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Will We Grow Flint Corn or Grain?

April 25, 1918

which profit, likewise of his hold era with profit, likewise improving the thith and clean liness of his fields

the sold corn crop in the United States and Canada, seed is extreme

and with his county representative a

suft with his county representative a to a possible source of supply. Wherever flint corn has been grown

Wherever flint corn has been grown there can generally be found a fer men who have developed early pre-

ductive strains out of old variatia

ductive strains out of old variation. Not having made a practice of dispo-ing of it for ceed, these men are to

casionally a valuable source of loal supply too often overlooked.

Any person who is desirous of gros.

ing this crop and failing to obtain seed this season should plan to a

cure it early in the autumn for an

cure it early in the autumn for a other year. As long as the price of corn, mill feeds and live stock m-main as they now are, corn for mal will be one of the most profitable

crops that can be grown on a fam. Any farmer so situated that he cas

mature fint corn will find it profi

mature fint corn will find it prob able to pfant a fow acres, eva though he has to cut down corn-spondingly his acreage of ello cur. ---Experimental Farms Notes.

Food Supply Is Up to Canada

T HE following message ad-deceased to the Organias-tion of Resources Commit-tee, has just been received:

"London, April 5th, 1918. "In these, stern days it is in-spiring to learn that Ontario is

tackling the food problem with

redoubled energy. The terrifs pressure on our military front makes it all the more impera-

tive that those behind the lines

the that these bound ine lines shall strain every nerve to be feat the enemy's arowed ob-ject of destroying the British Empire. Germany hoped first to

starve the Old Country by the

submarine campaign and then

has failed to starve us and she

will fail to smash us, but we cannot achieve victory without

when it was more needed. The Canadian farmer and Canadian farm hand now have the opport tunity to make an effective re-ply to the enemy's present on-

slaught by bending their un-divided energies to the in-creased production of those food

supplies for which we depend to such vital extent upon your

Weather Forecast by Phone

A of farmers upon weather condi-tions, the Ontario Railway Board

has had provision made for the phon-ing of the weather forecast every day

to all Bell exchanges in the province.

These daffy weather bulletins are furnished by the Meteorological Bureau to a majority of the es-changes of the Bell Telephone Ca In

Ontario, which in turn have connect

ing arrangements with approximate-ly 500 rural telephone systems within

the jurisdiction of the Board. This means that every farmer co

ing under the provision will be able

to receive from his local central the official forecast of the weather as

soon as it is sent out in the moralis -absolutely free of charge. The im-portance of this will be realized as

time goes on and the people learn to take advantage of it.

PPRECIATING the dependence

Dominion. (Signed) "RHONDDA"

great Domini

There never was a

Qh

to smash her land forces.

food.

Seed. Owing to the disastrous fallure of

corn crop in the United

Each farmer should con

The Advantages of the Crop, Choice of Varieties and Its Utilization on the Dairy Farm wishes to increase his hoed on

the seed

ly scarce.

F LENT corn 's a grain crop in eastern Canada has not received the attention that it merits. At Che attention that it merits. At the present crishs of food supply it is the crop that can be increased with-out disturbing the system of rotation or cutting down the acreage of any other cereal. We do not increase other production if we cut down the acre-age of one kind of grain to grow another. By growing flint corn we can increase the total output of cereals without alteration or detriment to our system of farming.

Utilization

Its value Hes in its feeding adaptability.

As meal in a fattening ration it is without an equal for cattle, hogs or poultry In the unkround or cracked state it

valuable in a ration for laying

On the cob, if used judiciously, it can be profitably given to working

The immature and small ears can e fed without waste in the automn to fattening hogs. It can be "hogged" down in the

field with profit. An acre or two of corn will fatten the bogs on an average farm. This method can be adopt. ed with profit by the eastern farmer in these days of labor scarcity.

The dry stalks make excellent roughage for dry cows or young cattle Last, but not least, corn can be

Lass, out not sense, corn can be-come in Canada an important factor in the human dist. Many bushels of wheat could be released for ahlpment if we would use the various appething foods into which corn meal can be converted

Range of Profitable Production.

The crop should only be grown where it will mature in an average Season. where it was maxime in an average season. Using the proper variety, corn can be grown in practically all the older parts of Ontario, the Eastern Townships, and many counties north of the St. Lawrence in Queboc, also many districts in the Maritime Provinces. The District Representaes of Ontario, with the exception those in the northerly counties, tives N state that maturity is not the factor that prohibits the growing of corn, the Secretary of Agriculture for Quebec making a similar report for that province

Quebec Yellow No. 28 is the vari-ety that will succeed best over the greater part of the area indicated. It is a short-stalked variety giving a high yield of grain, and maturing in the average season on well-drained soils in 115 days. Where the season is sufficiently long, Longfellow and Salzer's North Dakota will give an equally large yield of grain with a larger tonnage of stalks. These vari-eties should be grown principally in southern Ontario and Quebec. Earlier varieties than Quebec Yellow No. 28 do not return a commensurate yield for habor expended. The work involved in growing corn

for grain is but little greater than that of growing for silage. Husking is the additional item, but this task can be done at the most convenient time in the autumn and made an evening of neighborhood festivity.

Who Should Grow It?

The dairyman who disposes of his milk to the local creamery is the man who can most profitably grow and use grain corn. If he is using sliage, at the present price of shelled corn he can afford to decrease his acreage of silo corn in order that he may grow flint for grinding.

mint for grinding. The farmer who wishes to increase the output of grain yet does not wish to break his system of rotation. By growing filmt corn he is producing grain from his hoed crop. The man who is without a sile and



Trada meranaua VOL. XXXVII



the acreage w ped. The fir clearing up the id to make up part of a and by putting th work. Of these latter will usually h least expensive. A one. Stumps had to by a block and to or through the use fashioned ponderou But since the introd powder and of up-to stump pullers, it is have high-priced lan stumps or stones. Getting Rid

After the rains 1 ground sufficiently, s roots may easily be pulled with a team stumps, if resinous, boring two holes in stump, each about t ting fire either by dr hot iron bar, or by cord fastened to a the stump has been kept up by throwing always to be found n part of the stump is larger stringers with be pulled out with a small roots to be gru clear about one acre

To-day, powerful the market, with a m on the stump. This as large as five feet out the use of blast is used more or less the ground is hard to stump" Using dyna expert, to know when number of cartridges To a beginner this m haps dangerous prop puller is about the ch of stumps and big tr powder on very large acre in from one to Po

Poplar bushes are usually where they is to be careful with sh team by hitching a 1 cable would be bette and break), 8 to 15 f poplar, taking care no one so as to bend or poplar to lose leverage portant point. I used to a thick poplar for a and pulley No. 2 had which was fastened to 100 feet, but it could quent change of ancho and one man with a

I have pulled out p diameter with roots stumps do not attempt



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TORONTO, ONT., APRIL 25, 1918

Bringing All the Resources of the Farm Into Line How Stumps and Stones May Be Removed-An Aid to Greater Production-By Gustav Detberner

T the acrease which may be crop-ped. The first is through the-purchase of more land, the second by clearing up the fills acreas which go to make up part of a great many farms, and by putting these to productive work. Of these two methods, the aiter will near the Are found to be the least expensive. A few years ago, the matter of clearing land was a difficult amys had to be removed, either by a block and tackle arrangement or through the use of one of the old. fashioned ponderous stump pullers. But since the introduction of stumping powder and of up-to-date high-powered stump pullers, it is poor economy to have high-priced lands taken up with stumps or stones

Getting Rid of Stumps.

Getting Rid of Stumps. After the rains have softened this roots may easily be graving and roots may easily be graving and sumps. If reshous, may be burned by bering two holes in the middle of the stunp, each about two inches in diameter and set-ding fire either by dropping in red hole cashs or a red hol from bar, or by lowering into the holes a such cord fastened to a wire. After the un-or part of the up by the two in the middle of the sturp and the set of the sturp of the strong bar, or by lowering into the holes a such cord fastened to a wire. After the un-or part of the up by throwing in the same the set are always to be found nearby. By this means that are always to be found nearby. By this means that are always to be found nearby. This lowers only a few small roots to be grabb do ut by hand. A man could de not one agre a week by this method.

small roots to be grubb id out by hand. A man could clear shout one acre a 'week by this method. Today, powerful one-man stump pullers are on the market, with a multing power of 45 tons or more et the stump. This usually brings out fir stumps as large as five feet in disameter, roots send all, with-at the use of blasting nowder. Powder, however, is used more or less on large oak stumps, or where study of the dislodge from the roots of the simp. Using the dislodge from the roots of the same of cartifleen necessary to lift out of and the sumer of cartifleen necessary to lift out of and the same of cartifleen necessary to lift out of and the sumber of cariringes necessary to lift out the stump. To a beginner this may prove an expensive, and per-haps dangerous proposition. The one-man stump pailer is abort the cheapest method of clearing land of stumps and hig trees, and with a little blasting powder on very large stumps, a man can clear an are in from one to two days.

Poplar Bushes.

Poplar Bushes. Poplar bushes are about the easiest to chear, but maily where they grow are stones, so you have to be careful with sharp areas. I pull them with a tam by hitching a logging chain (I think a wire cable would be better, and not apt to get twisted and break), 8 to 15 fact from the ground to the splat, taking care not to hitch too high on a think me to as to bend or break it, or too low on a thick wing to lose leverane power. This is the most imare to as to bend or break it, or too low on a thick poplar to lose leverage power. This is the most im-portant point. I used a pulley mrangement and a lyichch rope in the pulley. One end was fastened to a thick poplar for anchor and run to pulley No. 1, and pulley No. 2 had a hook for the logging chain which was fastened to the tree. The rope used was 100 feet, but it could be longer it would ave fre-quent change of anchor to have a medium sized team and one man with a sharp axe at the tree to help long

I have pulled out poplars up to eight inches in diameter with roots and all. If you have poplar stamps do not attempt to pull them out with a stump



Clearing Land With a Hand Stump-puller.

puller by hitching on the top of the stump. The top will break off and leave the roots in the ground. You are then worse off than before. The best im-plement to get a hold of these is a root hook (easily obtainable, or have two steel plow beams bolied to-gether and spread apart about twelve to fourteen there, where the curve starts, having them pointed where they are bolted to the land side on the plow. You can fasten handles and use it also as a root cutter heat and the bolted ends and you have a root hook as strong as money can huy. This hook on the hook as strong as money can buy. This hook on the roots, a good anchor, and a stump puller or a good team with the blocks on the other end will bring the stump and roots out.

Willows are the most difficult to combat on ac-count of their long root system, and especially when they have been burned off on the top or dry. The larger the willows the easier they are to oull by sillaging a loxiting rhan or cable as low on the bot-tom as possible around the bunch. If the bunches are not larger you can aling your chain around the next bunch up to six, or as long as your chain or call, it, always leaving a little slack in your chain out, the horses will not have to pull all the bunch at the horses will not have to pull all the nuclet and anoth, around be bused for heavy work. For burnt off or dry willows use root hook as de-scribed for poplar stumps. Out in Rid of Stones. Willows are the most difficult to combat on

Getting Rid of Stones.

Getting Rid of Stones. On my fam I am blessed with stones, large and mail. I save them all exceet the large ones, which hurz. I save them all exceet the large ones, which hurz. I have them all exceet the large ones, which is trench around to find one i Commence by digging a trench around to find one i Commence by digging the bed. Sometimes you can use and the out-beneath the other end, undermining alternately of here here the stone is one to a depth of at least four to six finches deeper than you expect to dig a hole alongside of it, and tip the stree is the todig a hole alongside of it, and tip the stree is the hele. Be careful not to dig too close to he stone, least it slide on top of you. It is better to do a little hele. Be careful not to dig too close to he stone, least it slide on top of you. It is better to do a little hole then to ran chances. It's always safe when two here work together.

More mark to the tagether. A stone not suffed for interment, or one that may be useful can be attacked with a crowbar, sledge hammer weighing about ten pounds and wedges. Be-

fore attempting to slam the rock, dig around it, prop it up and put stones underneath. Then look for the grain of the stone. Most every stone has a grain like wood, and if you hit it on the right spot it will break.

No 17

Never hammer a stone when on the ground. The earth gives it a splendid ground. The earth gives it a splendid cushion against your blows, and hides its vulnerable parts. Don't lose pati-ence, for if you do the work will get the best of you. I' may resist stub-bornly, but will yield suddenly, just when you perhaps are ready to quit.

Splitting Stones.

There are three other ways to there are three other ways to get even with stones. First, by drilling a hole c. e inch in diameter, six or e' ht inches deep. Put a little water the bottom of it, cut a soft wood ⁴.4 the bottom of it, cut a soft wood, plug to fit tight in the hole, wet it and drive it down. Give the plug plenty of time to sonak up the plug plenty bottom of the hole, which will in the bottom of the hole, which will it would it up and make a still tighter fit. Now, drive into the centre a round tabeed that we the put of the bottom.

arive into the centre a round tapered ste el wedge, the point of which is harp. The woor plug will prevent the wedge from lipping back. Driving the wedge from the top with heavy sledge hammer will split a rock of quite sharp. slipping back. large size

Second, by drilling a hole as before, but a little deeper. Pour water in hole in the fall, plug tight and the expansion of the water freesing will usually

split the stone. Third, where plenty of bush wood is around, firing has been very effective on rocks. Dig a trench all around the stone, in which build a hot fire cover-ing up with an old sheet iron to keep the heat in. After the fire has been going about three or four hours (according to the size of the stone. You will hear it crack, and with the top of a crowbar you can reduce the size considerably. Look for the grain, it may run right through a big stone, and with a fat wedge you may split it in two. Tough stones may require two or three firings before they give up.

When you've got your stones out, place them on the farm where they will never be in the way or have to be moved again. Dynamite, of course, is the quickest and easiest way to get rid of atones but it costs money, and is always a dangerous agent to work with.

Better results are obtained by feeding young calves three times a day, with the periods between feeding an early equal as possible. When fed in this way the calf does not overload its stemach, and the digositon of the feed is more evenly istributed. Resultarity in feeding is important. When calves are fed but twice a day, the feeding should be as nearly as possible 12 hours apart.

In the United States corn belt where a farmer is growing 10 acres of corn for enaliage and 10 acres for busking purposes, he is being asked to seed the 10 acres for ensilage with southern varieties, and sell his surplus of home grown seed to his neighbor, who is not so fortunate as to have a supply. Mr. P. L. Fancher, Ontario's corn specialist, suggests that corn growers in southwestern Ontario follow the same

Silage

Clover Silage E P. H. Morn's, C

I he lower Fra for corn in mak large extent even ing the past few yea in the number of si creased over 300 du dominating type is and the staves one and the staves one theless nearly even

My experience h My experience in grass mixtures, and have given me ver attempt was made attempt was made horse fork outfit. T it could not be pac getting the clover i getting the ditte too great, and the qu The flavor may hav bad that it baffles a we cut the clover we cut the clover a great improvement the cattle ate the st when fed on it.

The following spr success. The crop clover, orchard gras clover, orchard gras cut early in June, pearing. The weath it was mowed, rake It was mowed, rake being allowed to will inch cut, which gav one inch in length, more than half inc was used on the ins the tramping. Abou put in from eight a This material erop. crop. This material ter. It turned out stock ate the silage corn put up the sam Clover

Every year I ha Every year I has of procedure, and h the weather and th some water through paid me well. A his apparent harm. The material certainly e material certainty e silage, which, along an almost perfect ex means good silage. trials at the Experiand grass mixture pared to corn .s duction. Both kinds price per ton in the that the clover silas orn. However, we without the corn on without the clover, is only a temporary our silo of about



Desta, the

Desta's record is 27,128 cott basis. Her milk i RO.P test and her bu he Her owner, Mr. J s a great performe; 184 bs, of butter, and

Some Fiscal Problems of Agricultural Canada

From the Manitoba Grain Growers' Viewpoint - By R. C. Henders and W. R. Wood

HE Grain Growers welcome the opportunity of free and full discussion with the other inter-ests, of those aspects of current economic conditions with which they have relationsb'ys in com-mon. The position they have taken and consistently maintained from the earliest period of their organ-ization is that their case is one which they are lation is that their case is one which they are ready to submit to the most searching scruting, since they seek nothing which caunot be shown in be equitably theirs and nothing which does injustive in any degree to any other interest.

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any degree to any other interest. They insist however, that conditions as they have been in the past, and as they very largely remain today, discriminate unjustly to the disadvantage of the man on the land. They desire to state in plain terms the nature and bearing of this injustice, and to suggest certain measures of readjustment and reform which they believe will make for fuller justice to all concorned

Decadence of Rural Life.

The first phase of the situation to which they draw attention is the fact of decadence

of rural life and its significance. The movement of rural nonulation towards the cities during recent decades has been the cities during recent decades has been checked in no country except Denmark. In Canada it combines as strongly as ever. In 1901 the rural population was 3.349,516 the urban population 2,021, 799. In the rural population had reached 3,925,502 and the urban 3,281,141 reached 3,925,502 and the urban 3,831,141 --the increase of the rural population in ten years of 17.16 per cent, and of the urban 62.25 per cent. In Ontario, in the five years 1911.916, the rural popula-tion increased 224,443. In actual area under crop there has been a correspond-ing on the the 1910 there were under the total had fallen to 3116 507 means the total had fallen to 23,115,507 acresthe total had fallen to 23.15.507 acres-a reduction of over two million acres in six years, and it is to be noted further that the decrease was gradual from year to year. The decrease of cultivation in the prairie provinces is essecially mark-ed. The acreage of 8.312.565 in 1968 was increased to 17.453.17 in 1911, but the increased to 17,488,117 in 1911, but the area under crop last October (1916), oc-cording to the Census and Statistics Monthly, was only 16,37430. In Mark-toba 5 per cent of the farmers were tra-ants in 1901. In 1911, 10 per cent were tenants. Such figures indicate what is really a failure of the agricultural indus-try. In the face of increasing demands for the products of the land, agriculture has not been able to continue the culti-has not been able to continue the cultivation of fields which once were tilled For such changes there must be some cause. The failure is not due to climate

nor to lack of fertility, nor to inadequacy of agricul tural methods. It is impossible to avoid the conclu tural methods. It is impossible to avoid the conclu-sion that the cause is purely economic. The rewards of labor expended on the land have been going to others than the workers. Artificial conditions creat-ed without considering the interests of the farmers, created with the definite purpose of advantaging other classes, continue to make farming compara-tively unattractive and unprofitable.

How shall the wrong be righted? The farmers do not seek special favors nor the establishment of special conditions in order that they may prosper special conditions in order that they may prosper. They would unanimously repudiate any suggestion to levy tribute upon any other class for their advan-tage. All they seek is that existing restrictions and impositions be withdrawn.

Protection Fundamentally Vicious.

Primarily the Grain Growers protest that the pro-tective principle as it has been in operation in Canada is essentially inequitable, immoral and vicious, in the following respects;

1. It artificially restricts and hampers the exchange of products-exchange which is natural, legitimate and of mutual advantage to the parties interestedeach country by exchange securing the advantage of using commodities produced more readily else where—in order that some favored industry may be protected and advantaged.

2. It takes large sums of money from consumers generally without any possibility of their knowing kenerally windowit any possibility of their knowing how much is taken, into whose hands it passes, or for what purpose it is expended. That kind of pra-tice will not long be toierated in the twentieth cen-tury, once its real nature is recognized. It leads business and manufacturing interests

a. It reals business and manufacturing interests to depend upon arbitrary enactment and not upon the natural economic conditions and necessities for their industrial progress, and thus opens a door to political and economic intrigue and corruption. Mr.

P. W. Ellis, at the convention of the Canadian Manu-facturers' Association at Yaucouver, September 21st, 1910, said: "There is such an amicable condition existing between ourselves and the Departicent at Ottawa that it is of the greats possible advantage to every one of us." And the principle underlying and the principle underlying the second sec Ottawa that it is of the greatest possible advantage to every one of us." And the principle underlying his statement is that which was expressed with startling clearness by the author of the National Polley thirty-two years before, when he said to the manufacturers in Hamilton, Ontario: "it cannot tell what protection you require. But let each manu-facturer tell us what he weats, and we will try and give him what he needs." The system panders directly to class selfishness and the corruption of the mont

Government. 4. Thus by the object lesson method—the most effective of all modes of instruction—it teaches the ordinary clicisen that if he can only place himself in a certain relationship to the powers that be, he may get something worth while, and this tends directly to the warping of the individual and public consciences

A Constructive Fiscal Policy Suggested The Solution of the Problem Which is Outlined in the Adjoining Article

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and to the debasement of industry and business and and to the deconsenter, or industry and cusiness and political life to a common and conscienceless game of grab. The moral sense of Western Canada re-volts at the abominable tendency.

Current Protectionist Propaganda.

The Grain Growers protest against the movement The Grain Growers process against the movement manifest in various quarters to take advantage of special war conditions to advocate and secure in-creases and extensions of present tariffs. Suare and skilful writers associated with various protected industries are busily employed in creating the im-pression that war and other conditions have discredit-ed Free Trade and vindicated the Protectionist pression that was and other conditions have discretified of Free Trads and vindicated the Protectionist theory. The answer to this kind of thing is that the facts are against it. Protection has not stood the test of war. Germany as early as September, 1914, unpended her duties on bread, beans, butter, eggs, ausonned her auties on pread, bean, buitter, eggs, pouliry, pottoes, cheese, edible fats and margarine. In March, 1915, she suspended duties on fruits, game, arrowroot, sago, taploes, sugar and yeast. Similar action might be cited in the case of Austria, France, Italy, Spain, Norway and Sweden. We believe it to Italy, Spain, Norway and Sweden. We believe it to be impossible to place any other interpretation upon these facts than that Protection, in the experience of all these nations, has not been able to stand the strain of war. Yet Canadian Protectionists complacently go to Ottawa and demand and secure, early in the war, an abolition of the free list, so that early in the war, an abolition of the free list, so that goods formerly admitted without duty are taxed five or seven and a half per cent, and that similar per-centages are added to rates already levied. If all contages are added to rates aiready levied. If all the money taken out of the pockets of the consumer were secured to the revenue of the country, there yould be less reason to object-but when it is known that large proportions will go to swell the profits of certain industries, and that it will operate toward excluding entirely the importation of certain com-modifies while it adds enormously to the already almost intolerable cost of living-tt becomes a mea-

employers have hever, as a class, more in the direction of increase of wages til them. Indeed, usually the increase has to be se-cured through what is practically compution. The experience of labor in protectionist countries during ployment

for data. The protection enjoyed by manufacturers before 1879 was nearly doubled by the inauguration before 1879 was nearly doubled by the inaugration of the National Policy. But there is no proof of any general rise in wages until trade unloss becaus strong enough to secure increases. Again, in 105 there was an addition of 7½ per cent. to the tard, but there was no corresponding voluntary increase in wages—with the exception of a 5 per cent. increase at some of the cotton mills in Quebec. the only is

science of government that the means of security sufficient maintenance that the means of security comfort should be made as fasts with, but its stiller builds his house, from the clothing hours and from the food upon his table. In building, house he pays 30 per cent. on brick, 32% per cent. on lumber, 37% per cent. on wire doors and winder, 47% per cent. on window glass, 67% per cent. on mains. nalls. In clothing himself and his family he pays 224 per cent. on coftons, 37% per cent. on boots and shoes, 42% per cent. on underclothing and famels. In preparing his food his stove is taxed

In preparing his food his stove is taxed 32½ per cent, his tea kettle, pots and pans 42½ per cent; apples, 90 cents per barrel; oatmeal, 75 cents per hundred; flour, 60 cents per barrel. That is to say, the common man in providing the com-monest necessaries of life for himself and his family is arbitrarily handicapped by the protective system.

ace to our general well-being which must be de nounced in the strongest terms.

nounced in the strongest terms. Yazed Life and Penalized Production. The tarifi we have had in Canada for many years taxes personal and family well-being, industrial efficiency and productive powers. It makes it harder for the common man to secure the primal necessities of life, it has long been considered axiomatic in the secience of government that the means of recom-

the protective system. Equally to be condemned is the sys-tem in that it penalizes the simplest and most elementary forms of labor and of productive activity. If one wishes to plough the soil, his plough is taxed 274 per cent. If he follows the plough is taxed 27% harrow or a seed drill or a manue harrow or a seed drill or a manure spreader, each pays the same heavy tar. The harness for his horses is taxed 37% per cent. If he is free to purchase a buggy, government levies 421% per cent. manure buggy, government levies 43% per ceal on its cost. If he has any crop to handle, his hay-loader, potato digger, faning mil and grain thresher each pays to the use of 33% per cent. The man on the land is urged and achorted to produce, and is urged and exhorted to produce, and he is tax-punished from 12½ per cent to 42½ per cent. for every attempt he makes to follow the suggestion.

Protection and the Laborer. Grain Growers deny the allegation fro-uently made that protection advantages quently made that protection advantage the laboring classes. It is admitted hat it gives employers wealth which might be devoted to increasing wares, he is step has ever been taken in connection with the protective system to see that employers share the advantage with the work people. And, as a matter of fat, employers have never, as a class, more

the last twenty-five years shows conclusively that the tariff is no remedy for low wages or for mem-But we do not need to go beyond our own country

tions are being made. From 1897 to 1910 iron and steel companies received the benefit not only of proseen companies received the benefit not only draw tective duiles, but of the most generous bounty law over enacted in an English-speaking country. Tel during the whole period wages were, as usal, de termined by the number of men who wanted a job, termined by the number of men who wantes a po-and were no higher than in the United States, where no bounty was paid. And even if all figures failed to support our contention, a single fact from recent history established it beyond question—the fact that in the years 1912 to 1914, after more than a g tion of experience with the protective system, there were thousands of men and women out of employment walking the streets of our cities, and hund dependent for food and fuel upon public relief. dependent for food and the upon puere relations to summers, in that it raises the prices of the commodifie they must buy and secures that the money so fram from the pockets of the common people nees instal to swell the bank accounts of the manufacturing employers.

(Continued on page 13.)

April 25, 1918.

Silage Making in B.C.

Clover Silage Equally Acceptable with Corn p. H. Morn's, Colony Farm, Essendale, B. C.

p. H. MORAL GUODY FARM, EMBERDIALE, B. C. I's the lower France Valley, h. B. C. substitutes the corn in making sliage/have been used to a import of the start of the start of the start of the in the number of slice. The number of slice has the reased over 5 allos. The number of slice has the reased over 500 during the last five years. The pre-demination type is the wooden starts 2 s 6 inches, all be starts output events are start of the all be starts output events are start of the and the stayes one piece for the entire length of the silo. Corn is grown on nearly every farm, but never-theless nearly every dairyman makes some silage from clover or from peas, oats, and vetches or peas and oats alone.

My experience has been chiefly with clover and pass mixtures, and after the second attemnt they have given use very gratifying result. The first attempt was made with long clover put in with the been fork outif. This was celdedly unsatifiatory. It could not be packed, hard enough. The labor of getting the clover into the sile and out again was to great, and the quality of the silinge was very poor. The flavor may these all description. The very masses The flavor may have been fair, but the aroma was so had that it baffes all description. The next season we cut the clover in two-inch lengths and it was a great improvement, but not just right. However, the cattle ate the sillage readily, and produced well the cattle ate

The catle ate the silage readily, and produced well when fed on it. The following spring (1912), we had the first real access. The crop was common red and alsife dorer, orchard grass and Italian rye grass. It was est early in June, just as the blogenoms were ap-paring. The weather was wet, and the crop grees. It was moved, raked, and put into the silo without heing allowed to wilt. The cutter was set for a half-each cit, which gave silage cut from one-quarker to one inch in length, but the average would not be sore than half lach long. The distribution pipe was used on the inside of the silo, and one man did the tramping. About 196 tons of green material were put in from eight acres, which was only an average erg. This material was fed out the following win-ter, turned out in excellent condition, and the sore has eight acres, we readily as they did the. Cover Silage Every Year.

Clover Silage Every Year.

can put up the same year. **Clover Silage Every Year.** Every year I have followed the same method of procedure, and have not had a failure since. If the weather and the crop was dry, I always added same water through the blower, and found that it paid me well. A little extra water did not do any sparent harm. The water added to the semi-dry material certainly ensured the close packing of the diag, which, along with the short cutting, allowed, a as sood silage. In most carefully consured rights at the Experimental Farm at Agadi, clover and the clover silage fare equal returns when empared to corn silage for milk and butter pro-decion. Both kinds of silage were valued the same piepe prion in the trials, but it is worthy of note that the clover, so that he difference in price a much clover, we could not fare dara much clover without the core on the rotation or as much corry without the core, so the side the difference in price key a temporary one unless on has a specialized rium of tring. of farming.

Our silo of about 100 tons was filled with peas

and oats. The sante precautions were taken as when we made clover silwhen we made clover sil-age. The results were most gratifying. The sil-age was excellent and the crop yield was about 14

crop yield was about 14 tons per acre. Cicver Silage in October. Last season I made sil-age from a mixture of red clover and timothy put up In October. The crop was very rich in timothy and the second matching and the second seen fronted bone. How we are reading it out sr, we are cert time and the quality is good. About end are strer we changed from corn to clover, the construction of the second second second the second states of the second the second states of the second that are readily as they did the clover had been frosted

The second secon

a busy time in harvest. Harvest clover or clover and grass mixtures when they are fit for the best quality of hay. Harvest peak and cats when the cats are in the milk or soft dough stags. Chop all kinds very short, One-half inch length gives good satisfaction. Pack matcrial in sito as firmly as possibly, either but not force or by adding some extra moisture, Trann the surface theoremeths

but pack it hard. Tramp the surface thoroughly every day for a week after filling has been finished, and add a little water each day. Result: An excellent form of corn substitute silage.

Cultural Methods for Eastern Canada

As Recommended by the Experimental Farm As recommended by the Experimental pairs S offL massement or cultivation in its several duction. On the Central Experimental Pages, Ottawa, and several of the branch Experimental Sta-tions in eastern Canada, methods have been investi-gated for several years. The results obtained have warranted the following recommendations being made as applicable to average conditions on eastern Canada farms.

waraatod the following recommendations being made as applicable to accurate conditions on eastern and a source conditions on eastern and should be performed with therefore, important and should be performed with the time can be also be

to do better. Harröwing-Of the several imblements on the market for oerforming this work the disc harrow is the most suitable for preparing soil for seed after it has been ployed. Therough cultivation at this lime is indispensable and the used in the set of the set of the set of the set of the set bed is smooth and friable and he soil immediately helows is the soil immediately below is firm and solid.

The drag or splic-tooth harfow, too, may be employed advantageously in seed-bed preparation, especially following the disc or roller to restore a useful implement in the corn field for the split of th

crops. Ploving may be speeded up by using two-furrow plows. Double disc harrows make a thorough seed-bed in the least time. The horse disc seed drill is efficient. More sections added to the drag harrow reduce the time required for this work.

Apply Manure Lightly and Often Some Experimental Evidence on the Question

A FARMER recently complained of his III lack, saying that his potatoes grew "all tops and no used he stated that he applied "from 30 to 40 contain fore." Thirty tons of average farm manure for the stated that he applied "from 30 to 40 contain fore." Thirty tons of average farm manure found in a ton of of nitrogen, or as much as is found in a ton of of nitrogen, or as much as is found in a ton of of nitrogen, or as much as is found in a ton of or nitrogen, or as much as is found in a ton of or not be basis of its plant for out how here a paping \$50 worth to an are, or at the monetary rate of one and a half tons of a light-grade commercial fortilizer. It is now well understood that liberal applications are ill advised; that it were better to spread more thinly over larger tonsare time state or ton tons is a sufficient acre other the dight or ten tons is a sufficient acre to each tood, particularly list the excess of avail-able plant food, particularly that the text is applied to leach way and that crops cannot profit by the veces. FARMER recently complained of his ill luck,

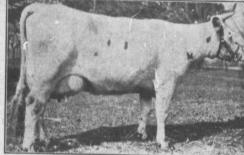
excess. Furthermore, one should remember that farm mar-ure contains more nitrogen in proportion to other plant foods than crops can use. It is on this ac-count that crops are apt to lodge when large appli-cations are made. It were better to use moderate amounts of farm manure, eight to tent toms per acre, and to add some acid phosphate than to kill with hydrogene. kindness

Rinness. The Pennsylvania station applied farm manure to a rotation of corn, oats, wheat and hay at the rate of six, sight and ten tons per acre avery second year during 25 years. The average corp increase for each (Continued on page 7.)

Desta, the Record of Performance Champion of Canada

Detta's record is 27,128 has of milk and 1,045.75 has of butter figured on an 80 per set basis. Her milk record is the largest yst reported for a cow qualifying in the RAP lest and her butter record stands third. Her highent days milk was 107 3. Her owner, Mr. Jaz. Knapp, of Merrickvile, tells us that Desta has always mild he of butter, and a here-per-odd she gave 1593.29 he of milk and He he of butter, and where the start of the she was grand champion over all breads in the shery text.

Calamity Snow Michthilde 2nd-A Canadian Champion.



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PLANT THESE NOW !!

BEET-Crosby's Egyptian	lbs.
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When buying from dealers, insist on Rennie's. If you dealer hasn't them, we will ship direct.	4
VILLIAM RENNIE COMPAN	NY D
LING & MARKET STA TORON	TO



T HAT guy had something in his bean who wrote that "distant fields look green." For every chauffour seems to yearn to try the road "just 'round the turn." It matters not how soft the berth a man is in, he wants the earth. John Thomas covets Bill Smith's land and Smith would like to make the sand that Tom Jones like to make the seat that Tom Jones "picks up casy's seat," and so it goes from this to that. But never had I met a bloke who longed to wear a from I met a bloke who longed to wear a poet's cloak until a chap, not worth his salt confessed he envied Uncle Walt. This neighbor man was big and strong, but never seemed to get along. His hogs were lean, his steers were poor and burdocks grew about his door. Instead of resping bumper yields, his eyes were fixed on distant fields. So, when one day this gink fields. So, when one day this gink dropped in with sunkea eye and drooping chin, I leaned upon my trusty hoe and listened to his tale of woe

"For years I've planted corn and oats," quoth he, "I've milked the

April 25, 1318

peaks. For sundry bills I need the wheels that all the leading papers pay to Uncle Walt for ode or lay. And speaking of this change de loose. Its said Walt Masob" like the goose its turned out frui, of solid gold, that ne'er west bad on growing old. He stacks his pluids bahind the door, he fills his socks and feeds the poor. So if Old Walt should chance to croak, 17 d like finite-tast to buy his cloak.

I'd like first-rate to buy his cloak, "Stall-feeding calves and groove ag pigs and eating pork and beams and first is not the life for me, I think-it almost puts me on the blink. Our moolie cow won't give sweet cream, the hens won't lay: In fact, 'twould seem as if the farm has got my cout, seem as it the rarm has got my goat, so if you find Walt Mason's coat, just ship it on express or mail and I'll remit the needful kale."

nor grease the axles of the rigs. So up, my friend, skidoo, go humo, and keep your horses on the jump. Tear

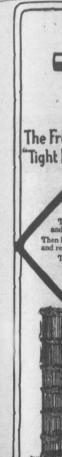
April 25, 1918.

Apply Manure Lig (Continued from

of manure was \$1 \$1.66 for the eight, a senton application. using four, eight and Meations. secured applications, secured \$2.43 per ton for the ton for the eight, and for the 16-ton applicat Not only does a li

afford a larger return the same time a larg eight or ten tons once should prove more pro 20-ton application at gives a feast at the out ine at the end, and waters profit full more

waters profit full more When land is plowed lowed by oats, seede second year, and is lef second year, and is len next three or four yea of the manure will be two light application eight or ten tons per a





cows and goats. I pluck my geese; I sell my beans; and stuff the green-backs in my jeans. I storm the marbacks in my jeans. I storm the mar-kets, ditch by ditch, but somehow, Sam, I ne'er grow rich, for when I scrape up thirty yea, I find my pig-lets meed a pen. My buill breaks loose and raises Ned. The shingles all blow off my shed, and always when the bills pour in, my little sock is when it is

"Tm tired of this production where by guys that set the price of cheese. To spout to others would be nice, in-stead of listenize to attract the set. As apout to states would be nice, in-stead of instanting to advice. Why should I toil my life away at pulling stones and baling hay, when I might just as easy wear a limpid amile and six-inch hair? A poet's life to me apup the sand with might and main and

up the eard with might and main and bind you sheaves of golden grain." Then up he jumped and grabbed a hee and out the thistlee, row ca row. He pruned his corn, manued his hops and later on he had used crope that when he hauled them to the care he had to borrow eighteen jars to hold the kale that tumbled in Pull soon be had sufficient in to paint the bar wise, green and red paint the bar wise, green and red from a friendly agreet man he hough on the instalment plan two keep of beer, a set of books and chains for beer, a set of books, and chairs i all the ingle nooks.

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Apply Manure Lightly and Often

(continue from page 5.) find of manufer was \$2.5 for the six, field for the cicht, and \$1.44 for the sector application. The Ohlo station sum four, eight and 16 ions per acre applications, secured a return of 1.40 per ion for the four, \$2.19 per na for the eight, and \$1.44 per ion for the 16 ton application per acre. Not only does a light application after a infer return per ton, but at

Not only does a light application agerds a larger return per too, but at the same time a larger area may be overed each year. An application of each or ten tons once in three years applied prove more profitable than one of 16 to 20 tons once in six years. A sicon application at long intervals gives a feast at the outset and a famine at the end, and the drainage waters profit full more than the crop, when and is plowed for corn, fol-

waters profit full more than the crop. When land is plowed for corn, foilowed by oats, seeded to grass the second year, and is left in hay for the soft three or four years, the best use of the manure will be made to make two light applications; the first of aight or ten tons per acre on the corn, the second as a top dressing the first or accond year of hay. By thus dividing the apjication, both secure hencfit from its use. When there is not sufficient manure available to make two such applications, the crop which is thought to be the most proditable should be favored. '

Will Pay Laborers Fares

WING to a reduced fare which the ontario divergenement has secured from the railways, tho trades and Labor Department this season pay the fares of bons will this season pay the fares of bons will farm haborers to their destination. Persons desiring to go on farms and who make application for work through Government employment bureaus, will be given an order on the railways for a ticket, after they convince the department officials they are strictly farm laborers. A penalty will be imposed for violations of the order, such as persons securing free transportation and on arrival at their destination not engaging in farming. The minimum fare to be charged the Government will be \$1, which will be for any distance up to one hundred miles. Any distance greater than that will be charged s' one cent each additional mile. This arrangement will come into force very shortly, the exact date being announced later.

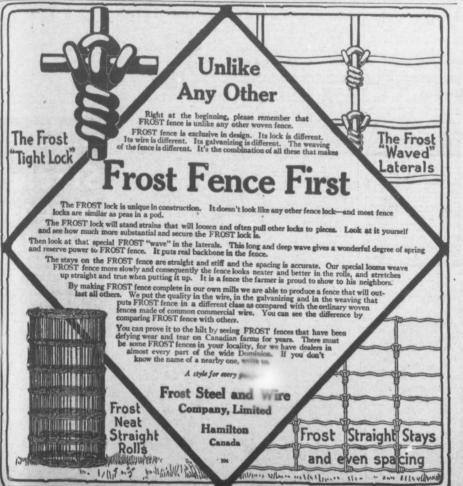
It is expected that the action on the part of the Government will result in more men spending several weeks on farms this summer. The average distance the department ends men, according to Dr. W. A. Riddell, Superintendent of the Trades and Labor Branch, is about 50 or 60 miles, so that the cost to the Government will average about two cents a mile. The Government accepts no responsibility as to providing transportation for the return journey.

Bonus for Turnip Seed Growers T HE seed survey conducted by the Seed Branch, Ottawa, indicates

a prospective shortage in Swede turnip seed for the seaso. of 1919. Present retail prices of Swede seed average about \$1.50 per ib. in Canada and \$2.5.3 per lb. in the United States, and present woolesale prices would be about two-thirds as much.

Firmers who have medium-sized, sound, shapely roots, true to varlety, are advised to plant them out early this spring for seea production. Different varleties grown by neighbors should be planted at least hait a mile apart to prevent crossing. Any soil which will produce a good crop of turnips is quite ...ttable. The roots should be set out 18 inches apart in rows three feet apart, and planted just below the surface of the soil. A location beyond the reach of poutry and sheltered from prevailing winds is most satisfactory.

Growers producing from 50 to 5,000 lbs. of Swede seed for use in Canada, and whose seed crops and recleaned seed pass our inspection, will be paid a bonus of 15c per lb. for the year 1918 only. Application for field inspection should be made hefore July 1at, addressed to the Seed Com usisioner. Ottawa.



Crop Feeding Canadian Harvests

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YOU are starting off You are starting on the young crops. Their growth and yield depend upon how well you have prepared the soil and *hore much suitable plani-food*, the crops have at their dis-¶ Fertilizing paid in tests made on Dominion Experimental Farme in 1915 as fall Vield b t of Potatona per acre 061 Trainent of Polatoss per acro No added plantfood Manure 15 tons plus 5634 ba. high grade complete ferti-lizer 838 Ibs. of fertilizer contain-ing Nitregen and Phosphorie Acid 75 66 200.33 140.75 W-ile for our publication greater crop produc Soil and Crop Improvement Bureau of the Canadian Fertilizer Association 1111 Temple Bldg. Torouto -----





These engines are the perfected roduct of years of study and as-extensistic with Internal Com-tension and the study and as-tension and the study and as-tension and led it ropice your rod man. It's a solution for york ing on a solution of york and a solution of york we also manufacture a full line wiNDMILLE, Grain Grazza, we frame, Perma, Yanka, Weier Catalogue of any line mailed av quest.

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Leaving Eggs n the Nest

OBS allowing the eggs to ac-cumulate in the nest cause in-creased laying? The theorist claims the hens will lay better if the ggs are not gathered until night. may have observed that the nest first may have observed that the nest first occupied in the morning receives the majority of eggs for that day. There seems to be a sort of competition among them to see how many eggs they can get together in one place. If removed several times a day they seem to lose their incentive for doing their work. Think back, and you will see that she is only following a natural instinct in not wishing to deposit any more eggs where all others have been destroyed or taken."

That is an argument upon which a sermon could be preached. That it is incorrect is testified to by the trap. nest men, who gather and record each egg as laid. No eggs are allowed to remain in the nest. Does this removal lessen the number of eggs? That can be answered Yankee fashion by asking the question: "Was the 200-egg hen ever known before the trap nest was invented?" These theorists should examine the egg records on the farms where trap nests are in operation, and they would be surprised to learn that fifty hens. selected for egg production and regu larly trapped, are turning out two to one more eggs than the same number on farms where the eggs remain in the nests until night. And why that difference? For the reason that the trap-nest man each year picks out his best layers and breeds only from them. The good qualities are annu-ally imported to the new generation. ---M. K. B.

Feeding the Chicks

By M. A. Jull, Macdonald College. HICKS should not be fed until are about 36 hours old. they Indigestion and bowel trouble often result from feeding too soon. A little grit, clean water and sour milk should be given first. The latter is one of the best poultry foods we have, and if given at all it should be given regularly. Sour milk seems to keep the digestive tract of the chick in good condition, and it does much to combat white diarrhoea

The first grain feed given should the first grain feed given should be a moistened mash made up of some of the ground grains. A good mash is made up of four parts of bran, four parts of oatmeal feed, two parts cornmeal, one part mid-dlings, one part beef scraps, and one part chick grit. All these parts are by weight, and the different materials are mixed thoroughly. The mixture is just slightly moistened with water or sour milk, if it can be obtained. This moistened mash is fed to the chicks three times a day, morning, noon and evening, for several days. During the same period the chicks are fed in the middle of the forenoon a mixture of four parts bread crumbs and one part of hard-boiled egg, and in the middle of the afternoon they are fed oatmeal. That is, the chicks are fed five times every day, and this rate of feeding is continued until the chicks are about five weeks old. The order of feeding is mash in the morn bread and egg mixture in the ing. middle of the forenoon, mash at noon, oatmeal in the middle of the after noon and mash in the evening.

When One Week Old. When the chicks are about one week old the mash feed at noon is changed for a feeding of finely-cracked corm and wheat or a good brand of chick feed, which can be purchased on the market. When the chicks are about two weeks old the bread and egg mixture, as well as the oatmeal feeding, is replaced by the moistened mash feeding. At the same time the mash feedings which were being given in the morning and evening are replaced by feedings of cracked coru and wheat. The cracked grain is scattered in the cut straw or chaff on the floor o' the house. or chan on the noor of the house. That is, now the chicks are getting cracked grain in the morning, mash in the middle of the morning, cracked grain at noon, mash in the middle of grain at noon, massh in the middle of the afternoon, and cracked grain in the evening. This method is con tinued until the chicks are about five ake old

When the chicks are three or four reeks old it is well to pince some mash in a dry form in a self-feeding box or dopper. A good dry mash is composed of four parts ground buck wheat screenings, two parts bran, two parts oatmeal feed, two parts two parts oatmeal leed, two parts beef scraps, one part cornmeal, one part middlings, and one per cent, charcoal. These parts are by weight, and the materials are mixed and placed in feeding hoppers in a dry The hoppers are left open stata that the chicks can help themselves the mash at any time.

When the chicks are five weeks old they are fed cracked corn and whole wheat in the morning and afternoo and moistened mash at noon. This method is continued until the fall of the year, when the cockerels are ready to be fattened and the pullets are ready to be taken to the laying houses It should be borne in mind that

It should be borne in mind that fresh water should be given the chicks every day. If sour skim-milk can be obtained it should be given regularly.

The chick grows very rapidly, and it requires to be fed well. Above all, it should not be fed too much at any one time, and it should be induced to one time, and it should be induced to take plenty of excretise. Free range conditions produce healthy chicks and cut down the cost of feeding.

Incubator Suggestions

N running an incubator it is always to test the errs by advisable candling at least once, and better twice during the hatch. This gives the operator a chance to study the growing embryos, to watch their de-velopment. From the size of the air bladder at the different stages he is able to know whether he is supplying the proper amount of moisture 16 the proper amount of moisture. In cases of low fertility, very frequently the eggs from two or three machines candling.

On the seventh day the infertile eggs will appear clear and much like fresh eggs. The fertile egg will have a central dark spot and radiating blood vessels. There are always a blood vessels. There are always a number of germs that for various reasons of weakness start to develop and dis. These will show up on the fourtceanth day. They will appear grey and lifeless, the partially de-veloped embryo floading about in the These should be removed. They

egs. Press shound be removed. They tend to lower the temperature of the machine and decay very quickly. Ar electric flashight makes a very good tester. Darken the room and pass the light around under the egg tray. The clear, infortile eggs can easily be detected. The same method can be used in candling for dead can be used in canding for dead germa, but it will be necessary 'to turn the eggs about some to make sure of the absence of life. If an electric fisshifth is not available, a picce of cardboard with a round hole an inch in diameter cut to the second source of t

in the centre will serve the purpose. With the cardboard beld between the operator and a lamp, place the eggs one at a time before the small hole. The embryo will be easily seen.-C.

April 25, 1918



STED SEEDS

April 25, 1918.

Wanted

the "Earn a the Kn the Kn of crusading days. against Saladin an in the tweifth cen a man or boy in world uninfluenced the time. History courage of their s selves together at organization the ask was undert hunger and privat de by the way ands by the wa the sacred soil of desama.

Some such soul there is in the hea the wise and exp. found it in the s their "Earn and G day in Canada the rentyll Knyghtes mos, tipped with those evils against world is in arms. thousand Canadia hafor and give," less than ten dolla secution of Y.M thousand dollars housand will go hove in India and ar amount will be the money fifty will be a gift from their fathers and Could knightly act? Over t

This campaign w periment, no disat the so-called, pitif made," but a trium boy-power. It will part of the larger \$2,250,000 will be VMCA war W main separate and Every movement this work will be six thousand will as surely as do i overseas. The mo be so many of the which, as Lloyd G years ago, are to 1 Six thousand be your boy be one o

m.dore? Can it be done! lieve that once the is harnessed to the red-blooded Canas what is wanted at set about, there y the original abie Once young Canad the top" they will front and for an i is a way Canadia and young. They are shoulder to sh big brothers "over every ounce of en and every cent th tribute towards ha with honor for the Allies

How It WI How is it to be boy in Canada, as be given an opport give" \$10. He m units of \$10, but sign a Pledge Ca There are three w ioney may be ra may earn it; (2) from his eavings, duct it from his all drommstances whis lick it. Very few

Wanted ! Six Thousand Boy Crusaders ! The "Earn and Give" Campaign of the Y.M.C.A .- John L. Love

W HEN the Knights of St. John, the Knights Templars and all or manding days, fought in Palestine ef crusading days, fought in Palestine against Saladin and his infidel hordes in the twelfth century, there was not a man or boy in the then Christian world uninfluenced by the chivalry of the time. History records how thou-sands of boys, fired by the dauntless courage of their sires, banded themselves selves together and set out for the Holy Land. Without leadership or organization the almost unthinkable task was undertaken, and although hanger and privation slew their thou hunger and privation slew their thou-ands by the way, a small but un-saunted remnant did actually reach the sared soil of their noble young dreams

Anril 25, 1918.

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dreams. Some such soul of knight errantry there is in the heart of every boy, and the wise and experienced leaders of the Y.M.C.A. Boys' Department have found it in the stirring appeal of their "Earn and Give" Campaign. To their "Earn and Give" Campaign. To-day in Canada there are six thousand "gentyl Knyghtes" who will couch a hance, tipped with sliver dollars, at those evils against which the civilized world is in arms. Each of these six thousand Canadian boys will "earn and give," and give," before October 1st, not less than ten dollars towards the pro-section of Y.M.C.A. war work at home and overseas. Of the sixty thousand dollars thus raised five housand will so towards work for boys in India and China, and a simihors in India and China, and a simi-iar amount will be set aside for boys' work in Canada. The great bulk of the money-afty thousand dollars-will be a gift from Canadian boys to their fathers and brothers in the treaches. Could there be a more knightly act?

uniphy set? Over the Tep. This comparison will be no fulle es-pernent. no disartous deback, like na socalod, pittful "Children's Orn-act," but a triumph of organised beyoner. It will parallel and be a stri of the larger effort in Max, when the Max and the state of the set Max and the set of the set Max and the set of the set Max and the set of the set of the set of the set of the set set of the set of movement. Every boy who enlists in this work will be a crusader, and the inst as surely as do their big brothers overseas. The monsy they earn will be so many of those "silver bullets," which, as Lloyd George said three years ago, are to win the war.

Six focusand boys will "earn and give" sixty thousand dollars. Will your boy be one of these young crumders?

Can it be done? Easily! We be-Can K be done? Lashiy? We be-like that once the latent boy-power is harnessed to this job, once every redblooded Canadian youth knows what is wanted and how it is to be set about, there will be such a reponse to the challenge as will leave the original abjective far behind. Once young Canada gets going "over the top" they will advance on a wide front and for an immense depth. It freat and for an immense depth. It is a way Canadiams have, both old and young. They will know that they are shedder to shoulder with their high broblers "over there," and that were once of energy they expend, and serry cent they earn, will con-troles towards had ill with hour for the Empire and her allies. Allies

How It Will Be Done.

How it Will Be Done. How is it to be done? Every older by in Canada, as far as possible, will be given an oportunity to "earn and fre" 10. He may give more, in uise of 10, but not less. He will gin a Fledes Card to this offens there are three ways in a which the many may be raised: (1) The boy ay san 3!, (2) he may desket. It way san 10, (2) he may desket. It with from the allowanes. Under no. Shell 8. Very few hoys will need in-bel 8. Very few hoys will need in-

structions how to earn the money, bu each local representative of the Cam-paign will conduct an "Employment Bureau," where all boys who have pledged themselves will find a list of available jobs. Any boy with suf-

or available jobs. Any boy with suf-ficient independence and initiative to succeed without having recourse to the Employment Bureau will receive a special red seal on his certificate. These certificates resemble bonds.

These certificates resemble bonds. They have detachable coupons, and whenever \$1 is paid in a coupon is detached and handed to the boy as a receipt. When all the coupons have been detached the certificate belongs to the young trader, and it will then be filled in and signed for him, to remain a permanent record of "some-thing attempted, something done" in the great war

the great war. Every boy knows the immense vari-ety and interest of the jobs that pre-sent themselves during the long summer vacation, and those worthy of summer vacadion, and those worthy of their Canadian upbringing, who han-dle a rake or a hoe, a rabbit hutch, pigeon foft, or even "keep a bee," will raise more than blisters if they set about it in the right way, as they are sure to do

Why Not Be a General?

Why Not Be a General? An interesting feature of the cam-paign will be the Military Competi-tion to stimulate secruiting. As soon

cs a boy signs the pledge card he takes rank as a private. His first recruit entitles him to the rank of properly entries nim to the rank of corporal, and his second entitles him to the rank of sergeant. Each re-cruft elevates the boy one grade high-er, and each new comer becomes a recruiting agent in his turp. From this h ppy appeal to the boy's competitive sense and his imagination great results are bound to flow. The tremendous task of organizing

this "Earn and Give" Campaign is in the cap ble and experienced hands of Mr. R. M. Atkins, whose aptitude for work amongst boys marks him out as the obvious leader. The whole field the obvious leader. The whole field of boy life is being busily and ener-getically organized, and Mr. Atkins' slogan is "Every older boy!" Is your boy going to be a Crusader.

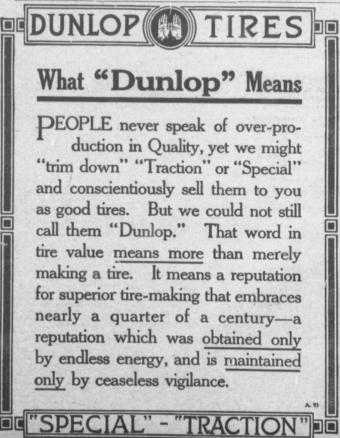
or just a cruiser? Think what it will mean to him. Sixty thousand dollars mean to him. Sixty thousand dollars is a fine contribution from the boys of Canada. Sure! But think what the contribution will be to them! It will turn their vacations into some-thing more than vacancies to be filled thing more than vacancies to be filled in anyhow. I' will teach them that there is no drudgery in work that is unsefish. It will give every boy an opportunity of finding by test where his natural ablitties lie. It will be for both parents and boys at once a game, an intensely interesting experiment an intensety interesting experiment, and a genuine contribution to that world-wide struggle for liberty in which Canada and the rest of the civilized world is engaged. (9)

The Ideal Seed Bed

T HE Ideal Seed Sm5ll seed Bed HE Ideal Seed Bed for sowing small grain should be mellow. amail grain should be mellow, but well pulverized about as deep as the seed is planted. Below the depth at which the seed is planted, the soil should be firm and well set tled, making a good connection with tied, making a good connection with the subsoil, in order that the water stored in the deeper soil may be drawn up by capillarity into the sur-face soil. The firm soil below the sprouting seed supplies the necessary moisture while the mellow soil above

molsture while the mellow soil above favors the upward growth of the youz shoots in the air and sumhine. A loose deep seed bed is usually dependent upon rains for sufficient molsture to germinate the seed and start the young plants. If the grain starts it is more likely to be glared by short periods of dry weather, be-cause of the rapid drying out of the loose surface soil. In such a seed bed loose surface soil. In such a seed bed the crop is more apt to "freese out" in winter or "burn out" in summer than the crop growing in a firm, well-pul-verised seed bed. It should not be in-ferred from this that land should not be plowed deeply; rather, deep plow-ing should be encouraged, but timely, so that the soil may settle and fill with so that the soil may settle and fill with molature, and suitable cultivation should be given after plowing to secure a favorable physical condition of the seed bed.

Give the world the best you have and the best will come back to you.





If you are roofing, or repairing roofs this year give your building the protection of Paroid. For in-stance, burning cinders falling on a Paroid roof die out harmlessly

NEPONBET

ROOFING

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Paroid makes an attractive roof, too, either in the gray finish, or with the red or green crushed slate surface.

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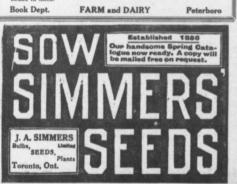
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BRINGING IN THE CASH

One way to do this is to increase your output by better methods of production-another is to conserve the feeding stuffs you now proce, making them go farther by carefully balancing the feeds. Study out this problem this winter. The one best book of which we know on this subject is "DAIRY FARMING," by Eckles & Warren. You can secure it from our Book Department. The price is but \$1.50, neatly bound in linen.



FARM AND DAIRY

SHEEP AND SWINE

The Care of Wool

ON'T tubwash your wool; the user does not want it and he can take better care of the washing than you can.

ing than you can. Don't keep the wool in the cellar before marketing for you are sure to lose money by having it damp. Damp-ness causes the wool to be discolored. Don't leave the tags on the flecce, for they will be taken off when it is

graded and more wool with them than you would take off by clipping before shearing. Don't tie the fleece

twine; use paper twine only. This can be had on application to the Sec This retary or Manager of the Canadian Cooperative Wool Growers, Ltd., 128 Sincoe St. Tornto.

Don't sell your wool to the peddler. If you have not a grading station near you, send it to the nearest Coopera-tive Wool Association, where it will be graded. Remember that the larger graded. Remember that the larger the quantity the better the price. 100,000 pounds is worth more per pound than 1,000 pounds to the wool buyer.

buyer. Don't depend on yourself to handle your lamb and wool crop, become a shareholder in the Canadian Cooper-ative Wool Growere, Ltd., and get the assistance of your fellow sheep raiser; it means protection to your markets in the future.

Dipping the Sheep

HE dipping or treatment of sheen with some sheep dip (there are several reliable dips on the market) should be done early in the su act, should be done early in the sum-mer. The most effective time to dip is just after shearing, while the wool is short, dipping both ewes and lambs. It is well then to dip again in ten days to kill any newly hatched ticks. Repeat the dipping in the fall to clean up the sheep before winter.

10 mil 6

Place the dip in a vat having a tight run-way for the sheep to go out on while the dip runs back in the vat, thereby saving the solution. The finest kind of vat is made of sheet metal, but vats may be made of sheet good matched, sensoned lumber, if the joints are filled with white lead and the inside of the boards heavily related with and the inside of the boards heavily painted with good paint. The vate should be four feet deep and main-tain their full depth for about four feet in length. In this part the sheep are immersed in the dip, keeping only the head above. After this four feet of level bottom, a slatted bottom runs upward at an angle of about 45 de TRAS The wat is placed in a pit dug into

the ground. A small enlargement of the excavation enables one man to stand alongside with his feet almost as low as the bottom of the vat. The eep are yarded and passed through a chute, one at a time, and handed to the man beside the vat. He immerses all but the head, The sheep walk up the incline and are retained a moment to drain in a chute above a tight floor. A tight new wagon box is often used for this chute. The floor is sloped to drain back into the vat. When the dip has drained out sufficiently the sheep is released.

Feeding Motherless Pigs

OULD you kindly advise me as to

C total you annaly advise me as to the proper way to feed young pige having lost their mother.—H. B. M., Bruce County, Ontario. The rearing of a litter of orphan pigs is usually very difficult and trou-blesome, but with care and persever-one, this care has accouncileded. ance this can be accomplished. the pigs are old enough to drink, this work can be done with greater case than otherwise. If very young and unable to drink, it would be neceseary to devise some receptacle with nipties attached thereto, so that the

April 25, 1911

little nigs may drink cow's milt however, the little pigs are able drink this milk can be fed in a sm trough. The feeding should be de as near as possible at regular in vals. starting with eight feeds per a vals, starting with eight focds per and gradually diminished foeds per day, the total quanty during the day being high creased. By the time the start four weeks of age the which skines and at six weeks of age the who milk discontinued and skin-milk as milk discontinued and skin-milk as grain used as the sole ration. In little pigs should be taught to m sume grain as young as possi This can be best done in two was by scattering some some first. whole grain amongst the bedding pen, and second, by mixing a gra composed of middlings or short, in narts; linseed oil meal or tankas; parts; hinseed on mean of tankaga, part, with skim-milk; and fed tens ately in a trough. This should a saide from the regular whole milk a Feeders always find it adva tion able to give the whole milk or sha milk to pigs under six weeks of an at a temperature of about ninety as grees. As soon as the pigs are ad accustomed to a grain ration the nation are may be given dry or as soaked in with or without the skim-mily found desirable on the part of the pig.-E. S. A.

Field Notes

By "Mac."

NE of the things one notice

while travelling about the con-try in the evening, when has

abiding citizens are supposed to be

sitting around the fireside, is the number of places where a lanter is

to be seen going about the barns the

one not acquainted with farm life the

might seem strange, many people imagining that the rule, "early to be

and early to rise," applies parties larly to the farmer. However, as who knows about farm life realize

that a lantern moving about the ban

at night means a farmer doing up his

chores, and at a time when he one

chores, and at a time when he one to be in bed, for 5 a.m. comes quit ly. In spite of the oft-repeated sub-ment that farmers now quit work a

six o'clock, there are many who is

work in shape for the night at the

hour there are a thousand and one in the things that have to be attended in

that take a lot of time. In the preset time of labor shortage I do not know

of any other class of markind whe

would spend as many hours gots

about with a lantern doing up wet

which should be done during the duy by a second man, as that same much

with Mr. W. C. Prouse, of Tillsonburg

the subject birned to the farm and and he gave me the following Has

tration of ones of the many uses is which it can be put: "One day hat

horses were at work in the field and

I hated to take one of them in, as I

was right in the rush of spring work

What I did was to the the demonst behind the Ford, load it up with 1.38 lbs. of oats, and trail it into town

got it ground and trailed it but again. It worked fine. On only a

few of the steepest hills had I to us low gear, and I had all the seal in town trying to sell me a genuls

Handling the Winter Manure. There are many ways of bandling the manure that is made during the

way now is to draw it direct to the fields and spread 4t. This are time in the summer and spring. Of some farms I notice, however, the

On only a

The most prevaled

spring we were out of chop.

The Farm Car.

course of a conversion

abused citizen-the farmer.

the

traffer.'

winter months.

not, and even if they got their reg

A Wise Farmer

"I suppose some 1 should not worry problem," said a pro the probability of h do his share in the g "I have campaign. campaign. "I have that stands six feet looks able enough i he is just 16 years of experience just how grown boy can stan grown boy can stan going to run the risi him by expecting hi work. If I cannot s my son and I will even if it falls shor share." This farmer in his ideas. There need for sound, able ing the next decade.

Doing Without

l came across a he who formerly worked near London, Englan impressed him most Canada was the much of cattle and comseq turn for which of sponsible. For insta in England would four men to hand alone, here would be man. There ever shining and bright. white starched suits be scrubbed mulat This, while it no dot cost of production, w pecessity, and shippi

very strict on these He said that after here he saw how c milk could be produ this fuse. He though milk producers had for milk and help breeders have to com of the "fuss" would there, too. "In fact "no doubt in many men are being draf service, the Old Cour being forced to ado Canadian style and g they can with les

Don't let rubbish ac the yard. Pile any go ly and convert the re Good dairy sait doe "grittiness" in butte from the use of a poo

ADTH 25, 1998

still adhere to the it in small piles to the frost comes out. for handling avoid washing away avoid waening away melts in spring. To drawback to this sym put on land that is the spring. It pre-under the piles for Thus, instead of g Thus, instead of g plowed early when ready, it must stand thawed enough fo then for the groun then for the groun A Small Farm W

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still adhere to the method of putting it in small piles to be spread when the front comes out. The idea in most cases for handling it this way is to avoid washing away when the snow melts in spring. There is one great drawback to this system, capecially if drawback to this system. especially if put on hand that is to be plowed in the spring. It prevents the ground under the plice from thawing out. Thus, instacd of setting the field plowed early when the rest of it is ready, it must stand till the plice are thaved enough for apreading and then for the ground they cover to become thawed out.

A Small Farm Well "Manned."

A few weeks ago I spent an evening with Collier Brothers, the Ayrfarmers own 175 acre up-to-date which before the war they were able to handle quite satisfactorily. Last year, however, they had considerable year, however, they had considerable repairing to do, and were unable to get satisfactory help to do it and at the same time work the farm. "The the same time work the farm. "The way we solved the problem," said one of the Mesers. Collier, "was to rent half of the farm and sell some of our cows. Now we can get along without hiring help, and while we have to work possibly harder than men of our age ought to work, we alwaya manage to get along somehow

A Wise Farmer and His Boy.

"I suppose some people think that I should not worry about the help problem," said a prominent dairyman the probability of his being able to the probability of his being able to do his share in the greater production campaign. "I have a son at home that stands six feet two inches and looks able enough for anything, but he is just 16 years old. I know from erperience just how much an over-grown boy can stand, and I am not going to run the risk of overworking going to run the risk of overworking him by expecting him to do a man's work. If I cannot secure hired help, my son and I will do what we can, even if it falls short of our allotted even if it tails short of our allotted share." This farmer is not far wrong in his ideas. There will be a great need for sound, able-bodied men during the next decade.

Doing Without the "Fuss."

I came across a herdsman the other day in one of our Ontario dairy barns, who formerly worked on a dairy farm near London, England. He said what impressed him most when starting in Canada was the much greater number of cattle and consequent greater re-turn for which one man was re-sponsible. For instance, a herd that in England would probably require four men to handle in the stable alone, here would be handled by one man There everything was kept man. Inere every and was kept shining and bright. Men must wear white starched suits and the stable must be scrubbed every day, etc. This, while it no doubt added to the cost of production, was considered a necessity, and shipping rules were very strict on these points.

He said that after a few months here he saw how clean, wholesome milk could be produced without all this fuse. He thought that if British milk producers had the same prices for milk and help that Canadian breders have to contend with, much of the "fass" would be eliminated there, too. "In fact," he concluded, of the "Tass" would be embedded. there, too. "In fact," he concluded, "so doubt in many ways, now that men are being drafted for military service, the Old Country farmiers are being forced to adopt more of the Canadian style and get along as beat "so and with leas help and leas can with less help and less

Don't let rubbish accumulate around the yard. Pile any good lumber neat-ly and convert the rest into firewood. Good dairy sait does not leave thet "grittiness" in butter which ress "); from the use of a poorer brand.



FARM AND DAIRY

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Canada's Standard Car

The McLaughlin Motor Car Co. Limited

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The McLaughlin Carriage Co., Limited OSHAWA, ONT, CANADA

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are getting not always the best. This statement is correct and will bear any estigation. Have had such pleasure with car, compared with others, suggested it to that I should write you this note, which of some use. Yours macorely

> This Bes ph ja

a/c. Comoinal

CHAS. P. BAILEY.

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ate, Ont

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Write NOW for Pratts new "Baby Chick Book." It's FREE.

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The Requirements of the Butter Market *

Canadian Creamerymen Should Aim to Produce a Mild-Salted, Pale Colored Butter-P. W. McLagan, Manager, Lovall & Christmas, Montreal

NTIL a few years ago the re-quirement of the Canadian producers with respect to their year's production on the whole. By following the policy of uniforming of production on the whole. By following the policy of uniforming of production, the Canadian produce will obtain a higher net return to the producers on the whole than any other. It will also produce for as a higher reputation in world market than we have at present. This is the policy that has been strictly follows in New Zealand and in Demmark, with the result that the products of them U full are wy years ago the re-quirement of the Canadian consumer was for a high-salted, high-colored butter, but in more re-cent years this desire has been radi-cally changed throughout the west by the influence of the importation of was Zaaltand butter to Butteb Colore. New Zealand butter to British Colum-bia. New Zealand butter is a butter of a high general quality, and its char-acter is that of light-salting and pale color, being so made to suit the Brit-iah market. The advent of this butter the result that the products of these countries bring higher average prices ish market. The advent of this outer quickly changed the prevailing desire of the British Columbia market into one for a butter which is light-sailed and light-in color, although still pack-ed in 56 lb, boxee. This preference has now generally estended to all the Prairie Provinces, and the charactercountries bring higher average price, than do the products of any other country, except possibly France, Par, of the product of Australia is just at fine as the average product of New Zealand, but the product of Australia shows greater variety of quality, and consequently does not have as high a reputation as New Zealand has, mo does it bring as high an average price. The reputation of Canadian crease ry buttor in Great Britain is that of Prairie Provinces, and the character-istics of the production of butter in respect to sait and color throughout the Northwest is for mildness of sait and paleness of color.

and paleness of color. When we go further east, however, we find that the preference of con-sumers in the home market is for relatively high sait and consequently full color. There is a alw modifica-tion of this in favor of milder sait and lighter color, especially in Mont-real and the Province of Quebec, but relift the occupies interaction is for a still the popular expectation is for a smart taste of salt and full color.

This situation raises the question of whether it is desirable for producers of butter to produce variety of char-acter in these respects. Which prac-tise would obtain the highest average price for the producer? I think the tise would obtain the highest average price for the producer? I think the answer to this question is largely de-termined by the question of whether or not the whole country prodices an important aurplus which must be ex-ported. It is a fully generally ac-composition of the state of the principally determines the price of the whole the whole

If we are going to prosper along dairy lines in this country, we shall have a surplus of butter produced each year beyond what we are capeach year beyond what we are cap-able of consuming within this coun-try, and there is only one place where in times past we have disposed of this surplus, and where probably in the time to come we shall be able to dispose of it, whatever it may be, and that is the British market. To get that is the British market. To get highest prices that market will afford, it is necessary to send the kind of goods that the people there prefer.

The British consumers are sensitive of qualities for the reason that they are catered to by all the countries of the world having surplus product to dispose of The dispose of. They require pure, clean flavor, waxiness of texture, pale color, mild salt, and the package they prefer is the 56 lb, cube box. If we are going to get the best price that this market will afford we must, for the surplus of our product conform to their taste.

The question arises whether we arrange for the surplus to be of that character, and yet produce in different sections of the country other charac-teristics such as our own consuming population now prefers, having regard, of course, to the fact that after all the bulk of our production is consumed at home. It seems to me that it would pay this country better if we endeavor-ed to alm at uniformity of quality, basing that quality upon the require-ments of our overseas buyer, even if we have to educate our own consum-ers in that direction. It would be a ers in that direction. It would be a difficult matter to know when to atop making goods to suit local tastes, and when to begin making that which suits the Britlah taste; and if there is pro-duced and thrown upon the export market a quantity of high-colored and high-alited butters, there would be im-portant loss in the price obtained for such surplus, which would adversely affect the net result to the mass of the

* An address delivered at the recent Manitoba Dairymen's Convention.

April 25, 1918,

The reputation of Canadian crean-ery butter in Great Britain is that of "irregularity." I hope, therefore, that it will be the endeavor of the pro-ducers of butter in this country is produce the article which will sell for

the highest price obtainable in world markets, as well as in the home man

ket. It will mean a further modifica-tion of taste on the part of Canadian

consumers in certain parts of the country in the direction of milder sale

country in the direction of milder sail and paler color. This can be no hard, ship, for assuredly the butter they will consume will be no less whole some, and after a time it will be bel-

some, and after a time it will be bet tor liked. In fact, it has been the en-perience over the past 40 or 50 years in Great Britain that as the public taste has became accustomed to a milder sailed article of preserval foods, the consumers liked them better and used more of them

The prairie provinces have made a good move in their butter grading, and in placing the services of their is spectors, through their certificates, at

spectres, through their certificates, at the disposed of buyers of creamery butter, thereby enabling buyers at a distance to buy the goods of these pro-vinces without personal inspection. This privilege to buyers might, I think, be extended somewhat further than it

be extended somewhat further than it so far has been in some, at least of the provinces, so that a buyer might obtain a certificate of reinspection of goods which had been held for some

time. It is reasonable that rees should be exacted for such service.

should be exacted for such service, but it is necessary that the in-spector's position should be thoroughly independent. The more complete the confidence which can be established in methods of trading, the bigger the

business and the better the prices paid.

business and the better the prices pail. It is necessary, however, if this pro-tice is to be of nation-wide bends, that the systems of inspection and its principles upon which the cuality of butter is determined should be un-form, one province with another. It is desirable that a piece of butter wide is classed as No. 1 in one province, should be in all essential characteri-tics the same as that which is classed as No. 1 in another province, no matter bow distant. To obtain this result requires that the instructors and be trained and educated along the same lines. In order that they may continue to apply the principles this

continue to apply the principles that they have learnt in a uniform and ef

fective way it is desirable that the inspectors of all the provinces should

inspectors of all the provinces should meet periodically in convention to di-cuss-methods of manufacture asf principles of valuing quality. These meetings would not only result in steady improvement of quality, bit would maintain uniformity and the confidence of the commercial public, and of our eventomers in Grast Bit

and of our customers in Great Brit-ain in the various grades of Canadian butter that we may have to offer

Look on the bright side-and if

there is no bright side-polish up the dark one.

and used more of them.

of the

Some Fiscal Prob cultural C (Continued from

An element of first the Grain Growers' a ent situation is the i tional authorities du of the war to make an ion for meeting the i dian life, and their co less a radical change curing revenue is in den of the war cost w crushing weight upo on the land as to c paralleled national c

To-day the Govern opportunity. In a s are clamoring to be t wants to do his blt. willing to make sac are abnormally large natural products are War work has piled porutions profits und years ago. It is est \$100,000,000 of exce over seven per cent., ally over ample pro ciation and scrapping been left in corporat sult of two years' wa adian Finance, May admn Finance, May : Growers believe we a ourselves days of ha fulty in the future, cumstances as these at once while the wa more toward meetin

The national debt the war was \$336,00 than three years it night three times the estimates show that may reach \$1,200,000 of the present fiscal has been paid on the has been part on the cost to date is a p (\$60,000,000 raised a "minus margin" of the two preceding y unfavorable contrast B United Kingdom. Venue for the year en hast was \$2,876,137,90 \$1,183,303,790 for the Taxes on excess

profits\$ 699 Taxes on income and property 1,025 3F / Customs 281 Excise 281 (N.B.—From excess cumulated wealth 60. was raised.)

Canada's total reve year just ended Customs\$13 Excise Railways P. O. Tax ... Excess profits. 1 In Canada, excess

ed 6.58% of the total Accumulated wea nothing.

Canada's plutocr gathering a rich harv and safely investing war bonds, so that t paying any part of t that they shall be th with the prestige an which the possession It is true that at last war profits tax bas b to depend solely upo whelly to solve t problem, when there ofits to tax, and wi will have to be imp tions utterly unprep Prices will be lowerwhen prices were a will have to be paid of products gathere may be abnormally the worst possible t adjust itself to the n principle of allowing

April 25, 1918.

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Some Fiscal Problems of Agricultural Canada

(Continued from page 4.) An element of first importance in

the Grain Growers' view of the pres-ent situation is the failure of the national authorities during the course of the war to make any kind of provisor no war to make any sild of provis-ion for meeting the inevitable burden which it must place upon our Cana-dian life, and their conviction that un-less a radical change in modes of securing revenue is instituted the bur-den of the war cost will fall with such en of the war over win fait with such crushing weight upon the producers on the land as to constitute an un-paralleled national catastrophe.

paraitered haudhai catastrophe. To-day the Government has special opportunity. In a same our people are clamoring to be taxed. Every one wants to do his bit. The mation is wants to do his bit. The nation is willing to make sacrifices. Incomes are abnormally large. The prices of matural products are abnormally high. War work has piled up for many cor-portions profils undreamed of two pars ago. It is estimated that over pars ago. It is estimated that over over seven per cent., and, also, gener-ally over ample provision for depreally over an provide provide not depre-dation and scrapping of plant) have been left in corporate hands as a re-sult of two years' war business. (Canadian Finance, May 2nd, 1917.) Grain Growers believe we are laying up for ourselves days of hardship and diffi-fulty in the future, if with such circumstances as these we do not begin at once while the war is on to do more toward meeting the enormous

The national debt of Canada before The partonia desk of causal below the war was \$35,600,000. In less than three years it has run to well-night three times that figure. Careful estimates show that it is possible it may reach \$1,200,000,000 by the end of the present fiscal year. All that has been paid on the principal of war and been part on the party \$20,000,000 (\$60,000,000 raised last year, but a "minus margin" of \$40,000,000 from the two preceding years.) Canada's position in the matter stands in most unfavorable contrast with that of the United Kingdom. Britain's total re-Venue for the year ending March 31st Mar was \$2,876,137,900-an increase of \$1,183,303,790 for the year. Taxes on excess

profits\$ 699,600,000 or 24.43% Taxes on income

and property 1,025 165,000 or 33.77% was raised.)

Canada's total revenue for the fiscal year just ended was \$229,217,270, raised as follows:

1. Customs\$1	33,351,155-	58.33%
2. Excise	24,253,632	10.52%
1. Railways	25,018,997-	10.96%
4. P. O. Tax	20,031,627-	8.77%
5. Excess profits.	14,552,383-	6.58%
In Canada, excess	s profits con	tribut-

ed 6.58% of the total. Accumulated wealth contributed nothing.

Canada's plutocrats have been canada s pinterats have been gathering a rich harvest from the war, and safely investing it in untaxable war bonds, so that they shall escape paying any part of the price, and so that they shall be the moneyed class, with the prestige and the dominance which the possession of money gives. It is true that at last a fairly adequate war profits tax has been imposed but to depend solely upon that is to fail wholly to solve the after the war probem, when there will be no war will have to be imposed amid condi-fions utterly unprepared to bear it. Non utterly unprepared to bear it. Prices will be lower-supplies hought when prices were abnormally high will have to be paid for by the sale of products rathered when prices may be abnormally low. It will be the work possible time for trade to sight tiself to the new burdens. The wharped of allowing wealth to escape FARM AND DAIRY

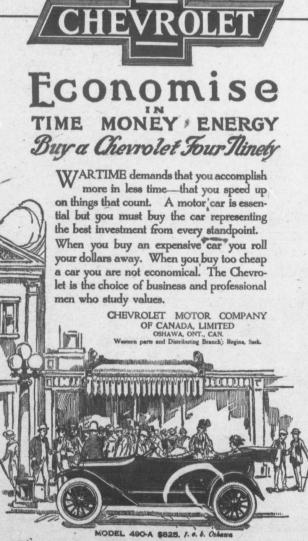
taking its share of the burden, and later allowing the load to fall- upon labor and production, is essentially vicious

Grain Growers are convinced that if at the close of the war Canadian industry on the land and elsewhere is not to be crushed under the burden of war cost, crushed to utter desperation, the cost of the war must be under-taken and as far as possible provided for now. The cooperation of those re-ceiving large incomes must be enlisted. Accumulated wealth, in what-ever form it is held, must be required to do its part. And the land values of the nation must be laid under tribute in this hour of the Empire's testing.

The common brown rat breeds six to 10 times a year and produces an average of 10 young at a litter. Young fomales breed when only three to four months old. At this rate, a pair of rats may in one year increase to 1,122,

and in two years to 629,442. From this it is plain that the rats must be exterminated. As long as a few are left they will in a very short time become very numerous.

An implement that is really needed is always a good investment. But first be sure you need it. The pur-chase of unnecessary implements has driven many a farmer into bankruptcy.



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



by 3. D. Grussale. O Noar Dominion Experimental Yarm cystem we have tried every type of silo that we have ever heard of. Many are good, and the good stave silo is as good as any of them. The stave silo requires a little attention each summer, which is sometimes considered a drawback. The course tislo must be vory meabuilt to start silt. The first requisite s good drainage and a good foundation. In the monolithic silo use pleaty of reinforcing, although small steel rod are commonly used. In this type of silo I would advocate doors at intervals, rather than a continuous door. I do not believe that the average contractor can build a monolithic concrete silo sufficiently strong and at the same time provide a continuous door.

This interior finish of the cement die is is matter of importance. If the walk are rough, the acids in the sensings will eat away a certain amount of the concrete each year. These silos should be finished with a thin plastered coat of nearly pirc cement. Lackfler this coat, the juices of the silage will go right through the rough walls of the silo and weaken the whole structure. This is also true of the cement block silo; if not well plastered it is practically sure to leak.

The silos, if put up properly with a few holes near the bottom to lat cort the julces that get through the first layer, are very satisfactory. The manufactures of tile solts any notiing about the necessity of these holes at the bottom of their silos, but they are needed, as otherwise the julces inside may frees and split the tiles. The importance of height in the silo cannot be overestimated. Height

allo cannot be overestimated. Height is necessary to its successful use. In a high site the ensilage will keep better, does not freese as readily, and it will store more feed per cubic foot. I would advocate that all sites be at least 30 feet high: I like 35 feet, and, it on the site hill where a part of the site in underground, I see no objection to 40 feet.

tion to 40 feet. A roof for the sile is an optional matter. If there is a heavy snowfall in the district each white, I would put a root over it. If you il means neat, stylink appears is, however, no dangue of the ensilage spoling through exposure. In fact, the molitury that fails on the silage will preserve it.

Place the silo at the most conventent point, a place that combines facility in illing with convenience in feeding. The silo owner can save dollars every year by so placing his silo that teems approach easily when fiking and there is no extra carrying of ensitage when feeding.—Address at Chatham.

Don't "Jail" the Bull

To be healthy and good tempered a dary well must have plenty of paddock, where he can exercise at will, will pay for inself in good reruts. A heavy block hung in the centre of the paddock that he may play with makes a good exercise. Have the stall clean, light, and wei ventilated, and have it large enough so that he may have alis head free when jring down.

A built should be handled from the time he is six months old. If handided when he is young he will give less trouble when he is oldor. Put a ring in his nose when he is a year old and always use a staff in handling him. Nover trust a dairy built. He is a built and liable to do damage at any time if given a chance.





April 25, 1918.

Fomalin Will Pr

By H. E. V T HE formalin spri seed treatment favor as a mean the stinking smut of smut of barley, oat an and some other forms main steps in the tr follows:

follows: 1. Purchase the new 40 per cent. formalin water at the rate of gallons of water for eats and millet smuts. 9 Use a clean floor

2. Use a clean floor er canvas in the open. of grain should be apredeep upon the floor with the above-mention lation. If the grain is or otherwise dirty it means be fanned befor 3. Sprinkle the sol

3. Sprinkle the solt grain with ordinary ga can. Use about one tion to each bushel o means use enough to the kernels. 4. Then the grain

c. Then the grain showeled. A thoroug the solution is being sure contact of the sa grain which is necessar treatment entirely a person can handle the another thoroughly mi 5. Showel treated and s. Showel treated and same second se

and cover with canvas that has previously be formalin solution. I about six hours, but twelve hours. 6 Spread grain out

6. Spread grain out two inches deep and a 7. If convenient, th be put into clean sacc a clean bin so as to from coming in conti no case should it be bin from which it we the bin has been clean;

the bin has been cleaner solution. Sweeping in fore the treated grain moved should never large quantities of sam settle on the floor and their way back again the By the use of this m

a shert time and it i treatment of any const of grain.

Urge Flax P IMEDIATE action by farmers and m Ontario if aevern untario if aevern untario if aevern oversona at his time, uffieed to the beat a versona at his time, uffieed to the beat a versona at his time, uffieed to the beat a verson at his time, outers of with Commis culture Dr. G. C. We payet Minker, W. I bet week, and asked U ber Provincial Govern

The British Governa hare quantities of the was grown in Siberia, shipped to Canada by The intertion was to and and phant it there that the fiax this fall in meeting the big s fibres. Large quantiti needed for the man plane wings.

94-50 s Bushei Unatte, becanse of tramports, to get al Ireland in time to pl the Admiralty is anxised, which is in ware real, phnted in Canas is being eithped to't planted, but there is eis which must be province. The seed is quality. A guarantees a bushet this fail for



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CREAM WANTED

Fomalin Will Prevent Smut in Grains

By H. E. Vasey. HE formalin sprinkle method of

seed treatment is very much in favor as a means of eliminating the stinking smut of wheat, closed smut of barley, oat smut, millet smut, and some other forms of smut. The main steps in the treatment are as follows

1 Purchase the needed amount 1. Purchase the needed amount of 40 per cent. formalin and mix it with water at the rate of 1 pint to 40-45 gallons of water for wheat, barley,

gallons of water for wheat, barley, eats and millet smuts. 2. Use a clean floor or wagon-bed, or canvas in the open. A few bushels of grain should be spread a few inches deep upon the floor and sprinkled

with the above-mentioned formalin so-huton. If the grain is badly smutted or otherwise dirty it should by all means be fauned before being treated. 3. Sprinkle the solution over the grain with ordinary garden sprinkling cas. Use about one gallon of solu-tion to each bushed of grain. By all means use cough to thoroughly wet. prpels the k

4 Then the grain should be well shoveled. A thorough mixing while sure contact of the solution with the grain which is necessary to make the treatment entirely successful. One

another thoroughly mixes the grain. 5. Shovel treated grain into a pile and cover with canvas or gunny sack that has previously been dipped into formalin solution. Leave covered twelve hours

twelve hours. 6. Spread grain out not more than two inches deep and allow to dry. 7. If convenient, the grain should be put into clean sacks or stored in a clean bin so as to prevent spores from coming in contact with it. In from coming in contact with it. In no case should it be returned to the bin from which it was taken unless the bin has been cleaned with formalin Sweeping in the granary benolition fore the treated grain has been removed should never be done, since large quantities of smut spores which settie on the floor and wall may find their way back again to the grain. By the use of this method two men

By the use of this method two men can treat large quantities of seed in a short time and it is preferred for treatment of any considerable amount of grain

Urge Flax Planting

MMEDIATE action must be taken by farmers and municipalities in Ontario if several thousands of bushels of flax seed, which the British teamsets of flax seed, which the British Government is umable to transport ereress at this time, is going to be utilised to the bast advantage, Col. Wayland, of London, Enginand, repre-evuing the British Admirality, and Col. A. C. Pratt, M.P.P. of Norfolk, who is anticipate the second the la satisfing him in this country, conferred with Commissioner of Agri-colure Dr. C. Creekman and the Deputy Minister, W. Bert Roadhouse, has work, and asked the assistance of the Provincial Government.

The British Government purchased The British Government purchased large quantities of this seed, which was grown in Shberia, and which was ehipped to Canada by way of Japan. The intertion was to ship it to Ire-land and phant it there shis year, so that the fax this fall could be used in meeting the big shortage of flax fibres. Large quantities are urgently needed for the manufacture of air plane wings.

\$4.50 a Bushel Assured. Unable, because of the shortage of tramports, to get all this seed to Ireland in time to plant this spring, the Admiralty is anxious to have the med, which is in warehouses at Montreal, planted in Canada. Much of real, planted in Canades. Much of it is being shipped to the West to be planted, but there is still 5,000 bushparticle, but there is still 5,000 built-els which must be planted in this province. The seed is of good fibrous quality. A guaranteed price of \$4,50 a bushed this fall for No. 1 flax is

assured those who plant this seed. In the fail the Admiralty will buy the seed and ship it to Ireland.

The Blotter Test Inefficient

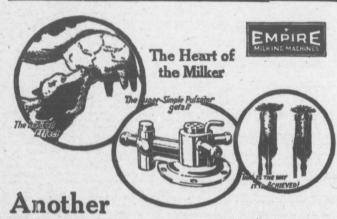
DITOR Farm and Dairy: Pardon A a suggestion with reference the article on "Seed Gr Grain the article on "Seed Grain Tests" in your issue of April 4. The advice to farmers to test their seed before sowing is excellent, but the method of testing advocated is not good, and if it is generally used and its results trusted, there is no doubt discarded

Seed Laboratory In exportments we have tested out the plate-blotter method of germinstion described in your paper, and have found it very unsati factory aven here, where much more attention is given to the tests than would be practicable in the ordinary farm home. The chief difficulty is that the blotters very seldom have proper amount of moisture.

By comparing all methods of home ed from time to time, we have found that by far the most satisfactory is to plant a counted number of seeds in moist soil in a can, box or dish of In moist soil in a can, box or dish of any kind. A check test should be put in wherever possible, some seed of known excellence being planted un-der the same conditions as the test. If the good seed germinates, one may assume that the test is fairly accurate. In the laboratory many blotter tests are made, for this method means economy both in space and labor. The blotters, however, are placed in especially constructed get minators, which keep them at suit-able temperature, and automatically supply the proper moisture conditions.

It has been found that for many seeds blotters are unsuitable even un-der best conditions. Western oats and many of the grasses are included and many of the grasses are included among these, and in spite of the in-creased space requirements, many hundreds of soil tests are made an-nually at the laboratories.

If home tests turn out unsatiafac-torfly, or if it is not convenient to make them, one may have his seed tested free (up to twenty-five sam-ples), by addressing it to the Seed Commissioner, Department of Agricul-ture, Ottawa.—H. B. Sifton, in charge of germination, Ottawa.



Battle Won for Dairymen

OR months we have been experimenting-investigating-testing -fighting, to find a way to make the Empire Milking Machine. already the unquestioned leader, still more efficient for the dairy farmer.

THE BATTLE IS WON.

We have given the milking machine a new heart-the pulsator is the heart of the milking machine-and the result of our experiment, the new Empire Super-Simple Pulsator, is the most wonderful development since the invention of the Empire-the competent milking machine.

To be successful a milling machine must have a perfectly acting pulsator to cause the alternating action of succion and massage on the teasts (to imitate the calls" suck and equeexe") to occur with absolute regularity and to make the change from suction to massage and hack comin instrument

suction to massage and back again instantaneous. The Empire SuperSimple Pulsator, the pulsator without a piston, does that and more. It really is Super-Simple-so simple that it can be taken apart and put together again in less than two minutes. It has but five moving parts; nothing to wear out or "get out of gear." It cannot lose vacuum, so its action is perfect.



It places the Empire Milking Machine immeasurably in advance of all competition. Your cows should be milked by an Empire Milking Machine with the new Super-Simple Pulsator. It will milk them more rapidly than ever - it will solve your labor problem--it will increase milk production at a decreased

cost; it will transform milking from drudgery into a pleasant chore.

into a pleasant chore. Our factory is overtaxed by the increased demand for Empire Milking Machines, so go to your dealer at once, see the new Super-Simple Pulsator and tell him to order your Empire outfit without delay; or write for Catalog \ge

THE EMPIRE CREAM SEPARATOR CO. OF CANADA, LIMITED MONTREAL. TORONTO



Kural Home

"The Farm Paper for the farmer who milks cowa" Published every Thurday by The Rural Publishing Company, Limited Peterboro and Toronto.

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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."-

Will We Cancel Fall Fairs ?

S that time-honored institution, the fall fair, to be done away with for the season of 1918? A member

of the Dominion House has given notice that he will introduce a motion to cancel all fairs this year. Already the newly formed Canadian National Live Stock Council has placed itself on record as being absolutely opposed to any such action being taken The National Council goes further and objects to any reduction in grants to fairs, even as a measure of war time economy. A meeting at Guelph, which was representative of the dairy industry of Ontario, took equally strong ground against the cancellation of fairs and the directors of the Ontario Fairs and Exhibitions' Association recently met specially to protest against such legislation being enacted. Other representative bodies of farmers will be heard from when people generally come to understand that such action is really seriously contemplated at Ottawa.

The argument that is being advanced in favor of cancelling fall fairs is that the time saved can be used in increasing the production of farm crops Probably the honorable member who contemplates introducing such a resolution will have it all figured out just how many hours a half million Canadian farmers lose attending agricultural fairs and just what these hours would represent in the cultivation of staple farm crops. The fact overlooked is that no man can work continuously and the relaxation afforded by the annual fall outing to the fair will be a greater incentive to productive effort than a holiday spent amid surroundings less calculated to stimulate to agricultural achievement. It has always been the avowed object of the fall fair to stir the enthusiasm of the farmer and live stock breeder and in this field of educational endeavor the fall fair has been an outstanding success.

But aside from the merits of the case altogether, the cancellation of all fairs by Dominion authority would be received with very bad grace in the rural districts, coming as it would from the same body that just a few days ago enacted the Daylight Saving Bill. This measure was excellently designed to give city people more time for recreation and was made law in snite of the fact that it was clearly shown that daylight saving would result detrimental ly to production. And again --- why should the farmer's peculiar holiday, the fall fair, be cancelled when the ammoment parks the theatres and the moving nicture shows are allowed to do business as usual The resolution when it comes up in the House should not he seriously considered

The Children's Protection Act

THE Association of Children's Aid Societies are making arrangements for the celebration of

twenty-five years during which the Children's Protection Act has been in operation in the Province of Ontario. In the spring of 1892 the question of securing legislation from the Ontario Government was laid before the Premier, Sir Oliver Mowat, the result being that the announcement was made that the Ontario Government would introduce the best law for the care and protection of the children that could be devised, and further that the Provincial Secretary of that time, the Honorable J. M. Gibson, would be entrusted with the task of preparing it. In the spring of 1893 at the session of the Ontario Logislature Mr. Gibson Introduced a bill for prevention of cruelty to and better protection of children. It proved acceptable to all parties and was finally sanctioned by the Lieutenant-Governor in May 1893

During the last twenty-five years there has been a steady and ever-increasing growth in connection with the work of the Children's Aid Societies, until now there are sixty-two in active operation in On tario, and nearly 2,000 philanthropic citizens give their time and thought to this cause. The Ontario Act has been adopted as the basis for similar acts in other provinces in Canada, until, practically speaking the influence of these societies is felt from Nova Scotia to British Columbia. Many advanced social measures have resulted from the Children's Aid Movement, and great public sentiment created for the better care of children. In the Province of Ontarlo during the twenty-five years over 16,000 children have been cared for during minority by the Provincial and local organizations, and nearly 700 former wards of the Society are known to have onlisted for overseas services

The growth of this department of child welfare work is merely an indication of our growing appreciation of the duty of the State to the neglected child. We are coming to recognize our children as our greatest national asset. During the past ten years it has been the privilege of Farm and Dairy to assist in finding homes among Our Folks for many of these dependent little ones, and we reloice to have had such an opportunity of helping in a great work. We trust that the next 25 years will see even greater progress made in the care and protection of dependent and neglected children. It is a great work and work that is greatly needed.

Annual Hay Crops

F ROM all over the country comes the report that

ready we have heard of numerous meadows being plowed up, their owners having decided that it is useless to expect a profitable crop of clover from such badly thinned stands. Others are waiting to see if a warm rain or two will revive their meadows, and if not, they too, will plow. Immediately the question is asked: What about roughage for the live stock next winter?

The farmer with lots of silo capacity has the least cause for worry when hay is scarce. It is the experience of many good dairymen that, with abundance of silage and a little straw, a profitable production is possible, even when no hay whatever is fed. These men will provide for the shortage from their meadows by increasing their acreage in corn. There are also several good annual hay crops that permit of seeding on late spring plowing. Among these are millet or Hungarian grass, peas and oats and oats, peas and vetches. In our experience the latter mixture is to be preferred, the same propor tions of seed being used as when seeding for "O.P.V." ensilage two and one-half bushels of oats, threequarters of a hushel of neas and one-third of a hushed of watch send to the sere. The cron is cut in the dough stage, and cured for hay.

Of course, there is still a possibility that some very dead-looking meadows may revive, but in any case it is well to be prepared with substitutes, and any meadow that is fertile enough to yield a profita. ble crop of clover hay can also be cropped to advant. age with the annual mixtures.

About Pitching Hay

CHALL the farmer's wife pitch hay? Europe Davenport, Dean of the University of Illinois

asks the question and answers it with an emphotic "No" His objections are not based on the physical fraility of womankind, nor on the ill effects that such hard muscular work might have on general tions yet unborn. The objections of this distinguished leader of American agriculture are based on the possible social, rather than the physical effects of female labor in the fields. He fears that the ultimate result of a general adoption by women of the tasks formerly assumed by men, would result in a degradation of our standard of life, that it might tend to reduce our womenfolk to the plane of the person women of Europe, who have always done the heart est kind of field work, and in the doing of it have lost much of the grace and charm of womanhood and with it the respect and deference that American women expect from American men.

These objections are well founded. There are few farm women, providing they have the strength, who are not willing to help in the fields when help is urgently needed. But for our women to work regularly in the fields, evan in this present crisis, as some of the farmers' numerous advisers have had the hardihood to suggest, would eventually lead to the very evils that Dean Davenport fears. While every town has its quota of loafers, while thousands of men are engaged in non-essential industries, and while city workmen insist on their eight or ten-hour day, we fail to see any justification for asking the farmer's wife to pitch hay.

Price Control Evaded

F rumors that have reached Farm and Dairy of correct, still further regulations are needed to

insure to feeders a supply of bran and shorts at the prices fixed by the Food Control Board. When prices were first fixed on bran and shorts on a bulk basis at Ft. William, millers and dealers at more casterly points completely ignored the fixed price, and sold freely at the highest figure that farmers could he induced to nay Regulations were then strength. ened and retail prices fixed. Even then a few millers had to have their licenses suspended to convince the rank and file of millers and dealers that the regulations of the Food Control Board had to be obeyed. Now, according to reports, some of our millers, at least, are working on a new scheme which enables them to get around the Food Controller's rulings and derive a much better price for their bran and shorts than the law allows. For many years several millers have been in the habit of selling mixed feeds under trade names. These mills, it is reported, are now mixing their bran and shorts with other ingredients and selling them under a trade name at \$55 to \$65 a ton. Does the Food Control Board consider this method of evading fixed prices legitimate? If not, we would suggest an investigation into the composition of some of the mixed feeds on the market

Dr. S. F. Tolmie, Live Stock Commissioner for British Columbia, has placed on record his opinion of the scheme to bring in 100,000 Chinese laborers in bond for the duration of the war. Said Dr. Tolmie: "The Chinamen who would come in under indenture conditions would be of the lowest class. If you got one you would have to milk your own cows, drive your own horses and do your own chores. He might coil hay or hoe. The experienced Chinaman in the West is demanding four dollars a day for his services; for, experience gained, he is no longer a cheap man."

April 25, 191:

The B AI HE Unite

Columbia conventio Victoria laid work among th this organizatio a your old, the ing hold like ve districts are fall local association igad during the

The first prol convention was ership fee. It R. Poole, th and by the pre established uate. A num anata five dollars in ciation on a pro the membership still comparative the present and that an arts made at this low hership of farm cided that prov not he employed of the opinion work could be de rectors of the as

Importan A considerable came un before were dealt with i ner. The conver united farmers of asking that the of posed on impor chinery and imple the interests of prices now asked chinery prevents from purchasing ry, and sir chine men from the far shortage in th necessary that th chinery be insta place

A resolution wi provincial gover Orientals and al control of the agr province, and a the introduction der indenture was ion, Messrs Palme whom lived in A basing their action their observation they could not vo this province. Want District

That British C would be great having a system presentatives, su in Ontario, and s provinces of Can neut made by M Duncan, in intro asking that the system such as is tario. In doing a tioned the fact ti British Columbia a year from the De as a fund to aid agriculture, this estimates expands spent for the bene about \$250,000 a divided among so meant a total expe capita. This, he i ly wrong; he wan on a more indepen tarlo and the Un trict or county re has been adopted, presenting the dep the source of info agriculturists in t ever it has been ulted in increased is a much more p money than the p present out of the \$80,000, a large pa 10

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The British Columbia Farmers Parliament A New United Farmers' Movement Off to a Good Start

HE United Farmers of British Columbia in their second annual Columbia in their second annual convention held recearly in Victoria, laid foundations for big work among the farmers of that pro-vince. Notwithstanding the fact that

work among the farmers of that pro-vince. Notwithstanding the fact that this organization is only a little over a year 604, the men in hardre are tak-districts are failing in and the various indistricts are failing in and the various local associations having hear toriv-local associations having hear toriv-tred during the past twelve months. The first problem dealt with by the convention was the fixing of a mem-bership fee. It was pointed out by H. J. R. Posle, the honorary secretary, and by the president, C. G. Palmer, and by the uniber of the dologates were in favor of fixing a fee of at least five dollars, in order to put the assofive dollars, in order to put the asso-ciation on a proper financial basis clation on a proper financial basis. As the membership of the association is still comparatively small, it was final-ly decided that the fee should be left at the present figure of one dollar. at the present figure of one dollar, and that an extensive drive should be made at this low fee for a large mem-bership of farmers. It was also de-cided that provincial organiscrs will case a tak provincial organizors will not be employed, the convention being of the opinion that more effective work could be done by members or di-rectors of the association.

rectors of the association. Important Resolutions. A considerable number of problems came up before the convention and were dealt with in a businesslike manwere dealt with in a businesslike man-ner. The convention joined with the united farmers of other provinces in asking that the customs duty now im-posed on imported agricultural maposed on imported agricultural ma-chisery and implements be removed in the interests of greater production. They pointed out that the high prices now asked for agricultural ma-chinery provents the Canadian farmer from purchasing the most efficient machinery, and since the conscription of men from the farms has brought about a shortage in the labor supply, it is necessary that the most up-to-date ma-chinery be installed to take their place.

A resolution was passed urging the A resolution was passed urging the provincial government to prevent Orientals and allens from acquiring control of the agricultural lands in the province, and a resolution asking for the introduction of Oriental lahor un-der indenture was rejected by the Un-ion, Measur Paimer and Poole, both of whom lived in Australia, stated that basing their action on the result of their observations in Australia, that they could not vote for any resolution for the introduction of Chinese into this province

Want District Representatives.

Ward District Representatives. That Britin Goimbia arricultures would be greatly benefited by having a system of district re-presentatives, such as we have in Ontario, and some of the other provinces of Canada, was the state-ment made by Mr. Hugh Savage, of Dusca, in introducing a resolution asking that the government adopt a system such as is how in force in On-tional as efficient of the Savage meet British Columbia drawe about \$89,000 a year from the Dominion Government as fund to aid in the extension of Agriculture, this with the provincial agriculture, this with the provincial estimates expands the total amount semine expanse the total amount spent for the benefit of agriculture to about \$250,000 a year, which being divided among some 5,000 farmers, meant a total expense of about \$50 per capita. This, he thought, was entire-burgers. ly wrong; he wanted to see farmers on a more independent basis. In On-tario and the United States the disor county representative system has been adopted, a trained farmer rehas been adopted, a trained farmer re-presenting the department and being the source of information to all the Agricultrists in the district. Wher-wer it has been adopted, it has re-miled in increased production. This is a much more practical use of the measur than the present system. At mosey than the present system, at space part of the Dominion grant of \$39,800, a large part of it is devoted

to the production of the Agricultural Journal; to financing egg laying con-tests and the field crop competitions; while \$20,000 is allocated to the education department to teach agriculture in the schools and encourage work among the children. The resolution

among the children. The resolution was unanimously adopted. Resolutions were also passed asking that the Provincial Government draft a Rural Credits Act for farmers; that the government take action to have all telephone companies in the province linked up in the one system; that the Proof Controller be urged to fix a mini-Food Controller be urged to fix a mini-mum rate for hogs; and a resolution that members making five consecutive annual payments of five dollars, be granted life membership.

granted life membership. Cooperative Company. The year's report of the Cooperative Farmers of British Columbia, Limit-ed, which is the commercial organiza-The start start of the start of

Membership in the Cooperative Parmors of British Columbia is \$10, which entities each mamber to two failed the second second second second U. F. of B. G. in the commu-tation of the second second second B.C. resulted as follows: President, Geo. Clark, Sidney; First Vice-Presi-dent, J. L. Pridham, Kelowna; Sec-ond Vice- President, R. A. Copeland, Lumby; Third Vice-President, W. Paterson, Kolsziak; Secretary Geo. Finith Reversions; D. K. Malakwai, J. I. Kaary, Armstrong; R. V. Hurford, Courtensy; J. W. Burry, Langley; F. Shelly, Parkaville.

Mr. J. J. Morrison, the Secretary of the United Farmers of Ontario, recently spent a few days in New Ontario. He reports a good club Ontario. He reports a good club formed at New Liskeard with Prof. formed at New Liskeard with Prof. John Sharp, formerly of Queen's Uni-versity but new farming, as president. C. T. O. Hall, formerly of the Keat County Cooperative Society, Is secre-tary. Mr. Morrison found a good live club at Heasilp, bet reports that the club at Earlton is not progressing as u chund it should.

A branch of the United Farmers of A branch of the United Parmers of Ontario was organized at Aurora or March 8. T. J. Spalding, revere of Whitechurch townahlp, was elected president, and J. A. Hill, secretary. The initial membership numbers 50. The spackers of the meeting were: President Halbert of the U.F.O.; W. Con Function results of the U.F.O.; Mr. Geo. Brodie, president of the New-market Farmers' Club, and Mr. C. W. Dane, secretary of the Vandorf Farmers' Club

A branch of the United Farmers of A branch of the United Farmers of Ontario was organized at Poham Com-tre. Ont. on March 5th. Mr. J. J. Morrison was the speaker and organ-izer, and officers were elected is noi-lows: President, H. Sürtsinger; Vice-President, E. E. Morse; Secretary-Treasurer, A. O. Haist. A second meeting was held on March 12th, and 25 members were earolled in the new stud.



COULD TALK

"Good morning, Mrs. Fawncoat. I hear that all the cows in the county are joining the 'Win-the-War' Club."

Yes, Mrs. Starface, the Dominion Government authorities say we must increase the production of butter-fat, and we cows have all promised to do our 'bit.' "

There's one thing I want to say right now," spoke up Mrs. "The farmers have got to back us up in this movement, Black I'm with the rest of you, heart and soul, but what chance have I got?

"Why, Mrs. Black, what's the matter? You have a fine, warm barn and plenty to eat and drink."

"Yes, I know; but what can I do as long as they use that old cream separator on the place? It never was any good, anyway, and now it wastes so much cream I'm just plain discouraged.

"Well, you're not so badly off as some cows, where they haven't any cream separator at all."

"I don't know about that. There's a lot of cream separators in this county that are only 'e.c.us.es'-not much better than none at all. I tell you, Mrs. Fawncoat, with butter at present prices and our Allies burging every one to save fat, it's almost a crime to waste butter-fat the way some of these farmers do.

"That's one thing I'm thankful for," said Mrs. Fawncoat, "there's no cream wasted on this farm. We have a De Laval Cream Separator and everybody knows that the De Laval is the closest skimming machine." "Well," said Mrs. Starface, "we never used a De Laval on

our place until last fall and supposed one separator was about as good as another; but, honest, the De Laval is the first cream separator we've ever had that gave us cows a square deal.

F.G. Of course year cows can't talk—but if they could you'd never have a moment's peace until you get a be Laval Gream Separator. They are a be Laval may be bought for cash, or on such lib-real terms has the De Laval files the iteration of Laval agent, or if you don't know him, write to the names to be Laval of itera a below.

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T HE business survivors are the good advertisers. But good adver-tising is not chiefly the putting forth of strong advertisementa. Advertising is more than useless if the goods are not as strong as the advertising. Survival is founded on bedrock quality. Good ad-vertising must rest on that. Test the advertising is Parm and Dairy by that severe standard, in actual purchase. We guarantee the integ-rity of every advertised in this issue, and believe they will stand the test. Try them and see. When writing, say "I saw your advertisement in Farm and Dairy."

When Writing Mention Farm and Dairy

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NO man can tell what becomes of his examples that roll away from him and go beyond his ken on their perilous mission. - Henry Ward Beecher. The Heart of the Desert

(Continued from last week.)

from view.

start to-morrow?"

A S soon as he could drag Rhoda from the ancient pots, John led the way to the top of the ruin. He was anxious to find if there were more than the one trail leading from the desert. To his great satisfaction he found that the mesa was unscalable except at the point that Rhoda had found as she staggered up from the Aneart

"I'm going to guard that trail to-night," he said. "It's just possible, you know, that Kut-le escaped from Porter, though I think if he had he would have been upon us long before I've been mighty careless. But this. my brain is so tired it seems to have been off duty. I could hold that trail single-handed from the upper terrace for a week."

"Just remember." said Rhoda quick-"that I've asked you not to shoot to kill!"

Again the hard light gleamed in DeWitt's eyes.

"I shall have a few words with him first, then I shall shoot to kill. There first, then I shall shoot to kill. There is hat between that Indian and me which a woman evidently can't under-stand. I just can't see why you take the stand you do!" "Join dear," cried Rhoda, "put your-self in his place. With all the race projudice acainst you that he had, meadint' you have done as he has?" "Probably," answered DeWitt calm-bet, "I also would have expected what by "I also would have expected what

he is going to get.'

A sudden sense of the bizarre naof their conversation caused turo Rhoda to say comically:

"I never knew that you could have such bloody ideas, John!" DeWitt was glad to turn the con-

versation.

"I am so only occasionally," he "For instance, instead of shoot-Lies. ing the rabbit for supper, I'm going to try a figure-four trap."

They returned to their little camp on the upper terrace and Rhoda sat with wistful gray eyes fastened on the desert while John busied himself with the trap-making. He worked with the skill of his country boyhood and the trap was cleverly finished.

"It's evident that I'm not the leader of the expedition any more," said Rhoda, looking at the trap admiringly.

John shook his head. "I've lost my faith in myself as a ero. It's one thing to read of the hero. desert and think how well you could have managed there, and another thing to be on the spot!"

The day passed slowly. As night drew on the two on the mesa top grew more and more anxious. There was little doubt but that they could for a number of days at the old pueblo, yet it was evident that the ruin was far from any travelled trail and that chances of discovery were slight except by Kut-le. On the other hand, they were absolutely unprepared for a walking trip across the desert. Troubled and uncertain what to do, they watched the wonder of the sun-set. Decner, richer, more divine grew townson Never while life remained to her was she to forget what she saw there. DeWitt and Kut-le were wrestling in each other's grip! Rhoda stood horrified. As the two men twisted about. DeWitt saw the girl and nanted

"Don't stir, Rhoda! Don't call or you'll have his whole bunch up here!" "Don't worry about that!" exclaim-

ed Kut-le. "You've been wanting to get hold of me, Now we'll fight it out bare-handed and the best man min. Rhoda looked wildly down the trail,

then ran up to the two men.

"Stop!" she screamed. "Stop!" Then as she caught the look in the men's faces as they glared at each other she cried, "I hate you both, you beasts!"

Hor screams carried far in the night air, for in a moment Cesca came pant ing up the trail. She lunged at De-Witt with catlike fury, but at a sharp word from Kut-le she turned to Rhoda and stood guard beside the girl. Rhoda stood helplessly watching the battle as one watches the horrors of a nightmare.

Kut-le and DeWitt now were fighting as two wolves fight. Both the men were trained wrestlers, but in their fury all their scientific training was forgotten, and rolling over and over on the rocky trail each fought for a Mith hold on the other's throat. Kut-le was the advantage of perfect condition and superior strength. But DeWitt was fighting for his stolen He was fighting like a cave mate.



A Side View of the New Quaker Oats Plant.

Providing breakfast food for the Canuck family is now a big industry, employing thou-sands of people and millions of dollars of capital. The largest plant of the kind in Canada, that of the Quaker Cast Company, Peterboro, Ont, is illustrated herewith The old plant was destroyed over a year ago and the new buildings have been com-pleted in the short games of a few months.

and I'll lie across the end of the trail here Rhoda sighed.

the colors of the desert, and in one

suprème, flaming glory the sun sank

Rhoda's shoulders spoke anxiously. "Don't you still think we'd better

"Yes," she answered, "I suppose so.

"East," replied DeWitt. "We're bound to strike help if we can keep going long enough in one direction.

We'll cook a good supply of rabbits and I'll fix up one of those bowl-like ollas with my handkerchief, so we

can carry water in it as well as in the

two canteens. I think you had better sleep in the little room there to-night

What direction shall we take?'

6710 across

"We're

DeWitt with his

"I've nothing better to suggest. As

you say, it's all guesswork!" They set the rabbit trap by the

spring, then Rhoda, quite recovered from her nervousness of the night before, entered her little sleeping-room and made ready for the night. The front of the room had so crumbled away that she could see John's dark form by the trail, and she lay down with a sense of security and fell asleep at once

John paced the terrace for a long hour after Rhoda was asleep, trying to plan every detail for the morrow. He dared not confess even to himself how utterly disheartened he felt in the face of this terrible adversary, the desert. Finally, realizing that he must have rest if Rhoda was not to repeat her previous experience in leading him across the desert he stretched himself on the ground across the head of the trail. He must trust to nervousness to make him sleep lightly

How long she had slept Rhoda did not know when she was wakened by a half-muffled oath from DeWitt, She jumped to her feet and ran out to the

man who has brooded for months on his revenge, and he was a terrible adversary. He had the sudden strength, the fearful recklessness of a madman. Now rolling on the edge of the terrace, now high against the crumbling pueblo, the savage and the civilized creature dragged each other back and forth. And Rhoda, awed back and forth. And Rhoda, awed by this display of passions, stood like 'the First Woman and waited! Of a sudden Kut-le disentangled

himself and with knees on DeWitt's shoulders he clutched at the white At the same time, Deman's throat. Witt gathered together his recumbent body and with a mighty heave he flung Kut-le over his head. Rhoda gave a little cry, thinking the fight was ended; but as Kut-le gained his feet, DeWitt sprang to meet the struggle was renewed. Rhoda had never dreamed of a sight so sicken ing as this of the two men she knew so well fighting for each other's throats with the animal's lust for killing. She did not know what would be Kut-le's course if he gained the mastery, but as she caught glimpses of DeWitt's face with its clenched teeth and terrible look of loathing she knew that if his fingers ever reached Kut-le's throat the Indian could hope for no mercy.

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And then she saw DeWitt's face go white and his head drop back. "Oh!" she screamed. "You've kill-ed him! You've killed him!"

ed him! You've killed him!" The Indian's voice came in jerks as he eased DeWitt to the ground. "He's just fainted. He's put up a tremendous fight for a man in his condition!"

As he spoke he was tying DeWitt's hands and ankles with his own and DeWitt's handkerchlefs. Rhoda would have run to DeWitt's aid but Cessoa's hand was tight on her arm. Before the girl could plan any action Kutle had turned to her and had lifted her in his arms. She fought him wildly "I can't leave him so, Kut-le! Von

"I can't leave him so, Kut-le! You will kill all I've learned to feel for you if you leave him so!" "He'll be all right!" panted Kut-le, running down the trail. "I've got Billy Porter down here to leave with himt

At the foot of the trail were horses At the foot of the train were horses, Gagged and bound to his saddle Billy Porter sat in the moonlight with Molly on guard. Kut-le put Rhoda on a norse, then guickly thrust Porter to the ground, where the man sat helplessly.

Billy!" cried Rhoda. "John "Oh. is on the terrace! Find him! Help him

The last words were spoken as Kut-le turned her horse and led at a trot into the desert.

CHAPTER XX. The Ruined Mission.

Rhoda was so confused that for a noment she could only ease herself to the pony's swift canter and wonder if her encounter with DeWitt had been but a dream after all. A short dis. tance from the pueblo Kut-le rode in beside her. It was very dark, with the heavy blackness that just precedes the dawn, but Rhoda felt that the In. dian was looking at her exultingly

"It seemed as if I never would get Alchise and Injun Tom moyed to a friend's campos so that I could overtake you. I will say that that fellow Porter is game to the finish. It took me an hour to subdue him! Nodon't worry about the two of them. With a little work they can loose themselves and help each other to safety. I saw Newman's trail ten miles or so over beyond the pueblo mesa and I told Porter just how to so to nick him and go to pick him-up.

Rhoda laughed hysterically.

"No wonder you have such a hold your Indians! You seem never to fail! I do belleve as much of it is luck as ingenuity!" Kut-le chuckled

What a jolt DeWitt will find when he comes to, and finds Porter!

"You needn't gloat over the situa-on, Kut-le;" exclaimed Rhoda, half tion obbing in her conflict of emotions.

"Oh, you mustn't mind anything I say," returned the young Indian. "I am craz" with joy at just hearing your voice again! Are you really sorry to be with me again? Did DeWitt mean as much to you as ever? Tell me, Rhoda! Say just one kindly thing to m

"O Kut-le," cried Rhoda, "I can't! I can't! You must help me to be strong! You-who "re the stronget person that I know! Can't you put yourself in my place and realize what horrible position I am in?"

Kut-le answered slowly.

guess I can realize it. But the end is so great, so much worth while that nothing before that matters much, Rhoda, isn't this good-the to me! to me! Knoda, isn't this good-use lift of the horse under your knees-the air rushing past your face-the weave and twist of the trail-don't they speak to you and doesn't your heart answer?"

"Yes," answered Rhoda simply. The young Indian rode still closer Dawn was lifting now, and with a gasp Rhoda saw what she had been too agonized to heed on the terrace April 25, 1918

The Ur

Rest to AGOME unto you rest. you, and siall find rest f

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Rest for the first promise wi sought to win th Simple though it to indeed as lars se can be found does it not impl every fear, the s now nothing les prize with which back the wand mourning that fl so abiding or so to come back Nothing but this

the rest has eithe if found, has be again: you did did not abide in Have you ever original invitation

come to Him, the epeated twice, w in the conditions gested that abidin found in abiding Saviour says "Co will give you rest you come, and be rest,-the rest of ance,-the rest in know that all God to become fully o held fast, and an similated into our out this not even make it our very perience and enjoy gave at coming wi you have really fo very own .-- the de rest which comes guaintance and clo antiro surronder pathy

Do not these we discover what you sought in vain to h the rest you at the the real you at the ten lost. It must had not understood der to Jesus is th rest. Giving up of Him, for Him alon it; taking up His ye to be led and taugh abiding in Him, t what He wills; th tions of discipleshi there can be no th ing the rest that first coming to Chr Christ, and not so apart from Himseli in having Him that be kept and enjoye It is because so liever fails to lay that the rest so epe With some it is th not know; they wer Jesus claims the un of the whole hear there is not a spot i over which He does how in the very les cipies must only se They did not know | secration was that With others, who what a very holy what a very holy ought to lead, the r ferent one: they such a life to be ment. Taking, an never for a moment yoke of Jesus, app require such a stra such an amount of altogether beyond very idea of always, ing in Jesus, was

The Upward Look

Rest to Your Souls

66 COME unto me, and I will give you rest. Take my yoke upon you, and learn of me; and ye siall find rest to your souls."---Matt. 12 25 29.

Rest for the soul: Such was the first promise with which the Saviour first promise with which the baviour Simple though it appears, the promise is indeed as large and comprehensive as can be found. Rest for the soul, does it not imply deliverance from does it not imply deliverance from every fear, the supply of every want, the fulfilment of every desire? And now nothing less than this is the prize with which the Saviour woos hack the wandering one-who mourning that the rest has not been so abiding or so full as it had hoped -to come back and abide in Him. Nothing but this was the reason that the rest has either not been found, or. if found, has been disturbed or lost again: you did not abide with, you did not shide in Him

Have you ever noticed how, in the original invitation of the Saviour to come to Him, the promise of rest was repeated twice, with such a variation in the conditions as might have surgested that abiding rest could only be found in abiding nearness. First the Saviour says "Come unto me, and I will give you rest;" the very moment you come, and believe, I will give you rest.-the rest of pardon and acceptance,-the rest in My love. But we ance,-- the rest in my love. But the become fully our own; it must be held fast, and appropriated, and as-almilated into our inmost being; without this not even Christ's giving can make it our very own, in full exgave at coming will become something you have really found and made your very own,---the deeper the abiding which comes from longer east. guaintance and closer fellowship, from entire surrender and deeper sym. pathy

To not these words of the Saviour disover what you have partage often sought in value of the saviour of the saviour the rest you at times enjoy is so often lost. It must have been this: you had not understood have entire surreader to Jesus is the secret of perfect rest. Giving up one's whole life to Him, for Him slone to rule and order Hi, taking up His yoke, and submitting to be led and taught, to learn of Him; abding in Him; to be and do only what it wills; these are the conditions of the same the state of the first coming to Christ. The rest is in Christ, and not something He gives spart from Himself, and so it is only is having Him that the rest can really be kept and enjoyed.

It is because so many a young believer fails to lay hold of this truit that the rost so epcedily passes avany that the rost so epcedily passes avany wills some it is that they realised and be they it is that they realised all be they it is that they realised all be they it is that they are they are the there is not a sopt in the whyle of it over which He does not whis to reign; how in the very least things His disciples must only seek to please Him. They did not know how only fire the conseration was that Jesus claimed. With others, who had some idea of what a very holy life a Christian could to lead, the mintake was a different one: they could not believe such a life to be a possible attainment. Taking, and bearing, and seve for a moment laying saide the toke of Jesus, appeared to them to require such a strain of effort, and such as amount of grootnese, as to be allogether beyond their reach. The very Mae of always, all the day, abiding in Jesus, was tes high-mome

thing they might attain to after a life thing they might attain to after a life of holiness and growth, but certainly not what a feeble beginner was to start with. They did not know how, when Jesus said. "My yoke is easy." He spoke the truth; how just the yoke gives the rest, because the moment the soul yields itself to obey, moment the soul yields itself to obey, the Lord Himself gives the strength and joy to do it. They did not notice how, when He said, "Learn of me," He added, "I am meek and lowly in heart," to assure them that His rentieness would meet their every need, and bear them as a mother heed, and bear them as a mother bears her feeble child. Oh, they did not know that when He said, "Abide in me," He only asked the surrender to Himself, His almighty love would hold them fast, and keep and bless them. And so as some had erred from the want of full consecration, so these failed because they did not fully trust. These two, consecration and faith, are the essential elements of the Christian life,—the giving up all to Jesus, the receiving all from Jesus. They are in each other; they 970 united in the one word-surrender. A full surrender is to obey as well as to trust, to trust as well as to obey

But also: T have no as all to deey. It is just this shiding in leases, always bearing His yoke, in arm of Him, that is so difficult, and that arm of the world. What a mistake to speak the, and yet how often the words are the rest even more than the words are world. What a mistake to speak the, so it is the soul has but to yield is soil if Him, to be still and rest in the confinence that His faithfulneas will perform, the work of keeping it rafe in the shelf of His boxom. Oh, it is because the blessing is so great that our liftle hearts cannot rise to apprehend 1.; it is as if we cannot beliave that Christ, that Aminghty One, will in very 3eed teach and keep us all the day. And yet this is just what He has promised, for without this He cannot reall yie us rest.

It is not the yoke, but resistance to the yoke, that makes the difficulty; the whole-hearted surrender to Jesus, as at once our Master and our Keeper, finds and secures the rest.

Come, my brother, my sister, and let Come, my protner, my sister, and see us this very day commence to accept the word of Jesus in all simplicity. It is a distinct command this: "Take my yoke, and learn of me," "Abide in Me." A command has to be obeyed. The obedient scholar asks no questions about possibilities or results; he accepts every order in the confidence that his teacher has provided for all that is needed. Let us this day in immediate obedience accept the com-mand, and answer boldly, "Saviour, I abide in Thee. At Thy bidding I take Thy yoke: I undertake the duty with out delay; I abide in Thee." Let ch consciousness of failure only give new urgency to the command, and teach us to listen more earnestly than ever till the Spirit again give us to hear the voice of Jesus saying, with a love and authority that inspire both hope and obedience, "Child, abide in Me." That word, listened to coming from Himself, will be an as coming from Himself, will be an end of all doubting.—a Divine promise of what shall surely be granted. And with ever-increasing simplicity its meaning will be interpreted. Abding in Jesus is nothing but the giving up of oneself to be ruled and taught and and so resting in the arms of rlasting Love. With this grace se-Everlasting Love. cured, we have strength for ever duty, courage for every struggle, every blessing in every cross, and the joy of life eternal in death itself. -Note.--As stated in our issue of

Note.—As stated in our issue of last week, we purpose running a number of selections in the Upward Look from Rev. Andrew Murray's book, "Abide in Christ." The above is the second of the series.

Habits in youth may be controlled and directed which, in the man become the confirmed condition of life.

Bird Protection is Food Pro-

EW people are aware of the amas-fing number of insect species They out-number yields the total of the apecies of all other living crea-tures. Along with this takonishing variety of insect life is the more astonishing capacity most of the species DOSSERS for reproduction. For in-the Dominion Entomologist stance, the Dominion Entomologist has computed that a single pair of potato bugs would, if unchecked, in-crease to 60,000,000 individuals in one stance, the season. Besides the overwhelming variety and fecundity of insects, is variety and recundity or insects, is their voracity, all cating enormous quantities. Do we ever stop to con-sider who or what it is that prevents these hordes from overwhelming the earth and consuming the food supply of mankind? By ceaseless exertion, consisting of spraying, etc., we can save our gardens and orchards from being destroyed by these insects, but we cannot spray the forests and fields. On what do we depend in this Case? It is the bird and this by reason of its predominating insect diet.

Birds are the primary and the main check on the increase of destructive insects and this is their mission in organic nature—a place no other agency or species can fill.

Canada should welcome Canada should welcome every in-sectivorous bird returning to us each spring as a priceless asset. All through the winter the creepers, the nuthatches and woodpeckers have avery in authatches and woodpeckers have een quietly performing the colossal labors assigned by nature, and have cleaned up the trunks of trees by eating countless insect eggs and larvae, while the chickadees, kinglets, finches, redpoils and others have searched every limb and twig and withered leaf for dormant insect life. weed-seed eating birds, the grosbeaks and snowflakes, have co have come nt Hudson Bay and Labrador, following the diminishing heads of the weeds in the drifting snow. These species re turn in the spring to the north. and there arrives an army of warblers from the south lands, the tiny saviors of the forests, who, with the weeking-lets and tireless chickadees, search the leaves and blossoms for insect The grub-searchers wIll pests. the robins and meadowlarks, the turn fly-catchers, the marins and swal-lows, the weed-seed eating sparrows and finches, the cuckoos, who eat at the larvae of the caterpillars, the orioles, and many more-in a tide of beauty and song, to bewitch our eyes and ears, while they perform for us

an inestimable service. Lying in wait for these deliverers of ours are the small boys with sings and air guns who do not realize the value of these birds and also the useless house cats. At this serious crisis in the world's food supply, every effort must be put forth to protect insectivorous species of birds. Propile should be informed of their priceless value to the country. The relations of birds to insect life merit the utmost thought, study and intellivent consideration of governments and all who are responsible for the weifare of the country.

During the next few weeks we purpose publishing short articles in these columns on the value of birds to agriculture which we believe will prove of interest and value to Our Folks. Watch for them.

In China when the subscriber rings up Exchange the operator may be expected to ask:--

"What number does the honorable son of the moon and stars desire?" "Hohi, two-three."

"Hohi, two-three." Silence, then the Exchange resumes, "Will the honorable person graciously forgive the inadequacy of the insignificant service, and permit this humbled size of the wire to inform him that the never-to-be-sufficiently censured line is busy?"



(19)



1918, in commenting upon the fact that another of the large American Companies had adopted the mutual principle, the following words are used:-



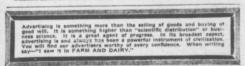
(20)

words are used:---"The Mutual idea is unquest-tionably the highest ideal in Life Insurance service. Co-operation, collective burginn-ing and distribution are the order of the twentieth century. All Life Insurance mutual-series and the service of the real as conceived on a purely mutual basis. Gemuine mutual-sation-mutual in fact as well as in theory--will be called for in the company that does not limit its reapitary optime of the practice equation concerning mutual, be ciples, but makes its practise send its policies concretely mutual, se the company that will be most in secord with the spirit of the coming generation, which before all thinds will be social-rainded and demo-cratic. Mutualization is the size-board "Turn to the Right," and it is the road that all lie issurance will securally take."

The Mutual Life of Canada is the The Mutual Life of Canada is the only Canadian representative of this ideal system that has ever been de-weloped during the whole history of the Dominion. You "Turn to the Right" when you turn to the Mutual Life Assurance Company of Cauada for protection.

The Mutual Life Assurance Company of Canada Waterloo, Ontario

THE REAL PROPERTY AND ADDRESS AND ADDRESS ADDRES



~~~~~ **WOULD YOUR MOTHER**

We know that she would Like This Set of Silverware? and therefore we are giv-ing our Boy and Girl Readers an Opportunity of securing it

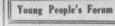
All you-have to do to get All you have to do to get one of these fine chests of Silver is to Send in to us Only Ten New Yearly Subscriptions to Farm and Dairy.

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

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

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

Circulation Department Farm & Dairy Peterboro, Ont.



Arbor Day in the Schools

•• HE who plants a Tree, Plants Hope."

Arbor Day was designed to Arbor Day was designed to draw the attention of the people to the great waste of timber in our country, and to propose a remedy, by the replanting of trees. A dignified, serious

recognition of A dignified, serious recognition of this day in our schools would be of great service in reminding both chil-dren and adults of the need of foster-ing our supply of trees. We have been so rich in our forests, we are only beso rich in our forests, we are only be-rinning to awaken to the fact that the timber will not last for ever, unless proper care is taken.

Getting Ready for Arbor Day.

In preparing for an Arbor day cele bration, aim to employ the entire school, or as much of it as possible. Appoint a committee to secure any Give flowers or decorations. Give out topics for compositions and let the best ones be read aloud at the exer-cises. Choose several appropriate recless. Choose several appropriate re-citations and quotations. Select cer-tain boys to take part at the tree planting. Have the supplis usher and welcome the visitors. If at all pos-sible, have music; secure to cornet for the out door exercises. Make it in fact a gala day for the pupils. a feati-val of spring pervaded by the love of Nature Matura

Selecting a Site.

A committee of older ones could take charge of the selection of a site. The school grounds, unshaded roads, church yards and public squares are all excellent fields for Arbor Day plantings. Let the programme be short and snappy, but have a definite place for the planting. The idea of naming or dedicating has been car-ried out in many communities. Trees have been planted in memory of some of our dear boys who have fallen in this great fight.

this great fight. The programme should be arranged so that should the day prove stormy, it can be given indoors. When trees can not be planted, vines may be set out or seeds be started in window hoves

Suggested Programme for Arbor Day. Devotional exercises.

Song by the pupils: "The Land of the Maple."

Reading: Reasons for Establishing Reading. Arbor Day. Cong: "Spring is Here.

Address: Subject, "How to Beau-tify our School grounds and nomes." Short Essays by Pupils: "My Favarite Tree.

orite Tree." Organization of a Planting Associa-tion for the purpose of seeing that the trees are watered and cared for. Closing song: "The Maple Leaf." Pupils now march to the tree.

Planting the tree. Let as many as practicable throw a spadeful of earth

around the tree, Song to be sung after the tree is planted, to the tune of "God Save Our King"

"How softly breezes blow;

Gone now the ice and snow, Spring time has come; Swallows fly here and there, Bird music fills the air. And round the flowers fair Gay insects hum.

"O, in this wakening time

O, in this wakening time Earth, free from snow and rime, Has its new birth; And hear the trees all say: Dear friends, plant us, we pray, Plant us on Arbor Day, In this brown earth."

Naming the Tree.

This exercise may be used when he name of some great man is the name of some great man is chosen. Suppose the name of Tenny-son be chosen, if time permits extend -----

the exercise into a study of his life and works. Teacher: "For what famous En-

Teacher: "For what famous his" lish poet shall we name our tree?" Pupil: "Alfred Tennyson." Teacher: "Teil me in a few words

Tackier: "Tell me in a few words about his life" Popli: "Alfred Teanyson was born in Lincolashire, England, August 61, 1800. He won a prize at Cambridge for his poem, "Timbuctoo". For nise years after that he wrote very little, but studied. His long poems, Th Memoriam' and The Idyls of the Kinz, made him famoas. He was one of the most beloved of our poet laure ates. In 1892 Teanyson died, Urre ates. In 1892 Tennyson died, three years after he wrote the prophetic poem, 'Crossing the Bar.'" Teacher: 'How did Tennyson write of his longing for spring?"

Punil

"Dip down upon the northern shore, O sweet new-year, delaying long; Thou does expectant nature wrong; Delaying long, delay no more.

"What stays thee from the clouded noons

Thy sweetness from its proper

place, Can trouble live with April days Or sadness in the summer moon

(Note .- There are several other verses in "In Memoriam" which fol-low. These and other quotations may ho added)

be added.) Teacher: "We dedicate this tree to Tennyson today, and hope it will fourish like his works." After the tree is planted sing the verses given in the first programme.

Housecleaning Suggestions Requested

H OUSECLEANING time is almost of work is always connected with this annual "clean-up," but if we have been able to work out Jome system, which has in some way reduced the amount of labor and helped to eliminate confusion, we have gone a long way toward simplifying house-

eaning problems. Many of our readers, no doubt, have ideas of their own regarding practical methods to follow when houseclean-Perhaps you have worked out ing some scheme whereby the routine work goes along fairly regularly and the family is not greatly inconvenienced and you are not worn out with the hard work. Perhaps you have discovered some method of cleaning the walls, carpets, curtains, windows, etc., which you consider worthy of passing on. Perhaps also you follow good method of storing winter clothing, blankets, etc., so that you know exactly where to locate them next fall and also know what additions have to be made to the fall and winter wardrobe. Will you not pass your ideas along to other farm women who, are open for suggestions. We will be pleased indeed to receive con-tributions from any of Our Women Folk who have helpful suggestions to offer

MR. W. J. BLACK, Commissioner of Agricultural of Agricultural Instruction, points out that boys and girls can help to increase the production of food in Canada this year. He says: "Every farm boy and girl should be encouraged to rear a pig, a calf, a batch of chickens, or to grow a plot of potatoes, beans, corn or vegetables Seventy-one thousand boys and girls of school age last year increased that of school age last year increased L³ agricultural output of Ontario to the value of \$125,000. Other provinces did equally well. From this it will be seen the boys' and girls' clubs and competitions, the principal channel through which this work is carried as, made in 1917 an addition to our food resources that was not to be despised."

Anell 25

Dairy I W HILE most many of us of this pro study of mi the point, h

the case n annual conv the provinc Washburn, nesota, gave formation w well to stud Prof. Washl

Mont and foods of me diamon an hho and highly d the older gr as the recon adults. Mes similar in similar in each being a digested, eac containing 1 stimulating. milk to grow Milk is a tains ash fo

continue motio the same work greater degree and one-quarter as sugar. Thu serve as a sole for several ve milk contains good growth w tical exception Milk is hand

appreciation by 1. Being a 1 sidered merely fact, it contain times as much weight as most and,

2. By being which are mor as those of its meat. One qua pounds; and

3. In being st teria as well spofts quickly, ore intelligent ed by most oth quity, however, and is now been appreciated as into the needs o and the sources sufred.



Dairy Products in the Home W HILE milk is one of the foods in the farm home which is

W in the farm home which is most easily available, how many of us really appreciate the values of this product as a food? A close study of milk as a food is always to the point, but more aspecially is this the case now during these days of necessary conservation. At the recent annual convention of the dairymen of annual convention of the dairymen of the province of Alberta, Prof. R. M. Washburg, of the University of Min-nesota, gave an address on "Dairy Products in the Home," containing in-formation which all of us would do well to study. Herewith we give some of the facts as presented by Prof Washburg. Prof. Washburn:

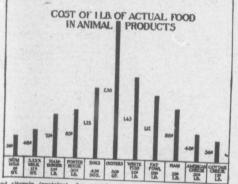
Mest and milk stand out among the toose a more autique, milk as the in-toose and the set of the very young and hubby denies of the very young and hubby denies of the very young so the older growing control and mest as the recognized strategies and souths. Meat and milk arg given for souths and the south and an and the south of the south and the south containing leas. Each likewise is containing leas. Meat and milk stand out among the containing lean. Each likewise is stimulating, meat to muscle activity.

simulating, meat to muscle activity, milk to growth. Milk is a complete food. It con-tains ash for bone building, casein

FARM AND DAIRY

Is milk a cheap food? Water is not food, neither is bone nor shell. Only the digestible substance counts. The cost of one pound of vetual nutriment varies in all of our common foods very much according to the amount of waste they carry. For example, meats as purchased are from one means as purchased are from one-tenth to one-fourth bone and the mean itself is from one-half to two-thirds water. Even so solid a mean as ham water, hven so solid a meat as ham is about one-seventh bone and the meat portion one-half water. Milk has no bone but is 87% per cent. water, and 12% per cent. solid, or one-eighth pound of solid food matone-sight pound of solid food mat-ter per pound, but one quart weighs two pounds and therefore contains one-fourth pound actual food sub-stance. So if it costs 12 cts, per American quart, the food solids cost at the rate of 48 cts, per pound. In when with other stars per pound. In skim milk at six cents per quart, the food solids cost about 36 cts. per pound

The diagram which appears here-with gives a more vivid picturing of with gives a more vivid picturing of the comparative cost of our common food stuffs. This table is drawn to scale and from it may be seen that milk produced at or standardized to three and one-quarter per cent, fat and sold at 12c per quart, though cost-ing at the rate of 48c per pound actual food, is yet less expensive than



and albumin (proteins) for muscle construction, sugar for heat to warm the body and energy to allow it to continue motion and fat which does continue motion and fat which does the same work as augar, except to a greater degree. Fat furnishes two and one-quariter times as much heat as augar. Thus, as should be expect-ed of a food designed by nature to serre as a sole food for growing young for several very important months, milk contains eventual needed for good growth with the possible theore-tical exception of iron.

Milk is handlcapped in its general

1. Being a liquid. Thus it is con-sidered merely a drink, whereas in fact, it contains from two to four times as much actual solid food per weight as most garden vegetables; and.

2. By being sold in units (quarts) which are more than twice as great as those of its natural competitor, meat. One quart of milk weighs 2.12 pounds: and

3. In being so good a food for bac-teria as well as for people that it spolls quickly, therefore requiring more intelligent care than is demanded by most other foods. Since anti-quity, however, milk has been used and is now becoming more and more appreciated as we study more clearly into the needs of the human machine and the sources of the materials remitrad.

the other comparable food substances

Growing the Boston Fern Successfully

O NE of the prettiest ferns for the home is the Boston fern, al-though some people find it rather difficult to grow successfully. Here are a few pointers which may be of value to some housewife who is hav-

ing trouble with her ferns: The best time to repot ferns is in early spring, March or April, before early spring, March or April, before the plant starts to make new growth. When repotting, it is usually advis-able to use a pot one or two sizes larger. If there are a great many roots, one may be tempted to divide the fern, but this is rather risky and it is better to take off any small plants. this are usually found rowing around that are usually found growing around the old plant and pot them into small pots

Piant food is good for Boston ferns, but it is not necessary to give plant food if proper soil is used when re-potting. The ideal soil is one part sand, one part leaf soil (black soil from the bush), four or five parts of loamy soil and one part of dry pui-verized cow or sheep manure or bone meal. Ful nearly an inchi in depth of broken flower pot, coal chaders, coarse gravel or lump charcead in the bot fom the spot for drainage. Ferns like good drainage, most atmosphere and shade f sa the hot sun. Plant food is good for Boston ferns,



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Sundelius, Zenatello, Ciccolini, Middleton, Chalmers and other great artists.

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It has been the ambition of the Edison organization to incorporate their ideals of surpassing design, material and execution into every product that goes forth from the Edison laboratories. In the official laboratory model shown above, the spirit of Edison dominance is revealed in every line.

May we send you the brochure "Music's Re-Creation" and the booklet, "What the Critics Say."

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THOS. A. EDISON, Inc., ORANGE, N. J.



The Heart of the Desert (Continued from page 18.) RENNIES in the moonlight. Kut-le was clothed

again! He wore the khaki suit, the high-laced riding boots of the ranch days: and he wore them with the grace, the debonair ease that had se grace, the debonair ease that had so charmed Rhoda in young Cartwell. That little sense of his difference that his Indian nakedness had kept Rhoda's subconsciousness disap ared. She stared at his broad in neared graceful shoulders, at the fine out line of his bead which still was bare and she knew that her decision was going to be indescribably difficult to keep. Kut-le watched the wistful gray eyes tenderly, as if he realized the depth of anguish behind their the depth of arguish behind their wistfulness; yet he watched none the less resolutely, as if he had no quaims over the outcome of his plans. And Rhoda, returning his gaze, caught the depth and splendor of his syss. And that wordless joy of life whose thrill had touched her the first time that she had met young Cartwell rushed through her veins once more. He was the youth, the splendor, the vivid wholesomeness of the desert! He was the heart itself. of the dever

Kutle laid his hand on hers, "Rhoda," softly, "do you remem-ber the moment before Porter interrupted us? Ah, dear one, you will have to prove much to erase the truth of that moment from our hearts! How much longer must I wait for you. Rhoda?"

Rhoda did not speak, but as she returned the young man's gaze there came her rare slow smile of unspeakable beauty and tenderness. Knt.le trembled; but before he could speak Rhoda seemed to see between his face and hers, DeWitt, haggard and ex-hausted, expending the last remnant of his strength in his fight for her. put her hands before her face She with a little sob

Kut-le watched her in silence for moment, then he said in his low rich voice:

"Neither DeWitt nor I want you to "Neither Dewitt nor 1 want you to suffer over your decision. And De-Witt doesn't want just the shell of you. I have the real you! O Rhoda, the real you will belong to me if you are seven times DeWitt's wife! Can't you realize that forever and ever you are mine, no matter how you fight or what you do?"

But Rhoda scarcely heard him, She was with DeWitt, struggling across the parching sands

"O Kut-le! Kut-le! What shall I ! What shall I do!" Kut-le started changed his mind. to answer, then

changed his mind. "You poor, tired little girl," he said. "You have had a fierce time there in the desert. You look ex-hausted. What did you make out crossing to the mean? By your trail you went miles out of your way." Rhoda struggled for calm

said "But we did very well after we reached the mesa."

Kut-le smiled to himself. hard even for him to realize that this plucky girl who passed so simply over such an ordeal as he knew she must have endured could be the Rhoda of the ranch. But he said only:

'We'll make for the timber line and let you rest for a while.

At mid-morning they left the desert At mid-morning they left the desert and began to climba a rough monatism slope. At the pinon line, Kutle call-ed a hait. Never before had shade seemed so good to Rhoda as it did now. She lay on the pine-needles looking up into the soft green. It was unapeakably grateful to her eyes which had been so long lortured by the desert gine. She lay thus for a long time, her mental pain for a while bast as the access of physical comin the access of physical com-Shortly Molly, who had been king rapidly, brought her a fort working rapidly,

steaming bowl of stew. Rhoda ate this, then with her head pillowed on a her arm she fell asleep.

her arm she fell aaleep. She was wake aed by Molly's touch on her arm. is was late afternoon. Rhoda looked up into the squaw's face and rew a quick hard breath as realisation came to her. "Molly! Molly!" ahe cried. "I'm in terrible, terrible trouble, Molly!"

in terrible, terrible trouble, Molly!" The squaw looked worried. "You no go away! Kut-le heap sorry while you gone!" But Rhoda scarcely heeded the wo-

man's voice. She rolled over with her hot face in the fragrant needles and groaned

"O Molly! Molly! I'm in terrible trouble What trouble? You tell old

Molly Rhoda sat up and stared into the

deep brown eyes. Just as Kut-le had become to her the splendor of the desert, so had Molly become the

become to had Molly become its descri, so had Molly become its descri, so had molly become its adden inspiration she grasped its in "Laten, Molly" Before I knew Kulse, I was going to marry the white man, DeWitt. And after he shole me I hated Kutse and I hated the desert. And now, O Molly. I love both Kutse and the desert, and I nust marry the white man!" "Why? You tell Molly why?" "Because he is white, Molly, like me. Because he loves me so and has

Because he loves me so and has done so much for me! But most of all because he is white!"

Molly scowled. "Because Kut-le is injun, you no marry him?"

marry him?" Rhoda hodded miserably. "Huh! And you think you so big, Kut-le so big that Great Spirit care if you marry white, marry Injun. All Great Spirit care is for every squaw Great Spirit care is for every squaw to have papoose. Squaw, she big fool to listen to her head. Squaw, she must always listen to her heart, that is Great Spirit talking. Your beart, say marry Kut-le!"

Molly paused and looked at the girl, who sat with stormy eyes on the sink-ing sun. And she forgot her hard-earned wisdom and was just a heart-

earaed wisdom hungry woman. hungry with Kut-le and tay! Stay with Kut-le and "You stay! Stay with Kut-le and old Molly! You so sweet! You like hitte childs! You lie in old Molly's heart like little gir! papose that never came to Molly. You stay! Al-ways, always, Molly will take care of you!

Rhoda was deeply touched. This was the cry of the famished mother This hood of a dying race. She put her soft cheek on Molly's shoulder and she could no longer see the sun, for her eyes were tear-blinded. Kut-le. standing on the other side of the looked at the picture with deep aning eyes: then he crossed and put

"Dear one," he said, "you must cat your supper, then we must take the trail."

Rhoda looked up into the young man's face. She was exquisite in the failing light. For a moment it seemed as if Kut-le must fold her in his arms; but something in her troubled gaze withheld him and he only smiled

gaze withheit and a body and a start of the said, "come "Before you eat," he said, "come to the edge of the camp and look through the glasses." Rhoda hurried after him, and stared

out over the desert. A short distance out, vivid in the afterglow, moved two figures. She distinguished the e of Porter, the gaunt figure of DeWitt, walking with deter-, 1 strides. Waiting till she could command her voice, Rhoda turned io

Kut-le. He was watching her keenly.

Kutle. He was watching her keenly. "Will they pick up out trail? Are the poor things badly lest?" "Billy Porter lost! I guess not! And I gave him enough hints so that he ought to join Newman in another twenty-four hours." Rhoda smiled wanly.

(Continued next week.)

The Results of

Anril

HERE the I of four weeks, as no examin term for second new

given for ; monufactor and bottlin prizes for factory cla There w en by the

The regi follows: Fa 21 wrote (Cream and The pro Clase ds (n 996; 2, St 996; 2, St 946; 4, Sm Sinchair, 8 Armatros 10, Coombs Lown, 784; 745: 15, GH 17, Quirrie, Coon, 629;

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The profi 184; 2, A. Gihson, 178 5, E. G. Ke I C. Barris dock, 156; Gray, 14 Collier, and 14, A. E. G 143; 16, L. Peel and I 19, R. Davis 21, G. G. H. 126: 23. J. Slacer, 122; J. H. Marsh

The follo ners: Judgi Armstrong, Keralake, H son, Belton Scott, Wiar Mimico, Or Guelph. 0 Browne, Mi Auburn, Ou ware, Ont. Lown, Por Coombs, Sh Making Che Ont.; 2, M. Armstrong; Milk-1. W Milk-1, W Ont.; 2, W. 3. I. F. Stot ficlency-1, thers; 3, T. Ont

*Will be re teriology.

Examinatio

I norder to qualify for fully ma cheese facto lowing, stud tain a minim ject with a whole. Tho over 60% an nd Class gr 75% and ove

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21% % Fat and 9% Fibre Order a quantity of each feed from your feed-

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Business is Brisk

We are rushed with orders of all sizes, for stock and poultry feeds and especially Hog

THE **RENNI**

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right away.

Study

Your

Catalogue

War Time Production

THE farmer will be well advised who makes

We have secured a supply of good seed potatoes absolutely free from, disease; but the supply is

limited and we advise you to send your order

Seed Potatoes

Earliest Six Weeks—The Ohlo type: very similar to point now grown in the Northwest. Very prolific, and a first-class mainter sort. Bus, 83-49 is an (90 line), propuld 54-39. Improved Early Ohlo—The earliest heavy yielding points in the market today. It is the standard early points. Bus, 83-49 lang (90 line).

prepara, 8-39. Friah Cobbler-Chunky, white-netied early points of splendid quality. Ripms one west later than Innever the first splendid quality. Ripms one west later than Innever the first splendid state. Sector Early Eurelka-A. A estra, arily variety producing fine large laters, of a abortenet oblong form, thick through and with few year. The fields in a do good favor. Base, 8-34 (Be 100 Hz), preparad \$43.8.

Bush is firm and of good navor. Bus, sta-54; bag (or 0.6.), prepaise, §4.56. Green MouriRain-Lie cropping qualities are phenomenal, and we have it to be one of the basedent yielding pointees grown. Its productive-ensus is insupply attributable to be uniform size of the pointees. But its errowing merit is its superb cooking quality. Bus, §3.36; bag (90 Ba), prepaid, §4.50.

Gold Coin-The eves are small and there is but little waste in paring. The fiesh is fine-grained, and cooks to a dry, floury whiteness. Bus., 3.39; bag (80 Ha.), prepaid, 84.58.

When buying from dealers insist on Rennie's Seeds.

Our 1918 catalogue contains infor-mation that no farmer should be without. Watch especially the par-agraphs enclosed in the star borders containing special values that can-not be beaten.

certain of a good crop of potatoes. In select-ing your seed potatoes, get Rennie's-the best.

Seeds

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Little wonder our capacity is taxed to the limit. We are going to fill our orders promptly, however, and help you produce. Our Molasses Hog Feed has the following analysis: Protein 11%, Fat 3%, Fibre Dry Hog Feed, which contains 10% tankage, is 19% Protein.

do!

tter and Cheese Makers are in-to send contributions to this trment, to ask questions on are relating to cheese making, to suggest subjects for discus-

Results of Examinations at O.A.C. THERE were two new features in the Dairy School work for 1918-

A the Dairy School work for 1918-the Farm Dairy Course was one of four weeks, as formerly, and there were no examinations at the close of the term for Farm Dairy Students; the second new feature was that of prizes given for judging dairy catte, for the manufacture of butter and cheese, and bottNing milk for city trade; and prizes for proficiency standing in the factory close.

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factory class. There was no course this year for Dairy Instructors, its place being tak-en by the Dairy Conference. The registration by courses was as follows: Factory Course, 24, of whom 21 wrote on the final examinations; Farm Dairy, 3; Cow Testing, 26; 166 Crass and Soft Cheves, 5, Total, 61. The normalic Cheves, 5, Total, 61.

Cream and Soft Cheeses, 3. Totai, 61. The proficiency list for Factory Class 6s (maximum, 1,200): 1, Muma, 996: 2, Stothers, 988; 3, Hitharda, 996: 4, Smith, 935; 5, Korsakake, 885; 6, Sinchir, 876; 7, Fairweather, 875; 8, Armstrong, 856; 9, Kaufmann, 843; 10, Coombe, 506; 11, Helmuth, 787; 12; Lown, 784; 13, Stott, 759; 14, Rolt, 745; 15, Gibbord, 599; 16, Bearson, 654; 17, Quirrie, 641; 18, Brown, 635; 13, Coens, 652; 20, Mott, 501; 23, Hickmall, 590+

Cooh, e25; 20, mott, 927; 24, mitChann, 259° The proficiency Hist for Cow Testing is (maximu, 250); 1, G. E. Raithy, 134; 2, A. B. Browne, 181; 3, M. G. Gihaon, 178; 4, T. C. Richards, 187; 5, E. G. Karslake, S. A. Stawart, and J. C. Bartigar, each 185; 8, W. Crad-dock, 186; 9, W. Mathlows, 153; 10, A. Gray, 145; 11, H. G. Jones, S. G. Collier, and L. Holidday, each 147; 14, A. E. Gihbert, 145; 15, J. Finegan, 143; 16, L. Hemingway, 142; 17, R. Peel and H. W. Lennox, each 141; 19, G. Davis, 134; 20, W. Penny, 131; 21, G. G. Holmes, 137; 25; C. J. Coon, 186; 23, J. H. Adams, 123; 24, K. Shaor, 122; 26, W. E. Mout, 121; 26; J. H. Marshall, 115. PrizeWinners.

Prize-Winners.

Prize-Winners. The following is list of prize-win-ners: Judging Ayrabire Cattle-1, E. Armstrong, Tavistock, Ont.; 3, E. G. Koralake, Hampton, Ont.; 3, P. Pear-son, Beiton, Ont. Holsteins-1, W. Socht, Winzton, Ont.; 2, T. J. Brown, Mimico, Ont.; 3, W. J. Fairweather, Cathol Ont. Lorenze-1 & B. Minnico, Ont. 2, W. 7, Parl. Movin., Guadph. Ont. Jerseys. Parl. Saitor, Browne, Millon, Ont. 2, E. Raithy, Auburn, Oott. 3, B. Quirrie. Dala-ware, Ont. Making Butter.-1, C. Lown, Port Dover, Ont. 3, W. Scott. Making Cheeses.-1, C. Sinclair, Bright, Ont. 3, W. Muna, innerkip, and E. Armairong; S. P. Pearson. Boitling Milk-1, W. Roth. New Hamburg. Ont. 2, W. Roth. New Hamburg. Ont. 2, T. G. Richards, Glencairn, Ort, 3, T. C. Richards, Glencairn, Ont. Ont

*Will be required to pass supplemental mainetions in Miscellaneous and Bacexamined teriology.

Examination Results at Kingston

Examination Results at Kingston IN order to obtain a pase and thus qualify for a diploma by success-fully managing a creamery or chaese factory for the six months foi-lowing, students are required to ob-tain a minimum of 33% on each sub-ject with a total of 46% on the whole. Those obtaining a total of and case grade, and those obtaining and case grade. The obtained and over 1st Class grade. Ranked in order of merit the suc-cessful aductons are as follows: 1st Class_WC, O. Gardiner, Kompt'Hie; C. Chambers, Hoards; H. Derby, Etty-



(22)

479

The Ford Saves the Hay and Oats the Horses Eat

T HAS been estimated that five acres of land are required to maintain one horse for a year, and that the same five acres would produce nearly enough food for two people. If 50,000 canadian farmers each replaced one horse with a Ford, 250,000 acres would be added to the Nation's source of food supply and enough extra food made available to feed 100,000 people.

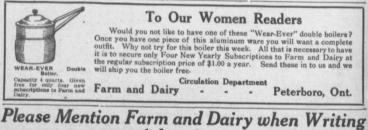
Just think what a great service this means to the country at the present time and the benefit to the farmers from the sale of food produced on this acreage.

A Ford car also saves the farmer a weak or more of valuable time each year, which can be used for further productive work. The Ford travels three times as fast as a horse and rig-costs less to run and keep, and is far easier to take care of. With labor so scare and high priced, time means money, so do not delay in getting your Ford.

Tourind . \$595 Runabout \$575 Coupe \$770 Sedan \$970

One-Ton Truck \$750 F.O.B. Ford Ont.

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(24)

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1918

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Aving to the shortage of all kinds, expect-tions corn, we are too lack to rash your order. All orders received will belied with the utmost care and attention from best selected attock. When buying from us Job Send your order to-day SURE. We pay railway freight to all parts of Ontario and Guebee on orders of 250 or more.

When Writing Mention Farm and Dairy

ville; H. Green, Queensboro; E. Trueax, Bonville; L. A. Lindeay, Os-goode Station, 2nd Class-A. Sauve, St. Raphael West; P. Lesarge, Arn-St. Raphael West; P. Lesarge, Arn-St. Raphael West; F. Lesarge, Ara-prior; D. A. Harris, Russell: L. E. Davis, Bellamys; A. McConnell, Mer-rickville; J. C. Davis, Bellamys; F. Wright, Westport; Thes. M. Johnston, Campbellford; G. D. Dier, Westport, Pass-C. Buro, Mille Roches; F. Urose, Harold; Pred Schinnik, Ban-tore, Harold; Pred Schinnik, Bancroft

A Boomerang

F OLLOWING is a copy of a letter sent to Sir Robert Borden, which will explain itself:

"The Hon. Sir Robt. Borden,

Ottawa. Ont. "Dear Sir: 1 am sending this letter as an open letter to Sir Geo. Fos-ter, Hon. T. A. Crerar, and also to some of our leading agricultural papers.

"We note that the Government is concerned, and rightly so, at the pres-ent time with the trade balance against us in the U.S.A. and the high against us in the U.S.A. and the high rate of exchange. If our daily papers are correct it is proposed to adjust, or at least partially adjust, this trade balance by prohibiting the importation of automobiles, boots and shoes, pat ent medicines, rubber tires, etc Might we suggest that you add to this list oleo. If our town people spent their money in buying real Canadian butter instead of sending across the line for an imitation it would surely help this trade balance. Every pound of oleomargarine bought from our good neighbors to the south of us means that money must be sent there to pay for this. Even if the pound of Oleo is manufactured in Canada money must be sent to the U.S.A. to buy a large portion of the ingredi-ents that go to make up that pound of oleomargarine. If our citizens would buy real Canadian butter the money would be sent out to the rural parts of Canada. This looks like good patriotic business.

"Might I ask permission to publish your reply in the same agricultural papers that this letter is being published in?

"Thanking you for this courtesy. (Signed) Mack Robertson."

Standardize Size of Cheese

HE Cheese Commission has been strongly impressed with the ad

I visability of standardizing the size of cheese made in Canada, par-ticularly in the matter of diameter. The cheese hoops in use in the dif-ferent factories vary in diameter from $14\frac{1}{2}$ to 16 inches. Either 15 inches or $15\frac{1}{2}$ is a suitable size, but there or 15% is a suitable size, but there should be only one size in the coun-try. I would be in favor of legisla-tion prohibiting the use of any hoogs except those of a standard size, giv-ing the users of odd sizes a reason-able time to get new ones. The size of the bandage should also be regu-lated, because a cheese expands to the size of the bandage after it is re-moved from the press. It was found in many cases that the

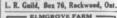
It was found in many cases that the oxes were too large for the cheese boxes were too large for the cheese. This defect was remedied at Mont-real by "chinking" the space between the cheese and the side of the box with pieces of boards, all of which in-This slov volves unnecessary cost. This slov-enly manner of boxing cheese is due largely to lack of foresight and at-tention to detail in ordering boxes, but it will be increasingly difficult to but it will be increasingly difficult to secure boxes to fit the cheese prop-erly as they are supplied more and more from central distributing points. A standard sized cheese, permitting the manufacture of a standard with dustred, monthematical and the dustred, monthematical and the dustred completence. Dairy Commissioner.

Last year's results showed that the Imperial authorities were not prepared to pay a premium for colored cheese. Makers might therefore consider carefully before buying color. Let's keep down expenses.



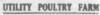
Egg Kind

yield by purchasing hatching eggs from our high-record Bred-to-lay Rocks, Wyan-dottes, Leghorns or Reds. 1918 mating list, containing 65 phoins of stock and buildings. Feed and buildings.





- SMITHDALE STOCK FARM -50,000 Hatching Eggs from ch b0,000 Hatching Eggs from Choice bred-to-lay strains in single comb White Legherns, White Wyandottes, Barred and White Plymouth Rocks. Eggs \$1.59 per 15, \$7.00 and \$8.00 per 100. Send for circular. C. E. SMITH, SCOTLAND, ONT.



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

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\$700 Down Secures Farm 6 Cows, and

Fouliry, pag, calves, sleigh, buggy, cart, wagon, plow, harrow, mower, rake, cream apparator, barrowne, and dishes. Eostimated wood and timber to pay for this valley farm of 37 acres. 30 apple, pear and plum trees, 600 sugar maple, silo, poutry house. baan brook and work and generate iderivity, etc. 31,560 takes everything, 1700 Strouts Spring Catalogue of 381 Free.

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per 15. J. H. Parsona, Costicosa, Que FOR SALE, CHEAP-Good fred mill with good water power, good machinery, good trade, stutucid near railroad Ad-dress Art. Leduc, Manaenville, Que ROR, BALE-2. Unit Sharpies Machanip pears. In good repair. Terms reason-ble. Do not need it, as J have soid my farms Disses or write. BUTTENMAKERS' WARAPPERS -Name and address printed-best parch-ment, 500 Mests angumers in Ontario, parmers' Printery, Basverion, Ontario.

April 25, 191



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April 25, 1918.

FARM AND DAIRY

(25)



New Car Lot Policy

Conditions Under Which the Live Stock Branch Pays Breeders Travelling Expenses

HE following, revised statement of the Car Lot Policy will be-come effective May 1st, 1918, and

(26)

will replace all statements with re-gard to same previously issued. Under this Polfey the Dominion Live Stock Branch will pay reason-able travelling expenses of a farmer living in Canada, or authorized agent of farmers residing in Canada, who purchases one or more car loads of breeding stock under conditions as hereinafter set forth: (1) Assistance under the Policy

will be confined to purchase of female breeding stock (cattle, sheep or hogs) made at the Union Stock Yards, To-ronto; Point St. Charles Stock Yards, Montreal; or the East End Stock Yards, Montreal.

(2) No assistance under this Policy will be allowed when the stock is purchased for speculative purposes.

(3) A car lot shipment must include not less than twenty head of cattle, forty sheep or forty hogs. In a mixed shipment, two sheep or two hogs will be accepted as equivalent to one head of cattle in fixing the minimum for one car.

(4) Any person desiring to take advantage of the Policy must make for-mal application to the Representative of the Branch at his nearest Stock Yards, and, before commencing to purchase, must receive from him a certificate authorizing assistance un-der the Policy. This certificate will indicate the Stock Yards at which the purchase must be made if the benefit of the Policy is allowed. In all cases the certificate will direct the pur-chaser to his nearest Stock Yarda, unless, in the judgment of the Repre-sentative of the Branch, the condition of the market at the time war-rants an exception being allowed.

(5) Expenses will be allowed, cover-ing railroad transportation from the home of the purchaser to the Stock Yard at which the purchase is made, also hotel expenses for a reasonable

time required to make the purchase. (6) The purchaser should secure a receipt for his hotel expenses and should attach this receipt to his ac count. The account should be for-warded in triplicate on forms which will be supplied for the purpose. (7) The purchaser is further re

(7) The purchaser is further required when forwarding his account to include on forms supplied by the Branch a statement regarding the purchase. The certificate secured from the Representative of the Branch previous to purchasing should also be attached to the account.

(8) Parties purchasing fema breeding stock under the terms female the Car Lot Policy, and who comply with the terms of the Free Freight Policy of the Branch, will be entitled to the benefit of both policies on one shipment

(9) If desired by the purchaser, the services of the Representative of the Branch at the market will be available in an advisory capacity. The actual purchasing must be done, how ever, by the buyer himself or by his authorized agent. Under no circum-stances will any responsibility in this connection be assumed by any officer



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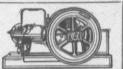
Even the locks are full gauge. The finest quality wire is used-extra strong, very rigid, tight-locked and evenly spaced. For a life-time security against fence troubles, "get Page

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

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THE BEST WORKMAN YOU CAN GET

THE BEST WORKMAN YOU CAN GET is the one that never uses. The sturdy ittle Page is always on the based of the series of the series of the max and it cosin about series in much to max and it cosin about series much to max and it cosin about series much to about the per hour for rule, more, the the churn ruth the cosin separ-sion, the mechanical miker, and pume water for the stock, and an pume water for the stock, and an pume water for the stock, and stock and the us. There are two byped of Name em-ther Knowne (or Gasolino), and 5 stock, ranging from 15 H. P. to 7 1. P. price list on resust.

WINNIPEG.

Price list on request

April 25, 1918.

of the Branch.

The Markets Representatives of the Branch at the different Stock Yards in Eastern Canada are as follows: W Toronto, H. Irvine, 1127 Keele St., Toronto, Ontario; S. H. Chipman, Live Stock Exchange, Bridge St., Montreal, Quebec.

A Plea for Barley

A. L. Watson, Ontario Co., Ont. O^N looking over the official re-turns giving acreages devoted to various crops in Ontario, it is astounding to me that the acreage devoted to barley is so small, compara-tively speaking. There are two obtively speaking. There are two ob-jects in growing grain: first, the grain crop itself, and secondly, as a nurse crop for clover and grass. In fulfil-ing both of these functions, barley ex-

In the many years that we have grown both barley and oats, there has hardly been a year when we have not had more dollars' worth of value per acre from our barley than from our oats. As a feed for dairy cows, along with other concentrates, it is a standwith other concentrates, it is a stand-ard. It is valued highly in all coun-tries of the world, both for feeding and finishing hogs, and it belances skim milk better than any of the crops commonly grows in Ganada. I have seen the statement that an arcs of barley will grow as much pork as an arcs of husking corn. The barley, I should say, can be produced for hair the expense necessary to grow the corn. corn

When we come to consider barley as a nurse crop, it is almost in a class as a nurse crop, it is almost in a class by itself. It is harvested earlier, grows more erect and stools less, all of which characteristics are favorable to the securing of a good stand of the

Clovers or grasses. Last year all the farmers in this section, and I suppose everywhere over Ontarlo, were waiting for Ameri-case corn on which to finish their hogs. Barley will take the place very nicely of this impacted one and for the section. baries will take the place very nicely of this imported corn and for less cost in an average year. I believe there should be 10 to 12 acres of bar-ley at least on every 100 acre farm.

Don't Economize on Lubricating Oil

I F there is one place where penny-pinching is not a virtue it is in buying lubricating oil for expen-sive farm machinery. It is a general failing of those not thoroughly accus-tomed to the use of machinery that they do not take proper care of the costly implements they purchase, and this faffing is often illustrated in the buying of lubricating oil. If the same wagon, motor car, trac-

tor or farm implement can be made to give service for six years instead of give service for six years instead of three, it can be figured its original cost has been cut in half. The one detail of proper oiling, more than any other, spells the difference be-tween three and sixyear service. There are a number of high-grade lubricating oils on the market. They

more than ordinary oils, but their freedom from residues that cause friction and wear makes them worth much more than the difference in cost. Some think that "oil is oil," and that is all there is to it. But there is the same difference between two oils that there is between creek But

water and spring water. The value of an oil for lubricating The value of an oil for inormaning motors was well demonstrated in the experience of one man who, while he used cheap oil, had to have the carbon burned out of the motor about four times each year at a cost of about \$12 annually. The first year after he decided to try a good oil his car was not in the garage for lubrica-tion or carbon troubles a single time. His saving here is pot to be measured His saying here is got to be measured by the \$12 awed in repair bills. Car-bon formed in a cylinder causes a wear and tear which permanently in-jures the motor, detracts from its mechanical perfection, and depletes its horse-power

April 25, 1918.

Sweet Clov

"S mon in Canada," of Varne versation at the Fair. "Many ch ing lots of money o from sweet clover price per bushel he as high as \$12 has a carload. I belle our crops will aver our crops will aver of seed to the acre "And what do sweet clover stray guired.

Cut it up and n silage principally," ter. "When cut it i An advantag should be mentione clover sod is as eas wheat. This is m say for alfalfa."

Checking or I

E EW subjects thoroughly dis a past two years merits of checking for ensilage. The tor ensurage. The up for discussion at ter Fair. "We alwa in hills with the h and for anything w as much corn per a neighbors," stated H Ontario county. " Ontario county. can plant four acres marking with a 12-but little time."

We check-row of marked Mr. Bags With check rows w hee at all, except ase at all, except casional thistles. W ways, and we, too, good crops as our if we didn't, however fer to take in an ex the crops clean with

Reliable N a herd of fourtee

an average yield lbs. milk and 260 cow was a five-year was 11 years old, an only a three-year-old 7,364 lbs, milk and \$ two poorest were ag So it is not alway

mines production; i feed, for these 14 co alike; but it does li some at present un which enables one c ter use of the same tity of feed and ou two thousand pound than her stable mate With such remark

individual milk recor owner is in no doubt the best cows to kee stock. But without there is no reliable go The best of it is the

need go to the troubl able sheets of paper ruling them to suit his cation to the Dairy he can obtain, free of ever, convenient rule milk record forms for either daily or on t month, together with forms and a herd reco complete year's figure it will pay to use the Hable guides.--C. F. V

Tony, the office ja working faithfully at eral years, when he su

"We can't get along out you," said the bo heed a vacation. You

Sweet Clover in Grey

Sweet clover in they com-ting weet clover in they com-ting the second second second second Canada, "comarked W. 11. Hunter, of Varney, during a con-versation at the Gueiph Winter Pair. "Many claim to be mak-ing lobs of money out of it, principally from sweet clover seed. The average price per bushel has been offered for a carload. I believe that this year our crops will average over 10 bushels of seed to the acre."

of seed to the acre." "And what do you do with the gweet clover straw?" a listener enquired

quired. "Cut it up and mix it with the en-slase principally," replied Mr. Hun-ter. "When cut it is good for bedding uso. An advantage of the crop that should be mentioned is that the cweet clover soi is as easy to plow as buckwheat. This is more than one can say for alfalfa."

Checking or Drilling Corn

EW subjects have been FEW subjects have been anore thoroughly discussed during the past two years than the relative merits of checking vs. Atilling corn for ceslinge. The old subject came up for discussion at the Guelph Win-ter Fair. "We always plant our corn is hills with the band corn planter, in hills with the band corn planter, as much corn per acre as any of our neichbors" istated H.C. Hamill, freem nore neighbors," stated H. C. Hamill, from Ontario county. "A couple of boys can plant four acres in a day, and the marking with a 12-foot marker takes but little time."

but little time." "We checkrow our corn also," re-marked Mr. Baggs, from Edgeley, "With check rows we do not have to hee at all, except to knock out oc-cessional thistles. We souffice both ways, and we, loo, seem to get as god crops as our neighbors. Even if we didn't, however, we would pre-tise cross flean without the hee"." the crops clean without the hoe.

Reliable Guides

N a herd of fourteen cows that gave an average yield last year of 6,088 I lbs. milk and 260 lbs. fat, the best cow was a five-year-old, the second was 11 years old, and the third was only a three-year-old with a yield of 7,364 lbs, milk and 305 Mbs. fat. The

two porcest were aged six and 14. So it is not always age that deter-mines production; it is not always feed, for these 14 cows were all fed alke; but it does largely rest upon some at present unknown principle which enables one cow to make better use of the same quality and quantity of feed and out of it produce two thousand pounds of milk more than her stable mate.

With such remarkable differences in plain sight in every herd where individual milk records are kept, the owner is in no doubt as to which are the best cows to keep as foundation stock. But without such records there is no reliable guide in selection. The best of it is that no dairyman

need go to the trouble of finding suit-able sheets of paper and laboriously ruling them to suit him. For on application to the Dairy Branch, Ottawa, he can obtain, free of any cost what ever, convenient ruled and printed ever, convenient ruled and printed mulk record forms for taking weights wither daily or on three days per menth, together with feed record forms and a herd record book for the complete year's figures. Write today, if will pay to use them; they are rei Hable guides.--C. F. W.

Tony, the office janitor, had been working faithfully at his job for sev-eral years, when he surprised his em-ployer by asking for a vacation. "We can't get along very well with-eut you, "said the boss. "You don't beed a vacation. You'll only blow in



An Aid to Successful Farming

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17

ANT THE FARMER

CONCRET

THE successful farmer of to-day is the one who builds permanent improvements. The time for makeshifts is past. The farmer recognizes that he is under a great handicap in his efforts to make money, if he has continually to sink profits in temporary repairs.

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is an aid to successful farming. Over 100,000 farmers have realized this. Many thousands of these have completely made over their farms, while others have acted on some of its valuable suggestions. Only with concrete for his building material can the farmer have his farm buildings weatherproof, water-tight, vermin-proof, permanent and sanitary.

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CANADA CEMENT COMPANY LIMITED 210 HERALD BUILDING MONTREAL 22

AYRSHIRE NOTES

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ditions and with built twice a day milk-mean second seco

RIVERSIDE NOTES. WHILE spaking recently with Mr. The generation of Caldonia, hat generations of Caldonia, hat generations of Caldonia, hat generations of Caldonia, his present herd sire, King Johanna Fontias Korndyks, is giving excellent routbes The R. of M. daughters nors about 4 per cent. Mr. Richardson has been making some being a som of the 23-b, cow, "Toillin of liverids, bir R. of the 20-b, cow, "Toillin of liverids, ben R. P. Champion of Can-tian benefit of both parties of the deal.

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If you want Ayrshires of first class quality watch this space in future issu NORWICH, ONTARIO

A \$500 BULL AT A BARGAIN

A rare opportunity has come to Farm and Dairy to offer one of the mean righty brief Holdsein builts in Chanda to the first farmer of Farmer's While we state in the heims that the scaling works (44), actually is worth \$500 to \$1,000, just according to the herd he goes into. Judge has value for yourseld.

THE BULL AND HIS BREEDING

INE DULL AND IID DIRLEDING The is is monthe old and well grown, in the pink of condition, and ready for heavy service. He is aven-eightha while and of show type-lis size a Brotiza Kormdyke Het Lee 7730; that noted size who he size of the Brotiza Kormdyke Het Lee 7430; that noted size who he size of the Brotiza Kormdyke Gusen, a 74.8 b. cow with a 24.1 b. He dam is Pietje Kordyke Gusen, a 74.8 b. cow with a 24.1 b. He dam is Pietje Kordyke Gusen, a 74.8 b. cow with a 24.1 b. He dam is a 14-b. cow. One of her gr. size is Pietje 2nd Wasc-crest Lad, 31 tested daughters, com with 56.0 bs. and one with 50.2 Re, also 31 proven some and the ciber is Bells Korndyke Berji Warn. Re, also 31 proven some and the ciber is Bells Korndyke Berji Warn. top.

sons. His dam and sire's dam, one a 4-year-old, average over 10 hm, an his aix nearest dams, all but one under mature are, average 15.46 h With these facts before you, you will see that we are justified in places the value upon him that we have. The opportunity of securing him with the second second second second second second second the value upon him that we have. The opportunity of securing him second second second second second second second second the value second seco

FARM AND DAIRY'S OFFER

Here is our offer:— We will seed this bull to the first person who sends us at least 75 aubscriptions by Barmers to Parm and Dairy at 81 each, and 250 in the cash amount to be send. For every extra subscription has seen the cash amount to be send for every extra subscription has seen the cash amount to be send for every extra subscription has seen the cash amount to be send for every set and be forwarded. Or we will send the bull free for 255 subscriptions at 24 sech. We show about the press offer we have here made, and why you want threm to mbecribe for Parm and Dairy. Canada's only dairy farm pediarce will be free one either may telegraph for him, and your opportunity will be gone. You may send the money first and the annes later 19 you profer, but we must receive at least 75 subscriptions.

THINK IT OVER

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

H. BRONSON COWAN, MANAGING DIRECTOR.

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



OXY-ACETYLENE WELDING

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There is very 1 marketing of grain ent. The majorit busy with their take grain to m very few who has seed grain at more woring wheat: Manitoho Wheat iam, nominel (im Northern, \$2.3 \$2.019; No. 3 No wheat, \$2.109; erop, No. 2, \$2.23, real. Coarse Coarse There are few of now, and the day failen off kargely. Int on free market prices about one of quoted a week ag dicting a further cu Barley is selling ' to 81.65 a bushed 4 K. D. Allow, bushed 4 K. D. Allow, and having a very rapi of five conts in the having a very rapi of the conts in the nain feature of th ket. This advance creased domained for new food control line:

April 25, 1918.

MAR

ORONTO, Ap market durin tinued very a sep arenas, rec during the

operturneria: Chi Agh as 34.75, y the other hand the week and sole array two works array to be and array two works array to be and array two works array array array array array array to be a feeling an array for a fast a for a feeling an a for a performant a fast array form a fast a fast array of the Food Con a fast array form a fast array form a fast array form a fast array form a fast a fas

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Corn-Mar American American Corra-11.90, nominal. Mar. W., 91% cr: No. 3 C. 1 feed, 87% cr: No. 3 C. 1 ford, 87% cr: No. 3 C. 1 fort. William. C while, 91c to 50c, m 91c Rye-No. 2, 32 new, 81.63 to \$1.64, At Montreal-Que dian Western, No. 3 1 feed, \$1.02; do N. Bran-\$35.40. Short -448 to \$50. Moull No. 2, per ton, carl Mill

MIII Mill feeds are stil Toronto quotes car real freights, bugs ton, \$35.40; shortu quotations: Bran, \$ middlings, \$48 to \$50

Hay an Hay is quoted in ' for No. 1, with m track: straw, car lot real quotes No. 2 h

Potatoes a The potatos market lus through the hes tatoes for seeding pu cobler potatoes are at \$2.25 per bag, by able for seed are a several houses are tarlo potatoes, both sumption purposes

strong han a test of the second secon

Eggs and The eag market is now than it has bee portne. Fairly large ing in and dealers s be able to pack a fe fay were the price i. for men are on the sem, but the lowest



TWO-PIECE STEEL HAMES

484

(28)

RIVERSIDE NOTES.

Keep in touch each week with what your fellow breeders are doing by reading carefully their advertisements in each issue of Farm and Dairy. ,

PALMER BROTHERS

MARKET REVIEW AND FORECAST

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Wheat.

Wheat. There is very little movement in the marketing of grain of any kind at pres-ent. The market and the area of the second second second second base with their second second the term for marketing. These who have about not find it difficult to dispose of it as seed grain at more profitable prices than seed grain at a second second second the term of the second second

Coarse Grains.

Coarse Grains. There are free offerings of oats just free, and the demand seems to have interesting the seems to have interesting and the seems to have interesting and the seems to have been and the seems to have been and the seems to have been and the seems to have any seems to have the seems to be the seems to have the seems to have a seems to have the seems to have the seeds areas in mar-set. This seems to have the seems to have the seeds areas in mar-set. This seems to have the seems to have the seeds areas to be the seems to have the seems to have the seems to be seems to have the seems to be the seems to have the seems to have the seems to be seems to have the seems to have the seems to be seems to have the seems to have the seems to be seems to have the seems to have the seems to be seems to have the seems to have the seems to be seems to have the seems to have the seems to be seems to have the seems to have the seems to seems to be seems to have the seems to have the seems to have the seems to be seems to have the seems to have the seems to have the seems to be seems to have the seems to have the seems to have the seems to be seems to have the seems to

Mill feeds are eill as scarce as ever. Toronto quotes car lots delivered, Montrea Table, bags included, bran per a Table, bags included, bran per a table, bags included, bran do quotations. Hran, 45, 46, 40, 572 to 575. Hay and Straw.

Hay is quoted in Toronto at \$17 to \$18 for No. 1, with mixed, \$14 to \$16 on track: straw, car lots, \$5.50 to \$3; Mont-real quotes No. 2 hay, car lots, \$17. Potatoes and Beans.

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points ao far has been žic. Toront wholesale exp prices are for new laids 20e to 40e; selecten new laids, 40e to fier cartons, 42e to 44e. Receipts of live and resh killed point this season of the way to as a small as this season of the way to as a start the classifications. Toronto is quoting the classifications.

Turkery The Book of the second Dairy Produce.

have finished their estimentions, nothing will be known of prices. Live Stock, Live Stock, Live Stock, Live Stock, Millors and garingers were not very pentical at any time daring the week. The stock of the stock of the stock and common at from about 170 million and common at from about 170 million and common at from about 170 million choice heavy steers and heffers sold at choice heavy steers and heffers sold at choice heavy steers and heffers sold at the form \$12 to \$18, and he men-bethers at from \$12 to \$18, and he distant at from \$10 to \$10.00 per evt. Quotations-Quotations:--

heifers, choice	13.00	to	12.50
do, good	11 60		11.75
do. medium	10.00		10.50
do. common	8.50		9.50
Butchers' cows, choice	10.00	to	11.34
do, good	9.35	to	9.76
do, medium	7.76	to	
do, common	6.50		8.00
	6.00		7.28
Butchers' bulls, choice	10.25	to	6.25
do, good	9.25	to	11.00
do. medium	8.25		10.00
do, common	7:50		9.00
Feeders, best	9.60		8.00
Stockers, best	9.50	to	10.75
Grass cows	7.00		10.00
Milkers and springers,	.0.00	10	7.75
choice	100.00	100	
	65.00		150.00
Calves, choice		to	90.00
do. medium	16.50	60	17.00
do common	14.00	to	14.78
Heavy fat	8.00	to	10.00
Lambs, choice	10.00	to	12.00
Sheep, choice handy	19.50	to	21.75
do. heavy and fat bucks	13.00	to	15.00
Hogs, fed and watered .	11,00	to	12.25
do, off cars	20.00	to	
do fob	20.50	to	20.75
do. f.o.b	19.00	to	19.26
Leas \$1 to \$2 on light	t th t	hin	hogas
less \$3 to \$3.50 on sowar 1	A		100000

less 50c to \$1 on heavies.

ANOTHER FOR CABANA.

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STOP! LOOK! LISTEN! -

What DITCHIAND COLANTIA SH MONA'S DAUGHTERS are denote Lakeven Davids and Aria, 8673 Box milk, 3468 Das. butter, Cana-gato Das butter; nos days milk 03. Lakeview Dutchinal Colambia 1340 Bas butter; nos days milk 03. Lakeview Dutchinal Colambia record for 200 milks 21.71 Bas butter; Canadian Champion and world's methy white, of serviceable are, sired by Sufering Gogasie & Show butter, were lakerange, 7413 Bas milk, 35.40 Bas butter, one day's milk 112 Bas. Mos several point built by ame sire.

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

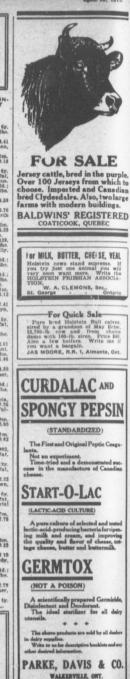


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Ameth 95 1917



BONTREAL, QUE.

April 25, 1

Jan. 4d.; 521.2
Libs. butter. I
4. Lakswiew
4. Lakswiew
5. 4. Lakswiew
J. Jr.
1. Hill-Cress
23d.; 560.2
1bs. fat.; 104.71
2. Pontiac J
11d.; 544.4
bbs. butter.
20-day reconstance
20-day reconstance
20-day reconstance
20-day reconstance

30-day recor fat, 110.86 lbs

Jonado Fector
Jak 110.86 be
Kammore.
Jak Harn
Mark Harn
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17.05 Hos. but: Creek.
3. Pietje Ini 17d.; 500.4 Hos. Hos. butter.
30-day reco. Ibs. fat. 39.34 BrockwiNe.
4. Pontiac.
11m. 20d.; 490
24.81 Hos. butt

24.81 Rbs. butt 30-day recor 1bs. fat, 102.28 5. Princess 10m. 25d.; 537. 23.72 Rbs. butts 6. Maud FF 11m. 9d.; 350. 21.40 Rbs. butt

A grant and a second se



Orono. 15. Helen Mercedes DeKol. 22292, 6y. 0m. 1d.: 481.0 Dbs. mIR. 16.22 Dbs. 6tg. 16.92 Nb. burter. Lincolm Co. Industrial Home. Rt. Catharlere. 19. Princesa Abbelerk: 9418, 109. 7m. 26d.: 385.7 Ds. milk. 14.30 Bbs. 4st. 17.75 Das. butter. J. Alex. Wallace, Binnose.

57. Four Year Class. 1. Alice Tener's Canser, 25785, 47, 8m, 15d. #556 fbs. milk, 24.17 lbs. fat, 35.23 butter. 15d. #1576 memory 2574 Mas. milk, 94 10 76. fbs. fat, 120.13 lbs. butter. A. C. Hardy, Frockville. 2. Anergie M. Posch, 54644, 47, 7m, 45. witter. 50-day record: 2480.9 lbs. milk, 72.79 lbs. fat, 90.99 lbs. butter. J. B. Hanmer, Norwich. 2. Lakeview Mona Ratiler, 26010, 4y.

TYPEWRITTEN PEDIGREES with records up to date. \$1.00 a piece, including 2 extra carbon copies. Ten or more pedigrees in one order for catalogue work, in-cluding one copy only of each. The a piece. a piece. Catalogues \$3.60 per page, complete, including making out of pedigrees. Orders should be sent in early. The Canadian Holstein Sales Co., Simcee Ont. Bell Phone 150.

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avoid nos. Hans, 21:00 108, 104, 25:07
 Butter, Butter, Bos, milk, 23:77
 Bas, Ast, 104:71; Bas, Butter G. A., Bretham,
 Prontae Artis Aageite, 31574 49; 2m.
 11d.; 54:45; Bos, Hills, 21:06; Bas, fat, 25:33
 Bas, butter, K. M. Daigleish, tai, 10:66; 10:64; 10:66;

fat, 110.86 Jbs, butter, K. M. Daigleish, kamore. 4. JB45 Bos. milk, 15.08 Jbs, 47 of 16. Das butter, A. J. Camplin, Unionville 4. Eds Lao, Mary, 23723, 49 Jin, 13.4, 14.4, 15.4

Treek. 3. Pietje Inka Pontiac, 30679, 3y. 10m. 27d.: 500.4 lbs. milk, 19.85 lbs. fat, 24.81

butter. D-day record: 2103.6 lbs. milk, 79.47 fat, 39.34 lbs. butter. A. C. Hardy,

4. Pontiac Lady Waldorf, 30672, 3y, * 11m. 20d.; 490.3 lbs. milk, 19.85 lbs. fat,

B.G.; evo. 3 DS. milk, 12.55 uso. Tat, 20.48 Uso. butter.
 B.G.; butter.
 B.G.; B.G

enville. T. Lyons Hengerveld Mercedes, 35905, Jy, Gm. 7d. 483.8 Da. milk, 16.64 Da. fat, 95.81 Das butter, J. J. Foy, Gueiph. 8. Schudling Canary Mercean, 30180, Sy. 10m. 10d.; 512.5 Nos. milk, 14.94 Das. fat, 90.01 Nos. butter. Charles Hilker, 90.01 Nos. Schulling Canary Mercena, 50130, 3y, 10m. 104; 5125. Hen. milk, 1631 lbs. fat, 50.01 Nen. butter. Charles Hilliker, 30. Nen. Butter. Charles Hilliker, 30. Nen. Schuller, 142, 50. Nen. 1439 Ibs. butter. H. C. Hammer, Jr. Three Vaar Class.
 Het Loo Korndyke Boon, 38469, 3y, 4m. 194; 453.0 lbs. milk, 20.38 Ibs. fat, 11-day record: 553.0 lbs. milk, 20.75 hs. fat, 45,00 Rbs. butter. W. L. Shaw, Narmanikel.

market. Lakeview Canary Artis, 31550, 3y. 5d.; 386.0 lbs. milk, 15.12 lbs. fat, b lbs. butter. Lakeview Farm,

5m.

Bronte.
Elimorese Madekine Schulling 346r,
Elimorese Madekine Schulling 346r,
Bo butter, Eara & Schwaltzer,
Lakeview Mona Rattler, Girl, 3183,
Mancer Mark, 1924 Dan Mill, 143 Das,
Elimorese Lenora DeKol A., 3364, 39,
Itaba, butter, Erra C. Schwaltzer,
Bab, butter, Erra C. Schwaltzer,
Bab, and S. S. Schwaltzer,
Bab, and S. Schwaltzer,
Bab, Elmorest Madeline Schuiling, 33667, Im. 6d.; 360.0 bs. milk, 14.6 bs. fat, bs. butter. Ezra G. Schweitzer,

51, 56.34 ns. butter, Dr. F. A. Healen, Dr. 2, 2010. Control May Pointing, 2017, 2017, 2019. Control May Pointing, 2017, 2017, 2019. Science, 2130. Control, 2017, 2017, 2019. Science, 2130. Control, 2017, 2017, 2019. Science, 2019. Control, 2017, 2017, 2019. Science, 2019, 2017, 2017, 2017, 2019. Science, 2017, 20

and 23 lbs.

FARM AND DATRY

Jm. 24., 353.2 lbs. milk, 11.88 lbs. fat, 14.55 lb-dayr (coord: 70.8, lbs. milk, 21.9 lbs. fat, 35.49 lbs. batter, J. J. Pox, Guleph, J. Pins Sylvia Roend, 433.5, yd. m. 37.4, lbs. Colanth Pieteryle Bankes, 4241.2, yd. lbs. Colanth Pieteryle Bankes, 4241.2, yd. lbs. batter, J. B. Hanmer, batter, J. B. Hanmer, J. W. Wang, C. K. B. Hanmer, 1998,

market

Ret. Pontiac Sara Tietje, 39514, 2y. 1m. 404.9 Mbs. milk, 18 11 Ibs. fat. 22.64

hatter, and the state of the st

6. Het Loo Gretchen, 42730, 2y. 2m. 29d.; 385.6 Ms. milk, 14.89 lbs. fat, 18.61 lbs. butter. W. L. Shaw.

Butter, W. L. Shaw.
 T. Lakevlew Dutchland Ducheas, 38098,
 y. Im. 26d.; 339.1 lbs. milk, 14.83 lbs.
 at, 18.53 lbs. butter. Dr. F. A. Heelop.
 8. Het Loo Colantha, 38494, 2y. 2m. 17d.;
 95.3 lbs. milk, 13.22 lbs. fat, 16.53 lbs.
 utter. W. L. Shaw.

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1. A choice young bull, born Nov. 2, 1917, sired by "Woodcreat Sir Cyrds." Dam, a 23-bb, daughter of "Prince Hongerveid Pietle"; Ind dam, TS-11. A low argain for lamachiate sais. TS-12. A low argain for lamachiate sais. TS-13. A low argain of the size of the size of the size of the Wood Johanna Ind, the twice 57-bb, cow, Dam of call is a 15-b. Hwo-year-old daughter of "K. P. A. Canada"; Ind dam, 29.96-bb; Srd dam, 17-ob. A bargain. H. LYNN Avondale Farm. Brockville, Ont. HERE'S A TOP NOTCHER

AVONDALE FARM OFFERS

SUNNYBROOK FARM HOLSTEINS

Get them while they last! We have only 3 of our young bulls of service-able age left. Do not miss this opportunity. You will never get finer indi-viduals, with such official backing, so reasonable. North Toronto

Jos. Kilgour - Eglinton P.O. .

SPRUCEDALE FARM Offers For Sale

DIRUCEDIALE FARM Offers For Sale Two Holstein buils fit for service from record dama. No. 1 born February 8th, 1917; seven eighths black, whose dam as jr. three-year-oid gave 438 hb. milk with nearly 18 lbs. builtr. No. 3 born March 31st, 1817; mostly white, whose dam as jr. three-year-oid bib. milk and over if no. builtr. Also younger buils. These are good straight buils. Write for particulars or come to see them.

er come to see them. EZRA G. SCHWEITZER. R. R. No. 3. STRATEORD ONT

CHOICE BULLS READY FORSERVICE

\$1,000. 3-By a son of MAY ECHO SYLVIA. His two nearest dams (one a four-year-old), average 34.17 ibs. butter in seven days. Price \$500. Some extra choice young buil calves from \$280 to \$1,000. We have thirty-five buils this winter. No. 2

R: W. E: BURNABY, Highland Lake Farms (Farm at Step 55 Yeage Street Radial) Jufferson, Ont:

BROOKDALE STOCK FARM OFFERS

PVVB RICHLY BRED HOLSFEINS of Korndyks breeding, and bred to one of the very best bulls of the bread. One cow nine years add, her daughter beautiful heirer rining one year. Here is a bargain for any one looking for richly fred Holsteins, young, and from the best strain on earth. I am pricing the lot of the tennals for Holstoin, one, dott Arbligerille Station.

WM. C. STEVENS - PHILLIPSVILLE, ONT.

DON'T SCRAP

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

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

FARMERS' BUSINESS

For the past 54 years, this Bank has given particular attention to the business of Farmers.

We have helped many over the rough laces, and have aided many more to the highest plane of success.

We are prepared to extend you every aid within legitimate banking practice.

Come in at any time and talk over your affairs with us. You are always welcom-HE MERCHANTS BANK Head Office: Montreal OF CANADA Established 1884

th its 162 Branches in Ontario, 22 Branches in Ouebec, 19 Branches in Manitoba, 21 Branches in Saskatchewan, 53 Branches in Alberta, and 8 Branches in British Columbis serves Rural Canada most effectively. WRITE OR CALL AT NEAREST BRANCH.

till you see this one REIMEMBER our herd size is Fair View Korndyke Boy, a son of Pontiac Korndyke, 125 A. R. O. daughters, and 69 proven sons. RE-MEMNER his first 10 daughters at 2 years made 7-day records averag-ing 20 bs. and who has now 7 daughters with records between 20 hs.

SEE ABOUT THIS ONE

-DON'T BUY A BULL

We have JUST ONE of his sons left. He is ready for service. We are offering him at a reasonable figure. His dam is a 20.14-1b. cow, with a 20-1b. 2-year-old daughter. Just consider what he is worth in a good herd.

Write us about this fellow and about a few younger ones from daughters of FAIRVIEW KORNDYKE BOY by our junior sire.

LOWBANKS STOCK FARM K. M. Dalgleish - - Kenmore, Ont. 1915





They are Fighting-Dying-for YOU! What are You Doing for THEM?

F only you could be in France, close to your boy, think of the comforts you could send him into the lines, how you could hearten him for the supreme ordeal of battle. shield him by your advice, from temptation, comfort him in pain, help him turn his eyes, not always downward into the chaos of war, but upward to the Right we fight for, and to the higher things he learned on your knee

But no-thousands of miles separate you! Not for you are his furloughs, no visits to camps for you, no privilege of visiting your boy in hospital, if need be. Few and far between are the comforts you can send across the wide seas!

Would that you had a friend over there to perform these offices for you! Thank God, you have that friend. The Y.M.C. A. is ever at your boy's side, from the day he enlists to the day he doffs his uniformin camps, trains, boats, in the streets of the big city, in hospital, behind the firing linesand often right into the trenches-everywhere,

"Right on the heels of the dashing Canadian soldiers at Vimy Ridge the Y.M.C.A. men were serving out biscuits and chocolate

to the tired men," said the dis-patches. The General was patches. enthusiastic and recommended one of the Y.M.C.A. men for the Military Cross!

Said Lord Northcliffe, "I do not think the War could be fought without the Y.M.C.A.!" A general declared, "The benefit to the

troops is beyond all calculation." In the words of Ralph Connor, "The Y.M.C.A. 1 is nearer to the boys than anything else.'

Think of the tremendous cost of building and maintaining hundreds of huts with all the thousand and one comforts that must be provided. What will you give to show that you care for your boy's welfare? At least \$2,250,000 is needed for 1918. For the sake of your precious boys, be Generous!



War-Work Summary

There are 89 branches of Canadian Y.M.C.A. in France.

74 branches in England.



Canada Wide Appeal

Dozens of Y.M.C.A. dug-outs in forward trenches under fire.

\$100,000 needed for athletic equipment (helps morale of soldiers).

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

Over 100 pianos in England and France, also 300 gramophones and 27 moving picture machines.

More than 60,000 cups of hot tea and coffee distributed daily in France-free. Estimated cost for 8 months, \$48,000.

150,000 magazines distributed free every n \$15,000). month. (Estimated cost

Thousands of soldiers decide for the better life.

Y.M.C.A. sells many needful things to soldiers for their convenience.

Profits, if any, all spent for benefit of soldiers.

Service to boys in Camp hospitals. Red Triangle Clubs for soldiers in Toronto, St. John, Montreal and other places. Centres in Paris and London for men on leave.

Out of Red Triangle Fund, \$75,000 is to be contributed to the war work of the Y.W.C.A.

Cost of administration of Y.M.C.A. war work is less than 1%.

National Council, Young Men's Christian Association

Headquarters: 120 Bay Street, Toronto

JOHN W. ROSS (Montreal) National Chairman of Red Triangle Fund G. A. WARBURTON (Toronto) National Director of Red Triangle Fund

1993