyone up against this problem, pass this idea along to "them."

In Conclusion

There is no reason why the silo should not be quite as usofal an ac-cessory to the farm this year as in all the years that have passed. As a method of supplying succeilence it is still in first place. The substitution of other crops for corn may mean a dif-ferent ordering of the season's work, torent ordering of the essents work, but the time saved *trow* cultivating will compareste for any disturbance in the established routine. The most of us would rather have core of real-sible varieties, but we will accept the present condition as unavoidable for this season-and plan to know a year's supply of good seed core shead in the fature. year's supply in the future.

April 11, 1918.



uns on coal oil or naphtha. We also manufacture a fuil ine WINOMILLS, Grain Grinders, aw Frames, Pumps, Tanks, Water loxes, Concrets Mixers, etc. Catalogue of any line mailed on support.

GOOLD, SHAPLEY & MHIR CO., LTD. Brantford, Winnipeg, Regina, Calgary. April 1

A Testin

ANA faci tory of farmers, rio, wh a grain c the coun is produc the groun year is

Perhaps aps it v enough to Fortuna

taking th ing. Tes easy way larized by ment of . "The method is the Unite followed cessful gr method, v on the ea the gambl ture, and the rate . justed as The rag piece of m drawn and muslin the central squares wi ber each i knife and extract siz ear. Plac rack or si 0.000 Pro next ear a quare No. No. 1 ear always a their num? samples hi he ears of on that have been of the cloth so as to ho Then roll t cob a bunc terial, tie one and in water. Can the "doll" i

sprout. Arn In a ver has been k place, untie : fully and ta kernels ger The visor (be noticed. some of th seed, and th feeding. So germinated should be themselves minated the out of six. classified, a comes the the will be deta tion test of that are be where only twice as mu used to insu the case wh minated.

Practically silage growe be shelled co important th corn o doll method, used. Verv using more of seed corn. proughly. and lay then lin cloth, P

Taking the Gamble Out of Seed Corn A Testing Method That is Easy and Efficient for Corn on the Ear or in the Bag

ANADIAN corn growers are faced with the most serious faced with the most serious seed corn situation in the history of American agriculture. Many farmers, both in southwestern Onfarmers, bold in southweatern On-tric, where corns is grown largely as a grain crop, and in other sections of the country, where silage corns only in produced, feel that the putting in the ground of the seed available that year is more or less of a gamble, page it wort. Many are paind perc-ease it wort. Many are and per-ease it wort. Many are a method of south to believe that likely it won't.

enough to believe that likely it won't. Fortunstely there is a method of taking the gamble out of corn plant-ing. Test the seed. A simple and easy way of doing this has been popu-lariad by the United States Depart-ment of Arriculture under the name of "The Nag Doll Method." This method is practised extensively in the Und by state, of the also been cessful growers in Canada. By this method, where seed corn is obtained method, where seed corn is obtained on the ear, at least 99 per cont. of the gamble is eliminated in corn culture, and where it is obtained shelled, the rate of planting may be so ad-justed as to insure a full stand. The rag doll tester consists of a

The rag doll tester cousing a piece of musin on which squares are drawn and numbered. Take a strip drawn and 12 inches wide. Divide the central six inches into three equal squares with a lead pencil and number each square. Get out your jack knife and from each ear of seed corn extract six kernels, two from each end and two from the centre of the en and the them in control of the ear. Place these mix kernels on square No. 1 and lay the ear on a mak or shell provided for the pu-pose. Proceed similarly with the next ear and arrange the kernels on not ear and marange the kernels on square No. 2. Lay this ear next the No. 1 ear and then go on to ear No. 3, always arranging the ears so that their number will be known. When samples have been taken of all of he ears of cron, or all of the squares on that particular strip of muslin have been filled, fold over the sides of the cloth (the outside three inches) so as to hold each grain in its place. Then roll the muellin around the corn cob a bunch of straw or similar material, tie with twine, and stand on one end in a pail containing warm water. Capillary attraction will keep the "doll" moist and the kernels will sprout.

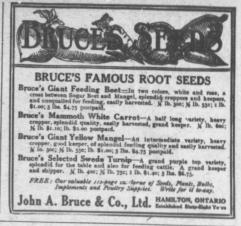
Arranged the Seeding. In a very few days, if the water has been kept warm and in a warm piace, unite the "dol!" open it up care-fully and take note of the number of kernels germinating in each square. The visco of the eprouts might also be noticed. It will be found that some of the ears are worthless for seed, and these should be rejected for seed, and these should be rejected for feeding. Some of the ear's may have graminated 100 pay cent. These should be collected and kept by themselves. Othere will have ger-minated three, fourt of the kernels out of six. All of these should be classified, and when seeding time comes the thickness of the seeding will be determined by the gramina-tion test of the particular lot of ears that are being used. For instance that are being used. For instance, where only three kernels germinated, twice as much seed will have to be used to insure a full stand as will be the case where all the kernels germinated.

Practically all of the seed that en slage growers will get his year will be shelled com in macks. It is just as important that this corn be tested, as seed corn on the ear, and the rag doll method, with variations, may be used. Very few growers will be using more than two or three sacks of eacd corn. Mix the seed in a sack formula control to the seed in a sack thoroughly, count out 100 kernels, and lay them out evenly on the mus-lin cloth. Proceed similarly with the neart for Corn on the Ear or in the Bag other solars of corn. Roll up, sproat and notice the germination. All seeks may not be of the same origin, and there may be a considerable dif-ference in germinating power. If the seed in a sock germinates 90 per cent. or over, the usual rais of seed-fag may be followed with fair assur-ance of a full stand. If, however, the seed in another sack tests less than 90 per cent. the rate of seeding must be increased accordingly.

Prof. Gerhardt, of Ohio, says that any farmer any year can make \$10 an hour testing seed corn. Under the abnormal conditions prevailing this year he might easily make \$100 an hour were the seed supplied him of low germinating power. An hour's work would be sufficient to arrange for the testing of all of the seed used on the average 100-scre dairy farm, providing the seed is supplied shelled. It would not take half a day to test the seed corn supplied on the ear once one has had a little practice in doing the work. The main point, however, is to get the seed corn in good time, if you can, and then test it.

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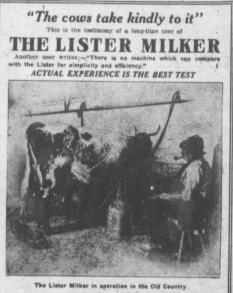
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Shall We Make the Dairy Farm Self-Supporting) (Continued from page 6.)

saved is a dollar earned.

"There is less risk of having weeds and disease carried to the fields and herd, by using home-grown feed as compared with purchased feed. "Home-grown fead is likely to be

fed more liber.dly, than is feed bought from the dealer. The practice of feeding homesrown stuff, tends to promote liberal feeding, lack of promote liberal feeding, lack of which, is one of the greatest weak-nesses in the handling of dairy cat-tle under present conditions of high-cost for nearly all kinds of feed."

J. H. Grisdale Discusses the Point. "The question is important," writes of. Grisdale. "The usual practice "The question is important, writes Prof. Griedale. "The usual practice is to depend upon the farm for the roughage and part of the concenroughage and part of the concen-trates and to supplement by purchas-ing considerable quantities of such feeds as bran, oil cake, cotton seed, brewers' grains, etc.; and I am of the opinion that this is about the best way to handle the dairy farm in Eastern Canada. To attempt to produce all the concentrates nec to the maximum profitable production to the maximum profitable production of milk on any given farm would mean decreasing to a considerable ex-tent the number of cattle kept on said farm, and would remove the pos-shillities of profit from trading as they now exist where the farmer buys a few hundred dollars' worth of feeds and, after manufacturing them into dairy produce through the medium his dairy herd, sells them at a fair margin of profit.

"Taking away this opportunity of increasing the business without ma-terially decreasing the labor on the farm would, in my opinion, be a mis Of course many farmers under take. present difficult conditions as to the purchase of feed, would be very glad indeed if they had herds only as large as could be maintained entirely on the produce from their own farms: but I believe that in the near future the supply of the necessary feeds will be more easily available even if prices do remain at a high figure and that it will be easi'v possible to con-tinue the business as fieretofore.

'Another consideration in 'connec tion with this matter is the utilizacoarse grains from those parts of the country where live stock are not so commonly kept. To allow all these feeds to be exported would be. In my opinion, a serious reflection upon the enterprize and business acumen of our dairy farmers, and would mean a great loss to Canada as a whole, since the finished products in the form of cheese, butter or condensed milk, or even milk itself, would bring in much greater returns in the way of money than would the raw products from which they are made, in the form of concentrates of one kind and another, and they would, at the same time, do very much less in the way of carrying off fertility drawn from out Canadian farms.

'In view of the condition of affairs above described, I would say that I am decidedly in favor of farmers in-creasing their stock and devoting their farms, as far as possible, to the production of roughage. For many there is, of course, always the need for producing a considerable quantity of straw for one purpose or another. which would mean the growing of grain in considerable quantities and and which is, of course, a necessity if the land is to be kept under a suitable rotation where grass and clover have reaction where grace and clover have their proper piece and which must, of course, be seeded down with some nurse crop, such as wheat, oats or barley."

What Dairy Farmers Say and Do. Recently an editor of Farm and Dairy, traveling through the more casteriy counties of Ontario, gathered some information on the problem un-

Mr. G. B. Rothwall of der discussi Ottawa, assistant Dominion Animal Husbandman, gave it as his opinion that so far as the Ottawa district is concerned, the type of dairy farm which pays best is that on which the roughages are grown, including corn and clover hay as well as a consider. able acreage of peas and onto or oats and barley to act as a basis on which the meal ration is founded. He believ. made entirely self supporting by grow ing some cash wrop, potatoes for in-

Apr./ 11, 1918.

stance, which will pay for the con-centrates which must be bought. J. D. McDougali & Son in Gien-garry county, feed 21 cows and 15 calves on 146 acres. They grow as much-of their grain as possible, pre-ferably peas and oats, threshing about 2000 bushes a year. In addition to

Why Have a Silo ? By J. H. Grisdale.

S ILAGE is a cheap cattle feed. A very heavy crop of cle-ver is the only other crop that will compare for economy with corn ensilage; or a very heavy crop of mangels or turnip

It lessens the labor of produc It issens the labor of produc-tion. Corn requires less labor when food per acre is consid-ered than other crops, and uses labor more profitably. Corn ensilage enables one to

luplicate June pastures in win-er. Cows will eat ensilage as ter. Cows will eat energies eagerly as grass in June, and we have had our cows coming in off the finest pasture and eat ensilage with avidity. It is a perennial spring.

The silo economizes on land. More stock can be kept on the small area with a silo than on a larger farm without a silo.

The growing of corn prepares the ground for all future crops. the ground for all future crops. Where can you get a better crop of grain or a better stand of clover than after a well-culti-vated crop of corn?

The silo represents storage economy. You can store more animal food in a cubic foot in

this, they have 13 to 15 acres of cora for the silo and abundance of clover hay. Even with 40 to 50 acres in 50 acres in grain, considerable quantities of con centrates have to be purchased. Ma ceash crop is grown, the meal bills be ing paid out of the milk cheques. Mr. McDougail does not pasture much os account of lack of land and feeds grain practically the year pound. Ha sram practically the year bound. He believes that the farm would be more profitable were there a greater acre-age for pasture. About eight years ago Mr. McDougall started in pure bred Holsteins and now his entire herd is registered. The extra income from the sale of pure bred etck, therefore, takes the place of the cash crop recommended by Mr. Rothweil. W. E. McKilliosa, just across the road from McDougall and Son, be-

lieves that it pays to keep all of the stock for which you can grow rough-ages and buy concentrates. He grows a large acreage of corn and clover hay and just sufficient oats or oats and peas to keep the land seeded down. peas to keep the land seeded down. High prices for city milk are con-sidered a sufficient incentive to keep aidered a sufficient incentive to keep all the cover possible. The annual feed bill is a large and Mr. McKill-cheque is also large and Mr. McKill-can believes the system most prob-able under his conditions. On a Farm Net Adapted to Grain. Mr. J. W. Kennedy of the same

grain good age. age, huva Tile d farm alfalfs nedy concer Acr la the Tinka comfo which by vir quanti chased

coneld this fa of root manth Here 1 ful dal been d the gr Cheste been n farm. tion,--ley, ha two of corn to in the devotes farm. been bu now ha alfalfa and roe his ent he have cash cr pay for to adm RUCCOR ting the tion of trates. nrico of

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the men that on le maint possible work in available. Intensive trates w erop. 0 amall far on this COFD ODA quantitie grown never vi profit ov material pays the

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April 11, 1918.

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county is known among his neighbors as a successful deiryman. He has adapted his system to meet the peciliar conditions under which he works. His district is not as well drained as it might be and therefore not suited to grain painters. They ack, however, witable to the production different to see. Mr. Konnedy grows He practices summer dairying most extensively. The drain are now being hid on the farm and the drained land seeded to alahfa. With more alfaka Mr. Kennedy aspects to cut down his bill for concentrates.

concentrates considerably. Across the line in Stormont county is the little Ti-acre dairy farm of S. U. Tinkess and Son. Two families are confortably supported on this farm which carries a good sized dairy herd by virtue of the fact that considerable quantities of concentrates are pur-chased each year. Corn ensings is considered to be the cheapest feed on the farm and you way on three across this farm and now two or three acres of roots are being grown to reduce the quantity of concentrates in the ration. ere we have an example of success-Here we have an example of success-ful darying where the feed store has been depended upon most largely for the grain ration. Farther West at Chesterville, Parnham Allson has been making good on a 55-acre dairy He follows a four year rotafarm. He follows a four year rota-tion,-hoe crop, oats or oats and bar-ley, hay and then pasture. He grows 10 to 12 acres of corn and an acre or two of sugar beets. He raises enough farm. corn to feed twice a day for 11 months corn to feed owice a day for 11 months in the year, as much land cannot be devoted to pasturing on so small a farm. In the past Mr. Allison has been buying considerable meal, but he now has seven and one-half acres in alfalfa and by the use of alfalfa hay and roots, hopes to cut into his feed bill. He believes that the profits of his enterprise, would be increased did he have extra land on which to raise a cash crop, such as wheat or beans, to pay for his concentrates. He is free pay for his concentrates. He is free to admit, however, that he has been successful as a dafryman, while put-ting the main emphasis on the production of roughages and buying concen-trates. Here too, however, the high price of purchased feeding stuffs tends to upset older systems.

Soil Fertility.

"The maintenance of the setting is the basis of permanent cost for tilling is form of farming," remarked a inpuform of farming," remarked a inpution of the setting of the setting understand that a good dairy cow retains 25 per cent of the fortillaing inredicate of her feed in the milk. I sell whole milk to Toronoto. Did I attempt to take all of the feed from my own farm and ship its value away in the milk can I would be running out my farm at an agridu rate. I plan to grow enough grain for the hornes and heat, but buy is all the meal ration of the milk cans I would be for the form and the set of the set of the set of the prove enough grain for the hornes and heat, but buy is all the meal ration of the off the set of the set of the set of the depleted. I regard the buy bay of for ultrane a fram."

Another sould mestioned by one of the mes with when we talked was that on the farm wince a large here is maintained by burner, focal, is to possible to employ many focal, is to possible to employ many focal is to yourk in the folds will be able to the work in the folds will be able to the search and probably time will be easy to be able to the more intensive crops and buy the concentristes with this proceeds of the cash orn easily and will be a now is run en this principle. Attaits hay and orn easilyse are produced in large quantities, but not a pound of grain is from. Two to four acres of potatons sever yield less than \$100 per acreproit over cost of seed and spraying material and this money more than pay the grain bills.

Conclusion.

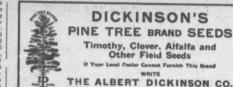
But where is the greatest profit on the Ostario farm? We have merely discussed the question. Every man must decide the answer according to h.v conditions. Where adifies can be for a subscending we incline to be different and the subscending of the different subscending with a small cash erop area winds in with a small cash erop area winds in the same subscending of the same subscending of where red clover or sweet clover must be the main dependence, we question where red clover or sweet clover must be the main dependence, we question where red clover or sweet clover must be the main dependence, we question in most money cannot be made by approximately the same plan, but with a larger area in cash crept and just enough grain to keep the farm seeded down. As the farm tends away from specialized dairying and becomes more diversified, then the self supporting farm becomes more feastible. The only safeguard of the man who buys concentrates newadays, however, is a herd of real good dairy cows that will give a good margin of predit over the feed connuned. Also,

to be sure of a supply, feed must be purchased far in advance and when-

purchased far in advance and whenever it can be gotten. The most conclusive treatment of this subject will probably come when farm survey

work has been conducted extensively

in our dairy districts -F E F



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no one best fubricant for an purposes. But there is a scientifically correct and extremely efficient lubricant for each type of engine and fuel. There is an oil for every lubricating condition. At Imperial Oil stations in all parts of Canada, you can find the oil that will make you forget lubrication troubles and give you the full power and usefulness of your machine.

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Mak-a-Iractor Ane following, taken from Farm and Dairy, issue of March 7, 1918, refers to the Staude Maka-Tractor: "When the Provincial Plow-

ing Match was held at Brant-ford last fall, we all went down ford last fail, we all went down in the car, and during the day I had a chat with Mr. Dawson, the manager of the Lakeview Farm. Among other things he told me that they had purchase ed a tractor attachment for their Ford car, 'It is working splendidly,' said Mr. Dawson, when I asked him about it. 'It drawing two 12-inch plowe 110 and down the stiff grade behind the barn. You simply can't beat the quality of the plowing, and it is a one-man operation, the driver controlling the plow with the line just as they do from here. Ha these tractors 14 plowing about five acres a day. He doesn't have to stop for rain-just puts up the top of the car and goes ahead. My wife ran the plow and the car for half a day just for the novelty of it.

"And how does it compare with horses for expense?' "We have been plowing with

"We have been plowing with horres, too', said Mr. Dawson. Three horses on a double bot. Three horses on a double bot. We had two wingle teams plowing in the same field, and they inread over just one acre a day. We were paying these plowment three dollars a day wages, which is three dollars a acre wages, and had the horses to feed besides. It cost and a sere wages, and had the horses to feed besides. It cost has and ol with the car as all with the car as tractor atimely and the series of the water in the radiator. You use, there is a special radiator goes along with the tractor at tachment, a pump to force circulation through the engine.

The Staude Mak-a-Tractor fits any make of Ford Car, and costs \$240.

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FARM AND DAIRY

A Dairy Council Will be Organized in Ontario Initie' Steps Taken at Guelph by Representatives of all Branches of the Dairy Industry DAIRY Council in Ontario, hav. Milk Commission, a tody on which he

A DAIRY Council in Ontario, having behind it all of the power of the statistic organisations, will sentative of all Last week representative of all Last week representative of all Last week representative of all and took the steps necessary to organisation. The following recommendation, accepted unanimously by the meeting, tells the whole story of the work accomplished: "At a meeting of leading dairy interests held in Guehp on a April 4th and

"At a meeting of leading dairy interests held in Guehp on April 4th and 6th, 1918, a special committee was appointed to take up the question of the formation of a provincial dairy appointed to take up the question of the formation or council. After carbers of this committee, who represenbers of this committee, who represenbers of this committee be formed, composed of the mombers from such existing dairy association or any dairy association which may be formed, and departmental representatives to be named by the Minister of Agriculture for the purpose of making definite recommendations for creating a permanent provincial dairy council, and requested that the Minister of Agriculture take atom in accordance with the above the Minister of Agriculture for engines and the possible." Mover, W. H. Foreter seconder, S. E.

It is not anticipated that such a council, when formed, will agree on all subjects affecting the industry. Prof. H. H. Dean, who called the meeting, did not anticipate that such would be the case. There are, however, many subjects that interest all branches in common, and with such problems a central council could deal effectively and authoritatively. The conflicting interests of different branches of the industry found frequent expression during the meeting, but the meeting also found much common ground, and the time seemed ripe for the launching of a provincial council. A letter was read from F. M. Logan, Dairy Com-missioner of Saskatchewan, looking toward furthe affiliation in a Do minion Dairy Council, but necessarily no definite action could be taken un til the provincial association is actually organized organized. The speakers at the four sessions of the convention did not con fine themselves to organization, but discussed all sides of the dairy business. If anything, the field was too broad to lead to effective conclusions in any direction, and the impression that would have been left on a disin terested visitor would be that there is still room for separate organizations to represent each class in the industry. and that the function of the central will be limited, though valuable in its particular field

particular field. The meeting placed itself on record as opposed to the abolition of fall fairs, notice having already been served that an act to this effect will be introduced in the Dominion House as a war measure.

Purpose of the Convention.

Prof. Dean, in opening the convention, defined its objects as an opportanty to talk over dairy matters for the coming season, to discuss the advisability of forming an Ontario dairy council, and to bring the college closer in touch with the dairy interests. Mr. S. Young, President of the Guelph Milk and Cream Producers' Association, who presided at the first session, told of the good work accomplished by organization in the Guelph district, and then called on Mr. Stonehouse, President of the Ontario Milk Producers' Association, to speak for his branch of the industry. His address was an excellent summary of the situation faced by the producer of city milkboth memory mandally, pric haves with the price 's couple of jumps'' bahind the cost of production. He justified the prices anked by the producer' associations by refercive to the investigations of the Food Controller' dustry Milk Commission, a body on which he was the only farmer representative, and which started out with the idea that milk prices were too high, but who agreed, after investigation, that the only question was if producers would be willing to continue producing at the prices they had named. Nor does the situation provides improvment. Feeds are still going up and, regulations to the contrary notwithstanding, shorts is selling openly at \$00 and trars at \$40 to \$46 a ton. He voloce does the situation provides that voloce does that "the jahor sitvation is more serious for the consumer, the nation and the Empire, than for the individual farmer." Farmers, he feit, were not sufficiently impressed with the seriouses of the situation, principally because their information had come to them largely through channels on which they do not place reliance.

not place reliance. "The farmer will face a most serious "The farmer will face a most serious aff. Bion once ice while is the subject under discussion. "He will then need all the organisation he can have to defend his rights." The speaker then emphasized the essential difference between farmers and other interests in their demands—the former demand no special privileges, but only the removal of obstructions placed in their way at the behast of the latter. The removal of the protective tariff on supplies, he refruit, will be a supplies the second second of the special second second second second of the protective tariff on supplies, he refruits, will be a supplies the second second the special second second second second second of the protective tariff on supplies, he refruits, will be a second second second second second the special second second second second second of the protective tariff on supplies, he refruits, will be a second second second second second second the second the second second

Concentrate City Milk Business.

Mr. Jao. Slingham, of Ottawa, speaking for the distributors, mentioned serveral factors which, he considered, would be conclucive to war-time scoreony and efficiency. Principal of these was the concentration of business in a few planta. One distributing centre, he thought, bhoud serve 190,000 to 150,000 people, and duplication of deliveries and euglument avoided. Such concentration, at Ottawa, had resulted in higher prices to the producer and lower to the consumer. A minor accommy would be for farmers to own their own cans, with resultant better cars.

Mr. Geo. A. Putnam, Dairy Superiotendent of Ontario, took exception to issociation with membership less, His view of the organization to be formed was that of a clearing house for questions in which all existing dairy organizations were interested, and on which they desired concerted action. Its membership, he thought, should consist of representatives typointed from the existing associations. Several dairymen spoke in favor of organization along this line, among them being the president and secretary of the Toronto Milk Dealers' Association, Mr. Hughes, of the Farmers' Diary, and W. H. Forster and D. C. Flatt, of Hamlion and report the following day. Its personnel was as follows: G. A. Putnam, Toronto; S. B. Tarlner, Foronto; E. H. Stonshouse, Weston; W. H. Foreiter, Hamflton: R. W. Stratten, Geight; G. A. Gillespie, Peterboro, and F. Boyes, Lambeth.

Producers and Distributors Clash. During the Alternoor there was a lively Interchange of opinious between producers and distributors, as to the advisability of maintain are winter milk prices through the ummer. D. O. Flatt, speaking as both a producer and distributor, though the more unwise. Condensery prices for the summer, he diverted to city trade, and much milk would be turned back on the producers hands. Mr. Stonehouse replied that if the prices were unfair, a clause in the Pood Controller's order made provision for an investigation. A good reason for a continuance of winter prices, he said, was to secourage com-



April 11, 1918.

The shock a writes specially for recognized automobile segmeering autority and an expert on the ford, who has driven and repaired ford, who has driven and repaired autority and an expert on the autority and an expert is writes for the swortage man in a wrestical way from actual knowiedge. All parts of the Word Model processes Ministrated and fully asplained. Latest edition. 5 LARDEs FOLDING "LANDES He HAUDE 10.0. We will send this book propaid on receast of price, or will send you free on request our special send you free on request our special Charts.

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George I

tinued production, as many farmers had found that they could make more had found that they could make more money selling grain and surplus stock. Mr. Young opined that cheap milk in the past had been due to its produc-tion as a side line. It was now becom-ing a specialized business and higher prices must prevail.

prices must prevail. The Evening Session. Dr. Hastings did not discuss organ-ization of dairying, but he did give a most interesting talk on safeguarding most interesting talk on safeguarding the milk supply. Ordinary market milk, upprotected, he said, was the cause of more sickness and dealt than all other foodstuffs combined. It may also spread typhold, scarlet fever, uberculosis and other diseases.

tuberculosis and other diseases. Sanitary measures in production and "proper scientific pasteurization," will make clean milk and healthy milk. In-

proper secontine parteirration, will endentially text and healthy milk. In-cidentially text and healthy milk man-prise that consumers should his sur-prise that consumers should his sur-prise that consumers should his sur-crease in the price of milk, while the cheerfully accepted advances five times as great in more expensive food stuffs. Oleomargarine finds a well-informed enemy in Dr. G. L. McKay, of Chicago, Secretary of the American Association of Creamery Buttermakers. This ad-dress will be given fully in a future issue of Farm and Dairy. He quoted leading food authorities in support of his contention that margarine was not a proper food for growing children. This could be the antices in Resport of a proper food for growing was not He traced its career of frand and de-ception in all countries, and inciden-tally offered evidence that the restric-tions imposed on its use by the Food Controller are mot being observed: He had had oles for supper at the hotel that very evening, and no card was derred. "I hope thing that I was evened in those that it was evened in those that it was been this country," and he, "when the butter of this country will be made from the intestinal fais of the hog and the cow.

made from the intestinal lats of use hog and the cow. J. A. Ruddick, Dominion Dairy Com-missioner, spoke briedy in the absence of the Minister, Mr. Crerar. He en-dorred the idea of a provincial council and affiliation of all provincial associa-tion to Dominion council which, for tions in a Dominion council which, for tions in a Dominion council which, for example, might strengthen his hand in making recommendations in the dairy interest. Such interest, however, should have its own association as well. He placed the value of Canada's dairy products in 1817 at 1910,000,000, The details are as follows:

Quantity. Value.

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Cheese 194,000,000 \$42,255,000 Creamery but-

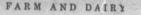
powdered

milk 8,000,000 Milk, cream and

The Chesse Industry. Mr. Frank Boyes spoke for the chesse Interests on Friday morning. After expressing the hope that prices of daty products would be equalized this season, he made a few sugges-tions for the season's work. Experi-ments might be made under factory methods in the acate wrige to date. inert of the barrier of the matter conditions in the made under factory mine methods of the pring to deter-mine methods of the pring to deter-mine in the second second second method is the the second this point. Mesers. Herra, Publow and Roddick disarreed with him. Mr. Ful-low mentioned the agreement of mak-ers in Eastern Ontario, whereby they guarantee No. 1 cheese as in the way of more motivarter, and waysested that more fai in the milk would be the best way of horreasing yield. Mr. Rud-diet, stated that much cheese has recently been bought in the United States for 18 cents, because of too much moleture. Also, this year the cheese may not go so directly to the old Country. Incidently he announced that the Cheese Commissioner will be known this season as the Dairy Produce Commissioner, and will operate under the British Minister of Food with the Allied Provision Commission, and the Canada Food Board represent. ed on the Commission. The producers will be represented by two men, one from Quebec and one from Ontario, the latter representative being Mr. Jas. Donaldson, of Attwood. Mr. Ruddick

there representative being Mr. Jas. Don Mr. Grander are the remaining work of the stander are the remaining work of the stander are the remaining work of the stander are the remaining be held on Thesday. A meeting will be held on the standard when handled on the farm and in the factory there will be so little loss in the whey that akimming is a doubtil benefit. "If whey is to be akimmed," he ad-vised, "pay the makers for the mak-ing and don't make them partners in the profit." the profit.

the profit." Dr. McKay gave a practical talk on problems in creamery butter making. Some of his main points will be re-viewed in a future issue of Farm and Dairy. He concluded that competent butter makers are rare, but as a whole (Continued on page 19.)

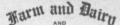


the mileage just the same.

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Rural Home

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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."-

Double Shifts and Unpaid Labor

T HE first measure before the present session of

age between urban and rural members was the one known as the "Daylight Saving Act." Rural members made such a clear case against the bill that its supporters were placed immediately on the defensive. Many and nonsensical were the suggestions made by city members as to ways in which farmers might meet the adverse conditions imposed by the act, but of all the impossible suggestions, that of the honorable member for South York, Mr. W. F. Maclean, must be given first place. His suggestion called for a double shift of laborers on the farms. "It might mean time and a half or pay and a half." said he. "but that is the way to get increased production." Other members, who were a little closer in touch with the situation, immediately wanted to know where the extra laborers were coming from for double shifts when there is not help available now for a single shift. Mr. Maclean replied: "There is a capital way of raising labor and that is for every man to raise a family. I know Quebec and I commend Quebec in regard to that. They have not perhaps that scarcity of labor which we have in the West. Well then, follow Quebec's example; go any place where you get a good example."

The honorable member for South York evidently understanus, as revealed by his second suggestion, how agricultural production has been maintained in the nast-on the unpaid labor of women and children. This method of maintaining a supply of cheap food for urban consumption evidently appeals to him. and he suggests that it be continued. . The ideal for which farmers are striving, however, is a position where they can command such prices for their products that they can embrace Mr. Maclean's first suggestion, give extra pay for extra work and not impose the whole burden on themselves and their families as they have been compelled to do in the past. It was just this policy of long hours and hard work for every member of the rural family that has drained and is continuing to drain rural districts of both

FARM AND DAIRY

capital and labor and leaves agriculture almost incapable of meeting the demands made upon it in a time of prices such as the present. These hardships are directly traceable to legislative enactments contrary to the interests of agriculture and a long step will have been made towards bettering conditions when farmers send more of their own number to Parliament. The need of a really representative hody of farmer members in the House was never more evident than in the debates and divisions on the Daylight Saving Act.

A Farmer in Charge

T HE appointment of Hon. T. A. Crerar as Dominion Minister of Agriculture promises to

prove an epochal point in the relationship of farmers as a class to the Dominion and possibly to the provincial governments. In the past when matters of importance relating to agriculture have arison the government has generally appointed commissions composed of representatives of various classes among which farmers were consnicuous by their absence. The direction of work relating to agriculture has generally been placed in the hands of government officials, the farmers themselves, as a class not being consulted in advance as to their views.

Hon T A Creerer is making an important change in this condition. Through his efforts farmers have been appointed on a number of the Military Tribunals and Leave of Absence Boards, where, while they have not been able to accomplish all that might have been wished, their presence has been productive of much good. A farmer has been appointed on the special committee that is investigating the Dominion live stock situation, and one or two farmers are to be placed on the Cheese Commission. Most important of all, however, was the appointment by Hon, Mr. Crerar of Hon, C. A. Dunning as Director of Food Production for Canada. As a homesteader and later as manager for some years of the Saskatchewan Cooperative Elevator Company, Hon. Mr. Dunning became known as one of the most able leaders in the farmers' movement in Canada. Thus, in the food production compaign farmers will not merely be told what they should and should not do, but will know that in this case the whole campaign is being led by a man familiar with their difficulties and therefore in an excellent position to cooperate with capable officials of the Department of Agriculture in promoting the work in which all are interested.

Those strows indicate that the time has come when the Government realizes the importance of consulting farmers as a class in advance on important matters instead of treating us as children who need to be told what they should and should not do. The change is all in the right direction and should tend to bring about a better understanding between the farmers and the Government and should ultimately tend to make the work of the Departments of Agriculture better understood and more appreciated

Milk, a Cheap Food

T would be a grand thing for the dairy farmers of Canada if, in some effective way, consumers could be made to realize that dairy products are the cheapest animal foodstuffs on the market. There is no lack of evidence to prove the point. The lack comes when we try to find some way of presenting the facts to that class who are now complaining of what they are pleased to refer to as "the high price of milk, butter and cheese." At the recent meeting of the Alberta Dairymen's Association, Prof. Washburn, of Minnesota, gave such evidence as we would like to see placed before consumers generally. His table of comparative costs showed that milk, with its useless water content gone, at twelve cents a quart, cost about 36 cents a pound. The cost of other foods, with waste and water eliminated, per pound, was as follows: Top milk, 48 cts.; hamburg steak, 90 cts.; eggs, \$1.25; oysters, \$2.50; whitefish, \$1.45; fat fowl, \$1.12; cheese, 48 cts., and cottage cheese, 38 cts.

These are striking and convincing figures.

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general appreciation of their significance would lead to an enormous increase in the consumption of all dairy products. But Prof. Washburn was presenting these facts, not to an audience of consumers who do not understand the situation, but to a body of producers who are at least fairly cognizant of the value of their product. The report of his address will be published in the agricultural papers, such as Farm and Dairy, and in a Government bulletin, which again reach only the producing class. At present there is no agency in Canada whereby facts such as these can be kept before the consumers. In the United States, producers were attempting to reach consum ers through an advertising campaign conducted by the National Dairy Council, but this campaign has been suspended for the duration of the war. When first launched, however, results seemed to justify the expenditure. Dairymen in Canada have no or ganization comparable to the National Dairy Council and perhaps the first step necessary toward the educating of consumers in the food values of dairy products is closer union among the dairymen them. selves. Steps have already been taken in the West looking to the formation of an organization to be known as the National Dairy Council of Canada We believe that the East, too, is all ready to get in line. With our organization complete, an educational campaign among consumers may then be possible

Calling Their Bluff

GOODLY number of daily newspapers through out Canada have assumed an attitude toward the farmers that is little to their credit. While calling for greater and still greater production of foodstuffs, these same publications never let slip an opportunity, by innuendo or direct attack, of giving the city reader the impression that he is being made the helpless victim of the producers' greed The price of milk advances. Immediatery a section of the city press clamor in protest. They tell us that the children of the poor are being denied the right to exist because the price of milk has advanced fourteen per cent. The dairy farmer objects to the letting down of restrictions against a substitute for butter. the sale of which in all other countries has always been accompanied by wholesale deception and frand with both dairy producers and consumers suffering from the misrepresentations of its makers. Urban editors at once assure their read rs that dairy farmrs are willing to deprive the chil iren of the poor of the necessary fats and of a chusp and nutritions substitute for butter, because its viclusion meangain to them. These gentlemen, y setting class against class, are sowing the seeds of dissatisfaction and trouble. It is time that their bluff was called

These same publications a few months ago found it necessary to increase the price of their morning and evening editions from one cent to two cents a copy. They found that the price of paper and ink, printers' wages, and probably editorial salaries as well, were going up. These are all good and le ritimate reasons for raising the price of newspapers, as Farm and Dairy well knows; we are facing the same conditions ourselves. But why such a clamor when the price of milk advances from fourteen to twentyfive per cent, when at one stroke the clamor makers themselves raise the price of their product by one hundred per cent. If poor folk cannot pay twentyfive per cent. more for milk, can they afford one hundred per cent. more for their morning paper? Are these editors not endangering the intellectual lives of their readers when they permit their business departments to double the price of reading matter. And yet we hear no editorial protest against this one hundred per cent. increase, although. apparently, combine methods were used to effect it. as all papers advanced their prices on the same day.

Farm and Dairy is glad that many of the best daily newspapers in Canada have assumed an attitude toward the necessary advances in the price of foodstuffs that is fair and just. At the same time the constant stream of abuse indulged in by some of even our leading dailles, does get us "hot under the collar."

April 11

Scope of

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FARM AND DAIRY

In Union There is Strength

Scope of the Council of Agriculture

LTHOUGH the Canadian Council of Agriculture has been an im-portant influence in promoting the agricultural interests of Canada for a number of years there are still quite a number of farmers who do not quite a number of farmers who do not understand just what the Council of Agriculture is. In a sense it is a Dominion Farmers' Parliament con-ducted and directed wholly by farmers themselves. It is composed of four representatives from each of the Provincial Farmers' Companies and Associations in the three prairie provinces and in Ontario. It is expected that shortly it will include farmers from prillion Columbia and the Maritima provinces. These delegates, who constitute the Council, elect from among themselves a president, vice-president and secretary-treasurer

At the recent meeting of the Coun-cil of Agriculture held in Regina, plans were laid for important extensions in the work of the Council. In this connection a committee composed of Mr. C. Rice-Jones, of Calgary, and Hon. George Langley, of Regina, brought in a special report which stated concise ly the objects and purposes of the Council. These were so well put in the raport we publish them herewith in order to give a better isea to our readers o, what the Council of Agrimiture sites to accomplish

Future Development Work

"The work of the Council is of an educational and legislative character. educational and registative character, It is in the nature of a clearing house for the provincial organization. In brief it is as follows:

The gathering an ' tabulating of Information information concerning economic questions in which the farmers of the Dominion are particularly interested

Dominion are particularly interested. "2. Distributing this information in pemphlet form and by means of pewspaper and magazine articles supplemented by addresses by qualified speakers.

"3. Acting as the mouthpiece of the farmers' organizations when the time ready for a public pronouncement on these matters

on these matters. "4. Presenting the findings on these questions to the government and watching the course of new or amending legislation regarding these sub jects

"5. Scrutinizing proposed legisla-tion and securing legal advice as to its effect on the farmers' interests.

"6. Maintaining unity of purpose on the part of the provincial farmers' or ganizations

Conducting an educational campaign for the purpose of building up a national spirit."

Other interests are already prepar ing to protect their interests against the increase of taxes which will be necessary to take care of the tremendous debt incurred in the prosocution of the war. If they are successful in their campaign farmers must realize that the burden of inereased taxation will fall upon the farmers and the laboring classes.

The directors of the local union of the United Farmers of British Colum-bia at Vernon, recently met for the first time since their organization the month previous. A letter was read from President Clark, the newly elected head of the central organization, dealing with conclusions arrived at for affiliation with increased membership. United Farmers of Alberta and the other provinces, cooperative effort along various lines and other topics of deep interest to the union. A meeting will be held in the near future to receive the rport of the deletoria, when it is hoped some mia apprehension as to the aims and objects of the United Farmers of British Columbia will be removed.

A Dairy Council will be Organized in Ontario

(Continued from page 17.)

they are 25 years ahead of the pro-ducers. Methods of controlling moisture and salt were considered, and good butter making was defined as good butter making was defined as working enough to properly incorpor-ate moisture and yet not so much as to injure grain. Mr. Mack. Robert-son, President of the Ontario Creamerymen's Association, followed Dr. Mc-kay in a brief discussion

Milk Powder and Condensed Milk. Mr. R. G. Leggett, Presidert of the Mr. H. G. Loggott, Presider 1 of the Eastern Ontario Dairymens Associa-tion, presided at the concluding ses-sion. Mr. S. B. Traiser, of the Can-adian Milk Products Company, remov-ed any mystery that is supported to alroud the manufacture of milk pow-der and condensed milk, by describing both processes in detail. His own com-puted, do buildenting the former pro-und, do buildenting the former pro-owning 14,000 cows and L200 farmers, owning 14,000 cows and L200 the former pro-lot based on this daily. 000 lbs. of milk daily.

"Ice cream was once regarded as a "Ice cream was once regarded as a luxury," said W. H. Forster, President of the Ice Cream Association, "but now it is regarded as a necessity in many homes and in hospitals." Like Mr. Trainer, he traced the history of ice cream making and described the commercial ice cream plant of to-day, with its substitution of condensed skim-milk and air for the butter fat of the ice cream of earlier days. The ice cream of the United States, he said. cream of the United States, he said, averages eight per cent. of butter fat. Mr. Bingham, of Ottawa, quoted investigations, which prove that 75 per cent. of all ice cream is consumed directly as a food. Recently ice cream makers, he said, had been required by the Food Controller to vindicate their existence and derived by the same said. by the Food Controller to vindicate their existence, and an order will soon be out setting a maximum to the fat content of ice cream, probably 10 per cent. He agreed with Mr. Forster, cent. He agreed with Mr. Porsier, that solids-notifiat were more desira-ble than milk fat in making a desira-ble and digestible food. The chief value of the business, from the stand-point of the city dairy, is that it en-ables them to utilize the summer sur-plus of milk in a profitable way. It explains how, last year, his company was able to pay the standard city price for the surplus. Mr. D. McMillan, instructor in ice

Mr. D. McMillan, instructor in ice cream manufacturing at the College, claimed that they are having difficulty in making ice cream of keeping qua-ity, with a 10 per cent, fat content or them. If it can be done, he thought the the star of the second second second the per-cess. Mr. Hinghman such as the manufacturers had given the problem, would reveal any accrete there miniwould reveal any secrets there might

In closing the convention, Prof. Dean admitted that the plan for a provincial council that had been adopted was not in exact accord with his idea of such a council, but if it accomplished the a council, but if it accomplished the same objects he could not object. He appealed for vigorous action through the council to be formed on behalf of the dairy industry. A good starting-place suggested by Prof. Dean, was an autitation for investigation of the same starting place suggested by Prof. Dean, was an agritation for improved dairy equip-ment at the Ontario Agricultural Col-lege. This will be accompliande only when Ontario dairymen, as a whole, make proper reoresentiations to the Government. This he mentioned as only one phase of the industry to only one phase of the industry to only one phase of the industry to of a vote of thanks, more day Pring Herns and seconded by G. G. Publow, to Prof. Dean, for the initiative he had taken in calling the convention.



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glad to assist all up-to-date farmers. THE MERCHANIS DA Head Office : Montreal. OF CANADA Established 1884

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NO joy is ever given freely forth that does not have quick echo in the giver's own heart .- Henry Ward Beecher.

The Heart of the Desert (Continued from last week.)

"Y FES, you can, John! Yes, you can! Perhaps there is a whole fountain of water there

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412

on the mesa!" The glazed look returned to De

Witt's eyes. "'Or the pitcher be broken at the fountain," he muttered, "'or the wheel broken at the cistern—or the

pitcher broken at the fountain, or . Rhoda threw her arm across her

eves 'Oh, not that, John! I can't bear that one!

Again she stood upon the roof at Again she stood upon the root at Chira, looking up into Kut-le's face. Again the low walling of the Indian women and the indescribable depth and hunger of those dear black eyes. Again the sense of protection and content in his nearness "O Kut-le! Kut-le!" she moaned

Instantly sanity returned to John's

"Why did you say Kut-le?" he de-manded thickly. "Were you thinkmanded thickly. ing of him?" "Yes," answere

"Yes," answered Rhoda simply. Come on, John!" DeWitt struggled on bravely to the

Dewilt struggied on bravely to the crest of the next dune. "I hate that Apache devil!" he muttered. "I am going to kill him!" Rhoda quickly saw the magic of Kut-le's name.

"Why should you want to will Kut-le?" she asked as DeWitt paused at the top of the next dune. In-

stantly he started on. "Because I hate him! I hate him, the devil!"

"See how near the mesa is, John! Only a little way! Kut-le would say "See how near the mesa is, Joan! Only a little way! Kut-le would say we were poor stuff!" "No doubt! Well, I'll let a gun give him my ophinon of him!" The sand dunes had inceed beaten

themselves out against the wall of giant mesa. Rhoda followed blindly along the wall and stumbled upon a precipitous trail leading upward.

CHAPTER XVIII.

The Forgotten City.

Up this tortuous trall Rhoda stag

The two three the bubbling spring un-and drank of the bubbling spring until they could hold no more Then Rhoda lay down on the sun-warmed rocks and sleep overwhelmed her.

rocks and sleep overwheimed her. She opened her eres to state into a yellow moon that floated liquidy above her. Whether she had sleep throuch a night and a day or whether but a few hours had claused since she had stargered to the spring beside which has lay, looking she could not tell. She lay looking up into the sky languidly, but with clear mind. A deep sigh roused her. DeWitt sat on the other side of the

"Hello!" he said in a hoarse croak. "How did we land here?"

"I led us here sometime in past ages. When or how, quien sabe?" an-

swered Rhoda. "John, we must find food somehow."

Tood somehow." "Drink all the water you can, Rhoda," said DeWitt; "it helps some, and I'll pot a rabbit, What a fool 1 am. You poor girl! More hardships for you!" Rhoda dipped her burning face into

the water, then lifted it, dripping. "If only you won't be delirious, John, I can stand the hardships"

DeWitt looked at the girl curiously. "Was I delirious? And you were alone, leading me across that Hades out there? Rhoda dear, you make me

ashamed of myself!" you were

"I don't see how you were to ame." answered Rhoda stoutly. blame.

It's queer that they haven't discovered us Slowly and without further protes

Rhoda followed DeWitt up the trail. Deen-worn and smooth though it was. they accomplished their task with infinite difficulty. Rhoda, stumbling like a sleep-sodden child, wondered if ever again she was to accomplish physical feats with the magical ease v"th which Kut-le had endowed her.

¹ in wanch Kutle had endowed her, "if he were here, 74 know I was to tumble into a comfortable camp," abe thought. Then with a remorseful glance at DeWitt's patient back, "What a selfsh beast you are, Rhoda Tuttle!"

She reached John's side and to-ge her they paused at the top of the trail. Black against the sky, the moon crowning its top with a frost-like radiance, was a huge flat-topped like radiance, was a huge fail-topped building. Night birds circled about it. From black openings in its front owls hooted. But otherwise there was neither sight nor sound of living thing. The desert far below and beyond lay like a sea of death. Rhoda unconsciously drew nearer to DeWitt. "Where are the dogs? At Chira

the dogs barked all night. Indians "It must be very late," whispered

"It must be very late," whispered DeWitt. "Stren the dogs are asleep!" "And at Chira," went on Rhoda, whispering as did DeWitt, "owls didn't hoot from the windows." "Let's go closer," suggested John. Rhoda thrust coid little fingers into

his hand.

The doors were empty and forlorn. The terraced walls, built with the



The Ideal Home for Father and Mother when they Retire.

The interm for the farmer and his wile, who have worked hard all their on their larm and grown to love it and its surroundings, does not seen the farm of Mr. L. H. Newman, Graville Co., Ont, has been sected an home for the old folks. This is a bungalow built in a pretty location on the banks of the Rideau River and on the old homestend.

"Think what you have been doing for mel John rose stiffly.

"Do you feel equal to climbing this

trail with me, to find where we are, or had you rather stay here?" "I don't want to stay here alone,"

A don't want to stay here alone." answered khoda. Very slowly and weakly they start-ed up the trail. The spring was on a broad stone terrace. Above it rose another terrace weathered and disrupted until in the moonlight it look ed like an impregnable castle wall, embattled and embuttressed. But clinging to the seemingly invulner-able fortress was the trail, a snake-like shadow in the moonlight.

"Perhaps we had better stay at the spring until morning," suggested Rhoda, her weak legs flagging.

"Not with the hope of shelter a hundred feet above us," answered John firmly. "This trail is worn six inches into the solid rock. My guess is that there are some inhabitants

patient labor of the long ago, were sagged and decayed. Riot of grease wood crowned great heaps of debris A loneliness as of the end of the world came upon the two wanderers. Sick and dismayed, they stood in awe before this relic of the past. "Whoo! Whoo!" an owl's cry

sounded from the black window openings

DeWitt spoke softly. 'Rhoda, it's one of the forgotten

cities!"

cliles" "Let's go back! Let's go back to the apring!" pleaded Rhoda. "It is so uncanny in the dark!" "No!" DeWilt rubbed his aching head wearily "I must contrive some sort of shelter for you. Almost any-thing is better than another alght in thing is better than another alght in the source and the source of the will "Let's weat till morning." heared

explore a nulle." "Let's walk till morning," begged Rhoda. "I'm so cold and shivery." "Dear sweetheart, that's just the point. You will be sick if you don't

April 11, 1918

have some sort of shelter. You have suffered enough. Will you sit here, and let me look about?"

"No! No! I don't want to he he alone

Rhoda followed John closely up in-to the mass of fallen rock.

to the mass of fallen rock. DeWitt smiled. It appealed to the tenderest part of his nature that the girl who had led him through the terrible experiences of the desert should show fear now that a haven reached

"Come on, little girl," he said. Painfully, for they both were weat

Painfully, for they both were weak and disay, they clambered to a rang opening in the gray wall. Rhod clutched John's arm with a little scream as a bat whitred close to them. Within the opening DeWin scratched one of his carefully hough ed matches. The tiny fare reveals ed matches. The tiny flare revealed a small adobe-walled room, quite bare save for broken bits of potter-on the floor. John lighted a handlu of greasewood and by its brilliae light they examined the floor as walls

"What a clean, dry little room!" exclaimed Rhoda. "Oh, I am so tirad and sleepy!"

"Let's look a little further before "Let's look a little further before we stop. What's on the other size of this broken wall?". They picked their way across the litter of pottery and peered into a other room, the duplicate of the first

"How will these do for our respec-tive sleeping-rooms?" asked DeWin Rhoda stared at John with home in her eyes.

"I'd as soon sleep in a tomb! Let's make a fire outside and sleep under the stars. I'd rather have sleep that food just now.'

"It will have to be just a tiny amudge, up behind this debris, when smudge, up behind this debris, when Kut-le can't spot it," answered be Witt "I won't mind having a red eye of fire for company. It will bely to keep me awake."

"But you must sleep," protested Rhoda.

"I've played the baby ac' of grimly. this picnic as much as I propose ta. It is my trick at the wheel.

She found herself admiring the ful forehead, the lines of refinament about the lips that the beard could not fully conceat

she thought wearily. "but he's-he's -" but before her thought was conpleted she was asleep.

ing for the stir of the squaws about the morning meal. Then with a star she rose and looked soberly about he

DeWitt lay fast asleep by the ashe of th fire.

stope, as thought the set of the turned, DeWitt was rising stiffly to his feet

this time. I never closed my eyes till dawn, I'm so hungry I could at greasewood, How do you feel?" "Weak with hunger but otherwis

very well. Johnny." Go wash your face,

DeWitt grinned and started down the trail obediently. But Rhoda his a detaining hand on his arm. The sun was but a moment high. All the mesa front hy in purple shadows though farther out the desert glowed with the yellow light of a new day. (Continued next week.)

this lady tol hers who ha years : This brothe he would ma Finally he p within 40 mil all about fai



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losopher."

"But I mustn't,"

Too weary to protest further, Rhoda threw herself down with her feet toward the fire and pillowed be head on her arm. DeWitt filled his pipe and sat puffing it, with his ana folded across his knees. Rhois watched him for a moment or two

"He's not as handsome as Kut-le"

Rhoda woke at dawn and lay wat-

Suddenly she smiled. "Tenderfoot!" she murmured

"It Kut-le," she thought Then she

"Hello!" he cried. "I was good



April 11, 1918.

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FARM AND DAIRY

The Upward Look

Our Responsibility

H EREIN do I exercise myself to have always a conscience void of offence toward God and toward men.—Acts 24:16.

Wallo men. - Acce with the second sec

One very human and at the same time ad thing is, that it we can only conceal from others that we have done wrong, we do not feel concerned about food's knowledge of it. But also there can be no greated concerned so there can be no greater and-acout which God alone knows. The best eriterion of all action is this "conscience void of offence toward God."

glibhe von be owned toward toward toward One of the very greatest responshilline for all wrong-doing is its inmediate of the source of the source of the mene of the source of the source of the feature of the source of the source of the feature of the source of the source of the feature of the source of the source of the feature of the source of the source of the feature of the source of the source of the feature of the source of the source of the force of the source of the source of the source of the force of the source of the source of the source of the force of the source of the source of the source of the force of the source of the source of the source of the force of the source of the

arough the years, Each wrong word or action on our part may cause another to ain, so we are responsible for that one. Every wrong thought even of ours has an infuence on our own character, which in turn infuences others, which resolts will continue on down through the ares.

May this solemn thought help us act and think and live and be, that we may be responsible for the living and continuing influence of the good and the pure and the noble.--I. H. N.



A Chat on the Train

A field to see the Home Club still running. There is no department in Parman and Dairy for which I look mee esseriy. I used to write occasionily myres, but that was so long so that probably most Home Clubbers have torpotten "Nephwe Prank". We seen to have been so busy keeping up with the farm work. I wonder if this 's what has happened to "Kob Roy." The Doctor's Wife," "A Country Philosopher," "Mother" and numerous others who were in the circle wears apon frey ducausions.

some fine discussions. The cause of my dropping in this time is to tell about a chait 1 had with a lady on the train when going up from Nercasile to Toronto. This lady got or at Waliby. The car wan full, so I shared in y seat with her. Ghe was a fieldly person and we were soon chait they in a friendly way. When finally tapezet of the seat of the fortunes that farmers were suit the fortunes that harmers were suit the stores of the less fortunet townspeciple. That is the line of conversation to which I have to listen townspecipal rule when falling with my city friends. Instead, this lady tok me about a brother of here who had moved on to the farm the result.

This brother had gotten the idea that be would make more money on the farm and be supremely independent. Finally he purchased a 56-sere "arms within 40 miles of reconto. He knew all about farming-from books. He had plenty of capital-according to the real estate men who sold him the farm. Probably the majority of Home Club readers know about how well this town bred man got along on the farm. He found that farming required skill, experience and a lot of capital. "He is still on the farm," my seatmate told me, "but he is working in a multions factory in a nearby town. Every morning he gets up at four o'clock to look after the little stock he has and at six o'clock his wite drives him to his work six miles away and goes after him again at night. He is sick of the farm and has decided that the men who know how to make any money farming are fully on make any money farming are fully end to all they can get."

I discovered further that this lady's humbhand was a hard working artisan. Sin has bordher that farmers, too, work has brother that farmers, issue that the second state of the small remember that the second and those who labor on the farms. It certainly was refreshing to find a city woman taking such a same view of the whole situation. What a different feeling it would create if all city folk had near relatives working for a lying in the city. This is the thought 1 had in mind when we shook hands and bade each other goodbye at the Union Station, Toronto. It's a good sentiment to cultivate, don't you think't—"Nephew Frank."

Hired Men Decide the Menu

A UNT GRETAS" recent letter the fuencing the concerning the question of how to conware the food supply if the men folk where the food supply if the men folk where the food supply if the men folk where the second supply if the men folk where the second supply if the men folk where the second supply if the men for the offenders, although they to down and how the second for a new where the second supply if the second supply if the learns that the wife of the second supply the second supply if the second supply if the second supply to second supply if the second supply is the second supply if the second supply is the second supply if the second supp

I wonder if our Food Control Board has any suggestions to offer for overcoming this difficulty? We certainly cannot afford to lose our hired men nowadays if we happen to be fortunate enough to have one.—"A Perplexed Housewife."

A man must be pleased with his farm and in love with his occupation before he will make the best success as a farmer.





Hand It Out To Them MADDA as They Pass—

Or better, send them half a dozen bars of this nourlahing chocolate. There is many a brave fellow hungry today in the trenches, who will appreciate this highly concentrated food more than anything else. Fositively the finest eating chocolate made, 5c. and 25c. sizes.



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The chest contains 26 pieces of silver—six solid handled knives, six fat handled forks, six tea spoons, six dessert spoons, a butter knife and a sugar shell.

Go out this week and accure the Ten new subscriptions. It will not take you long to get these. Call

scriptonas, is win not take you long to get these. Call on the set these. Call on the set of the set of the set of the set of the make it a biblors on your way home from school, and on Saturdaymake it a biblor on your way home from school, and on Saturdaynot be set of the forward to you in a fine hardwood chest thick with dirawers and handles.

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When Writing Mention Farm and Dairy





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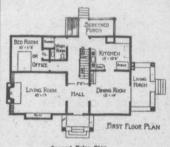
Making Housecleaning Easier Were sylator of housecleaning time, when the whole house would be transe along the clothesline, the furniture out on the verands and all the windows open. How we dreaded the beating of that carpet, and as fast as we would beat the dust out of the carpet it would settle on the furniture and on the newlywashed windows. Some one has

rightly maned housecleaning days usdor this system as the "maddeest and a sho was and a sho year." A show a show a show year." A show a show a show a show a show a learned that it is foolish to try to do everything at once, and we find it more feasible to clean one feasible to clean one feasible to clean one

Probably the most trying part of housecleaning even now, however, is that of lifting, beating and tacking down car-

Adding upon early that or posts by having rules to fit our room who having rules to fit our room who have the simplified to some attend, but we still have the beavy work of heating them. How many of Our Women Folk have must surely find a tremendous difference when housecleaning season comes around. Expecially in these days when the woman finds her dulies probably heavier than ever before, any labor savers which mean a saving of Recently we asked a combe of Our Recently we asked a combe of Our

Recently we asked a couple of Our Women Folk for their opinions on the vacuum cleaner. One whom we asked was Mrs. R. M. Holidy, of Ontario Co., Ont. and this is what she had our vacuum cleaner about five years. It seems to work as well as ever. We

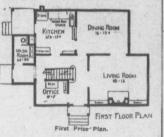


Second Prize Plan.

have loaned it a number of times and also rented it at 50 conts a day on different occasions. It is a great help in cleaning carpets and also sucks all the dirt out of mattresses. The vacuum cleaner saves taking up carpets frequently and it is a specialist on corners. Ours cost us \$25."

Trequently shall it is a solution to the ners. Our cost us 323. Mrs. J. R. Job, of Halton Co. also peaks well of this labor saves. She says: We are used it above sight years. We use it allocation of the carpets and do not find any dust on the floor, the carpet having been down for two years. It is a great advantage not having to lift the carpets of not before solid nearly as quickly when one uses a cleaner on the carpets, as diust is altimated. If we were buying a cleaner now we would get an electric one, as ours requires two people to run it."

The above opinions should be helpful to any of Our Women Folk who are considering the advisability of purchasing a vacuuj cleaser, either individually or "operatively. We have heard of women who have vacuum cleances who go over each room in the house at intervals and in this way avoid an accumulation of dust and this does away with a general upheaval in the spring.



House Plans Which Captured Prizes

A second second

which captured first and second prizes in the contest as they appeared in The Farmer, one of our United States contemporaries.

The plan which se cured cured first prize shows the office to the left of the front door entrance and the living room to the right. From the office a door to the left leads to an outside porch and the cellar. The living room is a large cheerful room, having five windows having five when and a fireplace. Beroom and kitchen is a cupboard in the wall which is a good fea ture. The stove, work

table, sink, ets., are also placed with a view to convenience. Note the wash room and men's tollet on the rear porch to save tramping and splashing indoors.

The second prize plan is also workly of attention. A freeplace and a window with the work of the faitures of the suggested for the dining room. There is a washroom in this plan also, and a shower bath is one of its commendable features. The screened porch off the kitchen and the living porch off the dining room are features which should make a home very attractive, as the porch off the dining room could be used both as a dining and living room whold make a comfortable work room. Or if desired, these porches might be used as deeping quarters. A room which may be used either as an office or bedroom is conversiently placed.



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How the Girls Have Answered

U P till the last couple of weeks the norsehold editor has that has been approximately approximately approximately of the second second

Amazing Brain Power

(FIRST PRIZE.) M¹ Dear Jack: Your loving letter is still warm in my hand, and below here a more happy girl would be hard to find. The development to brain of the still below. The one's wondertilly unique dises. That have been been been been been the prime of the still be married. (randfather held the relis in one hand and grandmother's in the other. You could do the same!

The laber-staring devices you hought must have slackened your purce strings considerably. I was so tickied ever the tub. as I get into a tub and tranp my blankeit, quills and grain basw with my feet. I couldn't do that rerr well if I had a machine. And I can make soft scap out of the juice of ashes with some grease added. To a part of this I add a little sait and some of ma's Sunday peppermints, and make the most delions to loilet soap were made. We can keep that for Sundays and for company.

Bundays and for company. Milk cows if I guoids I can milk ows, as this was an art I learned when guite young. We take Parm and harry, a grand paper published in Petetror. If is a weakly paper but, belaw me, you need no other. To save writing I will tall you that it can give reason of course the other of the take the meeds of the farmer. They will persist in trying to see the farmer to bay milking machines. Our cows won't come willin half a wile of the harm such the interval of 15 or 20 cows. farm and Dairy does not take kindly be the meeds of the system; and the farm to milk a herd of 15 or 20 cows. Farm and Dairy does not take kindly be the meet in the word is not take the meet in the set of the start proved in the set of the set of the farm to milk a herd of 15 or 20 cows. Farm and Dairy does not take kindly be the set of the set of the set of the farm to milk a herd of 15 or 20 cows. Farm and Dairy does not take kindly be the set of the set of the set of the set of the farm to milk a herd of 15 or 20 cows. Farm and Dairy does not take kindly be the set of the farm to milk a herd of 15 or 20 cows. Farm and Dairy does not take kindly be the set of the set

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trmed. My darling, yos should see our siting room carpet. It is rawishingly beatiful with all the colors of the rainbow in it. Thave some wonderfully pretry tights for site chairs, two vases and a Sheerful decoration of preserved coffic plates, five in all, pretaining respectively to grandfather, grandmother, a broker, siter Ann, and a hired man who died here once. We will beyn to get in man. as

and a hired many war used the pans, a shinner, a strainer and an old-fashhered fash shurn. None of these new indangies churgs for me, where a woman ets with a dime novel and



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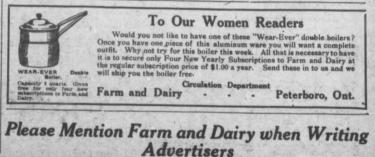
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FARM AND DAIRY



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Assurance Company of Canada

Waterloo, Ontario

churns with her feet. Really chat's the way they make butter now, but I guess they use their hands to wash it. We will talk ever a separator later. Don't buy one. I could be bet-ter employed hosing potatoes and corn with you than washing the hundred and one bits of tin connected with it.

and one bits of the connected with it. I was sorry to hear you were lonely dear. I am a nice housekeeper, as you say, and word 'we have the good Jol'y chats, jokes and chummy jachorees. I would go to Greenland's loy moun-tains with you if it were necessary. I always feit sorry for you dancing at-tendance on that will-o'-thewisp of a Minale. Work the envy me walking up the aisle next Sunday. I trust her ring fits me. ring fits me.

ring fits me. I have a friend who got married for 15 cents. He gave the parson 25 cents and he gave him 10 cents back. Yea do the same dearie. They only give the fee to their wives to deck them-selves in frills and furs. I simuly contrastic back the same the

I simply cart write about anything but "conserve," I don't know why when you are so ravishingly extrava-gant. But I am looking forward to that bank account at the end of the year. Ma is giving me three sealers that bank account at the end of the year. Ma is giving me three scalers of pumpkins which she put down last fall, flavored with her church pepper-mints. They are simply delicions. We can grow all our preserves in the garden.

Well, my darling, I must away and get my beauty sleep. I simply can't wind up without giving you one of my favorite poems:

favorite poema: "The rose is red, the violeta blue, Honey is sweet, and so are yot," With an a bundance of love and good wikhes, I will say good night and happy dreama..."Madge." P. B.--If you don't mind I will call you "Jacky" after we are married. Every dog we ever had Pa called them Jack, after a favorite brother who died in the East Indies.



(SECOND PRIZE.)

D EAR JACK: I acknowledge the receipt of your ardent (?) letter and shall therefore proceed to give careful thought to answering

give careful thought to answering same. Td just love to ride down the read past Peterson's on your big sorrel mare (or I believe I'd like the gray better) with your statwart figure striding gallantly in advance. I can just are you stepping high and lightly with your fresh-pollahed shoes ahin-ting in the sumshine, as you tried to miss stepping in the puddles. Really now that I have the picture so fresh in with our fresh-pollahed shoes in with I can't think of anything id like better (sceept riding in Jim. Work and and powdered the end of your and the teenth or event of a tiny bit and powdered the end of up nose. Midnie did L krow. I confess it sounds tomyting to hear of those lovely things you hought, es-

of those lovely things you bought, especially the mop and the washboard. dote on a washboard-when I see a I dote on a washboard--when I see a man performing on it. But goodness mel you forgot the soft scap and "Old Dutch Cleanser," and how you expect any woman to keep house without those life and labor savers, I don't know. As to prunse--too expensive--try dried apples. But the see, ddd adu sees consider

By the way, did you ever consider how much it would take to keep a wife in talcum powder, face cream, hats and parasols for a year? It comes awfully expensive, I assure you. (I use all of those).

Your proposal and become your alaye-a mere alip of the pen. I meant wife-I will give you some advice. Get a iranter to help farm the 50 acres, a faw calves to do the milking, and a monkey to annue you, and you'll see just as happy, while you'll save more money. In short, you'd be set up for life. life.

HIR. Well, good-bys, Jack. Wish you luck. Oh, perhaps, you'd better not come Wednesday, as I expect to be busy. Give my love to dad.—"Madge."



April 11, 1918.

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Suggests a New Plan of Attack

THRD PRIZE.) WILLI Hello, Jack: You are the guese lad! I never dreamed you wanted to get married. So you bought a "lot of things"-If you're sait baying a broom wouldn't you need

part subring a broad would be you need a showal first? What's the looking glass for? To watch myself starwing to death, on prunes? I don't gare much for them. I maybe could eat the flour and tea. Oh, Jack! I'm not scared on horse-toot bet for subher or in a huncer to

back, but I'd rather go in a bugy to get married. Maybe you could "bor-row" your ma's, so you'd be sure how she'd feel about lending other things such as dishes for the threshers. I hurt my finger and I couldn't sew rags

hort my mager and r couldn't sew rags for the stitut-room carpet. What shall we at upon? The except?. 1 don't like to marry you just to learn to milk, keep house and be good company. If we hat you to love me mort than Minule's so much you couldn't me if did "modifies," my I'dla gaing would work me dight of her and make me work to repay. Minnie's ring would make you think of her, and make me feel badly. Better sell it and buy some yeast caloss. Now, Jack! I'll tell you just what I

Now, Jacki I'll tell you just what I fink. My education does not keep me from hyring an up-bodate farmer, but you perhaps don't know what will make you that. I do. Subscribe for "Warm and Datry". Read ill. Fix up your Sbeere farm, put in the modern anveatences the farmer's wife as-noveatences in them Minnie will be sorry she poot, hade as were send will nuchers. eeds, than Minnie will be sorry she erst back an yoe, and will be prinzp rear the ring yet. On, yes, Jackiel yr ab egge-don't blane any girl yr set caring shout being "cadged" and on horse-sheat, with you "trudg-g" behind. You skit the more you umbut shout it the more you loved an Fissas don't think shout it then -youring set. Kinnis yet. Good-bye. col hack.-"Mindage."

Protests "Jack Contest"

S a bachelor I beg leave to en ter a mild protent against the "Jack Contest," which you are sarrying on in Fann and Dairy. In earrying on in Farm and Darry. In the first place I wish to place on re-sord my undying opposition to our friend "Jack" being beid up as an axample of the fristernity of bachelors. Jack is an impossible character-the oduct of some brain that thinks of farmers in terms of overalis and whiskers-a species of animal once sup-gooed to inhabit certain sections of America, now happily extinct. And were all bachelors as ridiculously molish as "Jack" would appear to be, normal as Jack would appear to be, they would be snapped up as easy marks. Oh, it takes a clever man to semain a bachelor these days and a WATY OBB

But the primary reason for my protest is not so much against an erroneous idea going forth as to the nature of bachelors, but rather that much good effort will grobably be wasted 'on Jack's case by our girls. Effort that might be turned to better account on some real bachelor. I can count among my acquaint-

ances at least a dozen young bachelors -bright, upstanding fellows with more than a grain of sense and with good prospects who are bachelors simply because they have not met the simply eccases they have not met the right with Now among the girls who read Parm and Dairy you will deal mattes for these backboders. In this connection, however, I merely sug-gest the field of usefulness which has at your hand availing cultivation.

But uside altogether from the man-But make altogether from the man-squarest of a marimonial bureau, how much better in choosing a sub-ject for a content to have, your fair contributors write lotters in which for well not be obliged to transp up farced contations for impossible site. ations, Have them write rather real betters in reply to a real bachelors communication. This could be carried

on incognito on all sides and each contributor would get the opportunity of writing her real opinions-the only type of writing that really develops the writer. This is merely a suggestion from a mere man .-- "Sam Ray."



Maple Sugar Recipes'

OW is the time of year when we N like to try out maple sugar re-cipes, especially if we have a maple bush on our own farm. Even those of us who do not tap our trees will no doubt be able to secure a small supply at least of this delicious maple product. Herewith are a few recipes worth trying out:

Maple Sugar Sandwiches.

Cut and butter slices of white or brown bread, scrape maple sugar and spread thickly on the bread. These sandwiches go nicely with coffee. Maple Ple.

A nice filling for a pie can be made from one egg, butter size of a walnut, one tablespoon flour and a cup maple syrup.

Maple Sugar Sauce for Puddings. Melt over a slow fire in a small tea cup of water, one-half pint of maple sugar, let it simmer, removing all

scum. Add a quarter of a tablespoon of butter mixed with a level teaspoon flour and one teaspoon of grated nut-meg. Boll for a few minutes and serve with boiled puddings.

Maple Rice.

FARM AND DAIRY

Maple Rice. Boil rice in the usual manner until tender, then add a quarter cup of cream and half a cup of milk. Cook slowly until liquid is absorbed. Turn into a buttered pudding dish, pour a cup of maple syrup over the top and stand for about five minutes in the

Maple Sugar Tea Biscuits.

Maple Sugar Tea Biscuits. Take one quart flour, one even tea-spoon salt, three teaspoons baking powder, one large tablespoon butter. To make a very soft dough, sift flour, salt and baking powder together, work in butter and add milk. Pat well with the rolling pin, then spread with maple sugar, roll up like jellyroll and cut the **biscuits** from the end, bake and serve hot, eating with butter.

Meatless and Wheatless Sug-

HEN one commences to think gestions just what they can prepare for a meal which will constitute a meat or wheat substitute, it is not always easy to bring them to mind. In the first place, we might jot down some of the meat substitutes such as poultry, fish, eggs, cheese dishes, bak-ed beans, bean loaf, nut loaf, bean

coup, milk soup and other soups, as well as various dishes in which milk forms the basic principle. Some sub-stitutes for wheat bread, are corn bread, brown_bread, oatcakes, buck-wheat cakes, potato biscuit, rye bread, potatoes, rice, etc.

(25)

Below we give a few suggested menus planned by the Home Eco-nomics experts of the New York State Collège of Agriculture. There may be ideas in these menus which will ap-peal to Our Women Folks and they can be added to or changed about as desired. We are just publishing them as suggestions:

Cream of tomato soup; graham bread; apple sauce.

Toasted cheese sandwiches; orange ad onion salad. and

Mashed potato; scalloped tomato; corn bread; baked caramel custard. Scalloped potatoes; buttered beets; oatmeal bread; cottage cheese served with jelly.

Baked sweet potatoes; scalloped cabbage; oatmeal bread; baked rice pudding with raisins. Bolled potatoes served in cream

sauce; baked winter squash; rye bread; junket served with stewed fruit.

Cheese pudding, baked apples and molasses cookies. Cheese souffle; apple and onion

salad; corn bread; date graham pudding. Creamed codfish; haked potatoas; sliced onions; johnny cake.





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The Outlook for Canadian Dairving (Continued from page fo)

cows are expected to stand around an old straw stack in snow and cold rais, or housed in an old stable that and the stable stable stable that of the stable stable stable stable and the stable stable stable stable diarymemeralize the most potent influence, in the building up of this might-ence, in the building up of this might-iest nation in history, is the cow; con-sequently she is treasted with more re-septect than ever before. As she helped to develop the prairies from the wilder-nes, and also of its fruits, so will she cows are expected to stand around to develop the prairies from the wilder-ness, and ate of its fruits, so will she renew the life of the soil and make a still greater Manitobs, and all agricul-tural occupations more delightful and profitable, as she furnishes the cheapest food that money can buy

British Columbia Dairying

T. A. F. Wlancko, Provincial Dairy

Instructor. THE progress made in British Co-Tiumbia dairying during the year 1947, while not preat, has been fairly-satisfactory provided throughout the whole we be provided throughout the whole we received for reconstraint of the dairy farmer reconstraint whole have been impos-bills in carry and at a wondt.

sible to carry on at a profit. The labor problem has been a very serious one indeed, owing to heavy enlistment for military purposes from the agricultural population. However, the rapid development in the efficiency of the modern milking machine is be or the modern milking machine is be-coming an important factor in reduc-ing operating expenses connected with the industry throughout the province. A great many machines have been in-A great many macannes nave eeen in-stalled during the past year, and these are giving such good satisfaction gen-erally that their aumbers are sure to materially increase during the current year. Machines of nearly every kind are in use in the Province and all seem to be giving good satisfaction when properly handled and careed for. Many users are convinced that the machine will do better work than the average will do better work than the average hand milker, as the cown are milked at the same speed and pressure at every milking. The machine does not get tired, and success with it seems to be measured in exact proportion to the amount of brains used in its operation and handling.

The following is a comparative statement showing the quantity of dairy products produced in the Prov-ince in 1917 compared with the previous year!

Butter 1,859,474 43,400 Cheese Cheese 43,400 Milk, fresh 11,329,420 gals. Ice Cream and Evaporated included ...

From the above statement it will be seen that the production of fresh milk, consumed as such and used in the manufacture of ice cream and evaporated milk, shows a very substantial crease during the year 1917, while the increase in butter production is small. This is accounted for by the fact that This is accounted for by the fact that the manufacture of evaporated milk has increased very greatly and that this increase was largely at the exthis increase was largely at the ex-pense of butter production. In the Lower Praser Valley and in Comox District on Vancouver Island milk that formerly went into the manufac-ture of butter has now been diverted to the manufacture of eraporated milk, owing to the higher prices which now pring to the higher prices which now Batter and the second second second second material that sufficients batterist for the Broduction of one and a sumater milproduction of one and a quarter mil-lion ibs. of butter was used in the manufacture of evaporated milk dur-

manufacture of evaporated mits dur-ing the past year. The progress made in testing dairy daties for bovine tuberculosis during the year has been highly satisfac-tory, should sisten thousand tests extern being found. This farmes out to the smallest percentage of resatory in propertion to the number of estile

April 11, 1918

tested since the work began. In 1913 tested since the work began. In 1913 when compulsory testing was first be-guin, the percentage of reactors was slightly over 13%. Comparing these figures shows a very rapid decline in the number of reactors, and indicates that this dread discase is being held well in check and rapidly disappear.

The Dairies Regulation Act which

The Dairies Regulation Act which came into force last year provides that every creamery or dairy or other milk handling establishment of any

milk handling establishment of any kind accepting and dealing in or pay-ing for milk or cream on the basis of the amount of butterfat contained therein, must be licensed and have

therein, must be licensed and have in its employ a properly qualified milk tester. In siging up this Act, after the few months it has been in opera-tion, it is reasonable to believe that

its judicious prosecution is resulting in the unification of the several dairy

interests of the Province Into closer and more cordial relationship, and in

placing the industry on a more per-

lishment of confidence between the producer and purchaser

The outlook for 1918, while not per The outlook for 1918, while Bot par-ticularly promising, owing to labor conditions, does not, however, present difficulties that cannot by proper management and foresight be over-come. The problem of an adequate supply of mill feeds is one that is caus-

ing serious concern and may have a

serious effect upon increased production. The more progressive dairy

serious effect upon increased produc-tion. The more progressive dairy-man, however, is figuring abead, and knows that he must provide feeds suitable for economical milk produc-tion, even if mill feeds be largely out

of the question, and these men are pre-paring to grow more largely such

crops as clover, peas, oats and vetch, which yield a large tonnage of cheap, succulent foods when properly stored

Silos have increased in number

cilos nave increased in humber very rapidly during the past year or two and by present indications this year will see silos on many farms

year will see silos on many farms where they wore not even thought of saveral years ago. The silo appears to be a solution of the labor problem also, in that clover and pea and oat silage will largely take the place of roots and corn silage, which involve much greater exponse in growing and

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in silos.

1917. Value

ing from our dairy herds.

April 11, 191

man reduced. were dried of which should The high pr prevailed durin years has also dairying. It has in these wests desirable help now that the l ing more comp difficulty in obt We Incross05. who contempla run with the co nough to ma

put. With an abi pasture, which an month that the high Di be obtainable summer will r years. The ye stantial increa held its own, the comin

The high pri stock have stin all breeds, and all breeds, and to say that the tial gain in th Saskatchewan or three years. however, has the beef breeds of milch cows ing each year. The labor p farm. Experien are needed at though it is a son to state right class of less efficient strenuous time will have to h afficient assista get back to not o doubt lower abor, I expect this province a

How to

W HEN three two year leigh intr this continent is could have fore immense part t play in feeding ly 80 years bed of England tool the potato as a famine. In al famine in Scotle into extensive n of food. Anoth France taking n W. T. Macoun, 1 turist, briefly a hundred-page b by the Departm tawa, in which and comprehens the cultivation

Mr. Macoun g the soil, of the of the manner a of protection ag diseases, of the districts best s varieties, of the taken during gro storing and ship also given of ments and tests mental Farms al the Dominion everything in th that is of valuwith many exact trations, is to b tin that can be i the Publications of Agriculture.

The local market for dairy products is scarcely excelled by any country, and as a consequence prices are quite satisfactory. The importations of but-1916 Value \$ 696,116 3,960 9,113,500 gals. 2,551,780 3,251,856 ter and cheese have in the past years run into the millions of dollars. Even with greatly increased production an ever widening market is assured so long as quality is maintained. Because of the fact that the dairy

cow is capable of making the most economical use of foods, in themselves insuitable for human consumption, we believe that the future for the dairy industry in this Province is very promising and that our future type of farm-ing will be largely dairying.

The Outlook in Saskatchewan F. M. Logan, Dairy Commissioner.

F. M. Logan, Dairy Commissioner. THE nusual price of grains has probably been the higgest fac-tor affecting the dairy industry during the past few months. With ests selling from 80c to \$1 s. b ushel, and with wheat at \$2.30, and barley from \$1.80 to \$2, ic could hardly be expected that any large quantity of grain would be field to milking cows. As grains in recent years have been grown in abundance, they were usually fed in Second years have been grown in abundance, they were usually fed in abundance, they were usually fed in considerable quantities to milding considerable quantities' to milking stock, and the farmers have not yed provided a substitute, with the result that the winter supply of milk has

FARM AND DAIRY

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been reduced, as a good many cows were dried off during the winter which should have been auking. The high price to past auking years has the had its effect upon dairing, western provinces to obtain desirable heigh for milling cows, and has that he labor problem is becom-see more complicated every day. the now that the labor problem is becom-ing more complicated every day, the difficulty in obtaining suitable milkers increases. We hear of a few farmers who contemplate letting the calves who contemplate letting the calves run with the cows, but I do not antici-pate that these will be numerous enough to materially affect the outwho nut

with an abundant supply of good With an abundant supply of good pasture, which is obtainable in almost all parts of the province during the summer months, I am of the opinion amore months, I am of the opinion int the high price which will probably a ubianable for butter during the summer will result in keeping up poletion close to that of recent year. The year 1918 showed a sub-tantial increase of duity products or that of provious years, 1917 about bad in own, and unless something inforesens seriously affects produc-rian the coming seation, I do not an-pate very much thange in either

The high prices prevailing for live stock have stimulated an increase in all breeds, and I think it is quite safe to say that there has been a substan-tial gain in the number of cows in tial gain in the number of cows in Saskatchewan during the past two or three years. The larger increase, however, has probably been among the beef breeds, although the number of milch cows is undoubtedly increas ing each year.

The labor problem in connection The issor pronem in connection with dairying does not end at the farm. Experienced and suitable men are needed at the factories, and al-though it is a little early in the seanomphilis is a little early in the sea-en to state definitely, minimation of the point to a decided shortage in the right class of men. This will mean less efficient work and probably a porrequility obtains, but in these streamous times employees of labor will have no tanone. Whene conditions affi have to normal, which will mean a doubt lower rain prices and norm get back to normal, which which which no doubt lower grain prices and more habor, I expect to see dairying in this province advance rapidly.

How to Grow Potatoes

W HEN three hundred and thirty-two years ago Sir Walter Ra-W leigh introduced the potato from this continent into Ireland, nobody could have foreseen or imagined the play in feeding the workd, it was near-ly 80 years before the Royal Society of England took up the cultivation of the potato as a cheap food in case of famine. In another eighty years famine in Scotland brought the potato into extensive notice as a cheap article of food. Another thirty years saw France taking notice of its value. Mr. France taking notice of its value. Mr. W.T. Macoun, the Dominion Horticul-turist, briefly explains all this in a hundred page bulletin recently issued by the Department of Agriculture, Ot-tawa, in which is also given complete

tawa, in which is and given complete and comprehensive information as to the cultivation of the potato. Mr. Macoun goes fully into his sub-ject, dealing with the preparation of the soil, of the varieties of seedlings, of the manner and method of planting. of the manner and method of planting, of protection against insect peaks and diseases, of the time to plant, of the districts best suited to the different varieties, of the care that should be taken during growth, and of garmering, forcing and binning. Testingness asso taxen turing growth, and of garnering, storing and chipping. Particulars are also given of the results of experi-ments and tests made at the Experi-mental Farms and Stations throughout metal Parms and Stations throughout the Dominion In short, pretry well everything in the shape of information that is of value to potato growers, with many exact and interesting illus-thic that can be had free on addressing the Audications Branch, Department of Autochicas Ottorent of Agriculture, Ottawa.

Sweet Clover Experience

SEEDED my first sweet clover

in the spring of 1915," re-marked Mr. Samuel Arm-1 marked Mr. Samuel Arma-strong, of Peterboro county, when he dropped in recently for a chat with the dditors of Farm and Diary, "The next year we cut a great crop of aweet clover hay. It must have run four clover hay. It must have run four joins to the acte. There were 16 loads and it weighs heavy. When 1 cut that crop I tilted the mower bar as high as it would go, but did not put on shoes. I had been told that sweet clover would give two crops in the season, and about 16 days after cutting I went out to look for the sec-ond growth. The stubble was brown and hard and bare. There 1000 and hard and bare. There was no second growth. I had killed the field completely. That year I seeded down another six acres. The crop was cut on June 28th last spring. It must have rained on the clover for three weeks before we finally got it three weeks before we maning got it into the barn. All the leaves had dropped off, and when we started to feed it to the cows it was anything but desirable looking stuff.'

"Eat it up clean," Mr. Armstrong assured us.

good clover and timothy before that, and if anything the cows have gone



up on their milk on that hadly weathered sweet clover. "How heavily did you seed?" "We used 15 lbs. of white sweet.

clover seed to the acre. Where not

heaved out by frost the stand was as thick as one could desire. It is a good crop, and I am sorry now that I did not seed down more of it last





(28)

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PLEASE MENTION FARM AND DAIRY

FARM AND DAIRY

Small Dairy Farm That Brings Large Cheques (Continued from page 7.)

to relish it right from the start. The Manufacturing End.

The profits from this farm, however, do not come from the large crops as such, but from the finished product in the form of milk. Mr. Allison milks 16 cows and aims at from five to five and one-half cans of milk a day the year round. While it is 14 years since Mr. Allison bought his first pure bred he has ai wrys had some grades on hand, because in shipping milk to Montreal it has been necessary to have cows freshen at different times in the year and he does not like to have his pure breds freshen at certain seasons. As the main profit from the farm is from the main profit from the farm is from the sail of milk, Mr. Allison has never decided that it was wise to get rid of a good milker just because she was a grade. Now, however, that he is shipping to the condensory at Chesterville and consequently is not under contract to knew bis milk way. under contract to keep his milk sup-ply uniform the year round, he is planning to sell off the grades he has in his stable and replace these with some breedy young purebred stuff that is coming along.

Mr. Allison's efforts in the breed-ing arena have not always met with the success for which he must have hoped. For a long time after he started into pure breds he was so unfortunate as to have a preponderance of bull calves. However, he has al-ways made it a rule to keep animals with good breading and the stuff he has had for sale has always sold well

and helped out in the farm's returns. and helped out in the tarm's returns. It is quite a while since Mr. Allison first decided that on a small farm where most of the concentrates are bought, it is necessary to have qual-* ity in stock rather than quantity.

The foundation of the pure bred The foundation of the pure bred herd was laid 14 years ago when Mr. Allison bought a couple of Holstein heifers from the Honey herd. In building up to what he has now, much credit may be given to one of the herd sires he had in his stables. This was Sir Ata Posch Beets, the sire of Like Schetz Beets Beets, the therefore grandsire of May Echo Sylvia. One of the daughters which Mr. Allison got from this sire was Alta Posch Beets Maid with a R. O. P. re-cord at two years old of 13,476 lbs. milk and 598 lbs. butter. She died milk and 598 hbs. butter. She died from black leg, however, when only three years old, leaving one daughter, Alta Fosch Sogis, sired by Sir Lyons Stock Farm. She has a seven-day re-cord at two years and 10 months of 580 hbs. milk and 337 hbs. butter. Mr. Alleon has ded as des of \$800 hcs. Allison has had an offer of \$800 for this heifer on several hands, but has refused the now has a nice heifer calf from her by Riverdale Lyons Echo Posch, a 33-36, bull from Sir Lyons Segis, and he refused \$200 for this calf when born.

Another of the good cows in the herd is Netherland Queen Clara. She is a good milker and has freshened every year, thus fulfiling the two re quirements necessary for any cow

Meeting Larger Markets

For years after the war, Europe will continue to require all the butter Canada can produce for export. With markets assured, farmers and dairymen demand a cream separator (1) that demand a cream separator (1) that pense and delays of canada and the pense and get hager capacity; (2) that will get the greatest possible amount of first quality cream. A machine that first quality cream. A machine that meets both requirements is the



Interchangeable Capacity-When Interchangeable Capacity—When your herd increases you can enlarge the capacity of your Renfrew by simply changing the bowl and attachments. The Renfrew has but one size of frame and driving mechanism—suitable for the highest capacity. If you have a 350 pound capacity machine and later want to enlarge it to 450, 650, 500 or 1000 pound capacity, all you have to do is to order a bowl of the larger size with attachments—not the whole machine.

A large production of rich cream-Maximum production of firmer, sweeter butter-fat from the milk is accomplished by Dutter-rat from the mile is accomplished by the Renfew sexualize curved wing center-plece. The Renfew skims down to the last three owners in every ton of milk skimmed. If you have eight cows or more, this means a saving of butter-fat over the results from ordinary machines that will soon pay for the Renfew. Renfrew

The Renfrew's close skimming records are fully explained in our latest illustrated book-let, also results of tests by Government Dairy Schools.



CANADA

capacity I do not have to change the whole machine -just this bowl"

"To increase the

Write for illustrated booklet to-day. It explains also the Renfrew's self-oiling system, its easy-to-run, crank: its mile-tight and dust proof neck bearing and other important features.

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NOTICE: The Renfrew Separator Blustrated here was formerly add under the name "Standard," which iden-name "Ren with efficiency cream separator. The name "Ren with efficiency cream separator. The for several years for our United States and foreign trade and under that name has become as a popular in State and the state of the same "Standard" in the creation of the same "Standard" in the creation of the same "Standard" in the creation of the same state state of the that of our company and so that we can sell the works under a uniform assoc throughout the world.

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Meyen month From importe a good size, it is well worth ence invited aught to please

ALLAN WINI

or MILK,

that wants to stay on the farm. As a four-year-old she made 14,482 Mm. milk and 708 Bbs. butter on ordinary feed, and being milked but buter on day. These are just a few samples which show the type of stuff Mr. Alls son is breeding. While his milk which show the type of state ar. Alls son is breeding. While his milk cheques are looked upon as his in-come, yet the occasional sale of pure bred stock from his herd always helps to offset the high cost of living of which we hear so much these days

Mrs. Allison and the Poultry.

Mrs. Allieon and the Poulty. The milk estipoint type of dairy family is a colo conductive to many side of the second conductive to many side present of the same size and the present on the farm because of the side price of feed and the diffusive side price of feed and the diffusive side price of the same size and the side size of the side of the side prime to the same size of the side side of the side virility of the flock by buying a couple of new settings of eggs each spring either from the agricultural college Guelph or Macdonald College. By By als ternating in her buying, the cockerela are not related to the breeding hens. All the eggs produced on the farm

An the eges produced on the farm during the past five years have been shipped to the same grocery man in Montreal, except those reserved for sale as settings in the spring. Through sale as secures in the spring. Through careful feeding a goodly supply of eggs is obtained through January and February, when the prices are high Two years ago Mrs. Allison kept track

Two years ago args. Allison kept track of everything sold, and found that they had sold in one year from 190 here \$750 worth of eggs and meat birds. Yea, the 55-acre farm of Paraham Allison is a good one. It is stimated in the midst of a fine dairy dirtic and is birt a wills and a bay fourth and is but a mile and a half from the and is but a mile and a nam from he station and the large milk condemery at Chesterville. The buildings are well painted and kept in good repair. Ample supplies of strawberies and the small bush-fruits are grown in he garden near the house, and lawns and yards have that well kept appearance which can often be found associated with small farms.

And the hospitality of the home well as the up-to-date fittings found as well as the up-to-date fittings tout inside the house, fullil the promis of comfort which the visitor cets as setting spees on the farm. The house is built so that the kitchen and large living room get all the light and us possible. The kitchen has a built kitchen enablet and a sink supplet with hot and cold water always as i.e. Ursstarm is a committely have tap. Upstarrs is a completely fur-ished bathroom which, finished as it is in whice, will compare favorably with the baths in any of our cir-homes. The home is well supplied with reading matter, two daily papers. Several farm muscrimers the bath of the several farm with reading mission, and unity paper, several farm magazines and a couple of magazines of general interest he-ing subscribed for each year, while a well stocked bookcase and a playa wen scored books and a pay-er plano in the living room show that the intellectual and social sides of life are receiving their share of attention in the Allison home. In his district Mr. Allison is known

as a good dairy farmer. His fields are fertile, his crops are good, his surplus stock sells well, and though the acreage of his farm is not large the receipts from it would compare favorably with many of our more extensive farms. On the other hand, is has an advantage over the large farmer when it comes to paying is his labor, as well as in the item of capital tied up in land. So one would almost be inclined to think that his net profits must be fairly easifactor. And after all, it is ullimate profits rather than gross incomes which de cide whether, or not a farmer cas as joy life as he should. tensive farms. On the other hand, he

Heistein o yeu try ju very soon HOLSTEIN TION, W. A St. George UMI



Imported Clydesda es. Also, two las buildings. **BALDWIN'**

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The Success of Your Sale depends largely on YOUR CHOICE OF THE RIGHT AUCTIONEER. A third of a century's experience has made us specialists in Holstein lore. Write us. F. H. McCullough & Son

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TYPEWRITTEN PEDIGREES with records up to date. \$1.00 a pices, including 2 extra carbon copies. Tet or more pedigrees in one order for catalogue work, in-cluding one copy only of each. The a pice. a piece. Catalogues \$3.00 per page, complete, including making out of pedigrees. Orders should be sent in early. The Canadian Holstein Sales Co., Simcoe Ont. Bell Phone 130.

A REAL BARGAIN

Young Percheron Stalion for sale --Beren months old, dark, gray with size, Tyoni mported Sire and Dam. He is of a good size, active and a fine type. He is well worth the money. Correspond-ence invited or come and see him; he suft to please you. Address-ALLAN WINGER. Stevenaville, Ont

I or MILK, BUTTER, CHE SE, VEAL Hoistein cows stand supreme. If you try just one animal you will yery soon want more. Write the HOLATEIN FRUBSIAN ASSOCIA-TION. W. A. CLEMONS, Sec., Ontario St. George

For Sale ---Jersey catt'e, bred in the purple. Imported and Canadian bred Clydesda es. Also, two large farms, w th modern buildings BALDWIN'S REGISTERED.

Coaticook, - - Que.

BOOKS Write for our catalogue of farm books. It is sent free on request. As us for information on any books you require. BOOK DEPT., FARM AND DAIRY PETERBORO, ONT.

use Amount of milk used to raise 14 calves, estimated as equal to 151.2 ibs. butter fat at rate of 4 lbs. per cwt., at 41 cts. 111,090 lbs. skim milk, at 25 cts. a cwt. 44.43 14 calves at \$8 after birth .. 112.00

Total\$1679.83

it is as follows: 11,109 lbs. of cream at cream

lies at 41 cts. 19 gallons cream for domestic

use

ery, value as per butter

I know there are farmers who make more money direct than I do, but in-directly the calves I raise add quite a value to my herd, and since I have a lot of skim milk I can raise hogs profitably. I took in more money through hogs than from my cows.-Allen C. Hallman, Waterloo Co., Ont.

- A Calf Meal

E DITOR, Farm and Dairy,-We have tried in this neighborhood a recipe for raising calves without whole milk and have found that they do just as well as on whole milk. The recipe was given me by a milk inspector in Michigan. The recipe is as follows:

One-half pound jinson. One-half pound salt. One pound brown sugar. Two pounds flax weed meal. Three pounds ground cat meal. We generally mix up about one

war in cold weather and one pint in warm weather, this being cooked into a gruel, giving about a tablespoon at the wiart and increasing to three.— Chas. C. Moore, Emex Co., Ont.

Selection of seed is an important point this year when labor is high in price. Get the best of good plump seed and of a variety that you know will do well in your locality.

Well Satisfied with Dairying



(29)

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422

FARM AND DAIRY

FEEDERS CORNER Conducted by E. S. Archibald

Buying Feeds in Advance

How one in advance is it advisable How one in advance is it advisable to be advised from the atomic to be advised from the atomic feed? These that 1 have particularly in sind are dried brewer' grains, bran, oct-of these feed adpreciate, cay, in 12 mone, after purchase?-C. L. Oxford Understandly the correct time to buy necessary millfords is during the summer, months, when ready trans-

months, when ready transsummer portation is a certainty and when the available supply usually to a certain extent exceeds the demand. There is extent exceeds the demand. There is nothing to fear from the purchase of any milleeds for delivery in summer, for all these feeds, if properly stored, can be kept until the following spring without any material depreciation. All kiln-dried feeds, particularly bran, shorts, brewers' grains, distillers grains and the like should keep algrains and the like should keep al-most indefinitely, providing they are piled in such a way as to allow a reasonable circulation of air. If, however, there appears to be any dis-bowiet of the rearranged accordingly. This, however, is very rare. Any milifeeds which contain a reasonable amount of oil, if properly piled, will undoubtedly keep for 12 months or more. However, there will be an an-

he polatable nos as sutritions sound for pound, as corn made from earlier maturing varieties of the north. Un-doubtedly there is a difference in the actual chemical content in favor of the northern varieties. Generally speaking, the immature corn contains a slightly higher percentage of protein and much lower percentage of carbohydrates and fats. The per-centage of digestibility is at least 10 centage of agestability is at least 10 per cent, greater in the case of the earlier maturing varieties. Hence, th selection of millfeeds to balance In selection or minreeds to balance the silage ration might be elightly in-fluenced by the varieties of corn ralsed, as probably more of the starchy grains, such as corn, might be required. However, I would judge that considerably more meal would be required to balance ensilage made from immature corn, and that this would be a more important considerawould be a more important considera-tion than the choice of meals. Con-sidering that a few Canadian seeds-men are still advertising varieties commonly grown and matured in the north, I would advise the Dundas County dairymen to obtain this seed If at all possible.-E. S. A.

Self-Feeders for Hogs

W Is have a small two and one-half are field in clover near the barn partures many hogs would this field to use self feeders. What grain ration outle we keep before them J-G. M., Oxford Co., Ont. A good field of clover, two and one-

More Crops with Less Labor.

A MERICAN farmers are confronted with the most difficult prob-lem which they have ever been called upon to meet-the recea-sity of increasing farm production with an ever decreasing supply of farm labor. To solve this problem, agriculturists have pro-posed a number of plana, some of the more important of which are as follow

peeded a hullhef up paras, some or the more important or winch are as the second s

seeds in order to insure better stands and larger yields. 6. A more careful orgunization of the farming business with refer-ence to live stock raising, cropping plans, soil fertilization, the most economical use of available labor, machinery and power which the farm affords, and the securing of necessary working capital to pur-chase essential equipment and supples. 6. Greater cooperation among farmers in each farming community in regard to exchange of farm labor and farm power and greater co-operation of farmers with other interested agencies and with the Gov-ernment in utilizing the information and other assistance which such agencies are gladly offering to give.

preciable decrease in weight. This applies to such feeds as blood meal. oil cake, cottonseed, etc. There is no out cake, cottonseed, etc. There is no doubt that the storage of any of the above meals for over 12 months or more will, to a certain extent, affect their palatability and, consequently, their actual value in feeding. However, from the experience of the be feeders, one is safe in saying that there is no danger from depreciation of feeds when stored six to ten months in advance.-E. S. A.

Mammoth Corn for Seed

Wiammoth Corn for Seed BEB by Farm and Dary that we will be able to get only Marmoth south-ern seed corn to plant for our silos try season, he will this compare, may with Wisconin in feeding waiter What variations will we have to make in our turned silage? We hay our concentrates early in the season, so I would like to know in good them if any change need to be a subscription of the season of the season of would like to have best authorities on corn for filage agree that cansidges made from the coarse, late maturing mammoth southern varieties is neither ag avect.

southern varieties is neither as sweet,

half acres in size, will, with the addition of self-feeders, provide sufficient pasture for 100 to 125 shoats born in the spring or early summer, would provide ample pasture for 12 sows and litters fed in the same way, but excluding the sows from the selffeeders. A very good ration in the self-feeder for young pigs on pasture would be two parts each of ground oats or barley and wheat middlings with the addition of one part ground corn. This is an excellent growing ration, but as the animals reach sufficient weight to finish the corn n be materially increased. An addi-tional feed daily of three to five lbs. of skim-milk per hog, especially dur-ing the first three months, will save a large amount of grain. Every care should be taken to provide good shel-ter for these pigs on pasture.—E. S. A.

Brown has a lovely baby girl, The stork left her with a flutter; Brown named her "Oleomargarine," For he hadn't any but her.

RENNIES SEEDS the best DON'T be half hearted about working your war garden-make it a big success-for all available land must produce food this year or somebody goes hungry. Rennie's seeds will help you raise big crops—their high stan-dard of quality and dependability adapts them for the war Follow The Stars FOLIOW The STRIP Wise persons follow the stars in a Rennie 1918 catalogue; for the stars point out exceptional seed bargains. Look for them and examine carefully the items they mark. You'll be aston-ished at the special offers. garden. oz. 14 lb. lb. .18 .5: .35 1.00 3.00 .75 2.25 .40 1.20 3.64 .25 .6: .30 .90 3.00 BEANS-Rennie's Stringless b. 5 lbs. 3.00 3.50 .65 MUSKMELON-Delicious Gold .30 - .90 2.75 .40 .75 2.26 2.00 .45 .20 .60 .60 .25 .65 .60 .25 Prepaid th. 5 lbs. 1.70 TURNIP-Golden Ball(OrangeJelly).05 2.50 Not Prepaid . Ib. 5 lbs .26 1.2 ONION SETS-Yellow Sets-Selected. 1.20 FLOWER SEEDS Pkt.
 FLOWER BELLS
 Fat.

 Lavender Gem Aster.
 15

 Early Blooming Common-Mixed.
 10

 Giant Yellow Tulip Poppy-California.
 10

 New Ked Sunflower.
 25

 Remnie's XXX Mammoth Flowering Hollyhock—Mixture.
 25

 Remnie's XXX Select Shirky Mixture—Single.
 10
 When buying from dealers, insist on Rennle's. If your dealer hasn't them, we will ship direct. WILLIAM RENNIE COMPANY LIMITED TORONTO DON'T ADVERTISE IN FARM AND DAIRY Unless You Actually Want to Sell

Farm and Dairy, Peterboro, Ontario.

Dear Sire:

In regard to results obtained from advertising in your valuable paper, we are glad to say we have been completely swamped with enquiries for cattle and have disposed of all the cows advertised, and a few more, at splendid prices, proving that Farm and Dairy, is all it claims to be as an advertising medium Wishing you continued success,

Yours truly. (Sgd.) ROSS McDOUGALL.

We have equally good results in store for scores of our other breeders We have equally good results in store for scores of our other preceders of good dairy cattle. If you have something choice to offer, do net hesitate to make use of the good services of Farm and Dairy in finding your buyers. You will be surprised at the results we can secure for you. Write us your advertisement or give us the fasts and arrange a neat ad. for you.

C. G. McKILLICAN Live Stock Dept.FARM & DAIRY, Peterboro, Ont.

Deal with Farm and Dairy Advertisers

A Natio ANAI mad the Carls oth, an National stock me be on a tral orga would ve affecting show it with ings held various : the form omanizat macting (

April 1

April 11, 1918

ell was a The me Wm. Sm tario, on stock ma of the N actor us ing was 1 sentative. amociatio amfed et mittan of the matte

After th anch a C the quest Cor place on ally decid be made u ed as fol chosen by Stock Uni Eastern (two by the addition t Committee of the new

The Cal Council w in all live to the var Canadian is to its co Council w as: Railwa railway an import and keting of ducts, heal gulations Jouse, cold ties for m ducts, incl Dominion all matter ment, farm tion in an including a public mot taining to

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Canadia Word tawa Forces has Office to in ada to sug will be urg supply the seropianes

As the in cannot be ingly desir cordial co mers wh seed and (distribute t anel Wayle to offer suit

A National Live Stock Council ANADIAN Live Stock interests made an important forward stride when at a meeting held in the Carls-Rite hotel, Toronto, on April oth, an organization was formed which will be known as the Canadian which will be known as the Canadian National Live Stock Council. For some time it has been foit by live stock men that the industry will not be on a firm footing unbil some cenbe on a new rooting unqui some cen-tral organization was formed which would voice the wishes of the live shock men of Canada, when matters affecting their interests were being togs held during the past winter the press associations have discussed the formation of some such central engalisation, and this led to the meeting of last week when the Counwas actually organized ell

eff was actually organized. The meeting was presided over by Wm. Smith, M.P., of Columbus, On-tario, one of Canada's best known stock men, and J. W. Brant, accountant stock men, and J. W. Brant, accountant of the National Live Stock Records, acted as Secretary. While the meet-ing was not very large, it was repreing was not very large, it was repre-entative, practically every live stock association in Canada being repre-sented either by a delegate or by a written expression of their opinion on the matter

After the meeting had decided that such a Council should be organized, the question of representation came the question of representation came up. Considerable discussion took place on this subject, but it was fin-ally decided that the Council would be made up of 11 members, to be elected as follows: five members to be chosen by the Western Canada Live Stock Union, three to be chosen by the Eastern Canada Live Stock Union; two by the Records Committee and in addition the chairman of the Records Committee will also act as chairman of the new Live Stock Council.

The Canadian National Live Stock Council will be the ultimate tribunal in all live stock matters. It will be to the various associations what the Canadian Manufacturers Association is to its component organizations. The Council will deal with such matters railway and steam-boat transportation, import and export regulations, mar-keting of live stock and other pro-ducts, health of animals including reconcerning same, wareenlations ouse, cold storage and abattoir facili ties for meat and other animal pro-ducts, including wool, advice to the Dominion Minister of Agriculture in all matters pertaining to his depart. ment, farm labor, Dominion legisla-tion in any way affecting agriculture, including grants and appropriations of public money, all other matters per-taining to agriculture from a Dominion wide standpoint.

Authority was given the Records Committee to draft a constitution. Be-fore breaking up the meeting the following resolution was passed: "Re-solved that this meeting go on record as being strongly opposed to any re-ductions in grants to fairs, or to the meandonment of fairs at this time."

Canadian Flax for Aeroplanes

W ORD has been received at Ot-tawa that Colonel Wayland of the Canadian Expeditionary

We tave this contains regrange or the Canadian Expeditionary Percenshas been requested by the War Office to immediately proceed to Can-sia to supervise the distribution of ther fax seed which it is anglicipated will be urgently required in order to supply the manifacturing needs for seroptanes in the near future. As the importance of these supplies nanot be exagerated, it is exceed-tagy deinable that there shall be contain consertion between the and and the seed to be own. Col-enter coloured the seron to own. Col-enter collaries terms to farmers sow-ber the seed. He is proceeding to

Canada at an early date and in the meantime enquiries may be address-ed to him, c|o Grain Exchange, Winniper

THE BENDER HOLSTEIN SALE.

A T the dispersal sale of Holsteins, held A by Mr. Noah S. Bender, Tavistock, 4353 oct 16th, the total recolpts were 4355 for Bankle bio price resultad was 4555 for Bankle bio price resultad was 4555 for Bankle bio price and the sale of John Morgenroth, Avistock, Other animals which sold for \$109 or over are as tollows:

saltanili which sold for 110° ur anart at follow: Terman Beauty Guese, Silö, Allan Youns, 110, Wm. Stock, Twylarck: My Iongorodd Veman, 810, Wm. Speck Iongoro

Patay Lyons, \$120, Fred Stock, Wavistock; Korndyka King Colantha, \$105, John Mas-ers, Beachville: Colantha Hengerveld Lyons, \$135, Wm. Kaufman.

FARM AND DAIRY

THE WASHINGTON SALE

THE WARHINGTON SALE. THE VASHINGTON SALE. A GOODLY crowd of buyers were present the complete dispersion buttom set the set of the set of

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MOST EMPHATICALLY NOT.

MOT EMPIATIONALLY NOT. M Are by dynamic results of the second se

of her test from the second to the in the interpret of Raphaelts Jo-from the owners of Raphaelts Jo-hanna, Aaggies and also published as a "Canadian Press Despatch," of mitk is awyrdford of 3/R4 its. 05-day record of May Eeth by Signa 5-day record of May Eeth by Signa Anghaelta Johanna Aaggies is un-doutbadly a great cow, but we re-port Signa by the fore she puts May Each Signa in the shade.

The Fence for Farmers Is the Kind That Lasts

The fact that Page Fences do last, is sufficient reason for their choice by practical, careful Farmers.

PAGE FENCES

We have seen, and maybe you have, too, some Page Fences, that were put up over 25 years ago. They were the first fences we made-yet they are still giving good fence service. Consider the satisfaction that those Page Fence buyers, of over a quarter a century ago, have received, from the money they gent. And Page Wire Fence is made the same way to-day, and of the same material as it was then.

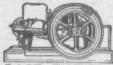
Actual Number 9 gauge wire is used throughout -in locks and all. It is subjected to an extra coat of galvanizing to give it added life and appearance. Quality and value are apparent in Page Fence to every Farmer, who really studies the wire fence problem. A Page Fence saves its owner money, because the one he puts up to-day will last his life-time. No money spent on fixing it up.

In these times you cannot afford to erect a fence of inferior quality, that will not last. Thrift is the watchword of the day-and the best way to be thrifty is to spend your money on only the best equipment, that needs no replacing.

Page Fence is well worth looking into now. Ask any authorized Page dealer, or write direct to us for catalogue and price list. For your convenience we have placed a coupon below. Simply mark a

We have placed a coupon below. Simply mark a, cross opposite the Page Product you are most inter-ested in. Send it now, while you think of it. Remember, we allow shipping charges on all or-ders of 200 pounds or over, to any place in Old Ontario or Quebec, when payment is made within 30 days.

Address to your nearest branch.



ENGIN AGE

Make light work of countless chores around the farm. The Page Farm Engine is a real help, because it does its work quickly; with never a "hitch." Yet its first cost is low, and its upkeep is almost nothing-2c. an hour for fuel.

It comes in five sizes, from 11/2 to 7 H. P., and two types one burning Gasoline and the other Gasoline or Kerosen Send to-day for complete information

THE PAGE WIRE FENCE COMPANY 519 Notre Dame St. West, Montreal. Walkerville ... Winniper

Send me prices and catalogue of Page Products I have indicated below. Page Wire Fence. Page Gates. Page Engines Page Woodsaws. Name Address



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

AYRSHIRE BULLS FIT FOR SERVICE.

ATRENTRE BULLS FIT FOR SERVICE. 1.-15 monthe: Dam, White Legged Christy, and price at Ottawa Winter fair dary test, 1317. 2.-12 months; Dam, R.O.F. 5,600 fbs. milk testing 4.64%. Both bulk Al quality. JAS BEGG & SON, . ST. THOMAS, ONT. No.

AYRSHIRES

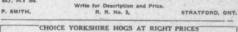
If you want Ayrshires of first class quality watch this space in future issues. PALMER BROTHERS NORWICH, ONTARIO



If you want to increase production, buy LAKEVIEW HOLSTEINS. LAKEVIEW STOCK FARM, BRONTE, ONT. . . T. A. DAWSON, Mgr.

CHOICE BULL FIT FOR SERVICE.

SIRE-Francy and's Hartog and, whose two nearest dams average 31.87 lbs. butter in 7 days, and 163 hs. milk in 1 day. DAM-Minnie Paladim Wayne at 3 yrs. old, butter in 7 days, 26.34 lbs., milk in 1 day, 16.3 hs.



Boars and sows, all ages, from best prize-winning trains-a few good bred nows, also younger stock. S. C. White Leghtorn eggs for hatching-Bar-ror's 32-seg strain. S. S. Brown Leghtorns, Barred Rocks, H. I. Kada, 32 per 13; 310 per 106. Faum and White I. R. Duck eggs, 33 per 11. Chinese goost aggs, 400 each. . . . MILTON, ONTARIO T. A. KING .

A Bacon Producer

Car - DO

CALDWELL'S

DRY

HOG FEED

Bearing Para Come, Gauss

Without an Equal In this crisis of world food shortage-

with its meatless and bacon-less days-it is important that stock be fed products that will produce most rapid gains at a reasonable cost. If you are fattening a batch of hogs, and want quick

results, start feeding

CALDWELL'S HOG FEED

We make two kinds-Molasses Hog Feed, in which the meal is thoroughly covered with molasses. It con-tains 11 per cent. Frotein; 3 per cent. Fat, and 8 per cent. Fibre. Dry Hog Feed is made from shorts, corn chop, oil cake, pea chop, low-grade four and 10 per cent. tankage. It con-tains 10 per cent. Entrankage. tains 19 per cent. Protein, 2½ per cent. fat, and 9 per cent. Fibre.

Order From Your Feedman. The Caldwell Feed & Cereal Co., Ltd. **DUNDAS, ONTARIO**

Successful Sale at Belleville

Large Number of Buyers Present and Bidding Keen

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Markan Barten, Streen and Stree

resent and Bottom Harvey, Lakefield; Korsa Kol, 110, E. C. Simonf of Pairview, 1906, N. L. rold Mineis DaKel, 116, 1100; Marien Ormeby, Hilton; Marien Ormeby, Hanna Or TERES TE ay Bos, \$235, H. ; Burke Bos On Mosecow; Dark evens, Bowman Vale, \$145, F. Ruby Pietertje 1, Campbelford, \$150, N. I. M Korde, \$160, C. ormsby, \$168, sey Ormsby, 1 aville; Bertha R. Mallory, e Triumph, \$ 4; Maplevale \$140 DeKol, 1180, N. I. Matcalle; Mis-Rag Apple, 1160, G. F. Reid, Cort-King Sylvia, Pietle (twins, 1920, H. per, Napanese; Pius Burkerys, 8166 Sexton, Dalay Gerben, Verbeils, H. Serripture, Righton; Male Calf (boy 8th, 1918), 8390, D. A. Molesod; Law Seris Prescott Boet, f185, W. R. Umings.

. April 11, 1918, |

AVRSHIRE SALE AT MENIE

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THE TWENTY-NINTH.

THE TWITTY-MINTH. Entrough preliminary response and by through preliminary response and by the second second second second to the second second second second second second to the second second second second second second to the second second second second second second second to the second sec

ELM LANE AYRSHIRES Two choice young built aig months old row R.O.P. cows, one from Mid-clow Fickle and way, is a second state of the second state of the second like and 244 like, of builter fat; in 1916, 2008 pix of milit and 264 like, of builter fat; in 1916, 2008 pix of milit and 2018 and For prices come and see or GEO. M. RENNICK, - R. R. NO. 1, ELM LANE FARM, VANKLEEK HILL, ONT.

April 1

QUAL T HE for May, journ dising, pi York, is

ing: Most a a terrible this work

-the gov printer, t copy write Interested like Olive more, mol "I talke

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AD. TALK.

QUALITY VERSUS QUANTITY.

HE following clipping, taken from the May, 1917, issue of "Advertising," a journal on publicity and merchan-sing, published in Chicago and New ork, is interesting and profitable read-

The devertisers fail to realize when the word screen and right be realize when the word screen and right be realize when the province of th

SEED CORN We can supply rost with accell-ent quality. Seed Corrs (Germina-tion about 90%) at the following priose PO.B. Lindsay: Mamoth Securiterin, 84.50 per bus. Learning Fedder, 84.50 per bus. Med Cot, 84.50 per bus. Med Cot, 84.50 per bus.

50e each. FEED, Fine Oat Chop, \$3.30 per 100. Barley Chop, \$3.90 per 100. Mixed Chop, \$3.20 per 100.

CARLOADS OF FEED OUR SPECIALTY.

Robertson & Padget LINDSAY - ONTARIO.

For Quick Sale Pure brod Holstein Bull calves, aired by a grandson of May Echo, 3,700-lb. cow and from choice fams with 100-lb, sired. Price \$40. Also a few heifers. Write me if you want a bargain.

JAS MOORE, R.R. 1, Almonte, Ont.

benefits by this policy? Assuredly the advertiser. MORAL: Patronize the paper with the guality circulation. Advertise in Farm and Dairy. C. G. McKELLICAN,

Live Stock Department, Farm and Dairy, Peterboro.

ST. ELMO HOLSTEIN NOTES.

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THE BRANTFORD SALE.

<text>

- SMITHDALE STOCK FARM -50,000 Hatching Eggs from choice bred-to-lay strains in single comb White Leghorns, White Wyandottes, Barred and White Hymouth Rooks. Eggs 31.50 per 15, \$7.00 and \$5.00 per 100. Send

C. E. SMITH, SCOTLAND, ONT.

BUTTERMAKERS' /WRAPPERS --Name and address printed-best parch-ment, 500 sheets anywhere in Ontario, 36.00; 1,000, 35.00. Cash with order. Farmors' Printery, Beaverton, Ontario.

ADVERTISE in these popular cot-umma, which others costs you only \$1.65 on inch.



(23)

425

BLOOMFIELD, ONT.

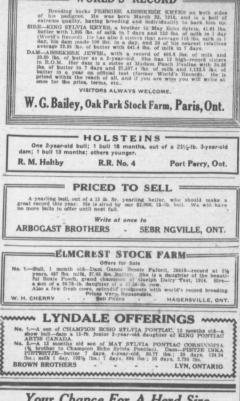


A number of our dary breaders where requiring use the columns of PAIM AND DAARY have on different occasions sent us copy too late to get it in the proper issue. This is a disappointment both to us and to the ad-point of the sent of the sent of the advertiser can runnely. It is necessary for use, I have a too, that only the advertiser can runnely. It is necessary for use, I have a too the sent of the sent of the sent of the sent for use of the sent of the sent of the sent of the sent of ATURDAY of Priday, as early copy means that we are able to give a more caveral service.

efal service. IF THIS MEANS YOU-you know what to do-mail your copy Wednes-r or Thursday of the week previous

LIVE STOCK DEPARTMENT FARM AND DAIRY .

Peterboro, Ont.



WORLD'S RECORD

Your Chance For A Herd Sire Hartog Butter King (17536) four yr. old

Rarrog Dutter Armg (11334) roury r. Ota Abull with seven 100 the cover in his pedigrees. Splendid individual, asfe and sure. Sire, GANARY MERCEDES PIETERTJE HARTOG TH, who is are of LENVE BOLERGES DIMENS 4714, Kalika, smith, 451 is habut Market and the seven and the seven and the seven and the market of the seven and the seven and the seven and the days. A 30 the cow for 5 years in succession: also champion R. O. P. in 3 yr. class for several years, with 15,40 hes. butter in 30 days. A 30 the cow for 5 years in succession: also champion R. O. P. in 3 yr. class for several years, with 15,40 hes. butters in 30 days. A 30 the cow for 5 years in succession: also champion R. O. P. in 3 yr. class for several years, with 15,40 hes. butters in 30 days. A 30 the cow for 5 years in succession: also champion R. O. P. in 3 yr. class for several years, with 15,40 hes. butters in 30 days and the several years. With 300 hes. The several discover we have about Bio of his helfers. so have in 7 days at 2 years.

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INTERNATIONAL STOCK FOOD CO., LIMITED

Ask Your Dealer TORONTO

INTERNATIONAL GROFAST CALF MEAL

MARKET REVIEW AND FORECAST

<text><text><text><text> T ORONTO, April 8 .- The most of the interest in market circles is centering in the firstion of circles is centering

market will be atrong for some time. Wheat Transmission of the second secon

crop, No. 7, 41.28, heating in stores. Montreast. Corres Grands.
Corres Grands.
There has been a decided tendency to-whether the store of the store proved transportation facilities. While there is an about a first store of American proved transportation facilities. While there is an about a first store of the store proved transportation facilities. While there is an about a first store mand for it due to the is little dec proved the store of American mand for it due to the is little dec proved the store of the stor

Mill feeds are still as coarce as ever. Toronto quotes car lots delivered. Mont-real freights, bass included, bran per ton, 355.40; shorts, \$10.40. Montreal quota-tions: bran, \$15.40; shorts, \$40.40; mid-dlings, \$48 to \$50; moullie, \$73 to \$75.

done bar to the monitories of the operation of the second second

Seeds. Many seedsmen are reporting a some-what hemited supply on hard and prices remain high. The following prices are being quoted for seeds per hundred pounds.-

arge late red	1.44	****		44.75	to 48.75	
litike clover				18.75	to 24.50	
hite Dutch c	love	F		25.75	to 69.96	
Halfa				28.00	10 34.75	
Grass Seed :-	200					
imothy	1		1000	10.75	10.00	
lue Grasses			0.11	20.00	10 97 00	

Seed	Có	•	١,		p	ę	r		b	ų	1	h	1.		ŝ	4	1			4.76		
Barley	6	Þ	ė.	r.	×,	Ņ	23	ł	١,				à	2	â	4		5		2.60		
Beans				•	*	ł,	į,	G				5								11.00		1
Bucky	v h	61	μ			ò	5	6			,								2	2.55	to	17
Oats					•)	ò	.,	à			,						5		÷			
Peas	\mathbf{e}_{i}			÷	.,			,		,		à.		÷			ï		ŝ	5.65		
Wheat		ć,		÷	• •								×						÷	3.65	to	
Seed	Fh.	6.2	ç								ï								÷	5.00	to	1

 Wheat
 3.68 (b) 173

 Beed Plan
 6.00 (b) 030

 Leg are represented by the second se

1	Live	WH	sight.	D	r ner	has
Chickens	27c	10	/00c	30c	to	008*
Milk fed	30c	to	00c	32c	to	00.0
Hens, 314 lbs	25 c	to.	00c	28c	10	00.0
Hens, 31% to 5 lbs	28c	to	00c	30c	80	004
Hons, over 5 lbs			00c	30c	to	00.0
Roosters	22c	to	00c	25 c	to	00.0
Ducklings	25c	to	00c	27c	to	00.4
Turkeys	30c	to	00c			00.4

Dairy Produce

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

ment has been made. Live Stock. The top of the market, this work for stars choice acille was slip by ever, this imprice from \$12.55 to \$12.50 per cet. The hop market was unverticed. May and watered. On Thestay the price re-form \$20.40 to \$20.55. On Wednesday top the start of the start of the start top Thursday the price had advanced against ot be \$75 mark, and at that figure and watered.

Quotations:			
Heavy steers, choice \$	12.25	to	\$ 12.98
do, good	11.25		11.60
Bib/ beeves	12.50	to	13.50
Butchees' steers and			
heifers, choice	11.50	to	12.25
do. good	11.00	to	11.50
do. medium	10.00	to	10.25
do. common	8.50	to	9.25
Butchers' cows. choice .	9.75	to	10.50
An good	9.00	to	5.58
do. medium	7.75	to	8.50
do. common	6.50	to	7.26
do canners	6.00	to	6.25
Butchers' bulls, choice.	10.25	to	10.75
do good	9.25	to	9.75
do. medium	8.25	to	9.00
do. common	9.50	to	8.00
Feeders, best	9.50	to	10.50
Stockers, best	9.50		9.75
Grass cows	7.00	to	7.75
Milkers and springers,			
	00.00	to	135.00
do com. to medium	65.00	to	90.00
Calves, choice	16.50	to	17.00
do. medium	14.00	to	14.76
do common	8.00	to	10.00
Heavy fat	10.00	to	12.00
Lambs, choice	19.50		20.75
	13.00		14.50
	11.00		12.26
Hogs, fed and watered .	21.00	to	00.00
do. off cars		to	00.00
do f.o.b.	19.75	to	20.00
Less \$1 to \$2 on Heht	to th	In	hom:
less \$3 to \$3,50 on sows: le	88 54	on i	staget
less for to \$1 on heavies.			

.40

April 11

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The Right Sire—

KING SEGIS PONTIAC POSCH. No. 16627 C.H.B. No. 112517 A.H.F.B. SIRE—King Segis Pontiac Alcartra (the \$50,000 sire). DAM—Fairmont Netherland Posch. 32.59 lbs. (at 4 years)

To Breeders of Holsteins

It was my privilege last week to secure a half interest in King Segis Pontiac Posch, and I take this opportunity of announcing that hereafter "King" will be owned jointly by Manor Farm, Clarkson, Ont., and by myself. I have selected King to head my herd because I know he combines the richest breeding in America, together with proven ability to produce deep, straight, strong sires and females-75 per cent. of the latter King's dam and sire's dam-(both as 3-year-olds)

averaged 31.38 lbs. The records of his dam and three nearest dams of his sire average 32.24 lbs. The records of his ten nearest dams average 29.20 lbs. The records of his nineteen nearest dams average 27.21 lbs.

King has the 30-4b, habit fixed on both sides and with the same blood in his veins that produced the World's champion long distance cow Tilly Alcartra with 30,400 lbs. milk in one year. My new herd combination will be "King's" blood

and 20,000 lb. Females

Here are some of them-

Toltilla of Riverside—Milk 24,094 lbs.—1,057 lbs. butter—Canadian champion R.O.P. cow (mature class)—a record she has held consecutively for three years. She is by mature a long distance producer, although ker dam stands at the 30 lbs. mark in 7 day

Burkeje Hengerveld-20,177 lbs. milk-782 lbs. butter-First 20,00 lbs. 4-yr.-old in Canada. She is also reproducer, being the dam of Burkeje Hengerveld May Echo.

Calamity Johanna Nig-Milk 25,433 lbs-1,007 lbs, butter. For a time she held the Canadian champion R. O. P. for milk production. It is such blood as this that "speeds up produc-tion"-and enlarges the monthly milk cheque. Calamity has not be the save add amaktar. an 18 lb. jr. 2-yr.-old daughter.

And when it comes to short distance work, we have 3-yr.-olds just touching the 20 lbs.

20 IDs. Burkeje Hengerveld May Echo made 29.68 Ibs, butter--563 Ibs, milk as a jr. 3-yr.-old, taking third place in the Dominion of Canada. She is the first daughter of Burkeje Hengerveld, Canada's first 20,000 Ib. 4-yr.old-a typical example of production and reproduction in our herd

When I began breeding Holsteins as the years ago I determined that my success should rest upon a strictly utility herd—a herd that boye records much and butter in great quantiles from year to year. In a very generous measure, success has attended my efforts. The above records much and butter in great quantiles from year to year. In a very generous measure, success has attended my efforts. The above records much and butter in great quantiles from year to year. In a very generous measure, success has attended my efforts. The above records much and butter in great quantiles from year to year. In a very generous measure, success has attended my efforts. The And further still her fine records have added greatly to the value of their offspring. This is use in a double earning power for my the ambition of every breeder of good heleins. "But I am not success that attribute the list is an entropy and the merics. I believe I have now this combination "King". I want to perpetuate in the effapring, not only the great ability of more resolutions of a strike why I secured "King." I want to perpetuate in the effapring, not only the great ability of my represents a world famous cross of King of Supplar breaders though in America. I believe I have now this combination "King." I want to say to my fellow breaders that if you are desirous of the best for your herd, say not plan even now to secure a young relax average refress the strike of you are desirous of the best for your herd. So far I have now this combination fields and show is the time to arrange for suck to far in the server been able to so, such a sire or female will give you the possibility of tremendous records together with blood combination that cannot be exceeded servering and the possibility of tremendous records together with blood combination that cannot be exceeded and the desired of the possibility of tremendous records together with blood combination that cannot be exceeded and the servering and the possibility of tremendous records together with

The O'Reilly Stock Farm Jos. O'Reilly Proprietor Peterboro, Ont.

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(35)

April 11, 1914



Tried, Proven and Endorsed The Government of Canada, realizing the increasing difficulties which the farmers of Canada are facing through labor shortage, have carefully examined the help problem on the farm with the idea of eliminating extra work and drudgery. Here is the Government's answer to every farmer and dairyman: "A partial solution of the labor problem is the milking machine." Empire Milking Machines have been used for over three years on the Government Experimental Farm at Ottawaand in view of their past performance, the Dominion Government has now placed an order for six more Empire outfits to be installed on the following Experimental Farms : Fredericton, N. B., Lennoxville, Que., Cap Rouge, Que., Ste, Anne de la Pocatière, Que., Lacombe, Alta., Brandon, Man. DIDE Empire Milking Machines are a good investment as they Empire Milking Machines can be installed and operated Empire Milking Machines are easy to care for. Simple

MILKING MACHINES Actions Speak Louder Than Words

enable one man to do the work of three hired men in the same time. A boy can operate an Empire with ease.

at small cost,-the initial investment soon being paid for in time and labor saved.

The cost of operating an Empire for one year is just a fraction of the cost of boarding the hired man, aside from his wages-in one year, your saving is enormous.

Empire Milking Machines milk in Nature's way. The action of the teat cups is that of the sucking calf, massaging the teats from tip to udder, gently and uniformly-the same way at every milking.

The experience of thousands of farmers and dairymen is: that cows and heifers take readily to being milking by an Empire. The soft, gentle massaging of teat cups sets up a pleasing sensation which causes the cow to give down readily and stand content while being milked. Empire Milking Machines will lengthen the cow's period of lactation.

in construction, these machines do their work with speed and efficiency and can be operated by man, woman, boy or girl.

We know of no Empire Milking Machine that is not giving absolute satisfaction and doing all we claim it will do-

Dozens of other farmers and dairymen, just like yourself, use Empire Milking Machines and cannot say enough in

its value to them.

write us today for booklets, testimonials and detailed particulars.

The Empire Cream Separator Co. of Canada, Limited MONTREAL.

On March 6, 1918, the Dominion Government ordered six more Empire Milking Machine outfils