FARM AND DAIRY RURAL HOME



BETTER FARLING

Toronto, Cnt., February 28, 1918





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It does its work easily and cap-bly, because every known im-rovement has been combined with roat strength to make the Page Vood Sawing Outfit the most per-sect one obtainable.

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don't sek you to pay us a cest until you may return it as perfectly antisfied, se to you that it make amp look like a cand

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130-Egg incubator and brooner in \$13.73



Better Price for Cheese Seems Assured

Dairy Delegation Receives Favorable Reception. Hon. T. A. Crerar and British Government Representatives Speak Encouragingly. Price of Condensed and Powdered Milk to be Regulated

Condensed and Powdere who waited on the Dominion of the West and the Condense who waited on the Dominion of the Condense who waited on the Dominion of the Condense was a second of the Point of the Condense was a second of the Point of the Condense was a condense who was a steedage on the part of the government who also was in attendance not only a second of the Point only did Mr. Mills, representing the British Food Courted Board, which has been charged this year with the responsibility of purchasing all the food products for the British government, intimate that he haped that the price paid this year would be as malifactory to the dairynness at the close of the essenon as they told him last year's prices had been, but he made the simportant additional amountement that the British Food Control Board in setting the price for cheese this season, will also be prepared to deal with the price that will be paid for the products of the condensed milit factories and powder factories. In doing this control is the propose seeing that there will not be the same disparity in ractories and powder factories. In do-ing this they propose seeing that there will not be the same disparity in prices that has prevailed during the part two years. This announcement me news to the representa-

very best type of dairy farmers. Large wery best type of dairy farmers. Large colegations were proceed from sounding as far west as Hastings and Prince Belware. The dairymen of Western Ontario wer, represented by Jas. Donaldson, of Atwood, president and J. N. Page of C. suboro and Frank. Boyes of Dorchester. directors, of the Wastern Charles Bayerses. horse of Dorchester directors, of the Wastern Ontario Darymee's Association avid who had been appectated by that association at a superinted by that association at a c. The Eastern Ontario Association at a c. The Eastern Ontario Association at a c. The Eastern Ontario Association at a contraint and a contraint a contrain mitted in type written form to the government. This memorial was discuesed and approved at a large meet-ing of the delegates before it was presented before Hon. Mr. Crerar. Mr. presented before Hon, mr. Cree Campbell presided throughout.

Have You Used Substitutes For Corn In The Silo?

A s yet Canadian farmers are without seed corn for the 1918 crop. There is just a possibility that many far, sers will be disappointed in getting a supply, and will have to rely on substitutes. August you used substitutes for corn in the silo? Have you had experience with near a stand without and some services and services are services and services are services and services are services and services are services and services are services and services are services are services and services are services are services are services are services and services are services are services are services are services and services are s you used substitutes for corn in the silo? Have you had experience with peas, oats and vetches, red clover, sweet clover or sifralfa, as sliage crops? If so you will confer a favor on Our Folks by writing Farm and Dairy of your experience, giving such details as tennage per acre, stage of maturity when cut, and precautions to be observed in filling the silo. For all such letters Farm and Dairy will pay regular contributors' rates. The benefits of your experience may be needed by thousands of dairy farmers this spring. Let us hear from you, Address, Editor, Farm and Dairy, Peterboro, Ont.

tives of the cheese industry, but may not prove as witcome to the patrons of milk condenseries and the powder-ed milk factories. In this connection at South be noted that the delegates who visited Ottawa did not ask or intimate in any way a desire that such action should be taken by the government. It was their feeling that they should not interfere in the matter of the price being paid other dairy farmers for their milk. The announce-ment was made voluntarily by Mr. Mills on behalf of the British Food. Control Board.

Farmers Will be Consulted.

In addition to the foregoing assouncements Hon. Mr. Crewr stated that the government will see that the delay farmers are represented this year on the Cheese Commission, which will conduct the negotiations with the British government for the purchase and handling of the cheese. In making this amouncement Hon. Mr Crewr gave a further indication of what appears to be his declared police. In making the amounteement from the American gave a nurther indication of what appears to be his declared policy of siving farmers full representation on commissions and an opportunity to make their full means of the indicate the indicate of policy affecting their welfare, instead of having these metrics to be handled of heaving these metrics to be handled in any form of the prevail in the control of the prevail in the large of the commission of the large of the commission of the large of the City Hall. Even this room was crowded to the Hmit to accommedate the deligrance from all par 2 of Eastern Outstrow have represented its resonance. It was a most representative gathering of the

A Patriotic Move.

The members of the delegation in the speakers. Unders the price is advanced it is opine to be difficult, it not impossible to maintain production. "We are not been," and Mr. 0. 0. Cassesiman, M.P., of Dundan, on behalf of the dailyrmen, "as a group of disgrantised individuals looking, for special favore, but representing the daily farmers of Ontario who desire some assurances that their principal product will be marketstable this year at prices that well yield a fair return upon their investment and for their labor. We are willing to bear our full share of the sacrifices necessitated by the war. My county of Dundan, which is purely agricultural in character, has furnished 700 volunteer molders. This has brought about a Jabor shortage that is sharming. Our governments have encouraged us 7. develop the choose is during for many years, until it is now our main business. Our harms have hen accessed with, that purposes in view. Our hords have (Continued on page 3.)

Trade VCL.

THE P SLAZ Both are i under the the milk d after comin Air and The temper the bulk of to be a goo capacity for foot of wa cubic feet of Water, in the high in tem as much col sufficiently ous, then, the supply of

For practi lbs. of cold ice and 100 effect in cool The amount particular facourse deper among these of the supply the temperat poses, and th From actua partment of A where various was found th

of cream, condition from will produce a This multiplie amount of ice floating in the placed. If mi placed. If mi and a half to t is cooled. Fre place in the sice house user Choosing the ron storing 1,000 is cooled. is cooled, and is cooled. For for four mont stored, which The tools nee

The tools nec are: one saw, it pointed bar, an setting the ice of snow over the advantage with and easily, of block cut sho handle easily, often cut, but the if the ice is not this size will we seven to make a A straight edg straight sawing

"An address de

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

TORONTO, ONT., FEBRUARY 28, 1918

The Farm Supply of Ice Should Be Stored Now

A Plentiful Supply of Ice is the First Essential in the Care of Milk and Cream-By Prof. R. W. Brown

HE principles underlying the proper care of u.tik and cream are fairly simple. They are shamed up in two words—clean and cool. Both are important, since milk or cream produced under the best of conditions from the standpoint of

under the best of conditions from the standpoint of cleanliness may be of poor quality when delivered to the milk depot or creameny, if it has been sufficiently cooling to the condition of the condition of the entry cooled may be a considered the condition of the after coming from the cream separator. Air and warmen of air during the season in which the build of milk air cream are produced is too high to be a good cooling medium. Air has a very low capacity for heat compared with water. One cubic foot of water will absorb as much heat as 3,550 capacity for heat compared with water. One cubic foot of water will absorb as mich heat as 3,520 cubic feet of air for the same risk in temperature. Water, in the majority of cases, is temperature or too high in temperature to be a suitable cooling medium alone. On the average it will require cooling medium as much cold well water as there is milk to cool it suitable to be as a suitable to be a safely left overnight. It is obvi-medium as much cold well water as there is milk to cool it suitable to be a safely left overnight. It is obvi-medium to be a safely left overnight. It is obvi-medium to the safely left overnight.

a supply of ice,
For practical purposes it is usual to consider 10
bs. of ice as having the same cooling value as 130
bs. of ice as having the same cooling value as 130
bs. of coid well water. That is to say, 10 hs. of
ice and 160 lbs. of coid well water of the same
effect in cooling warm milk as 300 hs. of many of the
The amount of ice that should be stored on according to the property of the same all requirements will of The amount of ice that should be stored on any particular famount all requirements will of course depend upon many different factors, chief among these being the amount of the amount of the supply, whether mis combinity and cheapness of the supply, whether mis combined in which the ice will be used, the amount desired of the supply whether missed the temperature of the will be used, the amount desired courseloof surposes, and the manner in which the local supplement of Agriculture, under dairy fam conditions of Agriculture, under dairy fam conditions was found that 1.15 lbs. of ice were required per two for condition from one to four days old. A cow yield-condition from one to four days old. A cow yield-

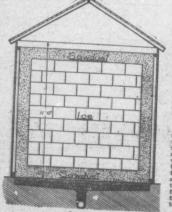
was found that L1s lbs. of ice were required per the of cream, in order to deliver same in a sweet condition from one to four days of the control of the con

Equipment.

The tools necessary for cutting a small lot of loc are: one saw, two pairs of longs, two lee hooks, a pointed her, and a number of planks to assist in cetting one out of the water. It there is a crust of snow or see to etc. this can be locsused to good advantage with an ordinary disc harrow. The size of snow or should be not be larger than two men can handle easily. Blooks 2 x 22 inches in size are often cut, but they may be too heavy for hand work if the loe is much flict than 13 inches. Blocks this size will weigh clear than 13 inches. Blocks this size will weigh clear than 13 inches. Blocks also will weigh clear than 14 inches. Blocks are on the size will weigh clear than 13 inches. Blocks are on the size will weigh clear than 13 inches. Blocks are on the size will be size will be seach, requiring seven to make a ton.

this size will wough about zer los. each, requiring seven to make a ton.

A straight edge and a right angle should be used in marking out the field. It is important to have straight sawing done, so that the cakes will fit



Section of a practical ice house. The one illustrated is 12 feet square and will hold 20 tons of ice. A 10 foot house would hold 10 tons.

closely together in packing. However, when sawing out the first strip, it should be cut slightly narrow at the top. This being pushed down out of the way will facilitate making a start.

will facilitate making a start.

Many styles of ice storages are in use. The best ice house is the one which best meets local conditions. Among the conditions to be considered are the amount of money which one should invest, the desire to make the farm buildings harmonize, the options of discussions of discussions of discussions of discussions. desire to make the farm buildings harmonize, the existence of structures already on the size which may be utilized, the cost and accessibility of insulating material, and the first cost of the text main essentials in the proper storage of fee the good drainage from the melting fee, to have a feel in solicity of the cost of the text of the t

sulated and prevision made for good ventilation over the ice and around the outside of the house, in case the storage is partly or wholly above ground. Many people store ice in caves, pile or old wells. These may well be used if no other storage is available. However, they entail much laid the state of the table. However, they entail much laid the property of the table and the state of the state of the state of the state of the naturally porus, no artificial drainage need by the vided, nor will it be necessary to place boards around the sides, if the soil is not inclined to cave. Much vided, nor will it be necessary to place boards around the sides, if the soil is not inclined to cave. Much less shrinkage would occur if assume, that or cut straw were packed all around that fee and poles placed on the bottom to keep the loe out of water which might accumulate. A deep post hole in the bottom will assist admirably in draining.

Making Ice in Storage

Making les in worsge.

If an abundant supply of water is handy, the pit or well may be filled gradually, and a solid mass of ice obtained. Water should be added to a depth of a few inches at a time, and allowed to freeze solid. In this case, building paper should be laid, at intervals of a foot or so, in order that the ice may be taken out in layers. Some advise sprinkling the

sides of the pit with water, and allowing it to freeze before filling is begun. A pit eight feet aquare and eight feet deap will hold about 12 tons of ice, allowing a devth of one foot at the top for insulating material. Some form of roof showers to the pit in the properties of the pit in the properties with a covered with earth and sod. If the roof is built of lumber, siding should be nailed on both sides of the ratters. The space between the boards should be filled with mill shavings or some other good insulating material.

boards should be filled with mill shavings or some other good insulating material. Where there is no available place at present in which to after lee, I think rather than do without ice act; manner, farmers should stack it. Select a well-drained site and place poles on the ground to further provide for drainage, and insulate well all around the stack with sawdust, straw, prairie hay or flax straw. This method is often used by ice companies when their storages have been filled.

The Ice House.

Those who decide to build an ice house next summer should choose between two general types. First, there is the cheap style with a singuly of bound a should have a tight roof and proper drainage arounded for Drainage is obtained in a non-provous soil by excavating to a depth of eight to 10 inches. The stoor should shope slightly toward the centre. Here show should shope slightly toward the centre. Here show should shope slightly toward the centre. Here show should shope slightly toward the centre. Here the short should shope slightly toward the centre. Here the short should shope slightly toward the centre. Here the short should shope slightly toward the short should shope slightly toward the short should shop slightly toward the short should shop slightly toward the short should be should be of such a short should be should be of such as the should be should be of such should be sho

Make Air-tight.

When the ice is being packed great care should be taken that no spaces are left between the blocks. The property of the prope

drains on and draws ing rapid melting.

The second type is the well built house
The second type is the well built house The second type is, the well built house which requires no insulation around the ice, except that which is built into the walls. Such a house may be built or close the control of the con

"An address delivered at the recent Manftobs Dairy

Selecting and Preparing Land for Spring Wheat

Factors Which Influence Yield as Suggested by Professor James Murray, Macdonald College

THE success of the wheat crop will depend largely upon suitable soil conditions being provided for it. Attention should be given first to choosing the most suitable soil and then to putting this iand into proper tith. Heavy soils, clays or clay loams are preferable to those of a sandy nature but even light soils if fertile and well sandy nature but even ligat solis it tertile and well prepared may be depended upon to grow a good crop of wheat. On account of wheat requiring to be sown early in the spring most of the work of preparing the land should, under ordinary circumstances, be done in the fall but many of those who will sow it next spring had no opportunity last fall to prepare land spacially for it. pare land specially for it.

Hoed Crop Land is Best.

Heed Crop Land is Best.

It will be necessary to choose land that is already in a good state of cultivation such as that which produce cools are considered to the cool of the

rowing or by using a packer or roller.

Clover Sod or Pea Land.

If there was not available a sufficient acreage of hoed crop land, that which was plowed out land, that which was plowed out of clover last year would be found to answer admirably. Clover sod is usually fairly fertile, reasonably clean and works down to a ine tilth with comparatively little difficulty. Pea land could be used with confidence provided it was reasonable. dence provided it was reasonably clean. Spring plowed clover sod would probably rank next in order as land suitable for wheat. It should be plowed early, well surface worked and

early, well surface worked and thoroughly firmed.
Good wheat crops are sometimes produced on land which grew oats or barley the year before, but such land should be used only when none of those already mentioned are available.

It housewart it is in good heart. if, however, it is in good heart and has been well plowed and particularly if it can be given a light dressing of manure it will frequently grow a good crop.

It will usually need the manure and more care in preparation than any of the others mentioned.

Thorough preparation of the soil is one of the best means of insuring a crop. Even a fertile soil if indifferently prepared cannot give a satisfactory If momercury prepared camera return. The seed bed should be fine on top and firm below to insure a supply of moisture for germina-tion and to maintain growth. The time devoted to preparing the soil is well spent and will bring its reward at harvest time.

It is seldom if ever advisable to attempt to grow It is senion if ever airvisione to access, to glow wheat on land plowed out of old sod in the spring. The grass and weeds cannot be subdued and they will often gain the upper hand of the wheat long before harvest time. It will pay better to put this land into roots, corn, potatoes or beans, as there is more time in which to prepare the soil before seed-

Early Seeding is Essential.

The fall preparation of wheat land has been em-The fall preparation of wheat land has been emphasized for the reason that the seed must be sown early to insure a good crop. Of all the farm crops, wheat should be sown first. An experiment to determine the effect of time of seeding on the yield of wheat has been carried on for a number of years in the Cereal Huslandry Department of Macdonaid Collegs. The first seeding each yealon of the control of the cont intervals of one week. The results are presented in llowing table:

DATES OF SEEDING WHEAT. Cereal Husbandry Department, Macdonald College.

Average of six years First Seeding 35.83 bushels per acre Second Seeding 29.10 28.47 Third Seeding Fourth Seeding Fifth Seeding Sixth Seeding 14.29

These figures speak for themselves. Similar results have been obtained at the Experimental Stations in Quebec. They clearly show the necessity of sowing wheat as early in the spring as the land can

be properly prepared.

In arranging the seed supply it is advisable to provide for about one and three quarter bushels per acre. When the seeding is done early on well preacre. When the seeding is done early on wen pre-pared fertile land slightly less may be used, but it does not pay to skimp the seed. A full crop cannot be harvested unless a full stand of plants is secured. If the seed be sown broadcast, two bushels is not too heavy a seeding. Seed Supply.

Seed should be secured well in advance of seeding time. In districts where wheat is now grown, considerable quantities of good seed will be available locally. This should be used when it is of good quality and should be well cleaned before sowing. In many sections home-grown seed will not be available. To meet this condition, western grown



Early Seeding of Spring Wheat Insures Increased Returns. The plot on the left yielded 35 bunbles. That on the right; sown five weeks later, but 14% bushels per acre. Photo is experimental plots at Macdonald College, Quebec.

seed wheat is being brought in by the Seed Branch of the Dominion Department of Agriculture. This seed will be practically all of the Marquis variety; it has been specially selected for seed and will be thoroughly cleaned before being sold. It will be sold only in car load buts at a price sufficient to cover the accuracy of the sold of the creased accordingly, but not more than two or three

cents per bushel).

Since this seed is being sold by the Seed Branch only in car load lots it will have to be handled loonly in car long lots it will have to be namined io-cally by Seed Merchants, Agricultural Societies or Farmers' Clubs. It is important that they make ar-rangements for their supply at an early date so that it may be in the farmers' hands well in advance of seeding time.-The Journal of Agriculture

Field Beans in Ontario

They Approach Animal Foods in Value By Dr. C. A. Zavitz.

CCORDING to the Bureau of Industries for On-A CCORDING to the Bureau of Industries for Ontario for 1916 the market value per acre of some of the grain crops of Ontario are given as follows: Beans, 858.95; corn for husking, \$45.57; wheat, \$44.91; peas, \$27.41; spring wheat, \$44.89; barley, \$23.91; rye, \$18.81; oats, \$17.50; and buckwheat, \$15.51. Beans occupy a high place in value per acre among the grain crops of Ontario.

Field beans approach animal foods in nutritive value. They contain a high percentage of protein and in this respect surpass the other grain crops fre-

quently used as food. There is a higher percentage of protein in beans than in the best cuts of meat, but it is not quite so completely digested. Protein is a nutrient which serves to build and repair body tissues as well as to turnish energy. It performs essentially the same part in autition. It performs essentially the same part in autition of the same part in a performance of the same part in an autition. The province of Ontario, and the States of Michigan and of Nhw York have produced about one-half of the beans of the North American continent within

gan and of Nbw York have produced about one-half of the beans of the North American continent within the last few years. In 1916, 83 per cent. of the acreage of beans in Canada was in Ontary. The number of acres of beans in this province was 53.999 in 1915, and 114.785 in 1917. Heans are one of the most valuable crops which can be grown in Ontario for export. They can be transported readily and when well matured can be stored without much danger of injury. It seems proper for Ontario to produce as large an acreage of beans in 1918 as the limited amount of labor will bearing. amount of labor will permit.

Wintering Farm Stock Outside

With Special Reference to Young Horse

ITH the prevailing high cost of building ma-

With the prevailing high cost of building material and labor, many farmers are deterred from going very extunsively into live stock raising, under the impression that a heavy outlay for buildings is necessary.

Such is not the case. While work horses and milking cows require warm stabling, sheep and poultry, in order to be profitable, must be kept away from the contract the contract of the case of the contract the contract of the contr

The reason these classes of live stock do so well The reason these classes of five stock do so well wintered outside is that they get what is hard to obtain when kept inside, namely, fresh air and exercise, and are, as a result, in good health and fit for profit-

able breeding operations.

During five years, fitteen different young horses were wintered outside, at Cap Rouge Experimental Station, with only single board sheds as shelters. Station, with only single looked aness as shorters. Though the temperature went down as low as thirty-one degrees Fahrenheit below zero, not a single one has ever been known to shiver. Moreover, as a rule, they commence to shed their hair earlier in the spring than others kept in the barn. During an outbreak of influenza, all the animals inside were sick, whilst

influenza, all the animals inside were sick, whilst not one of those in the open was affected.

Sheiters.

Any shed which is free of draughts, and with an opening to the south, will answer the purpose. If it is placed on a slight elevation, so that water may not run in, there is no need of a floor; ground floors are best. Shingles or paper may be used for the root, which must be perfectly rain-proof, for metal will get the place too warm during the summer. As only one thickness of lumber forms the sides, it should be grecoved and tongued. grooved and tongued.

The main objection to keeping stock in cold shel-

ters during winter has been that more feed is required. That the contention is correct cannot be disputed, if the conditions were always perfect in warm stables. But, as a matter of fact, there are very few stables. But, as a matter of fact, there are very tow well ventilated barns in the country, and it is a ques-tion whether there is not as much loss of feed through bad digestion, due to the foul air breathed inside such buildings, as through the extra amount

Root Seed Production in Canada

Suggestions by Dr. C. A. Zavitz.

each of the past ten years experiments have I N each of the past ten years experiments have been conducted in the production of home grown sales with turnips and carrots. The results with turnips and carrots have been fairly satisfactory, and with mangels they have been very successful in eight out of the ten years. In 1918, however, the home grown mangel seed was practically very the same of the past of th a failure owing to lack of germination. It was a hot, dry time when the mangel plants were in blossom which caused injury to the plants, and particularly to the seed. In 1917, on slightly less than one acre of land, we produced faily 1,350 pounds of thoroughly dried, carefully cleaned seed having an average germination of clusters of about 9 per cent. And of seed a being being the seed of 215 per cent. This stock per compared to the seed as being the seed as being the seed as being the seed as the seed that the seed as the seed

As nearly all root seeds were imported from Euro pean countries previous to the war, and as there are practically no importations at the present time. are practically no importations at the present time, the supply of seed is in a rather critical condition. The Dominion Government is taking measures to increase root seed production as much as possible in different parts of the Dominion. I would suggest to the farmers that they secure from their root cellars or from their pits in the spring a number of choice mangels and plant these in well-cultivated ground early in May.

The illu

N no li a grea there The aver about 4,3 individual year and and one o improve l of the mil best cows ducing an most expe son: it de cessfully h

fine piece The first

dissatisfied to either o position to milking qu sire (the d

of keeping he ought to The next knowledge all practice ing a sampl days each n 1st, 11th an three days milk produc multiplied i vided by on give 16 and 14 pounds, r which multi culated yield tiplied by 3. of fat in the culated pour from month will give a r

curately eno With the fi production o something de able dairy he breed from: breed from; are not up to which he can to sell. He a scale will sh proved feedin of expensive i sary dairy cal

Let us see yield of milk fully 30 per first commenc means that th ducts was gre-than it would provement or i The most di



A Family to be Proud of.

The illustration shows a brood mare and five of her colts, which are all owned on the farm of A. P. Dammeler, of

Wellington Co., Ontagio. The colts are a good, clean-limbed bunch—a family to be proud of.

Speed Up the Dairy Herd

A Good Sire is the First Essential-Geo. H. Barr, Chief Dairy Division

A Good Sire is the First Essential A Good Sire is the First Essential In a greater opportunity to increase production than The average in the improvement of the dairy herds. The average has been also been also for the person of canada is only about 4,300 pound in this per cow in Canada is only about 4,300 pound in this per cow in Canada is only about 4,300 pound in this per cow in Canada is only about 4,300 pound in this per cow in Canada is only about 4,300 pound in the per cow in Canada is only a considerable for improvement. There are two ways in which ger cow, and one can readily see the possibilities for improvement. There are two ways in which ger cow, and one can readily see the possibilities for improvement. There are two ways in which ger cow in the has a done in the considerable of the milk and fat produced by each cow, breed the best cows to a sire that has a long line of heavy producing ancestors and then raise the heffer calves.

The first see in the cound plan is good for this reason; it develops the second pl

of the different cows in the herd.

With the figures in black and white regarding the production of each cow before him, the owner has something definite to the common the black of the production of each cow before him, the owner has something definite to the common the production of the production

creased rations.

Let us see if this is worth while. The average yield of milk per caw for all Canada has increased fully 30 per called the content of the c

the whole scheme is making proper use of the information contained in the records. How many men are like the one westld. I have been testing my cows regularly for three and they are not giving any more milk now the man they are not giving any more milk now the man they are not giving any smore milk now that was wrong. The weighing and sampling was done right, the testing the weighing and sampling was done right, the testing the calculated properly and the figures returned to the farmer. Therefore, we cannot lay the blame for failure on the plan for getting the records, neither failure on the plan for getting the records, neither We much blame the cows; no doubt, they did their best. We much be the point aiready montioned: failure to put the information obtained into practical use.

cal use.

I believe the greatest hindrance to the successful building up of a dairy herd is that the farmers do not nully realize the importance of using properly bred sires. Suppose some farmer of the same that can trot a mile in three minutes. He shamed that the trot a mile in three minutes. He shamed that the work of the same that the same trot a mile in three minutes. He shamed the same trot a mile in the same trot and the same tr Just breeds ner to an ordinary pred Clydesdaie. Does he get a colit that will trot a mile in three minutes? Not likely. But how many farmers all over the coun-try are following a similar plan for increasing the milking qualities of the helfers they are raising.

The Feeding of Calves

A Summary of Experimental Farm Results IVING a calf an extra good start the first six months of its fife and doing so cheaply, is the secret of successful and economical stock rais

No matter how good the calf at birth, it will be

handled at a loss, 'y more or less seriously handicapped for future usefulness and profit if not fed carefully and cheaply in its early days.

The present high prices of whole milk practically exclude this packet being used to any extent in calf rearing, although it is absolutely necessary for the first three or weeks if best results are to be obtained. To discover the best substitutes for whole milk and the best methods and practices in cet feeding, a large number of experiments have during the mins and the nest methods and practices in cart feed-ing, a large number of experiments have during the past three years been conducted on the Pominion Experimental Farms. The detailed resuits of this work will be published in the near future. However, a few deductions from these experiments are given horeauth.

herewith.

I. It is more profitable to breed and rear good young stock to maturity than to purchase the average cows for sale, which are may the animals least profitabl and desirable in the late of the profitable of the profitab

Type and Breeding.

Hi. Calves of poor type and breeding are not worth rearing, but good calves properly bred will be worth at least 30 per cent. and up to 100 per cent. more than their feed cost at two years of age.

IV. Calves of good size, strong constitution and large capticly will on the same feed, make greater growtip acity will on the same feed, make greater growtip acity will on the same feed, make greater growtip acity will on the same feed, make greater growtip acity will on the same feed, make greater growtip acity will on the same feed, make greater growtip acity will on the same feed, make greater growtip acity will on the same feed properties of the sa Type and Breeding.

Good rearing of calves is most profitable, as

V Cood rearing of calves is most profitable, as shown in such results as— Earlier maturity in size. Earlier maturity in profitable production. Greater production throughout the whole life time. More valuable and in greater demand at the high-nal turkes. est price. Healthier stock

More durable animals,

More durable animals.

Better able to consume most profitably all cheap farmigrown roughages and convert these into milk.

VI. The calf reared on its dam costs 25 to 56 per cent. more than the pail-fed calf, and the more productive the cow the greater will be the charges.

VII. Patient and the cold.

against the calf.

VII. Pali-fed calves reared to 6 to 8 months largely
on whole milt; make gains which cost \$14 to \$18.75
per cet, which is reveral times the cost when a
properly fed substitute for whole milt is used.

VIII. Skimet for whole milt is used.

VIII. Skimet and may reach a value of 70 cents a
cet, or more in feeding young calves. However,
askimmlik may be improved by the addition of a good
cream substitute such as fianced joily, oatmeal or a
well-balanced calf meal.

Buttermik versus \$kim.milk

Buttermilk versus Skim-milk.

Buttermilk versus Skim-milk.

IX. Buttermilk, if fed uniformly as to addity and temperature, may have a slightly greater value than skim-milk. Great caution must, however, be taken by the cause of the



The Home of the Famous B. C. Holstein Champion. This is the daily barn on the Colony Farm, Essendale, B. C., the home of Zarida Clothide and Dekol, the wonderful Holstein cow that so recently completed her record of 30,480,2 lbs. milk and 1,071.6 lbs. butter in one year. (4)



Fertilize the Whole Field

ONE great feature of the McCormick spreader is that it fertilizes every particle of soil, spreading an even coat of manure, light or

of soil, spreading an even coat of manure, light or heavy as desired, up hill or down.

This eveness of spreading is due to McCormick design. The reversing apron is driven by a worm feed which mains the same relative speed of apron to bester at all times. The manure is thus ted steadily to the beater, which tearning the same of the second beating, makes the piece will a maller and apreads evenly beyond the wheel tracks. Each partiels of the soil is thus properly fertilized, and the whole field put in condition to produce a bumper crop. Not manure is wasted. A McCormick spreader makes two yloads do the work of forty spread with a fork.

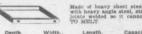
McCormick spreader are made in three sizes. No. 8 is a 49-bushel machines, No. 5, 55 bushels; and No. 6, 63 bushels. All are of the popular low type, with narrow boxes, cut-under front wheels, and strong steel frames. See the McCormick legical dealer, or write the nearest branch house for catalogue and full information.

International Harvester Company of Canada, Limited BRANCH HOUSES

WEST — Brandon, Man., Calgary, Alaz, Emoton, Alta., Estevan, Snik., Lethkridge, Alaz, N. Bettelovid, Snak., Regins, Snak., Snakntoon, Snak., Winnipeg, Man., Yorkton, Snak.

EAST — Hamilton, Ont., London, Ont., Montreal, Que., Ottawa, Ont., Queboc, Que., St., John, N. S.

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de of heavy sheet steel-finished around top h heavy angle steel, strong and durable. All its welded so it cannot leak—NO SOLDER MELT.

Depth.	Width	Length.	Capacity.	Price.
6"	2 ft. 21/2 ft.	5 ft. 7 ft.	30 gals. 55 gals.	\$10.00 \$12.00
9"	21/2 ft.	7 ft.	75 gals.	\$15.00

This will enable you to work your small bush at a small expense, and prices of syrup and sugar are very high. nd cash with order, and we will ship promptly

THE STEEL TROUGH & MACHINE COMPANY, Limited TWEED, ONTARIO

Give Your Crops a Better Start

A Peter Hamilton Spring Tooth Cultivator will work your soil into a perfect seed-bed. It is designed to cut every inch of the ground and cultivate it thoroughly to an even depth.

Peter Hamilton Cultivators

have specially constructed sections that give the teeth great freedom of action. They are so flexible that a ridge and furrow can be thoroughly cultivated at the same time, and hard, rough soil seldom jerks more than two teeth out of the ground at once. The teeth are made of high-grade steel with reversible points. The frame is strong, well-braced and properly trussed,

Send for our free illustrated booklet and post yourself on the merits of this cul-

D-alers wanted

The Peter Hamilton

Company Limited

PETERBOROUGH **ONTARIO**



The Feeding of Calves (Continued from page 5.)

XI. If well started on mother's milk, calves may be well reared on calf meals without whole or skim-milk. However, greater care and attention must be paid to these calves, and even so, gains cost from \$5,00 to \$15.41 per cwt., or nearly double the cost where some skim-milk is used.

XII. There are many excellent calf

meals on the market in Canada. The Canadian manufactured meals are as Canadian manufactured means are as good as and generally "ocidedly sup-erior to imported meals, due not only to the palatability of the ingredients and the chemical balance, but even more to freshness and freedom from

of the Canadian made calf meals used the three which in total gains have given excellent satisfaction are Royal Purple, Gold Dollar and Cald-

XIII. In order to rear the best and cheapest cows, all pail-fed calves should be taught to eat, at an early age, cheap and nutritious farm-grown roughages and grains. The best roughages are grass, fine alfalfa or roughages are grass, mee anata or clover hay, swede turnip, mangels and ensilage. Of the grains, oats and barley are unexceled.

To Have Better Calves.
Give suitable feeds and avoid

II. Feed regularly and carefully. III. Keep calf pens clean and freshly bedded

IV. Avoid in every possible way all such infectious diseases as scours, tuberculosis, black leg and abortion. V. Destroy parasites such as worms, ringworm and lice.

International Fair Committee Appointed

THE committees appointed by all of the live stock breeders associations to consider the establishment of an international Live Stock, Dairy and Poultry Show in Canada met in Toronto last week and elected a provisional board to deal with the matter. The representation of the various interests was dealt with at some length and finally it was agreed that each branch of the interests involved should have three reprewm. Dryden of Brooklin, was elected permanent chairman, and W. W. Ballantyne, Stratford, Vice-Chairman, to represent the dairy interests. Geo. E. Day was elected secretary and Jno. Gardhouse, Highgate, assistant secretary. The representatives each division were selected as

Heavy horses: Wm. Smith, Columbus; Peter Christie, Manchester; E. C. H. Tisdale, Beaverton.

Light horses: Geo. Pepper, Toronto; Jas. Cowan, Cannington; H. M. Robinson, Toronto.

of cattle: H. M. Pettit, Freeman; Jaa Bowman, Guelph; L. O. Clifford,

Dairy cattle: D. C. Flatt, Hamilton; Jno. McKee, Norwich; and B. A. Bull, Dairy products: Geo. Putnam, To-

ronto; G. G. Publow, Kingston; Frank Herns, Londo Sheep: Jas. Douglas, Caledonis; Col. McEwan, London; J. M. Gardhouse,

Weston Swine: J. D. Brian, Ridgetown; I. Dolson, Norval; J. E. Bretbour,

Burford. Poultry: Jno. Saunders, London; W. W. Singsson, Guerph; J. G. Henderson, Hamilton.

ds: W. J. Squirrel, Guelph; W. J. W. Lennox, Toronto; A. McKinney,

It was agreed to ask all the live stock associations to bear the expenses of the work of the committee.

The committee was instructed to formulate a plan of finance and then present it to the various associations through their secretaries.



ORONTO STABLE **EQUIPMENT**

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UNDER DRAINAGE=

BUCKEYE TRACTION DITCHER Full particulars on applica-

A HUTCHINSON & SON. Mount Forest, Ont.



TO 15 20 Years from now the Blissell Sile will be giving good service. It is built of selected timber, treatives, that gervent deary, at-tight doors, and hoops of heavy steel. Therefore it tasks, simply because it can't very well de anything dae, Cur folder anything dae, Cur folder the selection of the selectio

T. E. Bissell, Co., Ltd., Elore, Out.

Gasoline and Kerosene Engines, Saw frames, saw blades, grain grinders, straw cutters, belting, scales, farm and lawn fence. Write for price list.

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SILO FILLERS

THE GILSON SILO FILLER is the blower which can be successfully cover which can be successfully cover with a little power as 4 h.p. There is a Chi Silo Filler for every purpose—for the individual farmer, for the syndrate, and our large capacity machine for the custom

Will Silo Filling Time find you ready?

FRES

February

is ver second time, should be pringing of have appear Journal. If difficult than laugh at the spared it. One feels

up his face : jackass when ed, especially his employer then one alw: if he laughes whether or maybe they the fatal blow vertently spri That is whe

jokes—that s intent to decei what they bel to be a new ste for many years listener. All t words of Shake

"A jest's p ear of him w the tongue of

Several times homebred joke dotes that were who are now beards or whit solemnly swore lated had actua locality. Instea aforesaid strang with that cold which I had for liar to ancient time this happe struck Scot ceeding to dig oint when my he hadn't been a over that joke si when it was so p

The other day joke illustrative of

ity of farmers as I remember it ra Jonesville is poss One of these cate the other to farm of the farmers' h why he didn't tr the commercial t trade is more p Your commercial fault with his foc it is wholesome. a toothpick and also put half pocket; the far-toothpick, use it a Mac said that this happened in Jones known locally.

The next day I and in the course of made use of this last time I heard friend, "the scene there you are. Ever what you consider goes, there is alway "Seems to me I've h at least as far as you

The Manitoba go cently banned comic claim that these to people frivolous and



On Chestnuts

A FRESH joke like a fresh cigar is very enjoyable, but a joke twice is very enjoyable, but a joke twice is very enjoyable, but a joke twice is very enjoyable a gigar lit the second time, somethies a gigar lit the second time, somethies a law prohibiting the springing of jokes a week after they have appeared in the Ladies' Home Journal. If there is anything more difficult than endeavoring to force a laugh at the 9th repetition of a laugh at the 9th repetition of a mone-grown withicism, I'd like to be-spared it.

One feels in duty bound to wrinkle up his face and make a noise like a jackass when the funny part is reached, especially if the story be told by his employer or a rich relative. And then one always has the feeling that if he laughes at other people's Jokes whether or not he wants to, that maybe they will one day spare him the fatal blow when he himself inadvertently springs a kiln dried chest-

That is wherein lies the tragedy of jokes—that so many victims have been slain who were guiltless of any been stain who were guiltiess or any intent to deceive—men who have told what they believed in all good faith to be a new story, but which has been for many years the pe; aversion of the listener. All too late they recall the world of Shikaranare. words of Shakespeare:

"A jest's prosperity lies in the ear of him who hears it, never in

the tongue of him who makes it." Several times I have tried out some Several times I have tried out some homebred, jokes on atrangers—anecdotes that were passed on from men who are now wearing either white beards or white robes, men who solemnly swore that the incidents related had actually happened in our locality. Instead of bursting into hated had actually happened in our locality. Instead of bursting into locality in the had of bursting into loud gutfaws of musical laughter, the dorseadd strangers have regarded me with that old and gittering eye which I had formerly imagined peculiar to added and guttering eye which I had formerly imagined peculiar to added had been able to get up a laugh the point when my auditor tool me that the hadn't been able to get up a laugh or that jobs since the whiter of '98 over the '98 over that joke since the winter of '98 when it was so popular.

The other day Mac related to me a joke illustrative of the habitual frugality of farmers as a class. The tale as I remember it ran somewhat thusly: I remember it ran somewhat thusly. Joncaville is possessed of two hotely. One of these caters to drummers and the other to farmers. The proprietor of the farmers' hotel was once asked why he didn't try to catch some of the commercial trade. "The farmer trade is more produced." trade is more profitable," said he. "Your commercial traveller will find Your commercial traveller will find fault with his food; the merce will cat what is set before he provided at what is set before he provided it is wholesome. The traveler will take a toothpick for ammediate and also put half a dozen in his pocket; the farmer will take one toothpick, use it and put it back."

Mac said that this was genuine, had hanoqued in Jonesville and was only happened in Jonesville and was only

The next day I met an old friend and in the course of our conversation I made use of this "new" story. "The last time I heard that," said my friend, "the scene was laid in—" And there you are. Every time you get off what you consider to be a new one, what you consuler to be a new one, at least as far as your own community goes, there is always someone to say "Seems to me I've heard that one before,"

The Manitoba government has re-cently bannad comic movies. They claim that these tend to make the people frivolous and that frivolity

should not be encouraged in war time should not be encouraged in war time.

I would respectfully suggest that since
governments have chosen to get their
hand in on comic matters, they ban
about 99 per cent of the jokes already existent, or else that they ban
the drummers that set them affoat. I
con't mean that these lokes tend to the arummers that set them anoat. It con't mean that these jokes tend to make people frivolous. Far from it. They tend to a preventable loss of human life at a time when farm help is getting almightly scarce.

Sam Ray

Making Maple Sugar

HE appeal of the Food Controller to produce large quantities of maple sugar and syrup this spring should receive a ready response from those who have groves of maple trees. sponse from those who have groves of maple trees. While maple sugar can be made as it was in the early days of settlement, with very simple apparatus, the work is greatly reduced and better products made when a modern equipment is utilized. For the instruction of those not entirely familiar with advanced methods, the Publications Branch of the Depart-

ment of Agriculture at Ottawa has is-sued Bulletin No. 2-B entitled "The Maple Sugar Industry in Canada." By Maple Sugar Industry in Canada." By text and illustration it makes very clear the operation of a maple sugar-plant. The time to tap, the utensils to use, the refining and handlins of the product are all dealt with. This bulletin is available for distribution to those who apply for it.

More grain and less hay should be the feeding rule for horses with heaves. Unless the hay is very clean, dampen before feeding. Also water before feeding.



Ford Motor Company of Canada, Limited Ford, Ontario

Better Price for Cheese, etc. (Continued from Page 2.)

been developed with the same object before us. Anything, therefore, that will cripple the cheese industry will strike a hard blow at this important industry.

president of W.O.D.A., showed that the production of cheese in 1917 was an entirely different proposition from what it will be in 1918. Bran has advanced during the year from \$34 to \$39 a ton. Concentrates from \$45.50 to \$66; the cost of manufacture from \$1.75 a cwt. to \$2.20 and \$2.50 a cwt. Coal which last year could be bought for \$7 a ton is this year \$11. The price of cotton used in bandages has doubled. The price of rennet is away up. Boxes 'hich last year cost 21 cts. will this year cost at least 25 cts. and possibly much more. "We dairy farmers," said Mr. Donaldson, "are in the war to the finish. We feel, how-ever, that we must not be expected to produce at a loss. It is upon our wives and daughters that much of the load will fall this year." Mr. Hanna, load will fall this year." Mr. Hanna, M.P., of Perth, also spoke for the dairymen.

Mr. Crerar's Reply The reply of Hon. Mr. Crerar, on behalf of the government, made a most favorable impression on the dele gation. It was the first opportunity most of the delegates had had of seemost of the delegates had had of see-ing him. His simple, unaffected and sympathetic reply gave the impres-sion that he was the farmers' friend. "This business of being a Minister of Agriculture," said Hon. Mr. Crerar, "is still a little bit new to use. My part in the past has usually been to put it up to the other fellow. Now I find it somewhat strange to have the other fellows putting it up to me. I was born and brought up on a farm, lived on one till I came to manhood's estate and crowned off my experience by baching it for two years on a home stead in the West. I feel therefore that I know the views and feelings of farmers with whom my sympathies always naturally rest." Mr. Crerar did not undertake to say anything about the price of cheese for the com-ing season, leaving this point to be nable one and that he in-

Mr. Mills Speaks. Mr. Mills spoke briefly on behalf of the Food Control Board. He stated that the food situation in Europe is most serious. Land that has been tilled for centuries and whose fer-tility has been maintained by the use of fertilizers, is now without, fer-tilizers. The lack of labor is so great that in France women hr.ve been as sisting by pulling the plows and the cultivators. The number of meat anicreased over 100,000,000 since the beginning of the war. He complimented the delegation upon the spirit and manner in which their requests had een presented, said that been presented, said that he was pleased to know the price that had been paid last year had proved astis-factory under last year's conditions and that it was his hope that they would be just as well pleased at the close of 1918 with the price that welcome dairy farmers on the Cheese Commission which will direct the shipping and financing of the cheese Commission which will direct the shipping and financing of the cheese as was done last year. Emphasis was laid by Mr. Mills on the point that the

action of the British government in buying all the food has enabled them to eliminate the profiteer. He closed by making the announcement ? the proposed action to regulate the prices paid for all milk products, including condensed milk and powdered milk as

Dairy Commissioners J. A. Ruddick and Mr. Jas. Alexander, of Montreel, the two Canadian representatives on the Cheese Commission last year. were both present but did not design to speak

Committee Appointed.

After the delegation has presented its case a meeting of the large com-mittee which had been instrumental in arranging the program, met and ap-pointed a sub-committee which was given power to represent the cheese industry in reference to any matters concerning which the government or the members of the Cheese Commis-sion may desire information. This committee is as follows: J. A. Camb-bell, Ormond, chairman; Jas. Donakison, Atwood, vice-chairman; J. W. Mo-Leod, Cornwall; J. B. Wilson, Lan-Leod, Cornwall: J. B. Wilson, Lan-caster; Alex. Hume, Campbeilford; H. B. Cowan, of Farm and Dairy, Peterbory; R. W. Hodgins, of Shaw-ville, Que.; J. N. Paret, Cambono; B. B. Faith, Ottawa; J. W. Crews, Tron-ton and T. A. Thompson, Almonto, eccretary, Later Mr. Geo. Leggett, Newboro, the president of the E.O. D. A. was added to the committee.

The Sydney Experimental Station XCELLENT work is being done

at the Sydney Experimental Farm, at Sydney, B.C., conducted by the Dominion Government, the manager of which is Mr. L. Stevenson, B.S.A., son of Mr. R. S. Stevenson, B.S.A., son of Ancaster, the well-known Hol-stein breeder. The neat appearance of the buildings, fences, fields and roads, as one passes this farm on the electric railway from Victoria, B.C., makes a most favorable impression which is increased by a visit to the farm itself. An editor of Farm and Dairy spent some hours on this farm last summer and found that much excellent work is being accomplished although the farm was started only five years ago. It has been under the diyears ago. It has been under the di-rection of Mr. Stevenson only since 1915. A herd of Jersey cattle has been started, a description of which ap-peared in a recent number of Farar and Dairy. It is only a small herd but is being silven good management in comfortable, although inexpensive buildings that are well legated and ventilated and which should enable the herd to give a maximum of rethe herd to give a maximum of results

As the southern and eastern per-tion of Vancouver Island produces large quantities of fruit, considerable attention is being given on the farm to horticulture. In all 23 acres are devoted to horticulture, including 15 used for landscape art and as an arboretum. There are also six acrea of nut orchard. Special attention is being given to ficwering bulbs, garden and vegetable seeds and to test ing fruits.

On the main farm the managen expects to follow a four year rotation expects to follow a four year rotation of wheat, clover, corn, rye and peas. They are specializing in fall seeding. Next year they will have five acres of mangels for seed production and one-half acre of carrots

When a horse out at pasture or in the stall is found staggering in a dopy condition, with the pupils of the eyes dilated, it is usually apparent that he has eaten something that does not agree with him. The eating of the common bracken may be the cause. This disease, and methods of remedying it, is described in Bulletin No. is of the Realth of Animais Branch, and may be had on application to the Publications Branch, Oltawa.

Shipping space to Europe is so scarce that thousands of tons of urgently neededwar supplies are held on North American dockar awaiting transportation. Even though willing to pay double or treble rates, shippers cannot get their goods through,

covered by Mr. Mills on behalf of the British Food Control Board. He did,

however, announce that he believed the request of the farmers to be rep-

sented on the Cheese Commission

Separators Given Priority Over War Materials

FEW weeks ago, under authority of the French government, a shipment of five hundred Sharples Suction-feed Separators was promptly forwarded from here to France. The very next week another order for five hundred Sharples Suction-feed Separators was received and forwarded under similar conditions.

Both shipments were given precedence en route. Munitions might wait. Even food products might wait. But this machine that saves butter fat wasted by every other separator or method, was placed in the very vanguard of life's necessities.

It has been said that not munitions, not even money will win the war-but fats.

The English Government recognizes this. On December 22nd, we received the largest order for Sharples Suction-feed Separators our agents there have ever given us. Immediate shipping space was provided by the English Gov-

And no wonder they are achieving first place-not merely first place among separators but among economic inventions that have made

ernment.



SHARPL

The One and Only Separator

-that will skim clean at widely varying

-that gives cream of unchanging thickness-all speeds. -that will skim your milk quicker when

you turn faster. -with just one piece in bowl-no discs,

easiest to clean.

-with knee-low supply tank and once-amonth oiling.

Sharples is the only separator that automatically and fully prevents cream losses. No matter whether turned fast or slow, the Sharples Suction-feed principle insures clean skimming. Not less than ten pounds of butter per year for every cow is the average saving over any other separator. No wonder they want them in Europe!

See the nearest Sharples dealer at once. He probably advertises in your local paper. If you do not know his name, sak us and we will send it, together with a copy of our 50-page, old-time Song Book in appreciation of your interest, Address Dept. 77 for this information and catalog.

TORONTO, ONT.

THE SHARPLES SEPARATOR CO.

REGINA, BASK.

THE MITCHELL & McGREGOR HARDWARE CO., Brandon, Man.

Distributors for Manisoba To

M Com Wasi news that 5 will be mad silage grow Clark assur-Dairy, when week. "Thi large south meth South White and will come if souri, Kansa south of the

A Sur

is dealing going us the l Purchased T Mr. Clark

there is not

seed corn to normal acres

and Dairy the Canada issue ernmental or zation will b ment Seed Pi ready an orde a St. Louis fir seed corn. I this seed corn mere than abe ture as nearly and of those commonly use Canadian mere all of the corn sacked in two quite permissil orn, under th mixed varieties

Profits of S Last week 7 dertook to take

Cost of F

HE Couned lego has vey on the cost duction in that following conclu The cost of m ear ending Ap cents per quart

There was an \$18.42

The cost of pr farms for the n was 6.29 cents p hundred pounds, yearly rates. The 28 highest

duced milk on t cents per quart, dred pounds, belo ducing herds. The greatest pe

herds with the hig while the smallest 25 lowest producin The 28 highest

showed a profit all production of \$10.5 while the lowest showed a loss of \$ The costs were

producing approximate pounds per cow producing per cow producing per cow producing per constant There is no profit at 4.87 per quart of pounds, the average 178 farmer and profits and pro 178 farms for the

30, 1917. With cow average 6,825 pour dairyman would jus

A Supply of Seed Corn Arranged for in U.S.

500,000 Bushels Will be Available for Canadian Farmers Says Seed Commissioner Clark

R. Geo. H. Clark, Dominion Seea Commissioner, returns com Washington with the welcome news that 500,000 bushels of seed corn will be made available to Canadian enwill be sufficient to cover all our needs." Mr. cient to cover all our needs." Mr. Clark assured an editor of Farm and Dairy, when we met in Toronto last week. "This wower, will be of the large southern kinds such as Mammeth Southern Sweet, St. Charle. White and Bone County White. It was the such states as Magnetic American Such states as Magnetic American. Toronessee, Virginia, or souri, Kancas, Tennessee, Virginia or south of them. North of these states south of them. North of these states there is not more than enough nature seed corn to plant 72 per cent of a normal acreage and the United States is dealing generously with us in giving us the liberal quantity that they have.

Purchased Through Government Commission

Mr. Clark further informed Farm and Dairy that the United States gov-ernment requires that all orders from Canada issue from one central gov-eramental organization. This organi-zation will be the Canadian Government Seed Purchasing Committee. Already an order has been placed with a St. Louis firm for 100,000 bushels of seed corn. It is desired that all of this seed corn be of commercial grades No. 1 or No. 2; shall contain 'not more than about 16 per cent, of moismore than about 16 per cent. or mone-ture as nearly as can be estimated; and of those late varieties that are commonly used for enslage produc-Unless otherwise instructed by Canadian merchants, it is desired that all of the corn be well recleared and sacked in two bushel sacks. It is quite permissible that seed of ensilage corn, under the circumstances, be of mixed varieties.

Profits of Seed Dealers Fixed.

Last week Toronto seed dealers met with Mr. Clark and definitely undertook to take care of the demand for good of ensilage corn for Canada.

Cost of Producing Milk

HE Counecticut Agricultural Collego has recently made some vey on the cost of market milk proction in that state, from which the

Guerton in that state, from which the following conclusions are derived: The cost of milk production on 178 representative dairy farms for the year ending April 30, 1917, was 5.53 cents per quart or \$2.57 per hundred

There was an average loss for the ar per cow for the 178 farms of \$18.42

The cost of producing milk on 179 farms for the month of April, 1917, was 6.29 cents per quart or \$2.92 per hundred pounds, with labor at the

hundred pounds, with lanor at the yearly rates.

The 28 highest producing herds produced milk on the average for 2.06 cents per quart, or 26 cents per hundred pounds, below the 25 lowest producing herds:

ducing herds:
The greatest per cent of pure bred
balls and milk records were in the 32
herds with the highest producing cows,
while the smallest per cent, was in the
25 lowest producing herds
The 35 highest producing herds
showed a profit shove the net cest of
producion of \$10.50 per cow per year,
while the lowest producing herds

while the lowest producing herds showed a loss of \$33.75.

The costs were obtained from herds producing approximately six hundred pounds per cow per year, above the state average.

state average.

There is no profil in producing mills
at 4.87 per quart or \$3.26 per hundred
pounds, the average price received on
178 farms for the year seding April.
30, 1917. With cows producing on the
average 6,525 pounds per year, the
dairyman would just about break even.

They also agreed to handle all seed in car k.ts at a profit of five per cent not and bc. seven and one-half per cent in less than car lots. They be comed a committee among themselves the care of this trade. Letdentally the care of this trade. Letdentally the United farmers Cooperative Co., Ltd., was represented at this meeting and clubs may order their weed through this organization. "I on the part of the Seed Stocks Com-mittee at Washington," said Mr. Clark, "a wholesome desire to do all that could possibly be done to relieve the serious si uation in respect to ensilage corn in Canada."

"And how about the supply of re seed," we asked Mr. Clark.

"There will be a shortage of Sweet "There will be a shortage of Swede turnip seed," was the Commissioner's reply. "Mangels, however, will be plentiful, with the price high in view of future searcity. Mr. Clark them of future searcity. Mr. Clark them and the further information that the search of the search of the further information that the search of the further information that the search of the further information that the search of the further search of the further search of the search of t this year the Experimenal Farms System is undertaking to grow fifty per cent. of the field root and vegetable seed that will be required for Canada in 1920 and the remainder will be grown under the supervision of Prof grown under the supervision of Fro. Klinck and the University of British Columbia. This year the Experiment al Farms are growing 350 acres of root seed which is 25 per cent of the country's requirements. Until this seed becomes available the price of root and vegetable seed will necessar y be

Within | few miles of my home five within the miles of my home five leese forcies have been closed frough the operation of condensed illk fatories. This raises the question, and is likely to happen after a when the demand for conmilk falls off. If the cheese ries go out of business, and the miles and milk fatories later after the work of the miles and the work of the condensed milk fatories later after the work normal the work of the condensed milk fatories later and the work normal the work of the condensed milk fatories later and the work of the condensed milk fatories later and the work of the condense of the conde through down, some new market will have to be found for the milk of the farmers. J. Z. Frazer, Brant County

In Times Like These

many, the wise dairy farmer conserves his time and strength, recognizing that a saving of these puts dollars in his pocket. One of the surest labor savers and money makers on the modern dairy farm is the

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FEEDERS CORNER Conducted by E. S. Archibald.

Feeding Roots to Hogs

44 A RE content broader of such as mangels or sugar beets) good a rake fed for evaleng play along with a rake fed for evaleng play along with good plan to finish them for market by feeding with the above for three weeks clied akins-milk from the datry. Or would you suggest using some other feeding in preference to the above?"—

In the winter feeding above?"—

In the winter feeding of hogs, particularly for young growing pigs, a reasonable amount of succulent feed must be given if greatest returns are to be made on meal or other valuable feeds consumed. Cooked pulped roots, preferably mangels or sugar beets, but in their absence turnips, are undoubtedly excellent not only as a cheap feed, but also in their tonic effect on the young pigs. Fine clover hay for the older pigs is undoubtedly excellent, but for young shoats it con-tains rather too much fibre to be of tains rather too much fibre to see or any great economic value. The farmer should not attempt to feed young growing pigs solely on pulped roots and clover hay. Some grain, and skim-milk, if available, are essential if the proper growth of bone and muscle is be acquired. It has been the cus-m of many farmers to cook fir 4 tom of many clover and alfalfa hay for young pigs, and with the addition of a small and with the addition of a small amount of grain this makes an excellent feed. The economy of cooking any of these feeds depends largely on the cost of the same. An experiment which not only illustrates the value of skim-milk, but also the value of cooking of roots, was conducted at the Central Experimental Farm in 1911. Seventy-five young hogs with an average weight of 85 pounds were chosen for this experiment and were food 60 days on five different rations. To all these pigs a meal ration composed of two parts ground barley, two parts wheat shorts and one part ground oats was fed. Lot No. 1, fed meal and skim-milk, made a total gain of 733 pounds; lot No. 2, fed meal and) ater, made a total gain of 610 pounds; lot No. 3, fed meal and raw pulped man-gels, made a total gain of 551 pounds; lot No. 4, fed meal and cooked pulped turnips, made a total gain of 492 pounds; lot No. 5, fed meal and raw pulped turnips, made a total gain of

401 pounds.
A careful resume of the results of the control of the results of the control of the this experiment showed that 2,025 pounds of meal plus 2,025 pounds of skim-milk was equivalent to 3.156 pounds of meal alone, or 2,900 pounds skim-milk was of meal plus 2,900 pounds raw mangels, or 2,700 pounds meal and 2,700 pounds cooked pulped turnips, or 2.760 pounds meal plus 2.760 pounds of raw pulped turnips. It will be seen from the above that the raw pulped turnips made unexpectedly cheap gains, and that the saving in this particular case over the feeding of cooked pulped turnips was insufficient to for the extra labor and fuel

The outstanding feature of this experiment is the demonstration of the value of skim-milk when fed in limited quantities. It will be seen that 2,025 pounds of skim-milk fed with meal was equivalent to over 1.100 pounds of meal when no skim-milk was given, or was equivalent to 875 pounds of meal and 2,900 pounds of raw pulped manand 2,900 pounds of raw pulped man-gels, or equivalent to 675 pounds of meal and 2,760 pounds of cooked pulped turnips, or equivalent to 735 pounds of meal and 2,760 pounds of raw pulped turnips.

I would advise the party from York County to cook his roots if the cost is not too great, but to feed a limited amount of grain to the growing stock. A finish ration of three weeks, which includes some corn is insufficient.

Generally speaking, the hogs should attain sufficient growth of bone and muscle during the first four and a half to five months and should be finis as quickly as possible .- E. S. A.

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The directo perous year standpoint. feeds and sca but efficient The directors membership a sistance they Department of gratification b work of testin They culosis. Dairies Regula ly came into et that every crea milk handling ing and dealing or cream on must be license ploy a properly tester. In so fa be sized up at judicious prosec result in uniting terests of the properties of t manent footing, lishment of cont

A number of ed by the con-subjects of gene men. A resoluti mittee to try to calves from slaus available in distr of them. By a r

British Columbia Dairymen Hold Successful Convention

Are in Favor of Compulsory Dairy Cattle Insurance to Cover Loss to
Owners of Tuberculous Cattle

T. A. F. Wiancko, Provincial Dairy Instructor.

HE 13th annual convention of the B. C. Dalrymen's Association, held at Chilliwack, Jeb. 6th and was pronounced by all who at-7th, was pronounced by all who attended the most successful that has ever been held. Over 200 dairy farmers were in attendance. many of them coming long distances. The most important feature of the meeting was the resolution dealing with the inportant leature of the meeting was the resolution dealing with the in-demnity of owners for animals slaughtered because of reaction to the tuber culin test. The system of paying but partial indomnity as at present prac-ticed has resulted in great loss to inticed has resulted in great loss to in-dividual dalrymen. A resolution was therefore passed "that this associa-tion petition the Government of Brit-ish Columbia to at once establish compulsory dairy cattle insurance that will provide adequate indemnity for animals squashrored, and be using for animals slaughtered, and be mainfor animals staugatered, and be main-tained by equitable assessments from the provincial government as repre-senting the public and from the own-ers of the cattle. Be it further re-solved that the executive of this as-sociation, appears a committee to pro-Bolved that the executive of this as-sociation appoint a committee to pro-ceed to Victoria and negotiate with the government for the passing of the necessary legislation at this seessin, that will secure the insurance on cultable lines."

equitable lines."
President S. H. Shannon in his ad-President S. H. Shannon in his address congratulated the dairymen of the province on the fact that Canadian championships in bufferiah production in all of the daffy breeds are held by British Columbia breeders, and that she is the home of the Molstein cov. "Zarlida Clothide 3rd De-Kof." the world's champion strictly stein cow, "Zariida Ciothiide 3rd De-Kol," the world's champion strictly officially tested cow in milk produc-tion. Mr. Shannon pointed out the great need for silos on dairy farms this year on account of earcity of millieeds, and expressed the hope that before long every dairy. millieeds, and expressed the hope that before long every dairy farmer in the province would be equipped with one or more silos. He advised the dairy-men to keep in close touch with the pleomargarine situation, so that they could be in position, to that they would be in a position to take the matter of an embargo on its importation up with the government immediately on cessation of hostilities.

The directors reported a fairly pros-perous year from the dairymen's standpoint. The high prices of mill-feeds and scarcity of labor make all recus and scarcity of labor make all but efficient dairying unprofitable. The directors reported an increased membership and referred to the asmembership and reterred to the as-sistance they have received from the Department of Agriculture, particular gratification being expressed on the work of testing for bovine tuber-culosis. They also referred to the Dairies Regulation Act which recent-ly came into effect. This act provides ly came into enect. This act provides that every creamery or dairy or other milk handling establishment accepting and dealing in or paying for milk or cream on the basis of butterfat must be licensed and have in its emmust be needed and have in its em-ploy a properly qualified and licensed tester. In so far as the situation may be sized up at the present time the be steed up at the present time the judicious prosecution of this law will result in uniting the several dairy in-terests of the province into closer and more cordial relationship, and in place ing the dairy industry on a more per-manent footing, through the estab-lishment of confidence between the producer and purchaser.

Resolutions. A number of resolutions were pass ed by the convention dealing with subjects of general interest to dairysubjects of seneral interest to dairy-men. A resolution was passed favor-ing a campaign by the executive com-mittee to try to saye worthy heifer calves from saluzative and make them available in districts ir greatest need of them. By a resolution the conven-tion endorsed the movement for the incial Dairy Instructor.

economic increase of pork production
in the province. In this connection
another resolution was passed, "That
in the opinion of the B. C. Dairyment's
Association, the fixing by the government of a minimum weight at which
hops may be Saughtered in the province, would make it imperative that a
minimum price be paid."

In view of the scarcity and excessively high prices demanded by seed dealers for farm seed, a resolution was passed favoring some effective movepassed favoring some effective move-ment among the members of the as-sociation for the production of farm seed and that some cooperative methods of handling and distributing same be worked out by the associa-tion. It was also decided to ask the government to do all in its power to coherantially analist in the holding of government to do all in its power to substantially assist in the holding of larger fairs during the war with the purpose of encouraging the greater production of live stock which is so badly needed.

Among the speakers who addressed

the convention was Prof. T. A. Boving, who spoke on soils and soil fertility. Prof. Boving emphasized the importance of decimal and molecular con-Prof. Boving emphasized the importance of drainage and moisture conservation and urged the use of liquid manure. J. D. Mickle, State Dairy and Food Commissioner of Oregon, dealt with "Cooperation as Applied to Milk Production and Sale." In the Milk Production and Sale." In the discussion that followed it was shown that the membership of the Pracutation and the producer's Association with the membership of the Pracutation and the producer's Association and the producer's Association and the product of the dairy farmers of the Valley Prof. J. A. McLean, brought before the convention the need for increased pork production. Dr. A. J. Damman of Vanduction. Dr. A. D. Tweedle recommended the work might be done in cooperation. Dr. Dr. Department of Agriculture. Dr. Dr. Sime of the Oregon State Agricultural College, addressed the conventional College and Coll discussion that followed it was shown in Dairy Cartie, and Prof. L. Steven-son gave an illustrated lecture on the "Evolution of the Modern Silo," in the course of which he stated that there are now over 500 silos in B. C. while in 1913 there were but 40 in use.

Officers for 1918.

The following officers were elected

for 1918: Honorary President, A. C. Wells, Sardis; President, S. H. Shan-non, Cloverdale; Vice-President, J. W. non, Cloverdaie: Vice-President, J. W. Berry, Landsoy Fairle: Secretary-Treasure of Winacko, Depart-Treasure of Winacko, Depart-Winacko, Depart-Winacko, Depart-Winacko, Directors-J. M. Storeston: Steveston: Steveston: Steveston: J. H. Moore, Easondaie, G. A. Wells, Sardis; G. S. Harris, Moral-Wils, Sardis; G. S. Harris, Moral-Wils, Sardis; G. S. Harris, Moral-Wils, N. N. Grimmer, Port Washington; N. Hurford, Courtenay; M. Hereron, Kelowas; A. W. Hunter, Armstrong; F. L. Mitchell, Golden.

Legume Hay Versus Grain

NE hundred and seventy-five pounds of good alfalfa or clover hay is a function as 100 lbs. of the ordinary grain feeds. With the present jets for feeds ranging from \$35 at no for brown of 175 lbs. of grain is about \$2.75. he cost of its of grain is about \$2.75. he much hay is \$2.15. he much hay is \$2.15. he much hay ill produce 200 lbs. of milk and effect a saving in feed cost of cents, which is at the rate of 30 cents for each hundred pounds.

The utilization of such hay partly solves the dairyman's problem in these days of high feed cost and milk investigations.—G. E. Weaver, University Farm, St. Paul, Minn.



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

Will Famine Follow War

ILL famine follow war? The time has come for a careful accounting of our food supplies, not only in Canada, but in all of the allied world. He who would even suggest famine a few months ago, was a "calamity howler," a "blue ruin pessimist" if you please. But there is now no disposition in official circles to be unwisely optimistic. The real gravity of the food problem is now coming to be fully appreciated by all thoughtful men. Here are a few of the factors in the situation that challenge attention.

The average wheat crop of the United States for the past five years has been 543,000,000 bushels. The estimated crop for 1918 is 3,000,000 bushels below this average. In Canada the fall wheat crop is not above normal in acreage and is decidedly below normal in condition. Even the greatest estimated increase in spring wheat planted in Canada would not overtake the demand for wheat from hungry European countries. Then in connection with meat supplies it is interesting to note that while in 1917 the leading cattle markets of America showed increased receipts, these increased receipts do not indicate an increased production. In fact, the reverse is the case and too large a proportion of the cattle marketed last year were merely a draft on future supply. In hogs, over all of America in 1917, there was a decrease in receipts on leading markets of approximately 3,200,-000 head as compared with 1916. High prices of mutton also are primarily due to decreased supplies, but in the case of both hogs and mutton, considerable increases are hoped for in 1918.

With the situation before us, there is no room for either despairing pessimism or reasonless optimism. There is, however, every room for active, energetic effort. Both Europe and America are dependent for food on the agricultural output of the United States and Canada. This output depends on the individual efforts of individual farmers. Our Departments of Agriculture and organization committees can help and will help, but back of it all, and determining the success or failure of the production en paign, stands the American farmer. It is indeed his year of opportunity. He alone can avert the threatened world famine. But in accomplishing his great task, let it be remembered that he will do his best work unfettered by legislative disabilities or outside interference.

Take Over Railways

(Grain Growers' Guide.)

HE big railway problem in Canada is not yet settled. Conflicting reports come from Ottawa as to what the government is likely to do but nothing official has been announced. The overwhelming opinion of Western Canada is undoubtedly reflected in the resolutions of the farmers' conventions demanding that all the railways be taken over by the government. Halfway measures will give no satisfaction. If the government takes over the poverty-stricken roads and leaves the C. P. R. to operate as a private concern it will be little short of a national disaster. The business like thing to do would be to take all the roads and put them under the management of the most capable officials of the C. P. R. They have proven that they know how to operate a railroad. To put them under the Railway Commission would be a blunder. If the government takes over all the roads the Railway Commission might well be abolished, as it does not possess the confidence of the public and has not the ability to operate a railway system. Now is the time to make a definite end of railway influence in national politics and to give us war-time efficiency in our transportation facilities.

The Cow Wins

P ROF. Jordan, of Cornell University, one of America's leading chemists, has been investigating the efficiency as food producers of all classes of farm live stock. His conclusions, now published, are flattering to the dairy cow. They show that for 100 pounds of digestible matter consumed, the cow produces 18 pounds of edible solids suitable for human food, while pigs come in second place with 15.6 pounds of edible solids per 100 pounds of digestible food eaten, and beef steers are away down near the bottom of the list with only 2.8 pounds of edible solids for the same amount of food consumed.

These investigations explain why the dairy cow is popular wherever intensive agriculture is practiced. They also explain why dairying always increases as land values reach or pass the \$100 mark. Practical farmers have always known that the good dairy cow will pay for greater labor and overhead expense than any other farm animal; Jordan has furnished a scientific explanation of the cow's efficiency as a money maker. Present conditions may seem to put the dairy farmer at a disadvantage, but in the long run, if he holds on to his herd, he is sure to win out. The efficiency of the dairy cow as a producer of human food is his best guarantee of ultimate success.

Our Duty to the Boys

NTARIO is enlisting 10,000 boys from her high schools for service on the farms. Other provinces are recruiting a proportionate number of farm helpers from the same source. We anticipate that the labor of these boys will be as big a contribution to the winning of the war as the work of several divisions of soldiers. Their worth has already been well proven; for the past couple of years high school lads have been going to the farms, and farmers who have had them declare that they are the best class of help that the city has sent to aid in the work of production. It will be good for the boys, too. Work in the open will make better men of them. The knowledge that they are helping to save the world from famine will teach many of them the joy of sacrifice.

Why not keep these boys on the farms? Many of them will get a taste for country life and country work. And this country needs more farmers; as one agricultural leader puts it, "Men who own their own farms and their own souls." Certainly there should

be lets of room for them in rural Canada. Our population is only about six to the square mile. Only a fraction of our fertile areas are yet under cultivation, particularly in the prairie provinces and in British Columbia. The regrettable fact is, however, that unless these boys are willing to serve a long apprentice ship as casual laborers, and perhaps farm tenants, they will have little hope of owning farms of their own. Farm lands, which should be available for the asking to bona fide settlers, are held up by speculators. Free homesteads that are worth the taking are practically a thing of the past. Good land can be had only by paying the speculators' price, and that price is usually as high as conditions make possible. If we wish to retain on the farm those boys who would like to stay with us, we will have to make farm land more easily obtainable. The best method yet suggested for making the speculator let go is a stiff tax on the unimproved value of land. Such a tax, by exempting improvements, will work to the advantage of every bona fide farmer. Only the speculator will have reason to object to its operation.

If Prices Are to Advance

T is widely rumored that the United States Food Administration is seriously considering the advisability of advancing the maximum price of wheat to two dollars a bushel. If such action is taken across the border, an advance in prices in Canada is almost inevitable. The feeling has been prevalent for some months now that the price of wheat is now fixed much lower than the law of supply and demand warrants. The best evidence of this is the advance in all other lines of coars; grains: such an advance, in fact, that wheat can now be ted as cheaply as any other grain, and there is a danger that much good milling wheat will be fed to stock. The same business considerations that now lead many farmers to feed wheat, may also lead them to seed with oats in the spring on land that would grow spring wheat to excellent advantage.

The most effective way of putting a stop to the feeding of wheat is to put the price where it will not be profitable to feed it. The same action would greatly encourage spring wheat seeding. But if any action is to be taken, especially in connection with the fixing of a price on the 1918 crop, it should be taken now. Farmers are now laying their plans for the crops of the coming season. The price that they expect to get for their wheat will naturally affect the acreage seeded. If an advance is contemplated, now is the time to announce it. It would be the most effective kind of an inducement to a record spring

wheat production in 1918.

Substitutes for Corn Ensilage

N another three months the Canadian corn crop will be planted-if it is to be planted at all. In normal years two-thirds of the necessary seed corn is at this date in the hands of either farmers or dealers. This year practically none has yet been made available. No seed corn is available from Canadian sources. None is permitted to be brought in from the United States. Arrangements have been made through the Seed Branch, it is true, for the procuring of a supply for Canadian ensilage growers, and the majority of farmers will find their needs amply met. If there is only about seventy per cent. of a supply in the United States, however, there is a long chance that many Canadian growers may not be fully supplied. With transportation difficulties such as they are, there is a further chance that shipments may be delayed until too late to be of any use this year. For all such contingencies we must be prepared.

Preparedness in the case of filling the silos may take the form of an extensive use of substitutes for corn. Peas, oats and vetches have been used quite extensively and very successfully in the Maritime Provinces, and in New Ontario. Red clover has been ensiloed in British Columbia, and to a lesser extent in Ontario. Sweet clover has also been used by a fewsin Ontario, and seemingly with good results. Corn will always be the premier silage crop, but it is satisfying to know that if we can't get it, there are satisfactory substitutes.

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makes unfair Taking the milk by conde concerns durin paid in 1918, by-product, wh ture, it would the price of ch be materially place the chee manufacturers other lines of t Incre

We submit if From reports cattle sales and dairy cattle are per cent, h realized in 1917 The price of largely in the c materially incre few months. few months. I Fort William of \$29.60 in car los have been fixed With f dealers profits a ton and for si ton. Even at t shorts can be o Umited quantities sary for the dai more expensive oil cake meal an also have increas

The labor situa almost impossible on account of the ired, to seco

to 40 per cent.

The Memorial on Cheese Prices

As Presented to the Hon. T. A. Crerar, Minister of Agriculture, Ottawa, on February 21st

E, the dairymen of the Province of Ontario in convention as-sembled desire to memorialize the Dominion Government that the price of cheese for the year 1918 be set at a higher figure than that for the

season of 1917.

In presenting this we first wish to point out our deep appreciation of the work accomplaned by the Cheese Commission during the past season. We consider the price set for last year and the price and the price was repertly accepted as a fair resumeration, but owing to the increase in cost of production and manu facturing, it will be necessary for the producer to receive a substantial in-erease in the price of cheese for the coming season.

If the price of cheese is not such that the producer can realize a fair that the producer can realize a last margin of profit, many of our best dakymen will be driven out of the business, and we view with alarm the possible disorganization of Ontario's greatest industry, which has built up by the untiring efforts of half a century. We also wish to call your attention to the fact that to the by-product of the cheese factories can be attributed to a large measure, the number of bacon hogs produced in Ontario.

No selfish motive prompts us in this matter. We feel it a patriotic duty to produce to the utmost of our capacity, but we feel that the production of cheese will materially decline if the price is not arranged to allow for the producer a fair margin of pro-

In addition to all this the producers of milk for the manufacture of cheese are compelled to meet the competition from milk condenseries, milk powder factories, and town and city milk trade, in all three of which there is practically no limit set for the price to be paid for milk, whereas the cheese-milk producer has a price limst set for his finished goods. This makes unfair competition.

Taking the average price paid for Taking the average price paid for milk by condenseries and powder milk oncerns during the year 1917, which prices or ever higher are likely to be paid in 1918, and after making due allowance for the added value of the brysproduct, whey, in choose manufacture, it would seem reasonable that the price of choose for 1918 ought to be maiorially increased in order to emission. be materially increased in order to place the cheese factory patrons and manufacturers on an equal basis with other lines of the dairy industry.

Increasing Costs.

submit for your consideration the following comparisons: From reports of auction of dairy cattle sales and other reliable sources dairy cattle are averaging from 15 to 25 per cent, higher than the prices

realized in 1917.

realised in 1917
The price of feed, which figures
largely in the cost of production, has
materially increased carring the past
fow months. Bran moted fools
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f a ton and for shorts of \$44 to \$45 a ton. Even at this price bran and shorts can be obtained only in very limited quantities making it necessary for the dairymen to feed even sary for the darrymen to feed even more expensive concentrates such as oil cake meal and gluten, etc. These also have increased in price from 30

Labor.

The isher situation is acute. It is almost impossible for the dairymen, on account of the nature of the work involved, to secure competent half in 1916 dairymen will have to pay at

least 25 per cent. more wages for labor than in 1917.

Manufacturing.

On account of the great scarcity of material used in the manufacture of cheese, the cost of manufacturing has been materially increased. This in-crease equals at least one-half cent a pound of chee

It is the opinion of this convention that a higher price for cheese resulting in a reasonable profit to the producer would maintain and stimulate the production which is so essential in this present crisis.

Cost of Production.

To show that the producer has not been getting an undue margin of pro-fit we beg to submit the following statement taken from a press report issued under date of Feb. 11th, by Mr. E. S. Archibald, Dominion Animal Hustandman, of the Central Experimental Farm

"We recently compiled the cost of production in a herd which produced of 500 fbs. per cow, and with feed at present prices discovered that we were scarcely breaking even, although valuing milk at \$2.90 per cwt." The average prices realized by dairy-men supplying milk to cheese factorles last year ranged from \$1.65 to \$1.85 per cwt., according to districts and methods of handling the milk.

In another press report issued by the Dominion Experimental Farm last week we find this statement:

"In one investigation conducted on 25 dairy farms keeping an average of 460 cowe, the average profit per cow per year was \$8.23, while out of 25 dairies 28 per cent reaped no profit at all."

The overhead charges average dairy farm have increased in average dairy farm have increased in the past year by at least 25 per cent. We would also suggest that one member of the cheese purchasing commission for 1918 be a practical

We wish to assure you, Sir, that our sole object in asking for this in-crease is to stimulate production. In this matter the dairymen are willing this matter the dairymen are willing to cooperate with the Government. Is the Government willing to cooperate with the dairymen.—J. A. Campbell, T. A. Thompson,

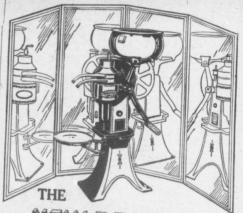
Fraser Valley News

N sending Farm and Dairy a copy of their constitution and by-laws, Mr. C. E. Eckert, Secretary of the Fraser Valley Milk Fraser Valley Milk Producers' Association, writes as follows:
"We have introduced two new fea-

tures, which I think are very attractive to our members. One with reference to our election of directors. In stead of voting by proxy, where a few men vote the entire membership, we shall hold an election at each local. shall hold an election at each local, where every member may register his vote for the full number-of directors to be elected. This makes the board the real choice of the membership.

"Then we have set aside 10 per cent. of our capital to be used for the purof our capital to be used for the pur-pose of redeeming a members' stock, or share, in case he becomes a non-producer. For renters or others who are in the dairy business temporarily, this affords a sure way of securing the benefits of members and a return of their capital when they retire from the business."

Two varieties of sweet corn, Golden Bantam and Stowell's Evergreen were tested by the Experimental Union in iested by the Experimental Union in Contario last season. The former was ready for the table in \$4 days, the latter in 164 days. Golden Bantam too scored higher in number of early flavor and fulciness. As a table corn flavor and fulciness. ns to be in a class by itself.



NEW DE LAVAL CREAM SEPARATOR

Every Reflection Shows Perfection

TIEWED from every angle, the De Laval is distinctly in a class by itself. It has a business-like appearance. It looks as if it were well made, and it is. It looks sturdy, and it is. There is no make-believe about it anywhere, from the wide-spreading substantial base to the solid, seamless, symmetrical supply can.

It's no wonder that big dairymen and creamerymen who have for years made a careful study of dairy methods and machinery refuse to consider any other separator but the De Laval. They know that from every angle—clean skimming, ease of operation, freedom from repairs, durability—there is no other cream separator that can compare with the De Laval.

They know that it has a record of 40 years of service behind They know that it can be depended upon. They know that they can't afford to take chances with any other cream separator-

And neither can you.

Order your De Laval new and let it begin saving cream for you right away. Remember that a De Laval may be bought for each or on such liberal terms as to away its sown cost. See the laval seem, of if you don't know him, write to the nearest De Laval effice as below.

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When Writing Mention Farm and Dairy



OULD'ST thou first pause to thank thy God for every pleasure, for mourning over griefs thou would'st not find the leisure.—Ruckert.

The Heart of the Desert

(Continued from last week.)

THE two men mounted and gal- God help that Indian when I get loped along the mesa wall, looking for an ascent. Neither of them spoke but both were breathing and through his blistered skin DeWitt's cheeks glowed feverishly. For a mile up and down from the fissure the wall was a blank, excep for a single wide split which did not come within fifty feet of the ground After over half an hour of frantisearch, DeWitt found, nearly three miles from the fissure, a rough spot where the wall gave back in a few narrow crambling ledges.

"We'll have to leave the horses," he said, "and try that,

Jack nodded tensely. mounted, pulled the reins over the horses' heads and started up the wall, John leading, carefully. One bitter lesson the desert was teaching him: One bitter haste in a hot country spells ruin! So, though Rhoda's voice still rang in his ears, though the sight of the slender boyish figure struggling in Kut-le's arms still ravished his eyes, he work ed carefully.

The ascent was all but impossible The few jutting ledges were so nar-row that foothold was precarlous, so far apart that only the slight backward slant of the wall made it pos sible for them to flatten their bodies against the crumbling brown rock and thus keep from falling. They toiled desperately, silently. After an brown rock thour of utmost effort, they reached the top, and with an exclamation of exultation started in the direction of the fissure. But their exultation was short-lived. The great split that stopped fifty feet from the desert floor cut them off from the main mesa. They ran hastily along its edge but at no point was it to be crossed. Shortly DeWitt left Jack to follow it back and he hastened to the mesa front where he made a perilous descent and returned with the horses to Porter

That gentleman forced John to eat some breakfast while Carlos hastily to scour the mesa front to the west. Porter and the Mexican had captured two of the horses and the burro that the Indians had left. The burro that the Indians had left. The other horses had run out into the desert back to the last spring they had camped at, Porter said. To De-Wift's great disappointment, the horses carried only blankets, and the burro was loaded with bacon and four. They was now of blank There were none of Rhoda's flour. personal belongings. The animals were in good condition, however, and the men annexed them to their outfit gladly

John was torn betwixt hope and bitter disappo'ntment.

"Do you think they could climb out of the fissure?" he asked half a dozen times, then without waiting for an an-swer. "Did you see her face, Billy? I had just a glimpse! Didn't she look well! Just that one glance has put new life in me! I know we will get her! Even this cursed desert isn't wide enough to keep me from her! found at the bottom in a burlap bag." He tossed one of Cesca's pitch bas-kets at Billy, then threw himself in the sand "They were down off the mesa,

bet," he went on, "before we fools found the way up, and it was easy for the chap they left guarding the en-The mesa is covered with big rocks."

"He got away within the last half-hbur then," said Billy, "for I didn't stir from this spot until the burro started to eat the grub pack, and I naturally had to wrestle with him.
And no human being could a got out
the front even then."

"God! What a country!" grouned Witt, "The Indians outwit us at DeWitt. every step!"
"Well," Ja

Jack answered dejectedly. "tell us what we could have done dif-

ferently. "I'm not blaming any one," replied

John. Billy Porter rose briskly

"You boys quit your kicking. The scent is still warm. You sollows get a couple of hours sleep while I take the horses back to Coyote Hole for water. By day the we got to be on the south side of the mean to pick up the trail.

Billy's businesslike manner heart-ened Jack and John DeWitt. They turned in beside Carlos, who already as sleeping.

Dawn fouad them examining the ascents on the south side of the mesa but they found no traces and as the sun came well up they followed the only possible way toward the moun-

When the Farm Driver Fills the Capacity of a Lawn Mower. It is a treat for the farm driver to be allowed to nibble the tender grass while grows on the lawn. The illustration herewith was taken on the hearn of Mr. Pracer, Huron Co., and shows Mr. Dave gring allowed and driver an "extra special" new mak.

matter of finding their trail again. We'll have 'em! It's just this chance crack that saved 'em. If you're rest-ed, ride along the west wall and try for the top again." For the next five hours,

they have got out, though, it's just a

Porter kept his eyes on Alchise's rifle which had never wavered in the

"I've a notion to shoot the barrel of that thing just for luck!" he growled. "John, sit down! You will need all the strength you've got and then some before you catch that Innotion to shoot the barrel

"What are you going to do?" asked John, seating himself in the sand some few feet from the fissure.

"The big probability is," said Billy "that they are in the crack. It

would be just about impossible for a girl to climb out of one of 'em. If

past three hours

guarded the mesa front alone. It was nearing six o'clock when Jack re-turned, exhausted and disappointed. He had followed the great split back until the mesa top became so cut and straited with mighty fissures that progress was impossible.

"Isn't it the devil's own luck," he growled to Porter as he ate, "that we should have let him get into that one crack! What next! Unless they are still in there, we've lost them and are just losing time squatting here.

As he spoke, there was a sound of voices in the fiseure. The two men cocked their rifles as John and Carlos emerged from the opening. John was scowling and breathless.

"Lost 'em as usual, by our infernal stupidity," he panted, while Carlos dropped his empty canteen and lifted Porter's to his lips. "I rode round to the south of the mesa. There are a couple of possible ascents there. found Carlos making one. We followed a dozen fissures before we located this one. We got into it about a mile back from here. Here's a basket we

At noon they found a low tains. spring in a pocket between mesa and mountain. Kut-le was growing either defiant or careless, for he had left a heap of ashes and a pile of half-eaten desert mice. Very much cheered they allowed the horses a fair rest. found no further traces of camp or trail that day and made camp that night in the open desert.

At dawn they were crossing a heavily wooded mountain. The sun had not yet risen when they heard a sound of singing.

"What's that?" asked DeWitt sharply, as the four pulled up their horses.
"A medicine cry," answered Jack.
"We must be near some medicine-"We must be near man's campos."

"Come on," cried DeWitt, "we'll quiz them!"

"Hold up, you chump!" exclaimed Billy, "If you rush in on a cry that way you are apt not to come back

way you are so to to co at 'em care-again. You've got to go at 'em care-ful. Let me de the talking."
They rode toward the sound of the chant and shortly a dingy campos came into view. An Indian buck made his way from the doorway toward them.

'Who is sick, friend?" asked Billy. "Old buck," said the Indian. "Apache?" said Billy.

The Indian nodded.

"You sabe Apache named Kutle?" The buck shook his head, but Billy ent on patiently.

Yes, you sabe him. He old Ke-"Yes, you save him. He out off with white squaw. We want squaw, we no hurt him. Squaw sick, no good for Injun. You tell, have money." Billy displayed a silver dol-

The Indian brightened.

"Long time 'go, some Injun say he sabe Kut-le. Some Injun say he sil same white man. Some Injun say ha heap smart." He looked at Billy inquiringly, and Billy nodded approval. DeWitt swallowed nervously. "Come two, three days 'go," the buck went his eyes on the silver dollar, Injun, carry white squaw, go by here very fast. He "o that way all heap fast." The buck pointed south.
"Did he speak to you? What did

e say?" cried DeWitt. But the Indian lapsed into silence and refused to speak more. Porter felt well rewarded for his efforts and

tossed the dollar to the Indian. "Gee!" said Billy, as they started elated down the mountain. "I wish we could overtake him before he out-fits again. That poverty-stricken lot fits again. That poverty-stricken dot couldn't have had any horses here for him to use. I'll bet he makes for the nearest ranch where he could steal a good bunch. That would be at Kelly's, sixty miles south of here. We'll hike for Kelly's!" This idea did not meet with en-

thusiastic approval from the other three but as no one had a better suggestion to make, the trail to Kelly was taken. It seemed to John DeWitt that Billy relied little by science and much on intuition in trailing the Indians. At first, considering Porters early boasts about his skill, DeWitt was much disappointed by the old-timer's haphazard method. But at ter a few weeks' testing of the ter-rible hardships of the desert, after a few demonstrations of the Apache's cleverness. John had concluded that intuition was the most reliable weap on that the whites could hope to dis-cover with which to offset the Indian's appailing skill and knowledge

It was an exhausted quartet with its It was an exhausted quarter with its string of horses that drew, up at Kelly's dusty corral. Dick Kelly, a stocky Irishman, greeted the strang-ers pleasantly. When, however, he learned their names he rose to the oc casion as only an Irishman can.

"You gentlemen are at the end of your rope, wid the end frayed at that!" he said. "Now come in for a few hours' rest and the Chinaman will cook you the best meal he knows

"Lord, no!" cried Billy. close on the track now that we can hang on to the end. If you've had no trace here we'll just double back and start from the mountains again!"

By this time a dozen cowboys and

ranch hands were gathered about the newcomers. Every one knew about Rhoda's disappearance. Every one knew about every man in the little search party. In the flicker of the lanterns the men looked pityingly at DeWitt's haggard face.
"Say," said a tall, lank cowman,

you'll go in and sleep till daylight, usn'll scour this part of the desert with a fine-tooth comb. So you all won't lose a minute by taking a little rest. An' if we find the Injun we'll string him up and save you the

DeWitt spoke for the first time.
"If you find the Indian," he said uccinctly, "he's mine!"

There was a moment's silence in the These men were familiar with elemental passion. DeWitt's feeling was perfectly correct in their eyes. The pause came as each pictured him-self in DeWitt's place with the image of the delicate Eastern girl suffering who knew what torments constantly before him.

"If Mr. Kelly can arrange for that," (Continued on page 16.)

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A woman w loaned one of mixer, as thi twice a week sides many ot a baby to car returned from mixer was re This was a su her neighbor her neighbor her on her pe "What was the mixer?" asked just returned "Oh, nothing so used to kne

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The Upward Look

The Pains God Takes

ATSOEVER thy hand find-eth to do, do it with thy eth to do, do might.—Ecc. 9:10.

At an illustrated lecture recently, I At an illustrated lecture recently, is had an introduction to the minute animal creatures that are by no means popular in our land—those responsible for, and producing diseases among domestic animals, from east to west in our Dominion.

There they were shown most clearly on the slides, swimming gayly around the tiny blood corpuscles, clinging tenaciously to the hides, or shown doing their desperate work in many a different way. They were many a different way. They were magnified to such an extent that one could see clearly how minutely, ex-quisitely and beautifully they were Thus has the Mighty Creator of our vast universe seen best and fit, to take such infinite pains with these

It sent me back with fresh energy and determination to the ordinary tasks of every day. It must be right in God's sight, that we also must do, to the best of our ability, every duty, no matter how insignificant, that is ours to do

Not only is it our duty to make the results durable, but also as inviting and attractive as we can. It is not only the pleasant work that we must take these same pains with, but the disagreeable and the trying and the

No one can estimate the important results that may depend on the right doing of trivial duties. Whether or not important results may be the out ome of trivial duties performed, they are worth doing well.

There is especial need for painstak-ing and conscientions work, in all that pertains to religious and philanthropic work. The seemingly unimportant and insignificant there too need the painstaking and skilful hand and heart, mind and soul.—I. H. N.

Are We in a Rut?

With the Household Editor,

is surprising is it not, how easy it is to get into a rut in connection with our household duties? So much so that even if new ways of do-ing things are brought to our attention, we do not try them out. If askad the reason why we do not take kindly to the new methods, we may find it rather difficult to give a good sound reason, except that we have always been accustomed to doing things certain way. A little incident which came to our attention recently to prove our contention that it is hard to move out of the beaten path.

A woman who expected to be away A woman who expected to be arrived from home for two or three months, loaned one of her neighbors hed to below mixer, as this neighbor had to be twice a week for four hearty men, besides many other household duties and a baby to care for. When the womay returned from her visit, the bread mixer was returned to her without having been out of its wrappings. This was a surprise to the woman, as her neighbor had often complimented her on her perfect bread-mixer bread. "What was the matter with the bread mixer" saked the woman who had just returned from her visit. "Oh, nothing," was the reply. "I'm so used to kneeding my bread, and the boys like its overlined, as she boy woman stouped confused, as she reply." its wrappings. having been out of

boys like it so well, asis—" The neighbor woman stopped confined as she found she could give no sound reason for not having made mae of the mixed. How many of us could be mixed guilty of the same offens it formulated by some of our friends? We are making a big mistake if we do not use every up-to-date method of doing our work efficiently, on which we can lay our hands. We should also grasp soury opportunity of seering labor sway opportunity of seering labor every opportunity of securing labor saving devices which will help us to

get through our work more quickly. very stroke of work which we can make machinery do for us leaves just that much time for us to do other things. We can then find time and things. We can then the energy to do our share of reading, visiting, church work, attendance at visiting, church work, attendance at the energy of our paigh. visiting, charten work, attendance at meetings of the women of our neigh-borhood, entertaining of our friends and to get more rest than will be possible if we still cling to old meth-Let us resolve that we are going to advance with the times in which we live, and that no one will have an op-portunity to accuse us of living in "a

Am I Wasting Anything

OTWITHSTANDING the many appeals which are being sent out through all parts of our Dominion to practice thrift, there is much wastage going on. Many o Many of us are economizing to a large degree, but there are others who claim that they are not wasting things, simply because they do not yet realize what saving

Waste is simply not saving things which are useful. It arises largely from the fact that we do not know what things are useful. Our great national ignorance is in connection with things which now go into the dis-card. The waste of these things is so great that if it could be itemized aggregated it would stagger and aggregated it would starger us. When we read, not long after the war broke out about the Germana commandeering eavetroughs, old kettles, and roofing, and even church images, and roofing containing copper, for the making of munitions; whose we have the containing the containing the containing copper, for the making of munitions; whose we have the containing the containing copper, and about these agents are contained. read about them saving grease and rags, any waste paper and old rubber, even the rubber tips of pencils; when we read of them being put on strict food rations—we thought we had them aten. But it is this great national onomy that has saved Germany unbeaten. til the present time.

Advice which comes to us from the Food Controller's Department points out that saving of food, reduction of waste, substitution of other things for things essential to our allies, are part of the gospel of war-winning. So is another form of production. Saving is another form of production. We cannot always produce, but we can always save. The thing that is saved takes the place of the thing that cannot be produced. Here are some of the ways in which much food is wasted:

In peeling potatoes, the loss is 20

In stale bread bread crusts.

In table crumbs. In kitchen garbage.

In the fats of meats. In meat and chicken bones

In the sour milk and buttermilk, that is thrown away. which we neglect to render.

In eating more than we really need. In eating the wrong kinds of food. In frying meats and not saving the

In not substituting other foods for the beef, wheat and bacon, which are needed overseas.

In improper cooking. In feeding too much protein (albi men in eggs and gluten in flour) to old persons and persons of sedentary

In keeping too many domestic pets, which consume good food.

In leaving food uncovered to be wasted or spoiled by vermin.

Some Uses for Newspapers

E are continually being advised to save all papers to save all papers in our homes, in order that they may be sold for Red Cross purposes. This is a splendid way of disposing of the paper splendid way of disposing of the papers which ason pile up in the home. In our seal to save all possible in the ald of Red Cross, however, let us not overlook the fact that there are many ways in which we tan make use of newspapers in the kitchen to make our work easier. So let us save a low out of the pile in order to have them on hand as kitchen some of their uses: hen helpers. Here are

Cooking pans are unpleasant things to clean at any time, and by wiping them out with newspapers before washing, they are more easily clean-

Wipe the greasy stove immediately after cooking or frying with news-paper, and keep it looking bright and

Clean,
Spread newspapers on the kitchen table while preparing meals, and thus save much scrubbing of the table.
Wipe the mud from boots and shoes

with paper before it dries. with paper before it dries.

Newspapers spread on shelves in
the pantry or kitchen can easily be
renewed, and in this way the shelves
may be kept neat and fresh looking.

A coat hanger may be improvised
from a newspaper by folding it
through the conter and continue fold.

through the center and continue fold-ing or rolling until it is a compact plece about three inches wide. Bend it downward in the middle and tie with a cord, forming a loop. It will answer the same good purpose as a hanger of wood or metal.

These are but a few of the many uses to which newspapers may be put.

Use the Bean Pot Frequently

HANS are rather a scarce article. but those of us who are fortun-ate to have them of our own growing or have been able to purchase growing or have been able to purchase them, will find them very palatable and nutritious. Beans have been de-scribed as "the poor man's beef," but they may well take the place of meat nowadays in all our homes. They contain almost all the necessary ingredients to build up the tissues of the body, and supply heat and energy. The only principle beans lack is fat, and for this reason it is a good plan to serve some fatty food with them, such as bacon. m, pork or a sauce containing While pork or bacon are conbutter. butter. While pork or bacon are con-sidered pretty well out of the running these days, it does not require much of either to serve with a good sized dish of beans, but a butter sauce will

also answer requirements nicely.

Beans require long and slow cook ing, and are the better for soaking over night. It is claimed too that when cooking beans, if a pinch of bak-ing soda is added, it will add to the digestibility of the beans. Herewith are a few bean dishes, any one of which will make a good foundation dish for a meal. Boston baked beans, if prepared as follows, are recommended as being particularly appetizing and nourishing.

Boston Baked Beans Pick over one quart of dry beans, cover with cold water and soak over night. In the morning drain, cover with fresh water, heat slowly (keeping water below boiling point) and cook until skins will burst. Drain. Scald rind of one-half pound of fat salt pork, scrape, cut in one-fourth inch slices and put in bottom of bean pot. Cut through rind of remaining pork. Put beans in pot and bury pork in them, leaving the rind exposed. Mix one tablespoon salt, three tablespoons melasses and one tablespoon sugar; add one cup boiling water and pour and one cup obling water and pour over beans, then enough more boiling water to cover beaus. Cover beau pot, put in over and bake slowly six or eight hours, uncovering the last half hour of cooking, so that rind may become brown and crisp. Add water as needed while beans are cooking.

Lima Beans. These make a most delicions table served either with melted but-ter or with cream. Soak one cup dried beans over night, drain and cook in boiling water until soft; drain, add three-fourths cup cream and season with salt. Reheat before serving, or with sail. Reneat before serving, or instead of the cream use enough but-ter for seasoning. Any kind of dried beans may be treated in this way, but probably the Lima bean possesses choicest flavor.

Boston Roast.
Two cups dried beans; one cup bread crambs; two cups grated choose;

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with 100,000 miles of spiendidly equipped road, traversing and opening up a hundred thous-and square miles of magnifi-cient country—forest and stream—prairie and mountain.

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opens the new, interesting and scenic route between Eastern and Western Canada, with con-nections for all principal points in Canada and United States.

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or "opportunities" booklet, time-tables, fare and information, any N.R. ticket agent, or write Gen-al Passenger Depts., Toronto, Montreal or Winnipeg.



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By the Oldest and Most Reliable School of Music in America—Established 1895, Plano, Organ, Violin, Mandolin, Guitar, Banjo, Etc.



refiners or advanced players. One essen weekly sustrations make everything plain. Only superage out 20, per day to cover cost of pessage and muse ng in full American School of Music 55 Lakeside Building, Chicago









material. Price so moderate that anyone can buy. Our low priced welded steel sap pans may interest you

WRITE US THE STEEL TROUGH & MACHINE CO., Limited 145 Jarvis Street, TWEED, ONT.

MADE IN CANADA Bread is the cheapest food known. Home bread baking reduces the high cost of living by lessen-ing the amount of expensive meats required to supply the necessary nourishment to the body.

REFUSE SUBSTITUTES.

E.W. GILLETT COMPANY LIMITED



Two .ups cooked beans; one and one-half cups stale bread crumbs; two tablespoons butter or butter substi-tute; three-quarters cup milk; three-quarters teaspoon salt. Press the beans through a fine strainer. Add the milk and arrange alternate layers of bean pulp and buttered crumbs is a buttered baking dish. Cover with buttered crumbs and bake in a moder Cover with ate oven 45 minutes. To butter the crumbs, melt butter and stir crumbs into it, thoroughly mixing them. This may be served with tomato sauce, made as follows: Tomato Sauce.

Two tablespoons butter; two tablespoons flour; one cup tomato juice; one-half teaspoon sait; one-quarter teaspoon pepper. Cook tomatoes un-til soft, and press through strainer, or use canned tomatoes. Melt butter, add flour, mixing thoroughly, then add the hot tomato and bring to boil, stirring constantly. Add seasoning and serve. A little chopped parsley, a few cloves or bay leaves may be added to the tomato while cooking the first time

Get Schools to Take a Hand

M R. W. H. Stevens, Public School letter to the teachers in the district of Victoria Co., Ont., urges that an effort be made by them and their pupils to raise foodstuffs during the current year. Mr. Stevens advised the teachers to organize a club in the school for the purpose of raising food stuffs, either on part of the school grounds or on a plot near by. He adds

"Act as Honorary President, and elect the other officers from among the pupils. Work up all the enthusithe pupils. Work up all the enthusi-asm possible. Beans, carrots, pars-nips, tomatoes, potatoes can easily be raised. There should be no trouble to secure the ground and the seed. This plan should work in cooperation with the school fairs and Mr. A. A. Knight, the Agricultural Representa-tive, will offer school prizes for collections from these plots, in connection with the School Fairs. This work is not intended to interfere with home plots nor with any other activity

"All extra food that can be raised will be needed and every little that can be raised and used at home will release something that can be sent to Europe to supply our own brave boys who are doing such noble work in fighting for us at the front."

M ONDAY—we'll say is our "Heat-One cinder, one flicker, one coal

Tuesday—well—this is our "Meatless Day."

One oyster, one herring, one sole.

Wednesday—oh, this is our "Wheatless Day,"

One corn cake, one dodger, one scone.

scone.
Thursday—we must have a "Sweet-less Day,"
One pickle, one lemon, one bone.
Friday—will make a good "Eatless Day,

One cheerful and glorious fast. Saturday—call it a "Treatless Day," For all reciprocities past. But Sunday-may Hoover forgive us,

we pray,
If we should all happen to feel
little more hungry than usual today, And once again eat a square meal.

The Heart of the Desert (Continued from page 14.)

said Jack, "I guess it will about save our lives. I'de-like a chance to write a letter to my wife." "You ought to go back to the ditch,

Jack," said DeWitt. "Porter and I will manage somehow."

Jack gave DeWitt a strange look "Rhoda's a lifelong friend of mine. She was stolen from my home by my friend whom I told her she could trust. Katherine and the foreman can run the ranch."

By the time that the four had wash-ed themselves. Kelly had his men dotted over the surrounding desert. For the first time in weeks, the searchers sat down at a table. De-Witt, Porter and Newman were in as-tonishing contrast to the three who had dined at the Newman ranch the night of Cartwell's introduction to Porter. Their khaki clothes had grad-ually been replaced by nondescript garments picked up at various ranches. DeWitt and Porter boasted of corduroy trousers, while Jack wore overalls. On the other hand, Jack wore a good blue flannel shirt, while the other two displayed only faded gingham garments that might have answered to almost any name. All of them were a deep mahogany color, with chapped, split lips and bleached hair, while DeWitt's eyes were badly inflamed from sun-glare and sand

They ate silently, Dick Kelly, sit-ting at the head of the table, piled them with food and asked fetions. DeWitt's shaking hands told him that questions were torture to the poor fellow. After the meal Kelly led them to hed at once, and they slept without stirring until four o'clock in the morning, when the Chinaman called them. Breakfast was steaming on the table.

"Now," said Kelly, as his guests ate, "the boys didn't get a smell for ye, but we've a suggestion. Have you been through the Pueblo country yet?" "No," sadd Porter. "Well," the host went on, "Chira is

the only place round here except my ranch where he could get a new outfit. He's part Pueblo, you know, too. I'd start for there if I was you." Carlos entered to hear this sugges

"I've got a friend at Chira," he said

who might help us. He's a half-

The thed men took eagerly to this forlorn hope. With all the population of the ranch, including the cook, gathered to wish them Godspeed, the four started off before the sun had more than tinted the east. Kelly had offered them anything on the ranch, from himself, his cook and his cowboys, to the choice of his horses. His guests left as much heartened by his cheer fulness and good will as they were by the actual physical comforts he had

The trail to Chira was long and hard. They reached the little town at dusk and Carlos set out at once in search of his friend, Philip. He found him easily. He was half Mexican, half Pueblo. He and Carlos chatted brisk-ly in hybrid Spanish while the Amerians watched the horses wade in the little river. Visitors were so com-mon in Chira that the newcomers attracted little or no attention.

Carlos finally turned from his

friend.

"Philip does not know anything about it. He says for us to come to his house while he finds out any-thing. His wife is a good cook."

(To be continued.)

The late John Campbell, of Wood-ville, used to fatten export steers without feeding any grain at all," re-marked Prof. Geo. E. Day, in a recent address. "He used first class clover-hay and turnips and his steers went to market in good condition."



DOES IT PAY TO SOW GOOD SEED?

Possibly not one farmer in a thousand would deny but what it pays te sow the finest plumpest grain we can secure. But do we actually do it. Must of ut think it amoust a crime to use a serub buill on a good herd, or an inferior get the best some good poultryman has in his.

But when it comes to selecting seed grains (the very foundation for a good crop), we are often quite easeless. This years with the scarcity of labor deavoring to make this easily possible for every farm home we are for addition to the advertisements of our big seed houses, we will publish in the next few weeks.

"The Farmers' Grain Exchange"

Refer to this column each week. It will give the names and addresses many of our best saed growers in Ontario. If you need choice seed of e best varieties, write these men? Do it early as this year the supply of st seed grain—Oats, c@m. clover, potatocs, etc., will be limited.

Farm and Dairy

Peterboro, Ont.



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THIS is the WAR FLOUR of the OGILVIE MILLS—a loyal product to conserve Canada's resources and, at the same time, give the public the best possible flour that can be milled according to the Government standard.

This War Flour is excellent in quality and flavour—but it is slightly darker in color than "ROYAL HOUSEHOLD" to which you have been accustomed.

It is just as hard for us to give up milling "ROYAL HOUSEHOLD" as it will be for you to forego your favorite brand; but our "STANDARD" Flour will nevertheless make delicious bread, rolls, biscuits, cake, pies and pastry. If you have any difficulty—just drop us a line; we have a staff of expert chemists and bakers, whose experience is at your service.

Just as soon as the Food Controller will allow us to mill "ROYAL HOUSEHOLD" again, we will tell you of this happy fact.

In the meantime, the new regulations—being in the best interests of Canada and the British Empire—demand the whole hearted support of the Millers and the Public.

Certain stores and dealers have stocks of "ROYAL HOUSEHOLD" still on hand. In order to avoid any confusion or misunderstanding, all "STANDARD" FLOUR will be plainly branded as such.

When all your "ROYAL HOUSEHOLD" is gone, make sure of getting the next best grade by ordering

OGILVIE'S STANDARD

Grocers everywhere have it,—don't forget to stipulate, "OGILVIE'S". It will be your surest guarantee of the highest grade obtainable.

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These engines are the perfected oduct of years of study and extended to the perfect of the perfe

GOOLD, SHAPLEY & MUIR CO., LTD. rantford, Winnipeg, Regina, Calgary.

Narrower Skirts and Shorter Coats

Farm and Dairy patterns shown in these columns we especially a pared for Our Women Folk. They can be relied upon to be the la pared for Our Women Folk. They can be relied upon to be the la sending your control of the partern which we sending your measure adults, for children, and the number of the pattern wastern are filled within one week to 16 days after receipt. From of all patts to Our Women Folk, 10 cents each. Address orders to Pattern Dept. For and Dairy, Peterboyo, Out.



EBRUARY may seem rather early to be thinking of spring suits and costs, think in the thinking of spring suits and costs, the thinking of spring suits and costs, and the suit of the suits of the suits

will be noted by the small back view, it is very piain in the back, thus taking is very piain in the back, thus taking a very piain in the back, thus taking half of the piain to the piain the piain to the piain to the piain to the piain the piain to the piain t

large, 40-42; extra large, 45-48; inches puer measure. 1634—Child's Dress. — The little dress here shown can be made up to look quite here shown can be made up to look quite large many. Or if desired high neck and long many. Or if desired high neck and long to the look of the look of the yoke is the distinctive feature showt this dress. Pive sizes: 6 mos., 1, 2, 4 and 6 wars.

Your is not considered to the constant of the

is fashioned. Five sizes: 4, 5, 8, 10 and 13 years.

2013—Boy's Coat.—We must not forget the little man of the house, as he received the size of the little man of the house, as he doubt many of our little men require new spring overcoath, and herewith we show a style that is simple and yet attractive. Proceedings of the little size of

A FORTUNE IN POULTRY



Increase your egg Choice Cock or Cockerel

of our high record Rocks, Wyandottes, Leghorns or Reds. 1918 Mating List con-taining 65 photos of stock, buildings. Feed and topic formulas

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30 CENTS FOR CHICKENS 25 Cents for Old Hens

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A a milk erres and recovery and the second second second second second with the second seco



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150-Acre Dairy Farm \$3500 10 Cows, Pr. Horses

Hay, tools and machinery in-cluded, by aged owner, if taken Easy terms to right man. 26-cow pasture, 100 acres fertile tillage, abundance apples, wood and timber. Maple sugar grove. Good 8-room house, 20-cow barn, poultry and ice houses. On good road in beautiful, prosperous farming section. Details, prge 20, Strout's Bargain Catalogue. Copy mailed free

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FOR SALE—Privet, Barberry, Cedara Spruce, Pines, Oaks, Chestnut, Wainut Mulberry, for hedges, Windbreaks, Tim-ber, mailing size. Prepaid. Dozen same variety, one dollar; hundred, five dollara, lasts free. John Downham, Strathroy,

A FIRST-CLASS CHEESEMAKER WANTED by The Ideal Cheese & Butter Company, Ltd., Northumberland Co. Tenders to be in by March 4th, 1918. Apply stating references and salary to Alf. O. Cliffo, Sec., Norbam, Ont.

The Fa

(0 or sawd with a v insulate The A

double 2 which ha dings. P ply tar p mon bear sheeting that it car the plate rafter on be 2 x 6 1 the studdi to the raft so that m may be Rafters 2 cording to should be about 18 in Paper and lap on the sawdust or roof board with

The door end and ex collar tie. tions may double doo. groove prov tween the d sawdust or the ice whe about 10 in. lator should end as close Paper on the inside so the the paper.

A Boost W. Wad

DO not k satisfactor or operate churning of b ed by a capa terested man pose. The ci nearly as goo butter as the a competent hold the posit his whole tim that reason sh He has the op different lots paring each lo of the market portunity of a ity of the diff and from the v soon becomes

Then too, it the sale of bu and seller. Ti and seller. The butter and shadence that he (which he ouyer is to be the buyer can ter on the soor of considerable

The Makers' Corner

The Farm Supply of Ice Should be Stored Now

(Continued from page 3.)

or sawdust are used in connection or sawdist are used in connection with a wooden structure, while cork or mineral wood are made use of to insulate concrete or tile buildings. The Arctic loe Company of Winni-

peg, recommends for farmers an ice peer, recommends for tarmers an recommends for tarmers an recommend of the follows: Place a double 2 x 10 inch still on the ground, which has already been levelled up to receive 1. Erect 2 x 10 inch studings. Place two ply of tar paper on the outside of the studdings, and the studies of the studings. The cover with shiplap or siding. cover with suppay or siding. One ply tar paper is placed on the stud-ding inside and covered with com-mon beards (cedar preferred). Fill the wall with mill shavings as the sheeting is being put on inside, so that it can be rammed in hard up to that it can be rainined in hard up to the plate on the sides, and up to the rafter on the ends. The plate should be 2 x 6 in double on the sides, and be 2 x 9 in, counts on the actes, and the studding on the onds should run to the rafter. This will allow a space so that awdust or planer shavings may be replenshed if required. Rafters 2 x 6 in, or 2 coording to the size of the fee-house, chould be used with a collection of the fee-house about 18 in, to 2 ft. above the plate. Paper and seal the rafters as the hip-lap on the under side and fill with awdust or planer shavings, as the roof boards are being put on, and cover with tar paper and single. The door opening should be on the end and extend from the sill to the collar tie. A refrigerator door in secthe studding on the ends should run

end and extend from the sill to the coller lie. A refrigerator door in sec-tions may be used, or any ordinary double door on the outside, and a groove provided on the index of the convergence of the second of the tween the door and cross planks with sawdust or planer shavings. Cover the ice when stored with marsh hay about 10 in. in depth, A small yent; the ice when stored with marsh hay about 10 in. in depth. A small yenti-lator should be placed in each gable end as close as possible to the ridge. Paper on the walls should shed to the inside so that the sawdust will side down without catching and tearing the paper. the paper.

A Boost for Butter Grading

W. Waddell, Kerrwood, Ont.

W. Wasdell, Kerrwood, Ont.

DO not know of anything more
astisfactory to a cruppery owner
or operator, than to recupery owner
or operator, than to desire of the dedy a capable, efficient and distinterested man appointed for this operator,
pose. The creamery man may be a
sooil judge of butter, but he is not in
nearly as good a position to place his good judge of butter, but he is not in nearly as good a position to place his butter as the official scorer, who is a competent man else he would not hold the position. This man is giving his whole time to this work, and for that reason should be better qualified. that reason should be better qualified. He has the opportunity of comparing different loss of butter and of comparing each lot with the requirements of the market; he has also the opportunity of noting the keeping quality of the different strates of butter, and from the very native of his work coom becomes still surer efficient.

Then too, if provides a medium for

coon becomes still more efficient.
Then too, it provides a medium for
the sale of butter as between buyer
and seller. The owner can sell his
butter and ship it forward in condenne that he will get a square deal
(which he sometimes doubts if the
buyer is to be the only judge) while
the buyer can asfely account the but. the buyer can safely accept the but-ter on the score and thus be relieved of considerable suspicion, if the qual-ity should not be up to the mark.

While there may sometimes be a light difference of opinion as to quality, neither buyer or seller is apt to

ity, neither buyer or seller is apt to suffer by selling according to grade. I speak with some degree of assur-ance on this point. During the past season I sold a lot of 85 boxes of butter, to a certain buyer and sent it forward. On arrival at its destination, this firm had it accred by their experts and wrote me saying that this butter and wrote me saying that this butter had wrote me saying that the price would have to be reduced one cent a round, from the price agreed upon. I presume did not think of any other person having scored this butter. I at one would, the think of the price would have to the think of the price would have to be reduced to the source of the so ter, to a certain buyer and sent it forpointed for that purpose, and the low-

est score of any churning in the lot was 93 points, and the best way out of the difficulty would be to send me cheque for the full amount. A cheque in full came by the next mail, with no comment, proving to me that it was a good thing in this case to have had

the butter graded.

The system works for good toward the market and the buyer. The but-termaker is always striving to have his butter score as high as possible. his butter score as high as possible. He watches carefully every churning, and this has a tendency to be a supported by the control of the co little greasy he may work the next lot a little less, if a little salty, use a little less salt; if the salt is not dis-solved the fault may be in the salt, in the working or in moisture content; if the working or in moisture content; it in the packing or package, he at once looks for the defect and seeks to re-move it. It is a daily check and keeps the maker constantly on the

The objection may be raised that it The objection may be raised that it takes too much time to put up a box of butter from each churaing, for scoring purposes. We thought this before we tried it but, we found it simple matter when we were used to daing it. From the appraisance I have doing it. From the experience I have doing it. From the experience I have had with the grading system I woul strongly advise every creamery tadopt it for the coming season.



The Empire Cream Separator

Co. of Canada, Limited,

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MONTREAL

High Class Stock

To be Sold

March 26th, 1918

AT 12 O'CLOCK

On account of our buildings being destroyed by fire we are going to sell our herd of pure bred Ayrshires and grades. The sale will include

70 head of Pure Bred Ayrshires.

20 head of Ayrshires and Holstein Grades.

10 Clydesdale Horses.

This is your opportunity to secure good produc" ing Ayrshires of splendid type from a strictly healthy herd. Also choice grade females.

Write for fuller information and catalogue.

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H. M. Morgan, Proprietor.

L. C. McOuat, Manager

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HOLSTEINS.

Bull fit for service, out of a 22.42-lb, cow, who has 4 R.O.M. daughters, 22.45 lbs, etc., and sired by the son of a 22.43-lb, cow, who has 27 R.O.M. alsters. Price \$125. A few good R.O.M. cows. Write or come—long distance ROBERT C. LANING . . VILLA NOVA, ONTARIO

BROOKSIDE HOLSTEINS

We offer for alle 2 grandsons of JOHANNA RUE, who carries \$74:96 blood of Field's great COLANTHA JOHANNA LAD. No. 1, 2 years old, a splendid individual, nicely marked; dam 18,709 lbs. milk, 970 lbs. butter in 1 year, semi-official test. Price, for quick sale, \$150.

No. 2, 8 months old, a dandy calf every way. Out of a sister to dam of No. having a record of over 10,000 lbs. milk in 6 mos., in R.O.P. test. Good enough head almost any herd. 27tc of 17.

Write for particulars; they work teep at these prices.

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

W. L. LAMBKIN.

GORRIE,ONT.

AUCTION SALE Holsteins OF 47 HEAD

Holsteins and Clydesdales Malton, Ont., March 19th, at 12 o'clock

This is an excellent opportunity for breeders on the lookout for some choice anxionals to procure them. Included in the safe are grand daughters of Court Hengerveid Fayne DeKel and King Portilac Artic Canada. Most of the females are in oaif to my herd airs, Court Echo Portilac, a son of the greek King Portilac Artic Canada and Deily Echo DeKel. Included the greek King Portilac Artic Canada and Deily Echo DeKel. Included agree King Portilac Artic Canada and Deily Echo DeKel. Included are possible and the second of the greek King Portilac Possible Artic Canada and Dekel. The Canada are the greek of the greek King Portilac Possible Canada are also an extra well bred bull, one of King Segis Portilac Possible and Manor P. H. Alpha, a 19-th 2-possible Canada Ca

Six Citydendies are also included in the sale. These-are exceptionally fine animals, including 2 imported marres. Recently I refused \$600 for one of these Citydes included in the sale. Don't mass this exceptional cale. Exceptional exceptional experiment is a superior of the control of the c



C. SLAVIN, R.R.4 Malton, Ont.

J. K. McEWAN, Auctioneer

The Beacon Light of Dairy Records

The Beacon Light of Dairy Records

By Chas F, Whitely,

D'E where men are keeping track of weights and tests and you find
their cows are head and shoulders above the average yields of the
township or county! \$50 or more per cow. Where records are kept the
herrors are the probable the owner is more and the cows have a poer appearance it is probable the owner is more mad the cows have a poer apthe scale is used and the record sheet is studied, there, on every such farm,
you find the milk yield per cow steadily climbing, 4000 pounds one year
are in the 4,000 and 5,000 pound cleav!, or may be the figures
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please high which we have been also been

DUCHESS SKYLARK ORMSBY.

BUCHESS OF ARTHURS AND STATE OF THE GREAT PURPLE SKylark Ormsby, who made the Skylark Ormsby, who made the world's record for all breeds of 1,568 of butter, 27,751.7 lbs of milk in one, is as mores.

"I sa as mores." Crmeby was calved other list, 1995. She was owned by



iogue and order at ones.

Clover-No. I Red Clover-135.00

No. 1 Alsyke ... 17.00

Alfalfa, Outario Varies

Simon of the Control of the Contro

and turnip seeds.
We are in the market for 6rowed and 2-rowed barley, Marquis Wheat, Emmer, Black Barley and Sweet Clover.
We pay freight to all parts
of Onfarie and Quebec on orders
of 325.00 or more.

GEO.KEITH & SONS

R. B. Young, Buffelo Centre, Iowa. Shafreshened first at 2 years, I month and 3 readers of the control of the c

J. K. MOORE'S SALE.

J. K. MODRE'S SALE.

The dispersion sale of J. K. Moore's
This dispersion sale of J. K. Moore's
The weather and route war held on the
home-firm near Peterboor, Peb. Jo.
The weather and route war unknown bis
there was a fair attendance of outside
buyers. Some of the best prices realised
Mayne Evangeline Dekfo, to Jos. Mann,
of Peterboro, for \$230. The same buyer
secured Mona Dekfo! Lausie for \$175.
& Son, of Mariposa, for \$200. C. E.
Moore, of Peterboro', secured Anna Cortook Polly Corsucopia for \$310. The
foregoing were mature animals. Two
yearlings, Irees and Lulu Segis Dekfo!,
for \$66 each. Grade cows sold as high
as \$110 and calves for as high as \$11.
About 30 head were sold.

SEND US YOUR POULTRY-BEST PRICES PAIL Crate fed chickens, bled, picked clean to wing tips, 5 lbs. 29 to 32c 25 to 28c 27c

tips
Choice Youter Geese, heads off, picked clean to wing tips
Choice Ducks, heads off, over 5 the each, picked clean
Choice Ducks, heads off, over 5 the each, picked clean
We return the money the day the goods are received ap
Each elemand for Large from ALIVE. Notice price,

- Spadina Avenue

Toronto

Here's a Sire for Your Herd

a sire that you will be proud to own as th your herd. He has the makeup to throw strong, square calves and the blood to increa so the production of the females and make every bull c alf you sell bring more for you. This fellow we-offer is

PIETJE PRIDE

born March 14, 1317.

born March 14, 1317.

Straight and square-light in color—well grown and ready for heavy work. His three nearest dams average 25,75 lbs: butter from: 494 lbs. milk:—4.4 per cent. fat.

His size Pittel 2-sults two ne arest dams average 23,15 lbs. butter in 7 days with milk test ing 4.7 per cent. fat. His dam late 1 and 1

lbs. mill an one day.

Don't miss the chance on this bull if you need a choice one.

A. D. FOSTER & SONS

Bloomfield, Ont.

H. C. H will hold a of his ent grade Hol 15th, 1918.

50 HEAD

Lond Will be Hot

THUE

T. Merr

SALE DATES CLAIMED

WATERLOO COUNTY. Henry Knell, Bridgeport, Ont.— Dispersion Sale of 28 head Regis-tered Holsteins, Date, 27th Feb.

YORK COUNTY. Means. Sherrick Bros. announce frusaday. March 7th as the date their sale of Holsteins at othesds, Ontario.

NORFOLK COUNTY. Norfolk Holstein Breeders' Club, Has reville, Ont. Sale of 50 head, March 7th, 1918.

BRANT COUNTY.

BRANT COUNTY.

B. C. Chambers & Son, of Pair, View. Stock Farm, R. M. M. Hatchley, Ont., have sheeted March Six for their Dispersion Sale of Registreed Holstein Cattle.

On the County of the County

PERTH COUNTY. The Perth District Holstein Breeders' Club will hold their first sale on March 13, 1918. James M. Boyd, R. R. No. 3, At-wood, Ont., pure-bred and high-grade Holsteins, et Willow Row Stock Par., March 5th., 1918.

OXFORD COUNTY. J. D. Allin will hold a sale of 35 head of pure bred Holateins and 35 head high quality grades at Till-sonburg, Tuesday, February 28.

somburg, Theology, Rebruary 26.

There will, Rebruary 26.

There will be a supported to the Holstein herd of Edwin C. Challen berg & Edwin C. Challen

The Oxford District Holstein Brooders' Club will hold a consument and of registered anti-summent and of registered anti-summent and of registered anti-summent and of registered anti-summent, and summer of the sum

ELGIN COUNTY. J. W. Van Patter & Sons, Ayl-mer, Ont., will hold a dissolution of partnership sale of their Hol-stein herd on March 12.

PEEL COUNTY Dispersion saie of C. Slavin at Malton, Ont., of 41 head Holsteins and 6 Clydes on March 19th, 1918. THE LAIDLAW SALE.

WENG to the shortage of good farm being we are forced to dispose of our run them and do., as we essence possibly stand. This hard a second possibly stand. This hard stand from the same stand. The same weeking. We have sent to the bitter of the same stand. The same weeking. We have sent to the bitter of the same stand. The same weeking we have sent to the bitter of the same stand. The same stand to the bitter of the same stand to the same same stand to the same same stand to the same stand to the

Datchiand Colentas six Abbakerk is sixe of 3s R. of M. daughters and 16 producing sons. Twenty daughters everage 2s.6 ibs. butter in 7 days, nearly all with second calf. Twenty' of the cows we are out calf. Twenty' of the cows we are cold calf. Thenty of the cows we care state of the control of the control of the control of the collection of the collec

at all the best fairs in the province.

Following him was Royaltoc Canage.

Following him was Royaltoc Canage.

Alban, whose dam made, under very made favorable circumstances, 23,31 lbs. butter at 7 days. She gave, 3 months after being toxed, as Julia as 11 lbs. milk per days. One made 34,60 lbs. butters are claim of the control of th

and over 1,300 hs. butter.

Since this bull's daughters have come
to milk we have not sad time to do any
testing. We are solling our entire herd
of milking cows with coar entire herd
of milking cows with constraint of
four that we are keeping to provide of
for our calves. Three of the s are blems
ished cows. The ones we are selling are
all cound and none over \$\frac{1}{2}\$ ears of age.

isined coven. The cones we as selling use all sound and none over \$ - ears of age.

We are offering four ser-ad young built, and the cone over a year out. These are all the cone of the c

Dispersion Sale

OF 50 HEAD

Pure Bred and High Grade

HOLSTEINS

On March 5, 1918, at 12.30 p.m. at WILLOW ROW STOCK FARM

Lots 1 and 2, Con. 12, Tp. of Alma, 2 miles from Henfryn on G. T. R.

These are some of the kind I am offering. Females from such sires as SIR HENGERVELD DEKOL AAGGIE, whose sire was full brother to the World's Champion bull. Heifers and calves from SIR MERCEDES SARCASTIC, whose sire is the only bull in the breed that carries 100% same blood as the World's Champion Holstein cow, BANOSTINE BELLE DEKOL, 30.87 lbs. butter in 7 days, 27,494 lbs. milk in I year. FOUR YOUNG BULLS from this sire, also two heifers with 10,000 and 11,000 ib. milk records, one year, and cows of great milking capacity.

Conveyances will be at Henfryn, G.T.R. Station, and also at Moncton Station, C.P.R., morning of sale.

Jas. M. Boyd, R.R.No.3 Atwood, Ont.

GET A "KING." 3 SOLD-ONLY 2 LEFT

GET A "KING." 3 SULD—OTHET 2 LEFT 1

Here is a good one, roady for service, Prince Eche Spofford, onlyed Pre16, 1317. Cor.—% with, roady for service, Prince Eche Spofford, onlyed Pre18, pofford, son of the 260,000 bed.

Spofford, son of the 260,000 bed.

Sp

CHOICE BULLS READY FOR SERVICE

No. 1—By a son of MAY BETHO SYLVIA. His two nearest dams (both Canadian champions), average 35.51 hbs. butter in seven days. Price No. 2—By a son of MAY BETHO SYLVIA'S butter in seven days. Price Sur-year-old, average 35.11 hbs. butter is ween cases of the Sylvia's control of the Sylvia's cont

HIGHLAND LAKE FARMS

R. W. E. Burnaby

Yonge Street Radial Jefferson, Ont.

HEAD The First Annual Consignment Sale HEAD

London District Holstein Breeders Club Will be held in LONDON, ONT., at the Brunswick

Hotel Stables, Cor. York and Talbot Streets

THURSDAY, MARCH 14, 1918, at 1 p.m.

will be offered for make.

Bons and daughters of such siene as FINDSERNE KING MAX Bons and daughters of such sienes dan FINDSERNE KING MAX BONS AND STATES HITTERS BARDY PARK AND STATES BARDY PARK AND ST

SALE TO BE UNDER COVER.

T. Merrit Moore, Fred W. Bodkin, R.R. No. 2, Wilton Grove, Ont.

DISPERSION of HOLSTEINS 35 Head 35 Head

Tavistock. Ont.



March 19th

Noted R. of P. Herd. Only one over 4 years old. Noted R. of P. Herd. Only one ever 4 years old.

Included in the sale are 11 danghters of KING SEGIS COLANTHA, junior sire of Tavistock Syndicate, His airs evers nearest
dams average nearly 30 lbs. and have nine 30 lb. daughters. His
dam is a 20.19 lb 2 yr. old daughter of KING WALKER, who has 25
A.R.O. daughters from 30 lb. dams. Included alore 7 daughters
of the Senior sire, KING LYONS HENGREYVELD, in whose pedigree
are three 30 lb. cows, each with 30 lb. daughters. This is an opportunity of securing a fine bunch of young stock, which will be ready
to bring in money almost immediately. Watch for further notice.

For catalogues write—

Noah S. Bender Tavistock, Ont. M. R. ROTH, Auctioneer

Record Jersevs

At Public Auction

Beauty Maid!!

Highest record any age or breed, for 1917. Beauty Maid, her two sons by IMPERIAL MAJESTY and her Mallander Control and Section 1987. Ineasty Mandalander Control and Market Mandalander Control and Market M

In all-27 Head

comprising every animal of what is acknowledged as one of Canada's highest record Jersey Herds, at

Woodstock---Monday, March 11, at 2 p.m.

Tom Dempsey, Westerville, Ohio, Sale Manager: Col. D. L. Perry, Columbus, Ohlo, and Wm. Pullen, Woodstock, Ont., Auctioneers. Terms, cash. No reserve. No protection whatever in the sale.

Glenboyle Jersey Farm Woodstock, Ont.

THE HOME OF RECORD JERSEYS

R. O. P. CHAMPIONS

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

CHOICE YORKSHIRE HOGS AT RIGHT PRICES

Boars and sows, all ages, from best prize-winning strains—a few good bred sows, also younger atock. S. C. White Leghorn eggs for hatching—Bar-ron's 232-egg strain. S. S. Brown Leghorns, Barred Rocks, R. I. Reds, 32 per 15; 319 per 109. Fawn and White I. R. Duck eggs, 33 per 11. Chinese goose eggs, 40e each. . . . MILTON, ONTARIO

LAKESIDE AYRSHIRES

A choice selection of roung bulls for sale from Record of Performance dans, imported and Canadian bred. Sires: Auchenbrain Sea Foam (Imp.), 35785; many times grand changes and Canadian Perfect Precs. Write for Catalogue.

ogue.
Proprietor:
GEO. H. MONTGOMERY
inion Express Bidg., Montreal.

AYRSHIRE EVIE

We have a few excellent young Ayrshire bulls, just ready for We have a few excellent young Ayrshire bulls, just ready for service. In addition to being growthy fellows and well turned, they have the finest of backing, being from our great imported bull CHAPMANTON BARONET and out of heavy record dams. Here are a couple of these chaps—
EVIE SIR GEORGE—(16 mos.), out of Hall Kate 4th, with 5.572 bb. of over 4% milk in ten months.

5.572 bb. of over 4% milk in ten months.
Write early if you like in f months.
Write early if you like in f months.
Write early if you genales to offer of the order of splendid young females to offer of the first of the

EVIE STOCK FARM, R. R. L.

CHESTERVILLE, ONT.

NOAH S. BENDER'S SALE.

HE following notes on the Holstein sale of Noah S. Bender, of Tayl-stock, March 18th, will interest pros-

THE following notes on the Robiston sale of Nosh S. Bender, of Tavita sale of Nosh S. Bender, of Tavita stock, March 18th, will interest prospective for the sale is that all the animals, but one, are under full age, and the sale is the sale of the sale of King Lyons Bendereveld, senior size of the sale of King Lyons Hengerveld, senior size of the sale of King Lyons Hengerveld, senior size of the sale of the sal

HOLSTEINS AT WOODLAND FARM.

M. VAN PATTERE & SONS are offerling a choice lot of breeding female
auction, at their farm reyoung built by
auction, at their farm reyoung consistence
at their farm reyoung built being a consistence of the consis

ANNUAL MEETING OF SOUTHERN COUNT'IES AYRSHIRE CLUB.

ANNUAL MEETING OF SOUTHERN COUNTIES AVRSHIPE CLUB.

THE annual meeting of the Southern was the County of the Count

FOR SALE

Two fine young bulls, 7 and 16 months old, respectively, sired by months old, respectively, sired by MANTY with a semi-official yearly record of over 900 lbrt, the other one out of a good R.O.M. dam.

MICHAEL A. ARBGGAET
Fineview Stock Farm, R. R. No. 3 Strafford, Ontario.



He

Februar

fat. 63.95 lbs Sebringville. Sebringville. 9 6. Manor P. 9 morrhs 13 ... ibe. fat. 30.69 besn. Clerkson T. Lady Scyears 6 morrhs 53.65 bes. fat. 14-day recorder. 14-day recorder. 30-day record. 19.44 lbs. Vancassa. fat, 109,44 lbs.
Varnews.
8. Low Pounds
months 30 days
fat, 27,50 lbs. b
21-day record
fat, 73,50 hbs. b
20-day record
fat, 73,50 hbs. b
30-day record
fat, 76,50 lbs. b
30-day record
fat, 76,50 lbs. b
30-day record
fat, 108,00 lbs. b
40,00 lbs. b
40,00 lbs. b
40,00 lbs. fat, 28,10
11. Beeede Poo.
7 months 18 da
7 months 18

23.66 lbs. but Variesess.

26. Elvetta B., 1 7 deve: 451.6 lbs. n

15. Pleosie Dekk

15. Pleosie Dekk

16.96 lbs. norths 10 16.96 lbs. n

16.96 lbs. norths 10 16.96 lbs. n

16.97 lbs. n

16.07 lbs. n

16.07 lbs. n

16.07 lbs. n

17. Nos. butter. 7

23. Maggie Nethe poers 6 months 6

Dam-30 a baby, but A. A. FA

____ Ba sired by a sor nitting, 1 er addition to JAS. A. CASI

Holstein News

OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS FROM JAN. 1 TO 31, 1918.

Mature Class.

May Eoho Sylvia, 11385, 8 years 9 months 10 days; 552,2 lbs. milk, 30,10 lbs. at, 37,43 lbs. butter.
 So-day record: 3177,6 lbs. milk, 194,24 lbs. fat, 165,36 lbs. butter. A. C. Hardy, Broakville.

has fatt, 183-30 has butter: A. C. Hardy, has favorivities of the common Boulah, 2011; 6 for control of the common boulah, 2011; 6 for control of the contro

sal. 6.15 lbs. butter. Pelor Arbognat, obe-brigwills.

6. Manore P. Jl. Flooree, 28794, 5 years p-morths 12 days of 0.14 bas. refll. 5.447, norther one of the pelor of the pe

and was record: 364/1 file. mills. 77.66 lbs. decides. Neison Clearened.

1. Low Powiske Dailey, 28465, 6 years 9 months 36 days; 274.2 lbs. mills, 23.54 lbs. 21.45 lbs. 21.45

15-day record: 1149.4 ibs. milk, 39.10 ibs fest, 48.87 ibs. butter. H. C. Harmer. Norwich, 15 Princes Julian of Middleton, 26633 5 years 5 months 26 days; 531.8 ibs. milk, 18.35 ibs. fat, 23.68 ibs. butter. W. G.

Balley.

15. Breta. 9755, 10 years 3 months 7 days; 687,7 lbs. milk, 12.56 lbs. fat, 23.56 lbs. butter. W. G. Balley.

16. Queen Fiaforit Gano, 17897, 6 years 8 months 17 days; 634,5 lbs. milkt. 1.53 lbs. fat, 23.48 lbs. butter. W. J. Balley.

no fat, 25.48 So. butter. W. J. Balley, Javvis. 11. Helona Keyee Pooch, 15376, 5. years 11. Helona Keyee Pooch, 15376, 5. years 11. Helona Keyee Pooch, 15376, 5. years 11. Helona Keye (500 the milk, 15.6 the milk, 15.6 the held (14.48) records; 1385, 5 the milk, 15.70 the fat, 45.87 the butter. Dr. Exportiments held (15.48) records; 1375, 6. years 1375, 6. years 1375, 6. years 14. Held (15.48) records (15.48) r

al. 2.26 for Dates. Armon and the Company of the Co

16.54 lbs. fat, 20.68 lbs. butter. Arbogast

Senior Four-Year Class Senior Four-Vear Class.

1. Gano's State Class.

1. Gano's State Class.

1. Gano's State Class.

1. Gano's State Class.

2. Ina Bakle Agno. Class.

3. Junior Bakle Agno. Class.

3. Junior State Class.

3. Junior Four-Vear-Class.

4. Junior Four-Vear-Class.

4. Junior Bakle Marcogne. Dol. Class.

4. Junior State Class.

4. Junior Four-Vear-Class.

4. Junior Bakle Marcogne. Dol. Class.

4. Junior State Class.

4. Junior Stat

Junior Four-Vear-Class.

1. Rolo Morco Delicol, 20213, 4 years 2 months, 29 days Delicol, 20213, 4 years 3 months, 29 days Delicol, 2021, 4 years 1 month, 100 Grown Sed, 40122, 4 years 1 month, 100 Grown Sed, 40122, 4 years 1 month, 100 Butter bentile, 13-56 fm, Butter bentile, 13-56 fm, Butter bentile, 13-56 fm, 61, 52-58 per record 1917, 5 fm, milk, 13-51 fm, fat, 13-58 per record 1917, 5 fm, milk, 13-51 fm, fat, 52, 31 fm, butter. Nelson Clamont, Vagnesse.

Agreeme 4 months 19 days; 472.2 the milk, 14.97 lbs. fat, 18.71 lbs. butter. C. R. James, Language.

Senior Three-Vear-Class.

J. Deidel Douglass Seefs. 11842, 3 years 1 months of the butter. But milk, 15.74 has fat. 26.6 has butter. But milk, 15.74 has fat. 26.6 has butter. Butter second 255.6 his milk, 15.0 his fat. 26.6 has record 255.6 his milk, 15.0 his fat. 118,50 his butter. Colony Farm. But fat. 118,50 his butter. Colony Farm. Butter Colony Farm. Butter Seefs Seefs Postice. 1997. 3 years 10 months 16 days: 45.9 his milk, 15.1 his butter. Colony Farm. Butter Seefs Postice. 1997. 3 pages 10 months 16 days: 45.9 his milk, 15.8 his milk, 15.8 his butter. Archur Kelly, Vancance 10 months 16 days: 46.7 his milk, 15.8 his his butter. Archur Kelly, Vancance 10 months 16 days: 46.7 his milk, 15.8 his his butter. Archur Kelly, Vancance 10 months 16 days: 46.7 his milk, 15.8 his his butter. Archur Kelly, Vancance 10 months 16 days: 46.7 his milk, 15.8 his his butter. Archur Kelly, Vancance 10 months 16 days: 45.7 his milk, 15.8 his his butter. Archur Kelly, Vancance 10 months 16 days: 45.7 his milk, 15.8 his his butter. Archur Kelly, Vancance 10 months 16 days: 45.7 his milk, 15.8 his his butter. Archur Kelly, Vancance 10 months 16 days: 45.7 his milk, 15.8 his his butter. Archur Kelly, Vancance 10 months 16 days: 45.7 his milk, 15.8 his his butter. Senior Three-Year-Class.

And the second of the second o

Junior Three-Year-Class.

1. Perrian Butter Girl, 35798, 3 years 2 months, 35 days; 490.4 lbs. milk, 14.86 fbs. fat. 18.56 lbs. butter. Michael A. Arbo-

ht., 15.6 lbs. Outbor. Stother A. Arbo-mart.

100 colony Boods Newman, 38776, 3 years 5 months 38 days; 369-9 lbs. mills, 12.3 months 15.5 lbs. Bob Butter.

10 days 15.5 lbs. Butter.

10 days 15.5 lbs. Butter.

10 days 15.5 lbs. Butter.

11 Haverdade K. S. Colony Farm.

12 Haverdade K. S. Illi, 15.6 lbs. fat, 11.3 lbs. butter. Alison Bros. Chem.

13 lbs. butter. Alison Bros. Chem.

Senior Two-Year-Class

Senior Two-Year-Class.

1. Mercena Prottice Star, 26478, 2 years

11 moeths; 42.5 lbn milk; 17.04 lbn fal;

12 moeths; 42.5 lbn milk; 17.04 lbn fal;

2. Raymondale Girl, 4104, 2 years

2. Raymondale Girl, 4104, 2 years

3. Raymondale Girl, 4104, 2 years

4. (10) bb butter. D. Raymond, Vands
1. (20) With Merchand Company, 10 per 10 per

reuli, Que. 3. Colony Netherland Segis Newspan, 36006, 3 years 7 months 13 days; 469,5 lbs. milk, 14.61 lbs. fat, 18.50 lbs. 21-day record: 1336,6 lbs. milk 46.63 lbs. Farm. 4. Defici Posch Mercens, 38864, 3 years HERE'S A TOP NOTCHER

Sire-KING SEGIS WALKER.

Dam-30 lb. daughter of PONTIAC KORNDYKE. He's only a baby, but he will grow.

A. A. FAREWELL

OSHAWA, ONTARIO

Backed by the Blood of Champions

We offer our endire crop of 1917 calves, & males, 19 heifars, a splendid lot, sired by a son of what Harold McAllister stamps as the world's greatest transmitting, reproducing cow. This is a breeder's lot, a magnificent start or addition to any herd. Drop a line to

JAS. A. CASKEY

R.R. No. 2

Madoc, Ont

Holstein Breeders Attention! Sunnybrook Farms, North Toronto

We have for sale a number of Holstein Heifers; also Bulls of serviceable age. These are from approved Dams testing from 18.34 to 29.34 lbs. of butter in 7 days and are sired by COUNT FAFORIT SYLVIA SEGIS, whose breeding combines the blood of the families that produced the wor d's only 50 ib. cow, and a 100 ib. 3 years old, the Canadan Champion Cow, 41.10 lbs. butter in 7 days.

While in Toronto call at 21 Wellington St. West and let us take you out to the farm, only 30 minutes run from King and Yonge.

Particulars about our stock will be promptly sent by writing us at the above address.

CLOVER BAR OFFERS=

At Perth Holstein Sale March 13, at Stratford Lady Paidin R.O.M. at 3 yrs. 21.59 lbs. butter; R.O.P. 10911 lbs. milk, 572.50 lbs. butter. Rancy Pieterije at 2 yrs. 7601 lbs. milk, 23.4.1 lbs. butter. Also two heises in calf, one due to freshen in May; out of heavy producing danse lado a young aire fit for service whose three nearest dans average 28.75 lbs. butter in 7 days and 93 lbs. milk one day. All females in calf to Francy 3rd Harteg 2nd, whose two nearest dams average 32 lbs. butter in 1 days, and 102 lbs. milk in one day. We stake our reputation on this offering. Have also a couple of young bulls fit for service. Write for catalog to

J. C. Park, Listowel, Ont. Take a day off and come to the sale.

P. SMITH

R. R. 3

STRATFORD, ONT.

}------ Come to Stratford, March 13th

We are consigning to the Perth Sale a daughter of Pontiac Hermes, We are consigning to the Perth Sale a daughter of Pontiac Hermes, a 34.56 lb. cew; two cows with 2 yr. old records of 15 and 16 lbs. each. LAMITY; two young daughters of KING, just bred to DUTCHLAND PONTIAC COLANTHA, Canada's greatest yearly record bull; four out of his serve areas of same and his grand sire's full sister (PONTIAC CLOTHILDE DEECOL 2nd) have average yearly records of \$2,840 lbs. of milk and 1,140 lbs. of butter. DUTCH will sure go over the top. ARBOGAST BROS.

Sebringville, Ont.

P. S. ARBOGAST, * Mitchell, Ont. §_____

PERTH BREEDERS' CONSIGNMENT SALE

50 HOLSTEINS in the City of Stratford, Ont., Wednesday, 13th March, 1918

42 FEMALES

8 BULLS

Record of Merit and Record of Performance Cows. Many of them are due to freshen about the time of sale. They are bred to some of the best bulls in Canada.

EVERY ANIMAL SOLD SUBJECT TO INSPECTION

Write for Catalogues THOS. M. SMITH. Auctioneer, Sebringville, Ont.

ADAM C. PARK. Secretary, Listowel, Ont.



D. M. ARBOGAST, President. Sebringville, Ont.

months 6 days; 22.3 lbs. milk; 14.37 lbs.
1,17.53 lbs. butter. C. Losses
5. Victoria Pion Barko, 35403, 2 years
5. Victoria Pion Barko, 35403, 2 years
1,17.73 lbs. 1,17.73 lbs. 1,17.73 lbs. 1,17.73 lbs. 1,17.74 lb M.74 lbs. Datter;
 Son.
 Lakoview Queen 4th, 3454, 2 years
 Lakoview Rusen 4th, 3450 lbs.
 17.50 kbs. butter Lakoview Phasm.
 17.50 kbs. butter Lakoview Phasm.
 18.61 lbs.
 18.62 lbs.
 18.61 lbs.
 18.62 lbs.
 18.61 lbs.

Plac. fat, 17.22 lbs. Dutter. Ches. N. HUlli-ker. Accordade Twasan. 36626. 2 pours 7 coords 19 days; 487. 266. 2 pours 7 coords 19 days; 487. 26 lbs. Butter 6. C. Hardy. 20-day record: 1287.7 lbs. milk, 15.0 fbs. 8.1, 17.35 lbs. Dutter. A. C. Hardy. 20-day record: 1287.7 lbs. milk, 21.0 fbs. 18.1, 17.3 lbs. Dutter. A. C. Hardy. 20 coords 1287. 5. Meccols, 38798. 3 pours 1 coords 15.1, 15.2 lbs. Dutter. C. C. Lee. 21. DeKol Maggies Mercense. 3899. 2 pours 4 months 10 days; 36.2 fbs. milk, 12.38 lbs. 19.1, 15.3 lbs. 19.1,

3. Raymondale Ruby, 39161, 2 years 14 days; 466.7 lbs. milk, 16.39 fbs. fat, 30.48

Breeders Attention! Postponement of Sale

Owing to the recent floods and the present impassable condition of the roads, I am compelled to postpone the date of my sale from Feb. 21 to March 8. This will not interfere with the choice animals I am offering.

W. A. RIFE, Hespeler, Ont.

b. Suttler. D. Bayrnond. Vaudereuit, Que.
4. Westernat: Plede Artin. 18620, 2 years.
4. Westernat: Plede Artin. 18620, 2 years.
4. The Suttler Suttlement of the Suttlement of

10-71 ms. rat. 13-43 size nutter. Arthur Month of the movel of January reports of the tests of \$3 cowe and helfers were received and accepted for entry in the received and accepted for entry in the control of the size of \$3 cowe made received and size of pounds butter in seven cover, of over \$0 pounds to the well-known cover. May Botho Eyriva, the well-known cover. May Botho Eyriva, the well-known cover. May Botho Eyriva, the training the received all her life. This year she makes \$7.53 pounds butter is seven days.

1. Fiora Rooker Peach, 18960, 6 years; 16130 be milk, 549 lbs. fat, 711.25 lbs. butter. N. S. A. C., Truro, N.S. A. C., Truro, N.S. A. Artis Rossie, 3603, 9 years; 16319 lbs. milk, 539 lbs. fat, 673.76 lbs. butter. N. S. A. C. S. A. C.
3. Emma of Evergreen 2nd, 10445, 2 pears; 14712 the milk, 484 tha fat, 606,00 the butter, N. S. A. C.
1418 Dalkol Acene, 7482, 10 years; 1511 the butter, R. H. S. L. C. L. S. L.

Souther, P. J. Bishop, Dumanian, 16473, 6. Dorochy Gerben of Glenaprings, 16478, 6. Dorochy Gerben of Glenaprings, 16478, 6. Dorochy Gerben, 1468 hz. fail, 1648 hz. fail,

Two-vear-Class.

1. Nettle Rooker Posch, 31999, 2 years and days; 12396 she, milk, 449 bke, feet, 616 g.P.; 12396 she, milk, 449 bke, feet, 616 g.P.; 12396 she, milk, 449 bke, feet, 616 g.P.; 125 g.P.; 125

SHERRICK BROS. HOLSTEIN SALE.

SHE of pure bred Holsteins and other and other pure bred Holsteins and other care at the sale of pure bred Holsteins and other care at least the sale of the sale will be links lipiying Boo. who is from the same size as May Brod. Julia the most famous cow of the bred. Julia the sale that the sale tha

50 HEAD

We Invite You to Attend

50 HEAD

Norfolk Holstein Breeders Annual Sale On G.T.R. Hagersville, Ont. March 7th

This will be without question a QUALITY SALE, comprising grand-daughters of KING SEGIS PONTIAC KONIGEN, the \$35,000 bull—cows with 28,21 hs. butter records, and misk records of over 102 hs. per day. Helfers from high record cows, and in east to 30 to 38-th. bull, and teat one 31.5-th. bull, also ELMCKRST PONTIAC STIVIA. BULL AND AND ALE PONTIAC ECHO, 1853, and MAUDE SNOW BALL, 25.12 VONDALE is in rearrost dams average 718.5 hs. milk, 31.63 ths. hutter. 7 daws 31.62 lbs. butter, 7 days.

WRITE FOR CATALOGUE TO

W. H. CHERRY, Sales Manager J. A. WALLACE, Secretary. Hagersville, Ont.

R. E. HAEGER .

ORCHARD LEIGH HOLSTEINS

We have now for Sale 2 Young Bulls sieed by King Yeeman Ormsby, whose dam has 1-yr-cell record, R. of M., 26.81 lbs. butter and 559 lbs. milk; R. of P., 13.17 lbs. milk. No. 1, boar Pab. 17, 1917; dam, Midnight Gem Det. R. of P., 13.17 lbs. milk. No. 1, boar Pab. 17, 1917; dam, Midnight Gem Det. Det. butter. No. 2, born Nov. 15, 1918; dam, Midnight Comet Dekkel; R. of R. d. yr-cell 2.81 lbs. butter and 550 lbs. milk; R. of P., 14,578 lbs. milk totting 4.21 fat.

These Bulls are of excellent type and dark in color. Write or come and

LAKEVIEW STOCK FARM

Offers for sale several daughters, grandsaughters and grandsons from the following cows—LAKEVIEW RATTLER, 37.44 lbs. butter 7 days, and the present Canadian Champion 36-day butter cows, 8 months after calving; LAKEVIEW RATTLER, 37.44 lbs. butter 7 days, and 10 per several control of the calving; LAKEVIEW B. Canadian Canadian Champion for 3 consecutive years in the 36-day class, 8 mea, after calving; QUEEN INKA DEKOL, 27.59 lbs. butter in 7 days, and 24.37 lbs. milk in 1 year, and canadian Champion Matture cow in 7-day class, 8 mea, after calving; 16.90 lbs. and canadian Champion for 3 consecutive years in the 36-day class, 8 mea, after calving; 16.91 lbs. and canadian Champion for 3 concept of the complex of the consecutive years in the 36-day class, 8 mea, a 1-yer, -old, and running over 80 fbs. milk a day. This is the first these contents of the consecutive years of the years of the years of the consecutive years of the years of the

Major E. F. Osler, Prop.

BRONTE, Ont. T. A. Dawson, Mgr

Herd Sires of Merit:

1—Sir Flossie Rag Apple (my senior berd aire). Sire—The great le Korndyke 8th; dam.—Flossie Albrice Wayne, Rising 5 years old, sure; calves 75 per cent. helfers. Weighs about a ton in ordinary sure. Sure and the sure of the sure sure of the sure of the sure sure of the sure of the

rarm dreas. Will sell a half interest converge and the surface of the surface of

PINE CREST FARM

LESLIE O. WARREN, Proprietor, R. R. No. 1, MALLORYTOWN, ONT

DISPERSION OF HOLSTEINS 35 HEAD AT

Bethesda, York County, Ont. 3 HOLSTEINS, 6 HORSES



35 HEAD Thursday, March 7, at 12 o'clock noon 5 TAMWORTH SOWS AND FARM MACHINERY

Included in the offering will be our Senior Sire, INKA SYLVIA BO S, who is a brother to MAY ECHO SYLVIA, the greatest cow of the breed; LAWNCREST MAY ECHO, 24 lbs, butter, 4 yr. old; LAWNCREST MAY POSCH, 25 lbs, 4 yr. old, and many others with best records of the breed, LAWNCREST MAY ECHO, 24 lbs, butter, 12 days. He has two staters with 25.30 lbs, and 22.55 lbs, in 7 days. A daughter of DEKOL, PLUS, former Canadian Champion for butter on eyear. Also the gr. Sire, KORNDYKE GIESKE RAY-years of age than any other sire of the bred, ARTIS CANADA, who has more tested daughters and gare 20 lb. 2 yr. old daughters at 5 lb. Junior 2 yr. old, and have considered and the strong and says. His dam is 25.47 l13.4 lbs. Also another young bull, mostly while whose dam gave 100 lbs. milk in 1 day, 30 has butter in a week, being a daughter of PONTIAC also MERCENA CAMPELLITOWN, 23 lbs. 3 whose dam gave 100 lbs. milk in 1 day, 30 has butter in a week, being a daughter of PONTIAC also MERCENA CAMPELLITOWN, 23 lbs. 3 perior of the year, and such as a beifer by KING LYONS HENGERVELD; one from herd sire of Unionville Syndicate; Will include in the sale 5 young Tamworth hoog, and many others equally good.

Railway connections: C.N.R. Gormley Station, 25 miles north of Toronto. Also Metropolitan car line to Schomberg Junction. Cars leave

Terms of Sale. Cash. or 8 monties at 5 per cent, on bankable paper.

Terms of Sale, Cash, or 8 months at 5 per cent. on bankable paper.

F. W. SILVERSIDES. T. MERRIT MOORE.

Auctioneers.

For catalogues write

Sales Manager. R. W. E. BURNABY, Jefferson, Ontario,

SHERRICK BROTHERS

BETHESDA, ONTARIO of the clu dozen wor ers and br of Jefferso Port Perry livered ex-worthy fac though the introduced Holstein b Benize, an

Febru

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THE P

R EGARDIN Regers, Regers, advertials as that the broother and the broother and the left of the control of the c

NOTES FROM

MEN THE following a private let dent of the Farm, Brandon, tour staff:—

our staff;...

"Our live stock badly handleappe of our building a which were burner yet in shape for soon. We are one although it is not finished these builgood position, as and up-to-date, eattle have no chout we hope soon. "We got a buil."

BANQUET OF DURHAM H.-F. CLUB.

The Quaker's Stock Farm

ENTIRE DISPERSION SALE OF

50---Pure-Bred Holstein-Friesian Cattle---50

FEMALES

40 OR MORE, INCLUDING

Shadelawn Cynthia Canary,
4 yrs., milk, 6647 fbs.,
26.37 ibs.
Maud Beets Segfs, butter, 22.37 ibs.
Maud Beets Segfs, butter, 23.30 lba.
Beila A Posch, butter, 19.46 fbs.
Roxie Fayne, 3 yrs., butter, 19.47 ibs.
butter

19.71 ibs.

butter
Colantha Mercedes Tehee, 2 yrs., butter
12.77 ibs.
The Quakeress, 1 year 11 months, butter
14.60 ibs.
Many other fine foundation cows., tested and untested, and nearly all in shape for testing this spring.

ONE OF OXFORD S Finest Herds A Sale Worth While

HEIFERS

Some splendid heifers, freshening to the herd bull this fall, and a number of unbred yearlings. Splendid Foundation Stock

BULLS

The young heat six and show bull.

3 yrs. old-COLANTHUS POSCH
ABBERGERU, Tays of the than black.

Dam, milk, 7 days 90.8 bb.
Butter 7 days 90.8 bb.
Butter 7 days 90.8 bb.
Highest days of the thing of

Blue Ribbon Bull at Guelph, 1916. Prize-winner at Toronto and London, 1917.

Several young bulls, ready for service, all from R.O.M. dams. One prize-win-ner at Toconto, 1917.

DR. RUDD'S SALE STABLE, WOODSTOCK Wednesday, March 6th, 1918, at 1 o'clock

Good Hotel Accommodation

Terms: Cash or 6 months credit with inteest

G. F. MAHON, PROPRIETOR, WOODSTOCK, ONTARIO

WRITE FOR CATALOGUE

Moore & Dean, Auctioneers

BANQUET OT DUBMAM H.-F. CLUB.

THE first annual meeting and bamoost property of the property o THE ROGERS' OFFERING

THE ROGERS OFFERING.

ROGERS, OF MINIOR the offering of Mr. Land Rogers, of Menivers, who be been advertising with us lately we would not be a support of the support of th

The present hered size, from which sees come of the other offerenze, in Emery Hongsweid Sylvisia, whose series is brother to the sees that Delico, 111.70 bb. butter to the sees that Delico, 111.70 bb. butter to the sees that Delico, 111.70 bb. butter to the sees that Delico and the sees that Delico Hongsweight never the sees that the sees the sees that the sees that the sees that the sees that the sees the sees that the sees the sees the sees that the sees that the sees that the sees the

NOTES FROM BRANDON EXPERI-MENTAL FARM.

THE following are notes clipped from a private letter from the Superinten-dent of the Dominion Experimental Farm, Brandon, to one of the members of our staff:—

our staff...

"Our live stock operations have been body handlospped this year on account of our building situation. The building which were bursed some time ago are not which were bursed some time ago are not some years on the staff of the part o

cattle have no chin the meantime our cattle have no chin the meantime our but we hope soon to be able to do brare. We got a buil last year which should have been a second of the second

HOLSTEINS .

We have the only two sons in Canada, of the 46-lb. bull Ormsby Jane 19-only mature son of the world set famous cow. One of them for hims a 39-bl. calf, whose dam and two great-grand-dams average 38.4 butter in 7 days. Also 11 bull calves of lesser note, and females of sale, also a 30-lb. lbs. butter in 7 all ages. R. M. HOLTBY,

PORT PERRY, ONT.

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

OURVILLA HOLSTEINS

LABOUR SHORTAGE We must sell our ENTIRE MILKING HERD 30 MATURE FEMALES 30

None Over 6 Years and Absolutely Sound

AT THE FARM

ALL MILKING OR HEAVY IN CALF

Also Four Young Bulls

AYLMER, ONT., March 13, 1918, at 1 P.M.

This sale is on the day following Van Patter's Sale at Aylmer, and is an excellent opportunity for breeders to attend both sales.

These cows are the result of years of breeding and weeding, and include our best. Those with calf are bred to our two herd sires FIN-DERNE KING MAY FAYNE, and MAPLECREST DEKOL CHAM-PION. The young bulls are sired by these, and are from our best cows.

Rigs will leave the Brown House, Aylmer, on the day of sale.

TERMS: Cash or 6 months' credit at 7 per cent. on good security. Write for Catalogues.

T. MERRITT MOORE. Auctioneer

Elgin County

LAIDLAW BROS. Aylmer, Ont.

"AVONDALE FARM" BULLS

Young bulls sired by WOODCREST SIR CLYDE, whose dam has \$3.06 lbs. butter, and over 24,000 lbs. milk in a year. He is by the same sire as our bull, Prince Hengerveld Pietje, with seven daughters having over 30 lbs.

One 10-months-old from a 28-ib. cow, the dam of our well-known Lady Waldorf Pietje.

2. From a 241/4-lb. two-year-old, daughter of a twice 32-lb. cow. 3. From a 19.84-lb. junior two-year-old.

These are going to be sold at a bargain. We have several young sons by our fine son of MAY ECHO SYLVIA, one of those is 10 people and the several points. months old.

We are offering by private sale a few good yearlings, and two-r-old females by Woodcrest Sir Clyde.

H. LYNN.

Avondale Farm.

Brockville, Ont.

MAPLE LAWN STOCK FARM

KING SEGIS ALCARTRA SPOFFORD

COUNT SEGIS WALKER PIETERTJE

WM. H. GOUGH & SON

Bloomfield, Ont.

Sovereign Stock Farm

is consigning to the Streatford sale, March 12th, Lord Lyons Hengarvach, nearest domain average 30.5 Feb. butter in 7, days. Dam, 72.4 at 4 at 25.4 at 1 years. 10.07. 11.656 ibs. milk, 573.5 ibs. butter at 3 years. milk, 573.5 ibs. butter at 3 years, 110.07 in 30.5 ibs. butter at 3 years, 110.07 ibs. butter at 3 ye

Get your catalogue at once and find out more about LORD LYCONS HENGER-VELLD. He'll appeal to you. If possible, visit the farm and

WM. STOCK, Proprietor - TAVISTOCK, ONTARIO

PURE BRED HOLSTEINS

By Public Auction March 5, 1918 at Norwich, Ont.



40 HEAD

SOLD WITHOUT RESERVE

This is an opportunity to secure some extra good young stuff. Only 3 females above 5 years. None over 8 years old. All cows fresh since November 1st are running in R. of P. Their records will be announced to date on day of sale. These records can be transferred to purchaser if desired.

Watch for Next Issue

H.C. HANMER, NORWICH, ONT.

MOORE & LONGWORTH, Auctioneers.

For catalogues write T. M. Caley, Sec., Norwich, Ont.

REVIEW AND FORECAST MARKET

T ORONTO, Feb. 25.—Again the rail-way facilities throughout Ontaric have been more or less tied up, this time through a thaw followed by cold weather. The congestion caused by freasen switches is felt most keenly in the

COARSE GRAINS.

Prices of coarse grains penerally are on he advance in sympathy with the prices of caree grains penerally are on he advance in sympathy with the prices of all other feed stuffs. Ontatio cets are stoted in Toronto at \$1.03, but sales are stoted in Toronto at \$1.03, but sales are stoted in Toronto are coming through or many of American corn are coming through or Toronto from time to time, but are in stitieties to supply anything like the dedication of the supply and the supply anything like the dedication of the supply and the supply ane

Ohlokene	Live weight.	Dressed.
Hens, over 4 ke Roosters Ducklings	ag . 35c to 00c lbis. 20c to 22c s . 25c to 28c 25c to 00c 25c to 60c 25c to 00c 45c to 00c	28c to 30c 25c to 00c 28c to 00c 20c to 00c 27c to 00c

DAIRY PRODUCE.

do good	11:00 to	11.80
		88.94
heifers, choice	11.50 to	11.85
do good	10.85 to	
do medium	10.80 to	11.24
do common	10.20 to	10.66
Partich and		9.75
Butchers' cows, choice	10.00 to	10.50
do good	9.26 to	9.76
do medium	8.00 to	8.75
do canners	6.00 to	6.40
Butchers' bulls, choice	10:25 to	10.75
00 good	9.25 to	9.75
do medium	8.50 to	9.00
do common	6.75 to	
do common	7.75 to	7.50
Feeders, best	1.10 10	8.25
Stockers heat	9.50 to	10.25
Stockers, best	8.50 to	9.00
Milkers and springers,		
choice	100.00 to	135.00
do com. to medium	65 00 to	20.00
Calves, choice	15 50 to	78 50
	12.50 to	15 00
do common	6.00 to	
Heavy fat	10.00 10	8.50

HOLSTEIN NOTES

Februs

18 Head

GOOD SALES FROM HOLTBY HERD.

N a letter from Mr. R. M. Holtby, one of our big breeders of Ontario County, in reference to sales, he

The state but the prooders of Ontario and Country big brooders of Ontario written as follows:

"Darling the month of January we have not to Frank J. Dobson. of Unbridger and the proof of the proof of

HOLSTEIN SALE AT COBOURG.

HOLSTEIN SALE AT COBOURG.

THE breeders of Holstein cattle planning to attend Mr. Bestram Hocking him to a series of the series of t

excellent breeding.

A few of the cows are: A sister to a 17,000-19, cow, a cow whose dam I state of a 25-th. cow, a 15,000 to good on, two dauchters of Schulline Sli Focord on, two dauchters of Schulline Sli Teornto, and the compound two pears at Teornto, and the compound of the compo

A \$35,000 BULL.

NOTHER Holateln youngster has sold as a small fortune. Majestic Rag Age a small fortune. Majestic Rag Age and the small fortune of the small fortune of the small fortune of the street of the street of the street of the street of the small for the small f

Is, eale and June.

ohn T. Shanahan, of Buffalo, bought young sire-after spirited bidding, in the George E. Piece, another Buffalo atein breeder, is the competitor. Mr. mahan made the purchase for his sers Maid Farm, at East Aurora, w York. Oliver Catheau, Jr., Elmater, New York, was the deare of the ter, New York, was the deare of the

HOLSTEINS

Will be Sold by Auction at Albion Hotel Stables, Cobourg, March 7

MONG many other valuable animals, our Senior Sire, MAY ECHQ-PONTIAC, 4 yra. old; SIR PONTIAC HERMES, who sold at auction for \$709, and who has 23 daughters in R. of M. with records running to 28 lbs. butter in 7 days. in R. of P. he has two 20,000 has, 2 yr. old daughters and one with a 4 yr. olf error of 22,788 lbs. old. 2 yr. old daughters and one with a 4 yr. olf error of 22,788 lbs. old. 2 yr. old faughters and one with a 4 yr. olf error of 22,788 lbs. old. 2 yr. old faughters and one with a 4 yr. olf error of 22,788 lbs. old. 2 yr. old. 2 SYLVIA; ner uam, stat ECHO, nous worms record for 11 year old, 23,707 lbs, milk and 1,042 lbs, butter in 1 year. Will also sell junior sire, SIR HENGERVELD WALKER SEGIS, whose 7 nearest dams sire, SIR HENGERVELD WALKER SEGIS, whose 7 negrest dams average, butter 27.72 lbs., milk 500 lbs., in 7 days, average fat 4.47%; sired by KING SEGIS WALKER, has 9 daughters with official tests running from 15 lbs. at 1 yr. old to 29 lbs. at 4 yrs. old. His dam is by 32 lbs. butter. Among he cows are some with records of 70 lbs. milk yaz lbs. butter. Among he cows are some with records of 70 lbs. milk yellow, the yellow of the great May Becks of the property of the property



Sale will be held at Albion Hotel. Cobourg offers a great advantage to buyers at-tending the sale. They can come on the morning trains and get away on the after-noon of the same day.

NORMAN MONTGOMERY, Auctioneer.

For catalogueswrite BERTRAM HOSKINS, R.R. No. 5, Cobourg, Ont. ************************

"Everybody Wanted That Bull"

"EveryBody Wanted That Dun
WitTHG us this week to stop
their advertisement for the
Arbogast Bros. say:
"Please and at none as
we have so as. at none as
we have so as. at none as
we have identified in their
advertised last week the
built as we
have a dozen eat built, as in
the act of Villa Nova, has parchauge of Villa Nova, has parchauge of Villa Nova, has parchauge and the service of the
'Arbogast Bros.'

"Yours very truly,
"Yours very truly,
"Yours now have done
What Farm and Oairy has done

What Farm and Dairy has done for the above advertiser we can do write us NOW.

LIVE STOCK DEPARTMENT Farm and Dairy, Peterboro', Ont. OFFERING No. 2

Premier Pietertje Posch 33892

Born Jan. 24, 1918. Slightly more white than black a very straight, showy calf with lots of size and guaranteed in every way to suit the purchaser.

show, ear with lots of rize and guaranteed in every way to suit the purchaser.

Chaser.

Chaser.

Chaser.

Chaser.

Chaser.

Charles of Something Choice.

Charles of Something Choice.

Charles of Something Choice.

Charles of Something Charles of Something Choice.

Charles of Something Charles of Something Choice.

Charles of Something Charles

Do. milk in R.O.F.

GENERATIONS

Of 7-day snap yearly records that are a order to a built back this calf.

His 2 marset same average 26.55 lbs. butter and 882 lbs. milk lb 7 days,

giving an average 46.55 lbs. butter and 882 lbs. milk lb 7 days,

24.62 lbs. of better.

Gen Phone, Brantford, No. 1002.

W. G. BAILEY, Oak Park Stock Farm R. R. No. 4 PARIS, ONT.

Great Dispersion Sale 30 HEAD HOLSTEINS March 5, 1918 at 1 P.M. Fairview Stock Farm

30 Head

Here are a few of the kind I am offering. Milleigh Lady Posch, a 25-lb. cow, and her daughter, Fairview Paforit Lady, Posch, a 25-lb. cow, and her daughter, Fairview Paforit Lady, a 22-lb. 4-year-old, a daughter of Restriction of Possis Netherland and Schotzer Baroness, 33.17, a 20-lb. source, ow, a daughter of a Butter Baroness, 33.17, a 20-lb. source, ow, a daughter of a butter Baroness, 33.17, a 20-lb. source, ow, a daughter of a butter Baroness, 33.17, a 20-lb. source, ow, a daughter of Butter Boy Johanna Korndyke, whose dam has 3 solb. record and is dam of a 50-lb. cov; 3 granddaughters of Fontiac Korndyke from tested





One of our choice offerings. She has a record of 509.2 lbs. milk and 22.16 lbs. butter, average fat 3.48 per cent., 14 days 1141 butter. Best day's milk 75 lbs.

dams; 4 daughters of our 25-lb. cow; 6 daughters of Lord De Bols, who has a 27-lb. dam; 10 calves from 30-lb. bull. Conveyances will be at Harley Station, also at Scotland, on morning of sale. Bus runs from Oakland to Scotland, also from Scotland to Hotel. Sale will be held in comfortably seated building.

R. R. Connection: G.T.R., Harley; T.H.B., Scotland; L.E. & N., Oakland. E. C. CHAMBERS & SON - HATCHLEY, ONT. (28)

Spring Wheat Seed for Ontario

THE world demand for wheat in 1918 justifies the greatest possible effort towards increased production. The small acreages of Fall Wheat put in last fall will mean increased acreage in Ontario available for Spring Wheat. The Ontario Government is co-operating with the farmers in order to provide seed. It has purchased 50,000 bushels of No. 1 Marquis Spring Wheat Seed through the Seed Branch of the Federal Department of Agriculture. More will be purchased if necessary to fill needs.

Distribution

Seed is sold only in 2-bushel bags. Carloads will be placed at certain points in the Province where less than carload orders can be filled, the purchaser paying local freight from such distributing point to his own station. Where Farmers' Clubs or other organizations buy in earload lots, the price at their local stations will be the same as at distributing points.

Where to Buy

Purchases may be made either in the warehouse at the distributing points, or orders may be placed with the nearest District Representative of the Provincial Department of Agriculture, or they may be sent direct by mail to the Markets Branch, Department of Agriculture, Parliament Buildings, Toronto.

Payment in Cash

Price is \$2.74 per bushel at distributing points. In all cases, without exception, cash must accompany order. Send remittance by cheque, postal note, post office or express money order made payable to Ontario Department of Agriculture, Markets Branch.

Order Early

In the event of the requirements of the Province being underestimated, there may not be enough seed to go around. It is advisable in order to insure having their orders filled that purchasers should place orders as soon as possible. All orders are subject to confirmation and will be filled in the order received. As seed is delivered in 2-bushel bags, order should be for even numbers of bushels, and no order for less than 2 bushels can be accepted.

Names of Distributors at local points will be announced later. Distributing points at present decided are: Hamilton, Woodstock, St. Marys, London, Chatham, Toronto, Brampton, Newmarket, Barrie, Orillia, Brantford, Simeoe, Welland, Orangeville, Alliston, Listowel, Durham, Palgrave, Stouffville, Lindsay, Oshawa, Peterboro', Port Perry, Port Hope, Kemptville.

Ontario Department of Agriculture

MARKETS BRANCH

PARLIAMENT BUILDINGS, TORONTO

SIR WM. H. HEARST. Minister of Agriculture DR. G. C. CREELMAN,

Commissionerof Agriculture

