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NUMBER 13

FARM AND DAIRY
RURAL HOME

Dairy & Cows 5c
Dip of April
Dec 22

PETERBORO, ONT.

MARCH 28

1912.



SUCCESSFUL SHORT COURSES IN AGRICULTURE PROCLAIM A NEW ERA IN FARMING.

The greatest application of sciences in any profession in the world is brought to bear in farming. Chemistry, organic and inorganic, physics, including climatology, physics of the soil and engineering, biology, under which come entomology, botany, zoology and physiology, and bacteriology—a knowledge of all these aids materially in the intelligent direction of farming operations. A greater appreciation of the scope of their profession along these lines, as well as training in connection with the so-called more practical lines of farming, has just been received by the young men here illustrated, who have completed a five weeks' short course in agriculture at the Port Hope High School. These young men are farmers' sons. They will carry back to their home farms a wider vision of the possibilities of agriculture, and will be ever striving to learn more and more of the science of their profession and of its application in practical farming operations. Mr. R. S. Duncan, the District Representative, who organized this course, and Mr. H. S. Fry, his assistant, may be seen in the centre of the illustration.

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BETTER FARMING AND
CANADIAN COUNTRY LIFE

A Distinctively New Field

Has been opened up
for

The! Large Hand Separator



The favorite everywhere it goes. Note its beauty and heavy compact construction, with low-down, handy supply can only 35" ft. from the floor.

By the new "Simplex," a most striking feature of which is that it is **light running**.

The 1,100-lb. size "Simplex," when at speed and skimming milk, takes no more power than the ordinary 500-lb. Hand Separator of other makes.

The new large capacity "Simplex" cuts the labor of skimming more than in two, because it **turns easier than most other Hand Separators**, regardless of capacity, and because **it does the work in half the time**.

The large capacity "Simplex" Cream Separators, like our other "Simplex" machines, are the **very embodiment of simplicity**.

All "Simplex" Separators have only two gears, have Self-Balancing Bowl.

All "Simplex" bearings are of the highest grade, same as are used in the best automobiles.

All "Simplex" Separators have the famous Link-Blade Skimming Device.

"Simplex" Cream Separators are noted for ease of cleaning, remarkably clean skimming, ease of running, durability—they last a life-time.

Writes us for descriptive matter, giving the full information you want about this peer amongst Cream Separators.

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WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

TO-DAY you will require to rush your copy to us to catch the Fourth, Great Dairy Annual Magazine Number, out April 4th.

The issue will circulate upwards of 14,000. It'll mean much to all our people. It'll mean much to you to meet them with your proposition in this important issue.

Rush your copy through **to-day**

FARM AND DAIRY
Peterboro, Ont.

It is desirable to mention the name of this publication when writing to advertisers



A PROCESS THAT WILL MAKE YOU MONEY

Commercial fertilizers do pay! Our cartoon illustrates just how many of our progressive farmers are making money by turning commercial fertilizer into farm produce. If we first determine the needs of our soil by experiments on a small scale we will then be in a position to reap abundant returns from the use of fertilizers commercially prepared. But first we must know our soil.

Saskatchewan Winter Fair

"Mixed farming, the only proper way to farm on the prairies." This was the key note of the eighth annual Saskatchewan winter fair held in Regina which closed on March 16. During the week thousands of farmers, grain growers and breeders thronged the handsome exhibition buildings to see the greatest exhibition of horses, fat cattle, sheep, swine and poultry, ever held west of the great lakes and then went to attend the annual meetings of the various associations where the very latest ideas of farming and breeding in all branches were discussed. It was a great success and the breeders went home with a feeling that Saskatchewan was surely coming in to her own in these money making interests of the farm. His Honor Lieut.-Governor Brown opened the fair and during the week the members of the different breeders' associations were entertained at dinner at Government House. Several public meetings at which Eastern and American speakers appeared drew large crowds.

The cattle judging was noteworthy for the competition in a number of sections between the Shorthorns and the Aberdeen Angus; the latter breed made a remarkably good showing, the sweepstakes in the fat cattle classes being won by an Aberdeen Angus, Glencairnock Rubicon, owned by J. D. McGregor, of Manitoba. P. M. Bredt, of Edensvold, and Sir William Van Horne divided the honors about equally in the Shorthorn class. Sir William Van Horne's exhibit also achieved success in the swine classes.

POULTRY.

In the poultry department some 1,300 birds were shown and each day during the fair the display evoked much enthusiasm. Winning people carried off the most of the prizes, Fred W. Scott being the big winner. The judging was in the hands of Mrs. Cooper, of Treebank, who gave several lectures on the selection and feeding of poultry for egg production.

What was practically the first step in an educative campaign under the auspices of the Dominion Government for the encouragement of the sheep industry was taken in Regina during the fair. Several of the most prominent lecturers on matters pertaining to the industry were there

bringing as forcibly as possible before the farmers the fact that the raising of sheep should be one of the most profitable industries of the prairie province. The Dominion Government representatives, Messrs W. T. Ritch and C. M. McTae, will make a tour of Saskatchewan in an effort to arouse the breeders to greater action along this line.

HORSES.

The classes of Clydesdales, Percherons and Belgian exhibits contained some of the best animals on the continent. Robert Sinton, of Regina, captured the ribbons in the Clydes, and W. E. and R. C. Upper, of North Portal, in the Percherons. Eugene Postman and Sons had some splendid Belgians.

Dairy Notes

There will be fewer corn stalks left in the field next fall than there were last fall. The 91% to go up over the country prairie that.

Some farmers in opposing the silo will tell you that there is no food that cows like so well as cured tender corn. If they had ever tried ensilage they would be better.

Some of our dairymen are becoming possessed of the machinery mania. With the scarcity of labor they believe they cannot get too much money locked up in labor-saving machinery. This is a mistake. Too much machinery has sent more than one dairymen to the poor house. But be sure you have enough.

Butter during January and February was above the 30-cent mark right along. Surely a good argument for winter dairying.

A point in skimming that should not be neglected in cold weather or even cool weather is to warm up the separator bowl with hot water before running the milk through.

Before we ask ourselves "Will pure bred cows pay?" we should ask ourselves, "Do I know enough to make pure bred cows pay?" There is no question about the cows. Give them a chance and they will return the profit.

Are we carrying on our business in a business like manner? After we have paid all running expenses here we five per cent. interest on the money we have invested and a good living wage for the proprietor and those of his family who have assisted? If not, our farming is not on a good business basis.

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a Year

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FOR WEEK ENDING MARCH 28, 1912.

No. 13

Causes of Failure with Fertilizers

John Thomas, York Co., Ont.

In a recent issue of Farm and Dairy I notice an article that has a tendency to discredit commercial fertilizers and to lead a farmer reading it to suppose that they were of no use, if, indeed, he would not think that the whole fertilizer business was a fake.

Let us get down to principles. Any intelligent man knows that fertilizers contain plant food. There are a number of authentic experiments on record where good crops have been raised on sterilized sand for several generations by the use of fertilizers alone. Any one who doubts this can very easily prove it to his own satisfaction by taking clear sand or coal ashes that contain very little plant food and by supplying nothing but water and a fairly evenly balanced fertilizer he will be able to grow good crops.

UNDENIABLE PROOF

Coal ash heaps that would produce nothing have often been made to produce good crops of vegetables simply by a liberal application of fertilizers. Another evidence that fertilizers provide plant food, often seen, is where a lawn that will produce but very little grass is given a heavy application of fertilizer and the growth is frequently increased a hundred fold. No one who understands the subject will dispute the fact that fertilizers do supply plant food.

The most important question before us Canadian farmers is, Do they pay? We are only concerned with what commercial fertilizers do in the United States and the older countries is so far as their results are instructive and give us an idea as to how they should be used here. When used in Canada do fertilizers return a profit? This will depend upon what we have to pay for the fertilizers, what our crops are to be sold for and the amount of fertility there is already in the soil.

There is more natural fertility in our new soils than in those of the older countries; it is doubtful, therefore, if we can as yet apply profitably the large amounts used there. For instance,—in the potato districts of Maine and the truck sections of Long Island and Norfolk, no man expects to apply less than half a ton of high grade fertilizer to the acre, and many of the most prosperous farmers use a ton and even a ton and a half to the acre. These men evidently believe that fertilizers pay.

One reason why fertilizers might not pay would be that the land was so full of plant food already that what was added in the form of fertilizer makes no difference in the crop. But this presumes a lot. It may be that there are soils in Ontario that are so rich that fertilizers will not show on them, but the writer has never seen them.

CONDUCT EXPERIMENTS CAREFULLY

A man is very foolish to spend much money for fertilizers until he is satisfied that it is money well expended. Experiments to determine this should be very carefully conducted, for on good land the gains are proportionally less and are

not so easily estimated by the eye. For this reason it is necessary that the yields be actually weighed; otherwise it might be thought that there was no profit in using the fertilizers.

When inspecting fertilizer plots I have been told time after time on my first visit before the crop was harvested that there would be no gain at all, but on the second call after the crop had been weighed or measured as the case might be, I would find that the farmer was well satisfied with the results. In such cases, if he had not carefully weighed the crops on his test plots, the



He Considers It a Good Investment

Mr. A. A. McDonald, Glangarry Co., Ont., who owns the silo here illustrated, considers the money article Mr. McDonald tells something about the construction of this silo.

experimenter would have been satisfied, as is Mr. Cottingham, that fertilizers did not pay with him. On a field of corn for instance it is a very hard proposition for a man to estimate by the eye alone a gain of five, six or even seven dollars to the acre in a heavy crop.

The farms so rich that on them fertilizers will not pay, if they exist, are few and far between, and it will only be a matter of time before even on these farms fertilizers will be used profitably.

Jottings from Farmers

It is not enough to know the average production of the dairy herd. One or two cows may be doing it all.—C. F. Whitley, Ottawa, Ont.

Spring pastures will look good to us farmers in this spring of short feed. We will be further ahead, however, if we keep the cattle off until the usual date.—A. C. Callack, Cumberland Co., N. S.

To say that we need better cows is all right. But first we need better men. Then there will be no trouble about getting the cows.—A. L. White, Glangarry Co., Ont.

How a Concrete Block Silo was Built

A. A. McDonald, Glangarry Co., Ont.

Our concrete block silo illustrated herewith is 32 feet high by 16 feet inside diameter, and cost me \$310, besides hauling material, the gravel and boarding the men. The gravel and sand cost us \$10 in the pit. We gave a contract for the building at \$300, the contractor furnishing all material except gravel and sand. We hauled 25 loads of gravel and five of sand in the winter, when work was not pressing.

The contractor used 55 barrels of cement worth \$121; iron for hoops, \$15, and the galvanised iron roof, \$40. The blocks are made of a one to six mixture of gravel and cement, faced outside with sand and cement one to two. The inside is plastered with sand and cement one to two.

The blocks are laid on a concrete foundation 18 inches wide, eight inches thick and extending five to seven feet in the ground. A tile drain runs around the wall to carry off surplus moisture. The reinforcing consists of three-eighths to one-half inch hoops laid between every second row of blocks in the cement mortar. The door is continuous, making it easy for us to get out silage.

This block silo has given the best of satisfaction with us. We have had both the square, wooden and stave silos, and the corn does not freeze any more in this one than in the older types.

Pointers on Horse Breeding

By W. J. Kennedy

The man who succeeds in breeding draft horses must ever keep in mind size, quality, feet, legs and action. These are all utility points. The markets demand horses weighing 1,700 pounds and upwards that have good body conformation, large feet, of good texture, strong, clean bone, large, sound joints, heavy, muscular development, combined with good, straight, snappy action. Such horses command high prices, and are very scarce. The statistics for the year 1911 show that only one horse out of every 20, sold at our leading horse markets, filled the bill. This is surely a good line of work to pursue for many years to come.

The vast majority of our farmers make a serious mistake when they sell their good draft mares to go to the cities. A good draft mare is worth twice as much on any farm, if she is used for work and breeding purposes, as she will sell for in any horse market. Only mares of good weight, body conformation and absolutely sound should be retained for breeding purposes.

It is very important that the stallion used should be sound, drafty, stand well on his feet and legs, short and straight in his back, heavily muscled and show good disposition as indicated by width and flatness of head between the eyes. Avoid unsound, small-footed, light-boned, crooked-legged or shallow-bodied stallions.

Improved stock, tile drains, labor saving machinery, all of these will return greater interest on the investment than will any bank account.—G. P. Armstrong, Wentworth Co., Ont.

THE FARMERS' INTEREST IN COMBINES AND MERGERS

ARTICLE NO. 16.

While we farmers have been occupied by our efforts to increase the productiveness of our farms, other people have been devising methods by means of which they would be enabled to so control the production and distribution of staple products, that we, as well as the rest of the community, would be forced to pay them higher prices for all such articles. Success has attended both lines of effort. Improved methods of agricultural practice are enabling us to produce more from our farms to-day for a given amount of labor, than we ever could before. At the same time, we have more combines and mergers in Canada than our country, hitherto, has ever known. In consequence, we are paying higher prices for many necessities, and thus we are losing the benefit of the increased productiveness of our farms.

Not all combines are bad. Many are positively good. Combines that have for their object the elimination of waste in the processes of manufacture by such means as the installation of expensive modern machinery, or the reduction of operating expenses, are commendable and should be encouraged. Especially is this the case when the savings thus effected are shared with the public. When, however, the men behind these combines and mergers use questionable methods—such as some of those that have been revealed in our Canadian courts as well as in the law courts of the United States, as in the case of the Standard Oil Company, the Beef Trust and others—in order that they may crush out the competition of weaker concerns, control production and advance prices to the consumer, they become dangerous and require to receive the attention of the public.

A CHANGE IN MANUFACTURING CONDITIONS

So busy have most of us farmers been with our own affairs we have given very little attention hitherto to the change that has been taking place in manufacturing conditions in Canada, nor have we considered what effect these changes might have on us as individuals. We have wondered at the increased evidences of rural depopulation. At the same time we have marvelled as each new combine and merger has been announced at the millions and millions of dollars we have read of as being represented by the capitalizations of the companies concerned. That the two were in any way connected, has not occurred to most of us. And yet they are connected. Each new combine and merger as it gains the power to control prices gains the power to squeeze us as we work on our farms by forcing us to pay into its coffers higher prices for the articles we buy. Thus it adds to the forces that are operating to make farming relatively less profitable than it should be, and thus to force farmers off their farms.

In order that the readers of Farm and Dairy may gain some conception of the tremendous change that has taken place during the past few years, in manufacturing conditions in Canada, we herewith present some figures as obtained from the Dominion census returns, which speak for themselves. Attention has been called to these figures before but they are well worth repetition. They illustrate how thousands upon thousands of small manufacturing concerns have been driven out of business or been absorbed by larger concerns, and they show how it is becoming easier year by year for these larger concerns, through combining, to gain control of the manufacture and distribution of staple products.

WHEN MANUFACTURING CONCERNS WERE NUMEROUS

In 1871, when the population of Canada was 3,485,761, the census returns showed that there were 41,259 manufacturing establishments in Canada employing 187,942 wage earners. By 1901, when the population of Canada had increased to 4,833,239, the number of manufacturing establishments had increased to 75,964, and the number of wage earners employed in these establishments to 369,895. Since 1891 there has been a marvelous change. In 1905 when the population of Canada was approximately 6,500,000, the number of manufacturing establishments had decreased by over 60,000, or to 15,796. The number of wage earners also showed a decrease but a much smaller one, as in 1905 the census returns showed them to be 356,034.

STRIKING FIGURES THAT TELL THEIR OWN TALE

In 1906 the Dominion Government took a special census of all manufacturing establishments. The following table shows the number of factories in 1891 and 1906 making the articles mentioned, together with the number of employees and the value of their output:

Manufacturers	1891		1906	
	No. of Factories	No. of Employees	No. of Factories	No. of Employees
Boots and Shoes	5,398	18,041	138	12,035
Carpets	557	915	5	726
Carriages and Waggon's	3,326	9,066	368	4,751
Agricultural Implements	221	4,543	88	6,711
Furniture	1,286	7,180	181	7,370
Tanneries and Leather Finishers	892	4,287	183	3,274
Harness and Saddlers	1,567	3,159	192	1,947
Paints and Varnish	72	537	30	651
Drugs	135	667	33	739
Woolen Goods	377	7,156	129	4,352
Cotton Goods	23	8,635	20	10,214
Fancy Goods	47	230	4	75

The foregoing table shows, as will be seen, that whereas there were 5,398 establishments in Canada in 1891 making boots and shoes, something which every farmer has to buy, there were in 1906 only 138; that whereas there were 557 carpet factories in 1891, there were only 5 in 1906. A similar tale is told in the other lines of trade by the figures given.

THE MOVEMENT CONTINUES

The results of the census taken last year, as they relate to the manufacturing industry, have not yet been announced. That they will show a still further decline in the number of manufacturing establishments we have every reason to believe. The Monetary Times, of Toronto, a financial paper of recognized standing, announces in its issue for January 6th, 1912, that the number of industrial amalgamations consummated in Canada between January, 1909, and December, 1911, was 431. The aggregate authorized capitalization, including bonds, of thirty-nine of these mergers was \$334,938,266. The 41 amalgamations absorbed 196 individual companies. The largest consolidation was the Canada Cement Company, which absorbed twelve companies.

The foregoing tables tell the tale in the rough. To understand what they mean to the people of

Canada it is necessary to examine the combines and mergers that have grown out of these conditions separately. When this is done we find that in instance after instance the combines and mergers, which are now a recognized feature of industrial conditions in Canada, have not only gained control of the products they handle, but they have greatly increased their cost to the public. Many of them, also, have sold millions of dollars of watered stock to the public. Thus, in many instances, they have helped to make millionaires out of practically nothing, while at the same time forcing the public of Canada to pay prices for absolutely necessary articles that would enable the combines to pay profits on this watered stock.

Modern Methods of Syrup Making

T. R. Bennett, Huron Co., Ont.

There are several good reasons why the man who wishes to make syrup for sale must adopt modern machinery and methods of operation. To secure a profit labor expense must be lessened. We tap about 1,000 trees, and two men are able to do all the work in connection with the business through using up-to-date appliances. By using sap spouts with a swirl hook we are able to empty three buckets by upsetting sideways, while one would be removed one by one and replaced with the old spouts. We also save time by gathering with extra large pails holding 18 quarts of sap or about what is contained in two buckets. These are only carried a few steps to the road and emptied into a round gathering tank mounted on a sledge drawn by a team. The gathering tank is self-emptying, requiring only a couple of minutes to empty when the sled is on the gangway beside the store tank.

EVAPORATOR SAVES LABOR

The greatest saving of time and fuel, however, that we make is obtained by using a Grimm evaporator. This machine is provided with large boiling pans, with corrugated bottom, thus doubling the boiling capacity, and is also provided with a regulator or float box to keep the liquid at a uniform depth of from one-quarter to half an inch all over the pans. Thus the capacity is again doubled through shallow boiling. The arch for the evaporator is provided with a damper which diverts the heat away from the finishing pan while drawing off. The syrup, therefore, can be finished thick enough for market without any reheating or cleansing at the kitchen stove. Where hundreds of gallons are made this is a very important point.

In addition to the saving of labor, our modern evaporator enables us to effect a great saving in fuel, as we can make four times the amount of syrup we formerly did with the same amount of fuel used in a brick or stone arch with the deep boiling system.

We make a far superior article of syrup by using clean tin utensils for gathering, storing and boiling sap, and we have no trouble to get from \$1.50 to \$1.60 an Imperial gallon for all our syrup, and retain our customers from year to year, while those who make in the old way are selling their syrup to the few who demand the "good old-fashioned" syrup as they call it, although some call it "blackstrap," at about \$1.25.

Most of the syrup made in this section, and there are about 20 up-to-date outfits within a radius of about two or three miles, is sold in the towns around here, although several send to Manitoba, and even as far as Vancouver, the purchaser paying the freight. The syrup from the evaporator is better because we can eat it with a relish, knowing that it is not colored or contaminated by ashes, dust, "millers," seed, leaves, etc., and is filtered through the pure wool-felt filter instead of an old flannel bag.

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"Extract from a

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Results from Seed Selection*

T. G. Baynor, Seed Division, Ottawa, Ont.

Some of the older operators in the Canadian Seed Growers' Association are now reaping the rewards of their labors and are seeing visions about their future prospects, which is lending real enthusiasm to their work of seed improvements. They have reason to be proud of their achievements.

In growing fall wheat one of our best members is Mr. C. E. Gies, of Heidelberg, Ont. His practice, which is a good one to follow any year, is to manure on seed after the hay is removed or the crop has been pastured off, plow, work well with disk harrow after rolling the plowed bed, and on it sow his fall wheat. He has, during the last six years, averaged over 54 bushels an acre on large field areas. Possibly the average yield of fall wheat this year in his neighborhood was not more than 30 bushels an acre. He sold all the seed on his multiplying plot, some 300 bushels, for seed this year. He expects to sell quite readily all his barley and oats for seed this spring.

AHEAD OF HIS NEIGHBORS

Mr. Lewis, of Dunsford, has been very successful in his work since he started selecting his seed. Last year his crop prospects were not nearly so good as in former years on account of the long continued drought which prevailed there. Yet the threshing results as compared with his neighbors were much better, and in part should be attributed to selected seed. His barley yielded 35 bushels an acre, while the average for his neighbors was 25 bushels. They had 30 bushels of oats an acre, while his was nearly 50 bushels. He disposed of 100 bushels of Siberian oats at \$1 a bushel to a large wholesale seed house in Winnipeg, and for 200 bushels of Manchouiri barley he got 30 cts. a bushel more than commercial barley was fetching. Help was so scarce there that he preferred to do this to sending it out in smaller quantities.

Mr. Alf. Hutchinson, another member, was more favorably located this year for showera than many of the other members. His potato crop was a particularly good one, considering the season, nearly 200 bushels an acre on an area of five acres. He is having no trouble in selling his surplus for \$2 a bag. Some of the seed potatoes he sent out last year he has heard from and they made good wherever they went. The selected seed is claimed to give better results than where local seed was used without any improvement. Mr. Hutchinson has sold some Siberian oats and O. A. C. No. 21 barley, and thinks he will be able to sell everything he has to spare at good prices. He has gotten out a little price list of his own announcing the kind of seed he has for sale and the price asked.

SOLD EVERY BUSHEL

Mr. John Hunter, of Wyoming, writes: "I have sold every bushel I have to spare, and am unable to supply all the demand."

Mr. Duncan Carmichael, of West Lorne, says: "The demand for seed corn is keen. Barley orders are slower. We sold about 300 bushels of fall wheat for seed and expect to easily clean up everything we have for sale."

Mr. L. D. Hankinson, Grovesend, who has a lot of corn for sale, says that orders are coming in satisfactorily. There are many ordering, he writes, who do not know the corn best suited for their locality, and suggests that they should be discouraged in doing so.

Mr. G. H. Coatsworth, of Ruthven, who is a very successful grower of corn, says that his would safely average 120 bushels per acre on the ear, while the average of his neighborhood would

be less than 100 bushels an acre on the ear. Mr. A. H. Woodbridge's Reid's Yellow Dent, Kingsville, went about 115 bushels an acre, on a plot of five acres.

RESULTS IN A DRY SEASON

Mr. Robert Thompson, St. Catharines, had a field of seven acres planted on clover sod. It was exceptionally dry in May and June, yet his corn crop averaged 110 bushels of ear corn an acre, and now Mr. Thompson has no trouble in getting \$1.75 a bushel of 70 pounds on the ear, when shelled corn of 56 pounds a bushel is fetching from \$1 to \$1.25 a bushel for seed. He also reports that some neighbors that got seed from him last spring have nothing but praise for



Where Concentrated Lime Sulphur is Boiled at Little Expense

Most of our apple growers have come to prefer the commercial brands of concentrated lime-sulphur spray to the home-made article. Mr. J. W. Clark, Brant Co., Ont., whose boiling outfit is here shown, prefers to boil his own and believes that he saves money on the operation. His method is described in the adjoining article.

—Photo by an editor of Farm and Dairy.

the results.

Mr. T. J. Shepley, Guvry, had two hand-selected plots of corn which gave a clear demonstration of the value of thorough tillage this year. They also showed the value of the seed corn being well bred. His plot of Wisconsin No. 7 was a thing of beauty. The ears occurred so regularly upon the stalks and were so well matured that they looked like so many soldiers lined up.

These examples, with others which might be mentioned, go to show that the careful selection of seed grain pays in more ways than one. Even when the season is adverse, breeding and selection tells. More wide-awake farmers should fall into line and help improve the seed of the country.

Select the Right Variety.—In the selection of a variety of oats, we should remember that the thickness of the hull, a very important factor, varies from 22-1/2 per cent to 47 per cent. In other words we would need to grow 25 bushels an acre of the second to get an equal amount of feed value with the first. We should also remember in selecting oats that the weight per acre does not determine the quality as it does in most other grains. The varieties that weigh 37 to 40 lbs. a measured bushel almost always have thick hulls and are of inferior feeding value. Do not mistake me, however. The heavier a good variety weighs the better, but we want to be sure that we have a good variety.—W. Squirrel, O. A. C., Guelph, Ont.

Kimball's Dairy Farmer says that "the propensities and most successful dairy farmer is comfortable only when his stock is comfortable." The indifferent dairyman always puts his own comfort first. We would suggest that his comfort is that which tendeth to poverty.

Concentrated Lime Sulphur Made at Home

"Other than the cost of time I can make lime-sulphur for a cost of about (sulphur, \$1.50; lime, 25c) \$1.75 a barrel. Boil this one hour in a suitable home-made boiling outfit, add 40 gallons of water and I have my barrel of best commercial lime-sulphur concentrated solution testing 30 to 31 on the Beaume hygrometer. It costs \$7 to \$8 a barrel to buy the commercial lime-sulphur wholesale. I can make three barrels a day, so you see what I can make out of it. I use 56 pounds of lime and 112 pounds of sulphur to 50 gallons of water."

In these words did Mr. J. W. Clark, of Brant Co., Ont., a fruit grower of note, tell one of the editors of the Farm and Dairy who visited his place last summer why he preferred to use his own home-boiled lime-sulphur.

"While at the Pennsylvania State College, in charge of the Poultry Department there, I watched Professor Stewart and helped him with his experimental work in making lime-sulphur. I there got first hand information, which enables me to make this home-made lime-sulphur of such a high grade. It was worth a great deal to me to have this privilege of assisting Professor Stewart, who is the man that perfected the lime-sulphur wash as now used so generally by orchardists.

SUCCESS DEPENDS ON DETAILS

"The secret of making good lime-sulphur all hangs on two or three very minor points to which the average man will not give heed; hence he gets into trouble when he goes to make lime-sulphur. I did boil with a kettle, but it was not satisfactory. Therefore, I constructed a home-made furnace. [This furnace may be seen in the illustration herewith.]

"This season," continued Mr. Clark, "I used up over 1,200 lbs. of sulphur in making my own lime-sulphur and several barrels that I sold to my neighbors."

The fine point in making this home-made lime-sulphur, as Mr. Clark makes it, is as follows:

Take 15 gallons of water and put in 56 lbs. fresh Beachville or St. Mary's lime. Place it right in the water and let it slack, all being in the pan over the furnace. It will need stirring only a little. After all is slacked the lime will be like thin putty. Then with a sifter sift the sulphur with the putty, which will mix just like mortar.

A POINT TO NOTE CAREFULLY

It is absolutely necessary not to have too much water as then balls of sulphur will form, or as we say, "it will go lumpy." When properly mixed there are no lumps. Then one can add the amount of water necessary, start the fire, boil it for an hour and there will be no trouble whatever and it will not boil over.

The pan on Mr. Clark's furnace is 28 inches wide by 51-2 feet long. The bottom is of heavy galvanized iron, the heaviest that could be bought. The sides are of two-inch plank.

(Continued on page 3)

*Extract from an address before the Canadian Seed Growers' Association annual meeting in Ottawa.

For championship honours, largest yields and highest feeding values sow—
CARTER'S TESTED ENGLISH SEEDS

CARTER'S PEDIGREE MANGELS. Yellow intermediate, Windsor Yellow Globe, Mammoth Long Red, etc. 40c. per lb. f.o.b. Toronto
CARTER'S PEDIGREE SWEDES. Invicta (bronze), Elephant (purple), Kangaroo (green top), etc. 30c. per lb. f.o.b. Toronto
CARTER'S "INVICTA" LAWN GRASS. For velvety "Old Country" lawns, varieties specially selected to succeed in the Canadian climate. Write for booklet on turf. Seed, per 25 lbs. \$6.25, per 5 lbs. \$1.30, per lb. 30c. f.o.b. Toronto
CARTER'S VEGETABLE AND FLOWER SEEDS, in 10c. pkts., post free

All bags and packets protected by the seal and name of the leading firm of scientific seed producers in the world

JAMES CARTER & CO., London, Eng.
Seed Growers by Appointment to H. M. King George V., H. M. Queen Alexandra, H. R. H. The Duke of Connaught

The distributors for Canada will supply or give the name of nearest dealer. Address:

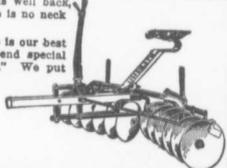
PATTERSON, WYLDE & CO. P. O. Box 552
TORONTO
And at Chamber of Commerce, Boston, Mass.

The "BISSELL"
out-throw DISK HARROW

To settle all doubt about which is the BEST OUT-THROW DISK HARROW, we ask you to test the "Bissell" Out Throw in a field experiment with other Out Throw Harrows.

The "Bissell" Out Throw has many features that have made the name "Bissell" famous in connection with Disk Harrows. It has plates of the correct shape. One gang is set slightly ahead of the other. The gangs cannot crowd or bump together and cause the Harrow to rock when you come to hard soil—a new feature in Out Throw Harrows. The hitch is well back, and the draught is light and there is no neck weight.

The machine in actual use is our best advertisement. No need to send special travelers to sell the "Bissell." We put our name on every Harrow. If you would like to learn more about Disk Harrows, send to Dept R for free booklet. Let of both out-throw and in-throw styles. 68



T. E. BISSELL CO., LIMITED, ELORA, ONT.

ADVERTISE in these popular columns, which others find so profitable—costs you only 95 cents an inch

Seed Corn Best varieties for ensilage. My corn has taken numerous prizes at our own shows. Price \$1.50 for 68 lbs. on the car. Write A. E. WISMER, Box 54, Essex, Ont.

\$1.95
AND UPWARD
SENT ON TRIAL
FULLY
GUARANTEED.

—AMERICAN—
SEPARATOR

A brand new, well made, easy running, easily cleaned, perfect skimming separator for \$18.95. Skims one quart of milk a minute, warm or cold. Makes thick or thin cream. Thousands in use giving splendid satisfaction. Different from this picture, which illustrates our large capacity machines. The bowl is a sanitary marvel and embodies all our latest improvements. Our wonderfully low prices on all sizes and generous terms of trial will astonish you. Our twenty-year guarantee protects you on every American Separator. Shipments made promptly from WINNIPEG, MAN., ST. JOHN, N. B. and TORONTO, ONT. Whether your dairy is large or small get out great offer and handsome free catalog. ADDRESS,



AMERICAN SEPARATOR CO., BOX 1209, BRIDGE, N. B.

FARM MANAGEMENT

Rotation of Crops

Prof. J. H. Shepperd
Corn and potato crops will cultivate save moisture, destroy weeds, rid the land of wheat and fly insects and diseases. Incorporate stable manure when applied and make the land produce good flax, wheat and barley crops when they follow.

Clover, alfalfa and field peas are crops that gather nitrogen from the air and will, if they are fed to live stock, add materially to the fertility of the soil. Grass crops tend to keep the land from blowing. Growing these crops make the keeping of live stock a necessity. The men who have

ing such work. By arriving at the culcated contents of the wall of the silo, from the basis given above you can easily arrive at the quantity of cement necessary for the work.

Special Trains for Homeseekers

Those taking advantage of the Homeseekers' Excursions should bear in mind the many exclusive features offered by the Canadian Pacific Railway in connection with a trip to the West. It is the only all-Canadian route. Only line operating through trains to Western Canada. No change of depots. Only line operating through Standard and Tourist Sleepers to Winnipeg and Vancouver. All equipment is owned and operated by Canadian Pacific Railway, affording the highest form of efficiency. Dining car service unsurpassed.

Homeseekers' rates will be in effect April 2, 16, 30, May 14, 28, June 11, 25, July 9, 23, Aug. 6, 20, Sept. 3, 17, and round trip second-class tickets will be issued via Canadian Pacific Railway from Ontario points at very low rates, for example, Winnipeg and return, \$31.00, Edmonton and return \$42.00, and other points in proportion. Return limit 60 days.

For the accommodation of Canadian Pacific Railway passengers, a special train will leave Toronto 2:30 p.m. on above dates, comprised of Tourist and Colonist Sleepers. Colonist Sleepers may be occupied free of charge. Passengers, however, must provide their own bedding. Tourist Sleeping cars will be operated through to Edmonton via Saskatoon, also through to Winnipeg and Calgary. A moderate charge is made for berths in Tourist cars.

Both Tourist and Colonist cars are provided with cooking ranges, which trainmen have instructions to keep in condition. Full particulars from any Canadian Pacific Railway agent. Ask for copy of Homeseekers' Booklet.

Breeders, Attention!

Consider for a moment how you would like to have a full page of information about your superior cattle placed in the hands of, and read by, nearly 14,000 of the leading breeders of dairy stock, dairy farmers and leading dairymen in Canada! Think what it would mean to you!

As an investment we do not know of anything that will bring returns so surely and so satisfactorily as a page advertisement, and a series of advertisements, about a worth-while herd, which has stock, or will have stock, for sale.

You will be impressed with the value of such advertising after carefully noting the page advertisement in Farm and Dairy last week for the ALLISON STOKES FARM.

Such an advertisement costs comparatively little, and when placed in Farm and Dairy it takes you right next ALL OF THE LEADING DAIRY CATTLE BREEDERS in a forestal, result-bringing way.

It does get paying work and at a cost not to be approached elsewhere.

Think of it! That page advertisement set up, printed, mailed out to, and read by nearly 14,000 individual, progressive dairy farmers, and at a cost of 3 for one cent!

Say! Would you like to make such an announcement to Dairy Cattle Breeders?

You can, at your service. Write us to-day about it, and we'll arrange to have you in our GREAT DAIRY ANNUAL, April 4th, or other issue as you may favor.

grown live stock are the most successful and thrifty.

The frequency and order of these crops must be gauged for each individual farm according to its needs and most of them require two systems on two sets of fields.

How Much Cement

How can I calculate the amount of cement that will be required for silos of various sizes? I am a contractor—A. L. Durham Co., Ont.

You can roughly estimate the quantity of cement necessary for the building of a silo by taking as a basis that one barrel of cement will make from 25 to 35 cubic feet of concrete, depending very largely upon the quality of the aggregate in the way of gravel or sand and crushed stone, the availability of boulders for embedding into the concrete, and the experience of the man in the making of concrete do-



BIBBY'S CREAM EQUIVALENT

CALF MEAL

No other food except fish meal itself contains so much nutriment for calves and young pigs as this meal. The Government test shows a much higher percentage of realizable value than other feeds. Not a "dodge," but an extremely wholesome food, made and endorsed by the honorable firm—the largest manufacturers of Oil Meal in the world.

50-lb. bags, \$2.50, at all dealers.
WH. HENKE CO., LIMITED, TORONTO

Foreign

We in the heart the the Unio Agricultural United St. Although toes are a nine-grown substituted several p known to which, if means of rual viral diseases be out the coming future ly increased Do not, circumstances tatoes for s

SE

Scottish Champ food clean chant who is seed was the B-RUSH, LO Bags extra, while these o JOS. MADILL

Day

R. and S.C. Ireland Roes. Also EGGS (Regal strain Buff Orpington Barred Rocks, plant, and th. Can guarantee antee 80 per in early

Grow

K. PENTL

BABY

Now is the best laying st and Single Co "UTILITY" PO T. G. D.

Ext

You can earn when you go shop, to the m treasury, by a neighbors about them to a cash commissio you get for us on this proposi

THE RU

Pe

Value

How to build a big business



every farmer very book. The foundation of a profitable business is in the correct lighting, the correct use of about silos, etc., and about the best way to build in the business and other ways to prosper. We have our own dairy farms based on this principle. Large in dairy farm. Some in stock, some in hogs. We are willing to know more about this book and its value on your farm. Write for free questions: I would like to know. Will you write a letter back to me? BEATTY BROS.

Foreign Potatoes Dangerous for Seed

We in Canada can well take to heart the following advice issued by the United States Department of Agriculture for the benefit of the United States farmers:

Although home-grown seed potatoes are selling at high prices, foreign-grown potatoes should not be substituted for them. Europe has several potato diseases not now known to exist in this country, which, if introduced, might be the means of greatly reducing our annual yield of potatoes. Should these diseases become prevalent throughout the country the cost of producing future crops might be very greatly increased.

Do not, therefore, under any circumstances use foreign-grown potatoes for seed either at the north or

at the south. The sorts which are coming to this country at the present time are late sorts and are not adapted to planting in the south where early potatoes are the main crop, neither are they adapted to planting at the north, for they will not produce a satisfactory yield.

They are not adapted to our soils or to our climate, and will not yield profitable crops; but the danger of introducing diseases not now present is sufficient reason for refusing to plant them.

The Feeders' Corner

The Feeders' Corner is for the use of our subscribers. Any lists interested are invited to ask questions, or send items of interest. All questions will receive prompt attention.

Feed for Stallion

What is the best feed for a Clydesdale stallion from now on? Are there any particular feeds I can give him for a more better service?—M. C., Ontario Co., Ont.

The feed for a stallion depends upon



The Agricultural Special
"One Who Was There," Peterboro Co., Ont.

Agriculture is the basis of the prosperity of all other industries. That sounds like a truism, doesn't it? Our railway companies have always known it, but they are just waking up to the fact of its significance for them. Last year, the Michigan Central started in to make agriculture more prosperous in South-Western Ontario by sending an agricultural demonstration train through that part of the province. When the C. P. R. starts in to do things, however, they do it on a big scale. They have just run a train under the superintendence of Mr. Timmerman from one end of Ontario to the other, and so successful have they been in drawing large crowds and sending them away with something worth while that the chances are that they will run that train right through to the Maritime provinces.

Very philanthropic, you say. Not at all. They are doing it for their own selfish interests. But in this case their interests are our good also, and let us make the most of it. If any who read this article have an oppor-

You Can't Take Chances
If you want the Best Seeds that grow, then you want

McDONALD'S SEEDS

For twenty years McDonald's Seeds have made money for a host of progressive farmers and gardeners all over Canada, they'll do the same for you. Send for 1912 catalog, FREE.



Kenneth McDonald & Sons, Ltd.
Ottawa
Write under Dept. 3 Ontario

TIMOTHY SEED

Buy The Best

Ottawa Valley Seed, Capital Brand, grown in the best hay growing section in Ontario. Every bag inspected by officer of Seed Commission, Ottawa.

No. 2 Govt. Standard, lb. 16c; bush, \$7.68
No. 3 " " " 15c; " " \$7.20

Above prices for five bags lots and up. F.O.B. Navan, Ontario. This seed has been threshed off good heavy clay land and is good, strong, vigorous seed.

Compare my prices with others and remember each bag of seed will be inspected before shipping.

Farmers buying seed of me can send money to Traders Bank, Vars, Ontario, and when seed is shipped, bank will transfer money.

MARSHALL RATHWELL, NAVAN, ONT.

Seed Corn

We have 4,000 bushels of Seesoo corn—leading varieties grown in Kent County, and raised in our own crib, which we sell in small quantities—on the cob or shelled.

Dent varieties \$1.40 per bushel
Pilot " " " " \$1.75 " "

Special prices on orders of 10 bushels or more.

Terms cash with the order.

MONEY REFUNDED IF NOT SATISFIED

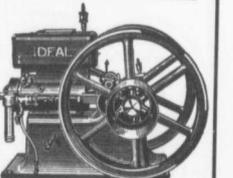
M. W. SHAW & CO.

Jeannette's Creek, Ont.

"LONDON"
Cement Drain Tile Machine
Makes all sizes of tile from 4 to 16 in. Cement Drain Tile are here to stay. Large Profits in the business. I intend to send for catalogue, London, Canada Machinery Co., Dept. B, London, Ont. Largest manufacturers of concrete Machinery in Canada.

GASOLINE ENGINES

11 to 50 H.P.
Stationary Mounted and Traction



WINDMILLS
Grain Grinders, Water Hoists, Steel Saw Frames, Pumps, Tanks, Etc.
GOOD, SHAPLEY & MUIR CO., LTD.
Brantford Windsor Catalog

SEED OATS

Scottish Champion Variety. Weight 48 lbs. per bushel good clean seed. A Peterboro seed merchant who tested these for me found the seed was the best he had seen this year. —BUSH, LOTS, 76c; SMALL LOTS, 90c. Bags extra. Get your order in soon while these oats last.

JOS. MADILL, FRASERVILLE, ONT.

Day Old Chicks

R. and S.C. White Leghorns and Rhode Island Reds, both R. and S.C. 12c each. Also EGGS from these breeds and from a limited number of White Wyandottes (Regal strain), White Rocks, Black and Buff Orpingtons, \$1.50 per 15. Also Barred Rocks, \$1.00. I have a big poultry plant, and this business is my specialty. Can guarantee your satisfaction. I guarantee 90 per cent fertility. Get your order in early.

Grove Poultry Yards

K. PENTLAND, Peterboro, Ont.

BABY CHICKS

Now is the time to order. Get the very best laying strain of Single Comb Buff and Single Comb White Leghorns from "UTILITY" POULTRY FARM, Stratford, Ont.

T. G. Delamere, Proprietor

Extra Money

You can earn money in leisure hours, or when you go to town to the blacksmith shop, to the mill, to the cheese factory, or creamery, by speaking to your friends and neighbors about Farm and Dairy and getting them to subscribe. We pay a liberal commission for each new subscriber you get for us. It'll pay you to get busy on this proposition. If you are out on THE RURAL PUBLISHING CO., Peterboro, Ont.

Valuable Book on Barn Building FREE



Write at once for this valuable book. It contains the best building of dairy cows. It explains the every farmer should have regarding the construction of correct construction and gives the best lighting, ventilation, stable floors, and other construction, and contains suggestions about sites, site, exposure, apparatus, design, and other information that may help you. It will find in this book a number of practical barn plans and other information that may help you. It will find in this book a number of practical barn plans and other information that may help you. It will find in this book a number of practical barn plans and other information that may help you.

BEATTY BROS. BOX C FERROS, ONTARIO

How People Showed Their Appreciation of the Farmers' Special

The Canadian Pacific Railway Company has good cause to be proud of the formation of the Farmers' Special. Everywhere their special agricultural train was met by crowds of appreciative farmers, sometimes numbering several hundred at one stopping place. The illustration shows a specimen crowd at Bethwell, Ont. Such success will encourage the company to continue their good work.

on the condition of the animal, but, as a rule, good, sound, well-cleaned oats is the best feed. With horses, as with other stock, an occasional change of ration is good. If you will feed oats and give an occasional feed of corn or barley, preferably corn, just for variety, this will be the best kind of feed you can give your horse. In connection with the above grains, a little wheat bran is often very good, as it assists in keeping the general health of the stallion a little higher than if no wheat bran is fed.

Hay, like grain, should be clean and not mucky, musty nor dusty. The idea that some particular feed will materially benefit your horse is a mistake. Any kind of feed, such as the grains referred to above, that will aid in building up his general strength and health and vigor, should be fed regularly, disregarding most of the commercial feeds now on the market.

Green Feed for Cows

I am planning to soil about 15 cows this summer. What would my good green feed and how much would I need to sow for this number?—W. E., York Co., Ont.

A mixture of peas, oats and vetches sown in the proportion of two bushels of oats, one bushel of peas and one peck of vetch seed makes a very satisfactory green feed for milch cows. The amount of seed would depend altogether on the richness of the soil. For 15 cows, six to eight acres of green feed would carry them over until after the grass and fodder corn was available. We would suggest making a seeding of 20 acres and a half or two acres first thing in the spring and further seedings at intervals of two or three weeks.

tunity to see that train I would urge them not to miss it. I know that a visit to it is well worth while, for I was there myself, and only regretted that the train did not stop off at our station longer.

SOMETHING THERE FOR YOU

There is something there for every one of us. To start with all of us are interested in horses. Dr. Reed, of Georgetown, is right on hand to answer every question you can pop along that line, and his exhibit in one of the baggage cars, showing the effects of various diseases and unsoundnesses of the horse, are well worth inspection. The Physics Department of the Ontario Agricultural College have an excellent exhibit that will give you a splendid appreciation of the qualities of various soils, and just why their draining pays the way it does. If you learn all you can from the cement getting stung on a bad batch of cement, for you will there learn how to test cement yourself. I have not time to say anything about the fruit, poultry and honey exhibits. They are all good too.

For boiled down, condensed information I never heard anything to touch the lectures that I listened to in the passenger coaches. No words wasted; just the best of information coming out 30 words to the second. I wouldn't have written this letter to Farm and Dairy, only I don't want anybody to miss that train who gets a chance to see it.

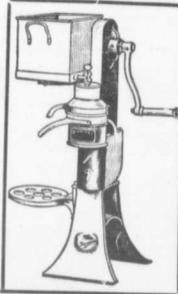
Grow a small acreage of peas and oats, or oats alone, as a soiling crop to be cut green and fed to the cows when the pastures commence to fail.

Lifting a Pail of Milk 3 Times as high as the Rocky Mountains

Consider the importance of the LOW supply can of the Standard Cream Separator. Over a foot lower than supply cans of ordinary separators. Assuming that your wife skims 20 pails a day, it means that, in 30 years, the Standard will save her a difference equal to lifting a pail of milk 3 times as high as the loftiest peak in the Rocky Mountains. It will save her the same difference again in lowering the empty pail.

Standard

You wouldn't ask your wife to climb up a Rocky Mountain peak. Why ask her to lift a pail of milk three times as high? That's what makes ordinary separators ask her to do it—what you can prevent by giving her The Standard. The Standard has other conveniences that make it the "world's greatest separator." They are told about in our booklet. Write for a copy. We challenge other makers to show a single good point we haven't incorporated in the Standard. But there are some new and exclusive features in the Standard that you'll find in no other separator.



The Renfrew Machinery Company, Limited

Head Office and Works:
RENFREW - ONTARIO

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The Oil You Need! For Your Separator

STANDARD

Hand Separator Oil

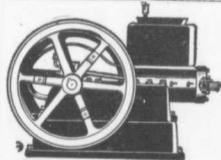
Never Gums, Never Rusts, Never Corrodes

Standard Hand Separator Oil feeds freely into the closest bearings and gives the best possible lubrication.

It makes your separator last longer and do better work as long as it lasts.

One gallon can all dealers, or write to

The Imperial Oil Co. Limited



This \$15 Down and balance in easy installments

IT IS EASY TO BUY the wonderful Gilson "Goes Like Sixty" Gasoline Engine on the above plan. Powerful, simple, durable, dependable, cheapest running, easiest to operate of any engine made. A positive guarantee given with every engine. Ten days' trial—first your first payment. Can anything be better? and we will return every cent of the 50,000 satisfied users. No, anything that it is not an experiment, but a tried and tested engine. Ask your banker about our reliability founded 1850. Tell us just what work you have for an engine to do and we will name you price and terms on the proper horse power. All sizes. Send for free catalogue. Big Money for Agents—write for our proposition.

GILSON MFG. CO., Ltd., 101 York Street, Guelph, Ontario, Canada

HORTICULTURE

Mulching Trees not Advisable

L. K. Shaw, Welland, Ont.

In last week's issue of Farm and Dairy I noticed an article by Mr. Samuel Armstrong, in which he advocates a system of orchard culture that I thought was dead and forgotten long ago. In case any Farm and Dairy readers may be inclined to follow up the suggestions outlined by Mr. Armstrong, let me point out some of the weaknesses of the mulching system of orchard culture.

Mr. Armstrong speaks of putting large areas of poor land into orchard. By poor land I presume that he means land that has become badly infested by weeds and will hardly yield a profit under ordinary farm crops. Perhaps too, it has been depleted in fertility to such an extent that it is no longer profitable. Such land unless given the best of care



Larger, Stronger Plants result from Frequent Transplanting

Our illustrations show the beneficial effect of transplanting young tomato plants. All of these plants are from the same seedling but those to the left receiving rootlets from the stronger plant. The same applies to other crops such as celery, cauliflower and cabbage.

will produce poor orchard as well as poor crops and will be just as unprofitable under the one as the other. We should remember when thinking of setting an orchard on land poor in fertility that a crop of apples will take as much from the soil as a crop of wheat yielding 25 to 30 bushels to the acre. Mr. Armstrong does not tell us where the fertility to produce such a crop is to come from as according to his plan no fertilizer is to be added to the soil.

TWO OBJECTIONS TO WEEDS.

Mr. Armstrong also speaks of allowing the weeds to grow, cutting them before they seed and dragging the debris up around the trees. This plan is open to two objections. The weeds would start to grow the first thing in the spring and use soil moisture when it is most needed by the orchard culture. A proper system of weeding and cultivation would be practiced at that season of the year to preserve the moisture and the cover crop or weeds would be allowed to grow later on when we wish to ripen up the wood and hence cuttail the moisture supply for the trees. I believe also that drawing the weeds up to the trees would make a fine harbor for mice and the first thing they know we would have a girdled orchard.

The orchard is the most profitable crop that we grow on our farm and I believe that we can afford to give it the best cultivation. We would not like to see such a careless system of orchard management as Mr. Armstrong advocates practiced.

I received my pure bred Yorkshire sow for securing six new subscribers to Farm and Dairy, from Mr. Hubert Dey, Gannanogue Jet., Ont., and am highly pleased with it. Every one that has seen it says it is a dandy, so I think I am well repaid for my work, as I found it quite easy to get those new subscribers. Mr. Jno. Ednie, Northumberland Co., Ont.

Concentrated Lime-Sulphur Made at Home

Continued from page 5.

Mr. Clark showed us the sieve through which he had strained all his lime-sulphur. This sieve was a very fine one, and there was very little "ground" in it. Everything had passed through the sieve, and there was practically nothing whatever left behind as is usually the case with the average man who makes or attempts to make concentrated lime-sulphur solution.

HAVE PROPORTIONS RIGHT

The main point emphasized by Mr. Clark was to be careful to get just the right quantity of water with the lime so as to incorporate the sulphur properly. Start the fire after it is ready, the solution having been thinned to 50 gallons; then there will be no sludge whatever, and the lime used is in clean water, the pan as shown in the illustration has a capacity of 50 gallons when the liquid measures 8 1/2 inches deep. The pan may be raised from the walls of the

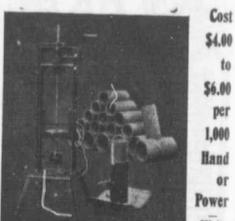
arch, which are constructed of cement, and a large tap or faucet at the end of one side enables the solution to be drawn off without difficulty.

"It is always well," concluded Mr. Clark, "to draw the solution into a bucket, get it cold and put it into barrels. My arch was put up only two days before the fire was used in it. The walls are in the ground eight inches, and it requires two sacks of cement to construct it."

It takes about one hour after the fire is started to bring the solution to a boil. Then no more wood is needed, the heat and coals keeping the solution boiling for an hour. It must be timed accurately. After one hour open up the front of the furnace, throw in water and put the fire out and add water enough to the solution to fill the pan to make the volume. — C. C. N.

Hand weeding is necessary in the can patch. The young plants are easily choked by weeds.

Make Your Own Tile



Cost \$4.00 to \$6.00 per 1,000 Hand or Power

Farmer's Cement Tile Machine Company WALKERVILLE, ONT.

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WHITE BLUES

A limited s
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Price, \$1.5
W. E. PAKEN

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TWO CENTS

ORPINGTONS,
per, White W
Black Minor
eggs.—HARRY

CHOICE SING
HORN EGGS,
Strains, \$1.50
Maple Grove,

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Capacity, 3.5
\$180.00. R. E.

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Nearly new
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FOR SALE—In
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WISCONSIN INCUBATOR

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Ship your N
Fresh Daily
PROMPT
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Wm. DA
TO

POULTRY YARD

How to Select the Best Layers

E. C. Calbeck, Cumberland Co., N.S.
A hen is a hen. Well, yes, and no. If one means that a hen has two legs, two wings, feathers, etc., just like all other hens, a hen is a hen. If one means, however, that one hen is as good as another when it comes to filling the egg basket then we must disagree. I was reading some time ago, I think it was in Farm and Dairy, of a pullet at the Ontario Agricultural College that laid 68 eggs in 68 consecutive days. No one can tell me that any hen can lay as many eggs as that hen did. That hen was bred to lay, and breeding counts for just as much with hens as it does with dairy cows.

It is comparatively easy to find out the individual production of the cows in a dairy herd. It is more difficult for us farmers to decide as to just which of our hens are laying the most eggs. It may be all right for the poultry man who has nothing else to do to go through the hen houses and inspect trap nests every 30 or 40 minutes. We cannot do this but we have a plan which has worked out splendidly.

We usually keep about 100 laying hens in four pens of 25 each. On the door of each of these pens is a card and every egg that is taken from this pen is jotted down on this card. As

WHITE ROCKS, ANCONAS, BLUE ANDALUSIANS.

A limited number of Settings of Eggs from my pure bred and heavy laying strains of the above breeds.
Price, \$1.50 per setting of 15 eggs.
W. E. PARENHAM. - - NORWOOD, ONT.

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD, CASH WITH ORDER
ORPINGTONS, Black, Buff, Golden, Silver, White Wyandottes, Dark Brahma, Black Minorca, Hamburgs, stock and eggs.—Harry Lash, Peterboro, Ont.
CHOICE SINGLE COMB BROWN LEGHORN EGGS, famous Becker and Gurney Strains, \$1.50 per 15. David A. Ashworth, Maple Grove, Ontario.

FOR SALE—Reid Poultryiser and Cooler. Capacity, 3,500 lbs. Good as new. Price, \$180.00. R. E. Frazer, Dutton, Ontario.

150 EGG INCUBATOR (Hamilton) for Sale. Nearly new. Also Brooder.—Address Box 912, Farm and Dairy, Peterboro.

FOR SALE—Iron slip, Palloxy, Belling, Ralls, Chain Wire Fencing, Iron Posts, etc., all sizes, very cheap. Send for list, stating what you want. The Imperial Wire and Metal Co., Dept. F.D., Queen street, Montreal.

125 Egg Incubator \$10
ordered together
Packed with heat of
Rocks, Hot water,
copper tanks, double
sails, double glass
doors. Free for 15 days
Wisconsin Incubator Co.,
Madison, Wis.

EGGS & BUTTER

Ship your New Laid Eggs and Fresh Dairy Butter to us. **PROMPT RETURNS** EGG CASES SUPPLIED
Established 1854

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TORONTO

the breeding season approaches we take the eggs for hatching from the pen that has produced the greatest number of eggs per hen during the preceding season first, being careful to cull out all the pullets that do not show signs of vigorous constitution. This system is easily worked, and we find that the laying qualities of our flock is improving every year.

Successful Chick Management
Maritime Poultry Supply Co., Montreal, N.B.

We use incubators for hatching our chicks, but when hatched all are placed in the fireless brooders and kept there until ready for roosting. To make a success of raising chickens we find that they must be given the greatest of care and be fed on the very best of food. We can raise more and better ones by doing the work right. Our chickens have a large house with a cinder floor to run in until they are well able to take care of themselves; then they are allowed the run of a large field which has been sowed to clover, lettuce, oats and so forth.

We feed our chicks on Purity chick feed, a mixture put up by ourselves, and we have never lost a chicken by disease during the five years we have been using it. When the chicks are five weeks old we work them off this feed on to a feed of various grains ground up small and when about two months old we keep a forcing mash before them in hoppers for about two months and then feed our regular laying mash also in hoppers.

KEEP NOW'S VERMIN.
It is necessary to keep the lice down. More chickens are killed by these pests than all diseases combined and people think it is not lice because they do not see them running around. We do not see them running around. We do not favor using lice powders on little chicks as it is too strong. We keep their brooders free of this pest by spraying with liquid lice killer twice a week. If we watch any signs we rub a little lice ointment on the head and under the wings. We keep fine grit before the chicks all the time and plenty of good clean water.

We separate the cockerels from the pullets when they are 10 or 12 weeks old and keep them separated until we mate our breeding pens. A little extra care to the little chicks means dollars and cents later on.

Strain or Breed?

When it comes to egg production strain is vastly more important than is breed. This is being proved on a large scale at the North American Egg Laying Competition that is now being conducted at Storrs, Conn. In this competition 23 breeds and several hundred pens of fowls are competing, and the variations between pens in the same breed are wide. For instance, in the Barred Plymouth Rock pens, one lot has 240 eggs to its credit and another only 42. In the White Wyandottes, the eggs laid per pen run from 89 to 279. The Rhode Island Reds vary all the way from 175 to 284, and the White Leghorns from 79 to 344.

It may be true that certain breeds will produce more eggs on the average than certain other breeds, but one of the lessons to be derived from this great egg laying competition is that in every breed there are strains of good layers and strains of poor layers. We poultry men should plan to get in to the egg laying strain rather than the egg laying breed.

The eggs should be kept in the cellar where it is cool. Hot weather quickly stales them.

For the Land's Sake
use
Bowker's Fertilizers

They enrich the earth and those who till it. By the use of a good fertilizer, any farmer can add greatly to his profit through raising bigger crops. He can make each of his acres produce more, or he can cultivate fewer acres, and still produce as much as he is getting now, but with less labor and expense. This is a big item, if hired help is scarce.

We have a fertilizer to fit every crop and every pocketbook. Each one is ready to use, and easy to apply. Our catalogue gives full information and directions. Many years of experience in both Canada and the United States, the best facilities, and prompt service are behind every bag we ship.

If we have no agent near your farm, we want one. It pays to sell as well as use our fertilizers.

Write today for our catalogue and calendar. Both will be sent promptly and without cost. If interested, ask for agency proposition, but write anyway for the catalogue.

BOWKER Fertilizer Company,
77 Lyman St., Buffalo, N. Y.
Original and best manufacturers of special fertilizers.

"WAKE UP"
FOR SALE
N. B. Seed Potatoes
All Varieties

"WE NEED"
50 Cars Carrots, Parsnips, Potatoes
Beets, Turnips, Cabbages
PORTER, MANZER, LIMITED
88 Colborne St., TORONTO

Are you anxious to save Time and Money on the Work you are doing on your Farm at present and to get Larger Crops from your Farm or Orchard? If so, let us send you Free of Charge our Pamphlets on the use of

STUMPING POWDERS

USED FOR
REMOVING STUMPS AND BOULDERS
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PLANTING AND CULTIVATING ORCHARDS
BREAKING HARD PAN, SHALE or CLAY SUBSOILS, Etc., Etc.

Figure yourself what Clearing your Farm is costing now or what you are losing in crops through not clearing

Write Us About Arranging Demonstrations
CANADIAN EXPLOSIVES, LIMITED
MONTREAL, P.Q.

More re "Hibernating"

Editor, Farm and Dairy— In Farm and Dairy of February 29th I note an article written by a correspondent signing himself, H.R.B., Nova Scotia. In that article the somewhat remarkable plan is advocated of applying the principle of hibernating to our farm animals. The writer suggests that if such animals as bears can live all through the winter without food the principle might be applied in part at least to wintering such animals as beef steers. The writer of this article starts out by stating that he is a

lawyer and not a farmer. He need hardly have made such a confession as most of us would have known that he was not a farmer from the article that he wrote.

We have found in our experience of many years first with beef cattle and now with dairy cows that regularity in feeding and caring for live stock is the most important point in securing good results. When we were feeding steers, for instance, we found that the slightest variation from the hour of feeding always made the animals restless and reduced gains that we might have secured.

Even in the winter time we know

that our animals did much better when fed at the regular hours, that is, six in the morning and half past five at night, than when we overslept ourselves and allowed them to "enjoy" that much more sleep. We know of lots of farmers who follow up H.R.B.'s suggestion in the winter and leave the animals until after daylight in the morning and feed early in the evening in order that they themselves may have that much more time off, but I have yet to see an instance of such feeding that was followed by the best results.

We are glad that H.R.B. did not

include dairy cows in his list or the "foolishness" of his suggestion would have been even more glaring.

All of our dairymen who make good records tell us that they milk their cows more than twice and often as much as four times a day and that they can note an advantage in milking four times a day over milking three times. This does not give the cow a long continuous period of sleep as H.R.B. claims they should have, but it does enable her to give more milk. We have not made any good records, but we now have a good producing herd of grade cows and we know that a fresh cow should not be allowed to carry her milk for a long period than 12 hours. As we practice winter dairying we fail to see how we could here apply the principles of hibernating to our cows.

We would strongly urge all the readers of Farm and Dairy to take H.R.B.'s suggestion with a grain of salt but if they are determined to try "hibernating" to get a nice little bank account ahead of them first, A. N. Jenkins, Muskoka Dist., Ont.

Items of Interest

W. E. J. Edwards, B.S.A., Secretary of the Ontario Corn Growers' Association, has prepared a list of all of the members of the association who have seed corn for sale. This list can be obtained on application to Mr. Edwards.

At the semi-annual meeting of the Montreal Milk Shippers' Association on March 16, the price of milk was raised two cents a gallon, and fixed at 17 cents for the five months commencing May 1st, and not less than 22 cents for the seven winter months commencing October 1st. The price of cream was raised 3-1/2 cents a lb. butter fat for the summer, and 4-1/2 cents for the winter. This raise in price the shippers said was essential, owing to the high price of cows, feed and labor.

The Annual Alberta Creamery Delegates and Dairy Convention will be held at Red Deer, commencing at 2 p.m., Thursday, April 4th, 1912. The convention programme will include reports and discussions on dairy conditions generally, markets and marketing, quality basis payment for cream and butter, creamery inspection and instruction, and dairy herd management. Special attention will be given to the question, "How can we best promote the dairy industry in our several sections of the province."

The milk from a cow suffering from any disease should not be used for food or sent to the creamery. And cream is just as bad. Don't take chances or forego them upon a weaker human being.

Through Trains to the West via Chicago and St. Paul

Personally conducted Grand Trunk special train will leave Toronto 10:30 p.m., Tuesday, April 2nd, for Camrose, Edmonton, and points in Manitoba, Saskatchewan and Alberta, stopping at all points on Grand Trunk Pacific west of Winnipeg.

Pullman Tourist sleepers will be carried fully equipped with bedding, and porter in charge. Berths may be secured in these cars at a low rate.

This is an exceptional opportunity for those wishing to take advantage of the remarkably low one way settlers' rates or round trip Homeseekers' excursions, through the American cities. No change of cars.

Secure tickets, berth reservations, etc., from any Grand Trunk Agent, Toronto City Office, northwest corner King and Yonge Streets, (phone main 4200), or write A. E. Duff, District Passenger Agent, Toronto, Ont.

A. D. Foster's Consignment TO GREAT BELLEVILLE SALE APRIL 3 and 4



Includes Stock descended from this great Cow

Helena De Kols De Kol

(Official record just completed at 16 years of age, 20.55 lbs. butter in 7 days. Official record at 14 years, 21.18 lbs.; at 11 years, 20.025 lbs.; at 2 years, 12 lbs., 12.8 oz.)

17 Head (registered) direct descendants from this cow

These include 3 heifers coming 3 yrs.; 7 heifers coming 2 yrs.; 1 heifer, 1 yr.; and 6 calves—mostly bulls—grand-sons of Dekol Plus. CANADIAN CHAMPION RECORD OF PERFORMANCE COW OF 1910. She produced 27,291 LBS. OF MILK and she went down in her milk from 60 lbs. to 30 lbs. of milk in a day, and her owner thinks she would have had 1,000 more milk to her credit had this not happened.

IT'LL PAY YOU TO GET ONE OF HER GRANDSONS TO HEAD YOUR HERD. She is a great cow. Notable among the females I am consigning is the 3-year-old STARLIGHT MERCEDES POSCH. This heifer is very large and handsome, and is a good producer. She freshened in June last, and notwithstanding the heavy drought she gave as high as 40 lbs. milk a day.

Another is SUNNYDALE QUEEN; she is a grand-daughter of the great PIETERTJE HENGERVELD'S COUNTE DE KOL, through her sire, and is a daughter of our KORNDIKE QUEEN PIETERTJE. Butter 30,443 lbs. in 7 days.

Another is CLARA HENGERVELD KEYS, 3 years old. She was, by mistake, left out of catalogue. She is a grand-daughter of PIETERTJE HENGERVELD'S COUNTE DE KOL; she has OVER 100 A. E. O. DAUGHTERS, and is the only one with 3 DAUGHTERS ABOVE 32 LBS. BUTTER in 7 days.

Another good one is the 2-year-old HENGERVELD ECHO DEKOL 2ND; her dam is HALF-SISTER TO "MAY ECHO," and has a butter record of 18,251 lbs. in 7 days. This fine heifer, unfortunately, dropped her calf at 1 year and 9 months, which does not leave her in the condition she should be for the sale. She was served March 16th to FRANCY 3RD'S ADMIRAL ORNSBY. She is also a grand-daughter of PIETERTJE HENGERVELD'S COUNTE DE KOL.

Another fine 2-year-old is CORAL DEKOL PIETERTJE PET; her dam's 7-day BUTTER RECORD IS 22.55. AVERAGE FAT 4.2. This heifer was bred to MAY ECHO'S SON, May Echo Darkness, February 27th. She is HALF-BROTHER TO LULU KEYS, CANADIAN CHAMPION.

Another is HELENA KEYS, FIRST COMPLETED A 7-DAY RECORD AS A 4-YEAR-OLD, MAKING 25.13 LBS. BUTTER.

We have 5 other females catalogued. Send for a catalogue and look us up. Everything we offer is young, and WE GET SOMETHING FROM OUR HELENA FAMILY. Our foundation cow, HELENA DEKOL'S DEKOL, has just completed a 7-day Butter Record of over 30.5 lbs., and is now 16 years old. Her daughter is Helena Keys, has just come to above. Making 25.13 lbs. butter in 7 days. She was 4 years old on March 11. If nothing happens to her, we believe she will yet reach the 30-lb. mark.

Come to the sale and get a bull to head your herd from our Helena family. REMEMBER THAT HELENA DEKOL'S DEKOL IS 8 PER CENT OF THE BLOOD OF DEKOL 2ND! WHAT BETTER CAN YOU GET?

A. D. FOSTER & SONS - - - **BLOOMFIELD, ONT**

The King
Few financial returns
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Brookland
Record—In R. of P
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in 12 months nearly 3
also 1 daughter that
month old. She has 3
records. Brod Nov. 4th

The Kind of Sheep to Breed

By W. J. Kennedy

Few lines of work offer greater financial returns for the capital invested than a good flock of breeding sheep. This is especially true when good mutton conformation is combin-

ed with a long, dense fine fleece. The question of constitution is very important in sheep. In selecting rams blockiness, lowsetness, wide backs, loins and heavy well filled hind quarters should always be demanded. The head should be broad and masculine

in appearance, the neck short, and the shoulder broad and compact. The legs should be short and straight, especially at the hocks.

The skin should be pink in color, and the fleece long, dense, fine and uniform on all parts of the body. Too

much attention cannot be given the importance of density of fleece. It insures a heavier clip of wool, protects the sheep from rain, snow and cold weather, and also sheds chaff and other foreign material so detrimental to the wool.

Individuals from a High-Testing, Rent-Paying Herd, All to be Sold April 4th
 65 HEAD OF HIGH-CLASS HOLSTEINS WILL BE SOLD AT AUCTION BY J. W. McCORMICK, MOREWOOD, Ont.



Koradyke Wayns DeKok (No. 9609). Born June 26th, 1907

Record—As 2 years: Milk, 10,932 lbs.; butter, 476.82 lbs. in 340 days; average fat, 3.73, R. of P. This young cow is a fine individual. Her ancestors have all distinguished themselves and she too has done very creditably in her test. There is no doubt but that she is capable of great achievements if fortunate enough to fall into good hands. Beauty and utility are combined in this fine young cow. Will be fresh time of sale. Can be registered in American Herd Book.



Hengerveld Docia (No. 5512) Imp. Born Jan. 12th, 1903

Record—Milk 10,259.375 lbs. Butter fat 400.763 lbs., equivalent to 467.557 lbs. of butter in 340 days. Average per cent fat 3.73 R. of P. This record was made under unfavorable conditions. This is one of the foundation cows of this herd. Bred Nov. 3rd, 1911, to Sir Hengerveld Jewel No. 8738. Registered in the American H. F. R. B. Cows such as these and stock from them will make a paying investment for you.

My Entire Herd

Will be sold at this

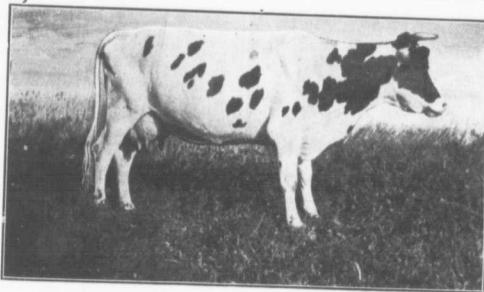
Great Dispersion Sale

on

Thursday, April 4th

These are a choice lot of Holsteins, built up with years of pains-taking care to breed only from high-testing and large milking strains.

Sale under cover in case of inclement weather. Lunch at noon. Take advantage of Easter Rates on Railroads.



Aaggie DeKok (No. 7928). Born April 27th, 1906

Record—She gave milk 13,119.37 lbs.; butter, 599.132 lbs. R. of P. Her tests during the season were 4-3.2-3.2-4.1-5. She has 6 R. of P. sisters, all with good milk and worthy a place in the best herd in Canada. A producer from a family of producers. Freshened February 24th, 1912.

Sale will begin

at 1.30 p.m.

At Brookland Farm

One mile east of the village of Morewood, 6 miles north of Chesterville Station, C.P.R., where trains from the west arrive at 9.27 a.m., and from the east, 11.20 a.m.

It is also situated 6 miles south of Russel Station, N. Y. and O., where trains from Ottawa arrive at 8.20 a.m., and from the east at 10.16 a.m.

Carrriages will meet these trains on day of sale.

For Catalogues and full information apply to

J. W. McCORMICK
 Morewood, Ont.



Brooklands Koradyke Wayne (No. 9517). Born April 5th, 1907

Record—In R. of P. as a junior 3-year-old she gave milk, 11,545.68 lbs.; butter, 476.90 lbs. in 1 year. Her full sister, at present in test as a two-year-old, has already given me 19 months nearly 9,000 lbs. of milk, with an average of 4.6 p.c. butter fat. She has also 1 daughter that has qualified in R. of P., beginning her test at 1 year and 10 months old. She has 5 sisters in R. of P. with exceptionally good milk and butter records. Bred Nov. 4th, 1911, to Sir Hengerveld Jewel.



Amy Peep (No. 5513) Imp. Born Jan. 25th, 1903

Record—Milk, 13,607.05; butter fat, 471.893, equivalent to 529; lbs butter. Average per cent of fat 3.46, R. of P. This is one of the foundation cows of this herd. She has 1 R. of P. daughter. Bred to Sir Hengerveld Jewel and will be fresh at time of backed up by some of the best of the breed. Her females have every appearance of being great producers, and all his stock are light in color.

Here Is a Book Every Cow Owner Should Have

IDEAL GREEN FEED SILOS



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LIMITED
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THE IDEAL GREEN FEED SILO BOOK

tells you how can decrease your hay and grain expense and produce more milk and make more money from your cows.

Whether or not you are planning to erect a silo, if you are a cow owner you ought to have this 48 page book. It will help you to make cow keeping more profitable. Simply mention how many cows you keep and mention this paper and the book will be sent free.

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LARGEST AND OLDEST SILO MANUFACTURERS IN CANADA

173 William Street, MONTREAL. 14 Princess Street, WINNIPEG

NEWVERMIFUGE

The best and most effective remedy for Bots and other worms in horses. (Guaranteed by the Farmers' Horse Remedy Co., under the Pure Food and Drug Act, June 30, 1906, Serial No. 51871). It is guaranteed to kill and bring from the body dead in from 18 to 24 hours all pin worms and bots.

It is absolutely harmless and can be given to mares in foal before the eighth month. Practical horse owners have written us Newvermifuge has removed from 400 and 800 bots and worms from a single horse. An animal whose stomach is full of worms cannot get fat or help being obstinate. Send your order today. Beware of imitations.

1 capsule, \$1.25; 12 capsules, \$12.00
Farmers' Horse Remedy Co., Dept. A.A.
587 - 7th St., Milwaukee, Wisconsin.



Sells direct to buyers at factory prices. Iron and Wire Fences, all styles; Gates; Barbed, coiled and plain wire; Staples; Loads.

I save you big money, give you best loading and quick service. Here are sample prices: Best No. 3 Fence 2 strands, 25¢; 4 strands, 35¢; 7 strands, 50¢ per rod, etc. 17 years in Canadian fence business. My printed matter explains my methods. Get it. Write today.

THE FENCE MAN
Ask for Folder "L" - TORONTO

Let Us Tell You How This Great Work Saver Makes Big Money

Just send your name and address on a postal note for a free book that tells all facts and figures about the labor-saving, time-saving, money-making advantages of the modern way of keeping barns and yards clean. Read how hundreds of other progressive farmers are cutting out the drudgery of barn cleaning by using the



Great Western Manure Carrier

It doubles the value of the manure. It makes clean barns. Clean barns mean pure air. Pure air means healthy stock, pure milk and cream, and better, sweeter, milder, canker, thrush, grassie head and scratches. Freedom from incipient ailments means freedom from weak and sore eyes. Let us tell you more about these advantages of owning a Great Western Manure Carrier. Write for full, Free Book.

Address Canadian Potato Machinery Co., Ltd., Galt, Ont.
Manufacturers of Stalls and Stanchions and a complete line of Potato Implements.

A Boy Who Won Out

E. F. Eaton, Colchester Co., N. S.

When a man with lots of spunk and determination tackles a proposition he is pretty certain to win out. There will be something doing any kind. When a young man of this kind starts out to win a farm for himself his success is almost a foregone conclusion. Such a man is Mr. W. T. Craigs, of York Co., N. B.

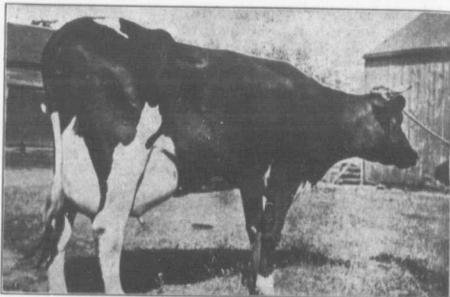
When just a bit of a boy, Mr. Craigs hired out with Mr. F. P. Robinson, of Fredericton, on his 1,000-acre farm. For 15 years he worked as a hired man, starting on \$5 a month. He did not have much education to start with but he had trained himself by reading and studying and would now pass as a fairly well educated man. And he was honest. Mr. Robinson has told me that he has trusted Mr. Craigs with hundreds of dollars and he was never deficient a cent.

Recently Mr. Robinson decided to retire from farming and when he came to lease his farm, Mr. Craigs came forward and offered to take it. He has now been working the farm

need any legal proceedings because apparently he will pay it without.

LIABILITY FOR INSURANCE.—Last year I gave the insurance of my buildings to A. This year, as the time was about up, he prepared the policy similar to last year and sent it to me without my advising him to do so. In the meantime I decided to let B, a neighbor, have the insurance for this year, and sent him A's policy to copy the details of contents of buildings, etc. B mislaid or lost the policy, so I could not return it to A. I would have returned it before had I known it was necessary, but B thought it was not. Now A has written several letters concerning it saying it is exorbitant premium and trying to influence me to sign, relieving the company of all responsibility, and stating that I had lost the policy. B, who feels in a measure responsible, signed the paper and returned it to A. What can A do about it? Can he hold me responsible for the amount of premium which was not authorized by me to send the policy?—H. B. Oxford Co., Ont.

It would require a much more complete statement of the circumstances under which the policy was sent to you, before we could advise you definitely as to your liability



Notice the Grand Udder Development of this Heifer

Butter Boy Hengerveld Girl, the heifer here shown illustrates the kind of Holsteins bred by Benjamin Leavens, Bloomfield, Ont., who will have a consignment at the Belleville sale on April 3rd. This heifer produced 16.6 lbs. butter in 7 days and 54 lbs. milk in one day as a two-year-old. Her sire is a son of Pontiac Koradake and out of a daughter of Hengerveld De Kol.

on lease for some years and is getting on nicely and before long will have a farm of his own.

Mr. Craigs' success is a fine example of grit can accomplish by hard work. Starting out as an uneducated boy with \$5 a month, he is now a well informed man and can be numbered as one of our most progressive farmers. Surely this should be a stimulus to others of our boys who are up against the proposition of winning a home for themselves.

to pay for the policy, and at best your position is rather a doubtful one, depending entirely upon the facts of the case. Your best course would be to sign the release freeing the Insurance Company from all responsibility under the policy, and then make no payment upon the premium unless you are forced to do so.

Prof. C. A. Zavitz, secretary of the Ontario Agricultural and Experimental Station, announces that the experiments and materials for union experimenters are now ready. Fuller information can be obtained on application to Prof. C. A. Zavitz, of the Ontario Agricultural College, Guelph, Ont.

Our Legal Adviser

A QUESTION OF FORGERY.—Schoolhouse was insured. First instalment was \$2. A week after annual school meeting a new secretary was appointed and discovered the notice card and receipted cards had been tampered with, changed from \$2 to \$15 and in account book as \$3. The former secretary had offered \$1 to the present secretary, but it was not accepted. Let me know the legal way of collecting this—A. Subscriber.

From the facts disclosed it might turn out to be forgery, and, if so, the person who is guilty of the forgery would be liable to a criminal indictment, but he would not be liable for the extra amount paid by the board. On the other hand you say that the board has been offered the extra \$1 by the secretary. If so, you do not

"The man who makes two blades of grass to grow, where only one grew before, is a benefactor to his country."

Every progressive farmer is a benefactor to his country.

Intensive farming must naturally follow increased values of farm lands, before that one acre may be made to produce what two acres did before.

Even greater increases than these may be obtained by the judicious use of fertilizers containing a large percentage of Potash.

Write us for copies of our free bulletins, which will instruct you how to fertilize economically.
GERMAN FOSCH SYNDICATE,
1102-1104 L.O.F. Temple Bldg.,
Toronto, Ont.

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BEL

175
Head

Mostly
Females

In Quality
and Numbers
nothing like
this Sale
ever
happened
in Canada
before.

LULU KEY
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Canada's Greatest Sale of Holstein Females

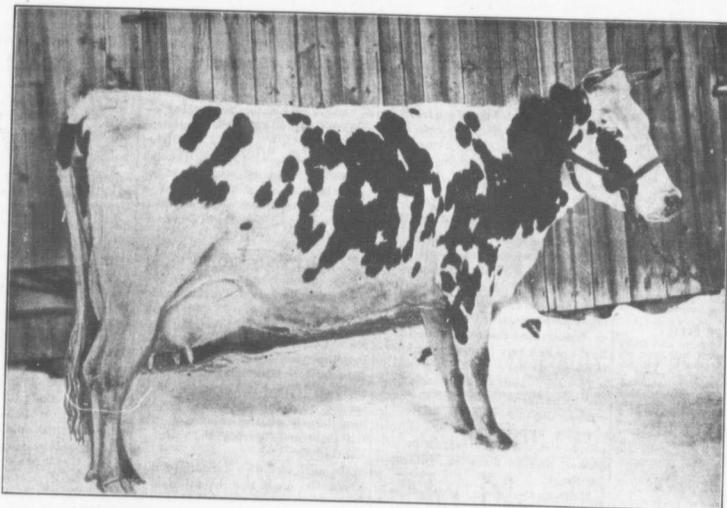
BELLEVILLE DISTRICT BREEDERS' 2nd ANNUAL SALE

At Belleville, April 3rd and 4th

175
Head

Mostly
Females

In Quality
and Numbers
nothing like
this Sale
ever
happened
in Canada
before.



175
Head

Mostly
Females

Think of it!
65
two year old
Heifers
(by or bred to
the great
sires of
the Belleville
District.)

LULU KEYES--The World's Record Heifer for Milk Production
This World's Champion Two Year Old will be in the sale and go to the Highest Bidder

LULU KEYES as a two year old made 19,250 lbs. of milk and nearly 800 lbs. butter in one year. In type and individuality, as you may see from her photo, she is as attractive as her record.

Not one but several cows and heifers that have milked from 80 to 90 lbs. per day, and from 16,000 to 19,000 per year (official.)

Come to the Sale Where You Have a Choice

Not One --but Scores of Good Ones

With such a large offering there will sure be good young cattle at prices to suit every pocket-book. In last year's sales were several animals that have been re-sold at big advance.

WE WONT WEARY YOU

watching the Auctioneer wearing his life out trying to sell a huge surplus of bull calves, three teated or aged cows.

WE BELIEVE

A satisfied customer is the greatest asset of any business.

This is our Second Sale. The kind words of appreciation encourage us to believe the First Annual Consignment Sale of the Belleville District gave general satisfaction and the buying public appreciate the stand we took of Giving every man a Square Deal, selling every animal catalogued without complaint or quibble.

We are more determined than ever to not only retain the golden opinions of our friends, but by perfecting some minor details, to give to the buying public the best opportunity to buy right and buy satisfied.

Others have Advertised theirs as the greatest sale

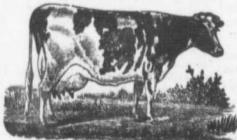
We can deliver the goods.

Come to Belleville

If you want One or a Carload, it will pay you to wait for the Belleville Sale

For Catalogue, write, phone or wire to

F. R. MALLORY,
FRANKFORD, - - ONT.



XXII

To "advertise" is to make known.
To "sell" is to exchange property for money.

Much advertising,—this of the mail-order type,—does sell direct and brings the cash in advance.

But the chief use of advertising is to make selling easier by finding buyers and telling them about your wares. Hence the importance of the follow-up matter.

Following are two letters received by "prospects" from two different firms advertising in Farm and Dairy. The first letter could hardly sell; the second, should:

"On Dec. 28th we wrote you, enclosing a copy of our booklet and we have not had any further communication from you, but trust you have not forgotten us altogether."

"We hoped that we would have had an order from you after reading our booklet, and you are wondering now whether the possibilities of the truck sale were made clear enough to you."

"May we not have the pleasure of hearing from you, if there is anything you do not yet understand, or is not quite satisfactory to you? We would like very much to call on you, and we hope to be favored with your order."

The following letter bristles with the selling impulse:

"We are pleased to have an opportunity of serving you. The question is: Are you going to roof your building temporarily, or are you going to put on a roof that will practically last as long as the building lasts?"

"I know that you are going to do the latter. Your roof should be of the Preston Safe Lock Shingles, the only one on the market which looks on all four sides. When you buy Preston Safe Lock Shingles you buy PERMANENT PROTECTION. You will not have to last and will give perfect satisfaction at all times. Twelve years of fair dealing and good work stand behind our shingle and thousands of pleased customers will back us up in our statement that Preston Safe Lock is the best shingle on the market to-day."

"Read the copy of our little book 'Truth About Roofing,' which is going to you under separate cover. Read it over very carefully, for there are many facts which you do not want to miss. Read our Lightning Guarantee."

"Study carefully the construction of Preston Safe Lock Shingles. See why they cannot pull apart, why the wind cannot tear them from the roof; why they are proof against all the elements, fire, wind, rain, hail and snow."

"After you have figured the safety of these wonderful shingles, figure the price. First though, figure the safety and protection you will get. The price is very small. They are cheaper by the year than wood shingles, for they need no repairs. When they are once laid properly on the roof they will give you no more trouble. You can forget every thing but the fact that they are one of the finest roofs in the country—and the finest roofs are Preston Safe Lock Shingles, so you will be one of our big family of satisfied customers."

"The life of present day wood shingles is from seven to twelve years. Years ago they lasted longer. The life of Preston Safe Lock Shingles is a thing to be so proud of, you should be so proud of, you should be so proud of, you should be so proud of. We haven't lived long enough yet to contrast them. Preston Safe Lock Shingles erected this year will be pointed to with pride by your grand children. They will say 'This is Preston Safe Lock Roof that Grampa put on when he was a young fellow.'"

"Just read the book and then decide on Preston Safe Lock Shingles. If we can give you any help in the planning of your barn, our Farmers' Service Department will be very glad to co-operate with you. Our Service costs you nothing—and it will mean everything to you in all future years to have a well-planned barn and stables."

"Do not be afraid to trust us, as we will treat you fairly, and we can really help you. Now is the time before you get too busy—will expect your letter in a few days."

HAVE YOUR LETTERS and follow-up matter RIGHT. Don't depend wholly on the advertising to do all the work, even though your ad. is placed in Farm and Dairy, which is—

"A Paper Farmers Swear By"

PUBLISHERS' DESK

Personal to Our Advertisers

Circumstances without precedent in our history have made it necessary that we request your cooperation that we may serve you with every satisfaction to yourself.

Our greatly increased circulation—now close to 14,000 weekly—and our policy of excluding all offensive and unreliable advertising and guaranteeing to our people all the advertising we accept, has brought our way a great flood of the better class of business.

Owing to the exigencies of getting a quality journal like Farm and Dairy from the presses and out on time to our people throughout Canada, we must start the first form to press one week preceding the date of issue. Without unduly delaying the issue we cannot accommodate much large business coming later than Saturday.

We can always give you better service when we have your orders with copy by Thursday, therefore we urge you to govern yourself accordingly and cooperate with us that we may always give you our best service.

For March 21st, as you will have noticed by copy of Farm and Dairy sent to you, the paper was unduly crowded. Even then we left out nearly 2-1/2 pages of commercial advertising.

Two weeks ago we were required, on account of it coming late, to leave out over 31-2 pages of advertisements.

We already have booked the largest amount of business for our Great Dairy Annual, April 4, we have yet carried. You will be wise to rush your copy to us at once, and we will serve you well.

Our policy of guaranteeing our advertising to our readers and refusing to publish any questionable or unreliable advertisements of whatsoever nature is getting in splendid work for our advertisers, all of whom must be reliable or they cannot have the use of these columns. Here is the proof:

A letter received by Farm and Dairy, March 7th, 1912. (Name on request).

Farm and Dairy is a most satisfactory medium for reaching purchasers. In fact I have obtained better results through it than through papers with a larger circulation. Either your advertisements are better read, or they must reach a better class."

It is easy to understand this: Our people know they will not find Pills, Electric Belt, Patent Medicine, questionable or objectionable advertising of any kind in Farm and Dairy columns. We vouch for the reliability of our advertising and our people know it. They read the ads. in Farm and Dairy and believe what they read.

There is something here worth your while thinking about, and remembering when you have advertising to place.

Dairy Notes

Fools learn by experience. It is always cheaper to learn by the experience of others. That is why wise men do it.

After a cow passes much beyond nine years of age, she begins to deteriorate.

The "don't-like-to-milk" man will never make a successful farmer.

In selecting a dairy cow, see that the teats are set apart, and are of good size. A short, small-teated cow is a nuisance to milk.

DE LAVAL CREAM SEPARATORS

Are In a Class by Themselves

They cost a little more than the cheapest, while they save twice as much and last five times as long as other separators.



They save their cost every six months over gravity setting systems and every year over other separators, while they may be bought for cash or on such liberal terms that they will actually pay for themselves.

Every assertion thus briefly made is subject to demonstrative proof to your own satisfaction by the nearest DE LAVAL local agent, or by your writing to the Company direct.

Why then, in the name of simple common sense, should anyone who has use for a Cream Separator go without one, buy other than a DE LAVAL, or continue the use of an inferior separator?

DE LAVAL DAIRY SUPPLY CO., LIMITED
173 WILLIAM ST., MONTREAL 14 PRINCEPS ST., WINNIPEG

Copy For Ads.

in our Great Dairy Annual Magazine, April. You should rush to Farm and Dairy at once.

No Need to Pay \$5.00

We Will Give You

this perfect working

Safety Razor



THIS RAZOR as shown is the well-known Gem Junior. It is a favorite everywhere.

Once you use it you will wonder how you ever got along without it. Has seven fine steel blades with safety holder and stropping handle. You can sharpen the blade just as you do your old time razor. Handsomely boxed. A most useful, satisfying article and a delight to any man that shaves.

Given Free for only Two New

Subscriptions to Farm & Dairy
Each Taken at only \$1.00 a Year

Husbands, brothers, all shaving men will appreciate this razor. See two of your friends or neighbors and get them to subscribe to this farm paper of which you think so much. Then we'll send you the razor promptly and post-paid on receipt of the two new subscriptions.

Farm & Dairy - Peterboro, Ont.

PRESTON
Can't Burn nor Rot
 For little money, get a roof that is weatherproof, won't burn, and is safe from lightning. —Guarantee bond insures. No repairs, no painting. Get roof facts from
M. S. & S. Co.
 PRESTON, ONT.
SHINGLES
BUTTER MAKER WANTED
 Capable man to take charge of branch creamery at Glencoe. Apply with references and salary expected.
THE LAMBTON CREAMERY CO.
 PETROLEA, ONT.

Creamery Department

Butter makers are invited to send contributions to this department, to ask questions on matters relating to butter making and to engage subjects for discussion. Address letters to Creamery Department.

Acid Neutralizers in Cream
 Prof. H. H. Dean, O.A.C., Guelph, Ont.

Cream frequently comes into the cream gathering creamery in hot weather with altogether too much acid for the best results in butter-making and particularly so if pasteurization is practiced. In this condition it needs no "starter," but rather a "stopper." Various "stoppers" have been suggested, such as viscogen (sacrate of lime), lime solutions, soda, etc. As a result of using bak-

ing soda, washing soda, lime water, and milk lime in the cream, in most cases before pasteurizing, we found that these neutralizers had the following effects:

1. They reduce the acidity of the cream.
 2. There was less loss of fat in the buttermilk.
 3. The overrun was reduced nearly four per cent.
 4. There was little or no improvement in the quality of the butter made by the use of neutralizers.
- Further tests are needed in order to determine whether or not the use of neutralizers in sour cream is advisable.

Why so Suspicious

Jas. A. Bell, Peterboro Co., Ont.
 Why is there so much suspicion of the creamery proprietor or maker amongst creamery patrons? I am a patron myself but I realize that many of us unjustly criticize the man who receives our cream. I was at one time manager of the creamery at Beaver-ton, and there I learned something of the creamery man's difficulties in dealing with his patrons. I always noticed that any patron who gave us a good big supply of milk was the easiest one to get along with. It was the small patron who sends his cream in dribbles who was always complaining.

At one time I member at an annual meeting a patron told me that he "would get more milk if we treated our patrons equitably." That patron seemed to think that they were not getting enough per pound butter fat. We asked the dealer that bought our butter who he had paid that season for dairy butter, and he replied 13 1/2 cents. Our average price for creamery was 19 1/2 cents. That silenced the patron but had not our dealer been present with definite information, that patron would have gone away disappointed and spread suspicion among all his neighbors. We patrons should be more sympathetic and give the creamery man a chance.

Creamery Notes

If a creamery comes into a section and pays more for milk than do the cheese factories, the cheese maker should not sit back and wait for ruin. Enough others will soon pile into the creamery business to reduce prices and things will go as usual again.—R. W. Ward, Dairy Instructor, Peterboro Co., Ont.

Any small mistake that a creamery man might make in taking cream samples with the scales would not be as serious as the mistake that all creamery men are making when using the pipette for taking the samples of rich cream.—Frank Hearn, Chief Dairy Instructor for Western Ontario.

Dairy School at Red Deer, Alberta.

The Department of Agriculture of Alberta offers two courses of instruction to creamery buttermakers at Red Deer, Alberta, that started on Monday afternoon, the 18th of March. In the class room lectures are given on chemistry and bacteriology in relation to dairying; the principles underlying creamery organization; look-keeping and general management; markets and marketing of dairy products; dairy herd management. For practical work the Red Deer Creamery management has generously placed the creamery and equipment at the disposal of the Department for dairy school purposes, and instruction and practical work will be given on each day.

I value Farm and Dairy because of its fearless stand on public questions affecting agriculture.—R. H. McCurdy, Elgin Co., Ont.

MERCHANTS PRODUCE CO.
 Butter Eggs Poultry Honey Beans Apples Potatoes, etc.
 Our constantly growing trade demands large supplies of choice farm produce. We need you. Write for weekly market letter.
 57 Front St. E. Toronto
 ESTABLISHED 1899

FARM DAIRYING A New Book by Laura Beane
 Price only \$1.35 postpaid. Order through Book Dept., FARM AND DAIRY, Peterboro, Ont.

CREAMERY MANAGER WANTED
 For Scotsburn Creamery. Duties to comprehend April let. A thoroughly competent, practical man required; permanent position twelve months of the year. Cream pastured system. Buttermilk kept. Make for 1911, 170,000 lbs. and good chance for large increase. Manager required to look after the entire business, under approval of the Board of Directors, April, with references, experience, etc. with full particulars in first letter, and availing salary expected, to
THE SCOTSBURN CREAMERY CO., Ltd.
 SCOTSBURN, NOVA SCOTIA.

Feed The Land AND It Will Feed You

Many farmers would get higher interest on their money if deposited in THE SHAPE OF FERTILIZERS IN THE SOIL, than if they placed the money in bank—the interest being paid in increased crops.

When the Canadian farmer becomes sufficiently interested in fertilizers to make his own mixtures at home, it will be a good thing for the farmer and for the country at large.

Fertilize scientifically—study the "VANCO" Book—and reap the benefits in bigger crops.

Make your own Fertilizers, to suit each soil and crop—buy "Vanco" guaranteed chemicals, prepared right here in Toronto, and thus save the heavy duty which must be paid on ready-mixed fertilizers

MURIATE OF POTASH
 —guaranteed 50% actual Potash.

SULPHATE OF POTASH
 —guaranteed 48% actual Potash.

NITRATE OF SODA
 guaranteed 15% Nitrogen, equal to 18.84% Ammonia.

ACID PHOSPHATE
 guaranteed 14% to 16% available Phosphoric Acid.

Write for our prices—and also copy of the "Vanco" Book—you'll find it a big help in mixing Fertilizers. 45

CHEMICAL LABORATORIES,
 148-158 Van Horne Street., TORONTO.

Cheese

Makers are in a state of disarray on matters relating to suggest subjects for discussion. Address letters to Creamery Department.

Shall we

Shall we... The next those reported March 17th, the line of s not stirring, dropping all of The milk as department was one large vat, smaller ones.

Unit in this... milk testing a cent fat. The they was treated as none except that the rod at the time were stirred it was practically rate of acid d solids. The yr lbs. milk was stirred, 92.95; rod, 92.06. This is indicated b

A not stirred... A stirred... This is a dif favor of the average a

arrange... The next s lines to the that the milk vat until the curd was starts, a time of salting was not stirr thrown out in B part was stir

There were... ducted using 3.5 per cent. The milk used at a lbs., and the 3.205 lbs. The the 3-8 inch knife and werc

milled at ave cent. with pra in the develop each lot. The moisture conte curds not stirr the curd at d cheese of 24, a one month old quality as det was 1:

A not stirred... B stirred... Color as Te 15 14.25 14.20

or a difference... of curd of 1.0 STIRRING

The results o dicates that eve conditions the sufficiently r of the free mo is allowed to m of stirring will condition of the lar stage and cheese-maker m ment.

CANADIAN PACIFIC RAILWAY
HOMESEEKERS' EXCURSIONS
 APRIL 2, 16 and 30 and every second Tuesday until SEPT. 17 inclusive
WINNIPEG & RETURN, \$34.00
EDMONTON & RETURN, \$42.00
 Proportionate fares to other points. Return limit 60 days.
 THROUGH TOURIST SLEEPING CARS to Edmonton via Saskatoon, also Winnipeg and Calgary via Main Line
 Ask nearest C. P. R. Agent for Home-seekers' Pamphlet
 Low Colunist Rates to Pacific Coast Full particulars from any C. P. R. Agent.

EASTER SINGLE FARE
 Bet-een all stations in Canada Port Arthur to
GOOD GOING
 APRIL 4, 5, 6, 7, 8
 Return Limit, April 10
 (Minimum Rate of 25c)

SETTLERS TRAINS TO WESTERN CANADA
 Will leave Peterboro
10.20 P.M. EACH TUESDAY
 during MARCH and APRIL
 W.M. McILROY, Agent - - PETERBORO

Your Ultimate Choice
 You may not buy an Empire this year. You may decide that your present separator will do for another season. Like many other present owners of

EMPIRE
Cream Separators

you may even be persuaded to buy two or three other makes before you finally get to an Empire. But the Empire is the ultimate machine. No other will fully satisfy you so long as you know there is a better machine—an Empire—on the market.

Sooner or later you'll realize the truth of what we are telling you now. Perhaps you would realize it sooner if you were to read our booklet? Perhaps you would like the Empire to demonstrate its superiority to you in your own home? That will be the best proof of our statements. We are at your service. Let us furnish you with the proof of what we say. Mail us a card or a letter. You will receive a prompt and courteous reply.

The Empire Cream Separator Company of Canada, Limited

Makers of CONE and DISC separators.
 WINNIPEG, TORONTO, MONTREAL, SUSSEX.
 Agents everywhere in Canada—Look for the Empire Sign.

Cheese Department

Makers are invited to send contributions to this department, to such questions as matters relating to cheese making and to suggest subjects for discussion. Address questions to The Cheese Maker's Department, 3.

Shall We Stir Cheese Curd

Alec. McKay, O.A.C., Guelph.

The next series of experiments to those reported in Farm and Dairy, March 17th, were conducted along the line of stirring curd as the time of dipping, all other things being equal. The milk as delivered to our cheese department was thoroughly mixed in one large vat, then divided into two smaller ones. Altogether there were used in this experiment, 17,284 lbs. milk testing an average of 9.57 per cent. fat. The average loss of fat in the whey was .22. Both vats were treated as nearly alike as possible, except that the A vat was not stirred at the time of dipping. B vats were stirred in the usual way. There was practically no difference in the rate of acid development in the curd. The yield of cheese per 1,000 lbs. milk was: A vats, or those not stirred, 92.95; B vats, or those stirred, 92.05. The quality of the cheese is indicated by the following score:

	Flavor	Closeness
A not stirred	40	15
B stirred	35.75	15.91
A stirred	36.10	15.98

This is a difference of 1.1 points in favor of the stirred curd. This is the average of 14 experiments.

STIRRING THE CURD.

The next series is along similar lines to the one just given except that the milk was all made up in one vat until the time of dipping then the curd was divided into two equal parts, but not weighed until the time of salting. In this case A part was not stirred at all after being thrown out into the curd sink. The B part was stirred in the usual way. There were 32 experiments conducted using 64,687 lbs. milk testing 3.5 per cent. fat and 2.3 per cent. casein. The smallest quantity of milk used at any one time was 1,551 lbs., and the largest quantity was 3,205 lbs. The curds were cut with the 3-8 inch horizontal blade knife and the 1-4 inch perpendicular wire knife and were normal curds dipped with an average acidity of .185, milled at about 7, salted at one per cent, with practically no difference in the development of an acidity in each lot. There was a difference in the moisture content. Favor of the curds not stirred of 6.23 per cent. in the curd at dipping, in the green cheese of .24, and in the cured cheese one month old of .36 per cent. The quality as determined by the score was:

	Flavor	Closeness
A not stirred	36.10	15
B stirred	35.24	14.27

Color	Texture	Finish	Total
15	20	10	100
14.25	17.52	10	91.19
14.25	17.81	10	92.61

or a difference in favor of the stirred curd of 1.62.

STIRRING A NECESSITY

The results of this work would indicate that even under our very best conditions the curd should be stirred sufficiently to allow for the escape of the free moisture before the curd is allowed to mat, though the amount of stirring will all depend on the condition of the curd at this particular stage and in a place where the cheesemaker must use his best judgment.

How to Produce Good Milk

All cows must be free from disease. No milk shall be saved for shipment until the fourth day after parturition. The stables shall be cleaned and aired prior to each milking, and the feeding done after milking.

Each cow shall be groomed daily. The udder and adjacent parts shall be dusted with a damp cloth previous to each milking.

The milk from each cow shall be removed from the stable soon as drawn, and strained.

Any storage room for milk must be free from odors, dust and vermin.

Milk must be stored in a cool place. The top of each can must be screened during cooling and storage.

All utensils coming in contact with milk shall be sterilized at each washing, and handled at all times in a sanitary manner. Milkers should have clean hands and clothes.

Milk from your dairy must be delivered daily at the factory unless otherwise by agreement as when separating is done at home.

Warm Cheese Factories

One reason why the cheese making season has been so short heretofore is the fact that a large percentage of our cheese factories are of such poor construction as to make the manufacture

of cheese next to impossible in the cold season.

With a reasonably warm make-room there is no reason why whey cheese cannot be made during the winter season as well as in the summer season and we have always maintained and will maintain that neither cheesemakers nor their patrons will realize the full value of the cheese factory until cheese will be made the year round just the same as butter is made in the creamery the year round.—Exchange.



Trying to Get Something For Nothing Never Pays

If you buy a separator at a very low price you get a separator built to meet that price. Efficiency and durability in a cream separator cannot be replaced by anything "just as good" at a low price. It takes brains, good material, and a well-equipped factory to make good separators. These things cost about the same price everywhere, and one company cannot secure them any cheaper than another. The difference in the price generally represents a corresponding difference in the value of the machines.

I H C Cream Separators Dairymaid and Bluebell

are as good separators as can be built. If you buy an I H C you will get more years' work out of it than you could out of any other separator, consequently it is the cheapest separator you can buy.

Extra long shafts and spiral cut gears insure durability. Phosphor bronze bushings protect the moving parts. Grit and milk cannot get into the gears, yet the gears are easily accessible. These separators are easy to turn because the working parts are accurately made and perfect oiling facilities are provided.

The bowl has the most effective skimming device ever designed, and a dirt arrester chamber which removes the impurities before the milk is separated. This insures a high grade of cream and makes the bowl easy to clean. The neck bearing is simple and trouble-proof. Made in two styles, each in four sizes.

The nearest I H C local agent will be glad to have you examine one of these separators, or, write the nearest branch house for catalogue.

CANADIAN BRANCH HOUSES:

International Harvester Company of America

(Incorporated.)
At Brandon, Calgary, Edmonton, Hamilton, Lethbridge, London, Montreal, North Battleford, Ottawa, Quebec, Regina, Saskatoon, St. John, Weyburn, Winnipeg, Yorkton.

I H C Service Bureau

The purpose of this Bureau is to furnish, free of charge to all, the best information obtainable on better farming, if you have any worthy questions concerning soils, crops, land drainage, irrigation, fertilizer, etc., make your inquiries specific and send them to I H C Service Bureau, Harvesting Building, Chicago, U.S.A.

WANTED Assistant for cheese and whey butter factory. Apply stating experience and salary expected to
G. GIBSON, SCOTCH LIFE, ONT.

GREAT DAIRY ANNUAL Of Farm and Dairy, April 4th. Watch for it! Get your advertising copy in for it at once.



Save Time, Money and Bother By Buying All Your Dairy Supplies from DRUMMOND

Write right away for our catalogue—do your buying by letter from the largest dairy supply house in Canada. Any of the following shipped promptly on receipt of price.

BEAVER Cattle Instruments



are the results of nearly 100 years of practical experience. They are made by the largest concern of its kind in the world. Beaver Instruments are recommended and used by the leading livestock raisers and the most prominent milk producers of this country.

Beaver Cattle Case No. 2

- Contains \$3.00 milk fever outfit and eight other cattle instruments needed by every dairyman, complete in case \$10.00, regular value \$15. Sent complete with full directions for use on receipt of \$10.00.
- Cattle trocars for blood . . . \$1.50
- Milk fever outfit, complete . . . 3.00
- Hard milkier outfit, complete . . . 3.50
- 7 ft. extenders . . . 3.50
- Plain milking tubes, 3 inches30
- Self-retaining milking tubes, 3 inches . . .40

Beaver Garget Outfit

is the only proper and successful treatment of Garget. Complete outfit, including Garget Remedy (30 treatments), with full "Easy to Use" directions, sent on receipt of \$4.00.

Read Our Guarantee

We guarantee all our goods to be as good as we say. If you have any returning results or if there is any defect in what you buy, let us know and we will adjust it satisfactorily.

Write Now for FREE Catalogue

The Dairy Car on the Ontario Government Demonstration Train was Equipped Entirely with "Drummond" Supplies 103

Straight Spring Scale

Neat construction, thoroughly reliable and durable.
To weigh 25 lbs. or less \$8
To weigh 30 lbs. or less \$9

Decimal Automatic Scale

is made especially for weighing milk in the pail. A loose indicator on the dial is set back by a thumb-screw when the pail is on the hook. Then when the pail is weighed this indicator gives the exact net weight of the milk. Can also be used for weighing anything by tenths.

- 30 lbs. by oz. \$3.50
- 30 lbs. by tenths 4.00
- 60 lbs. by oz. 4.50
- 60 lbs. by tenths 5.00

Beaver Milk and Cream Shipping Cans

- Heavy Railroad Shipping Milk Can, Umbrella Cover, Drop handles.
No. 297, 8, 8 gallons, 27 1/2 lbs. . . . \$3.50
- No. 297-10, 10 gallons, 31 lbs. 4.50
- No. 296, 8 gallons, 22 1/2 lbs. 3.00
- Cream Cans, Umbrella Top, a good strong can for shipping cream.
No. 291-4, 4 gallons. Each \$2.50
- No. 291-3, 3 gallons. Each 2.75
- No. 291-2, 2 gallons. Each 2.90
- Can Seals. Per 1,000 4.50



W. A. DRUMMOND & CO.

215 King Street E. - Toronto

Well, Well!

THIS is a HOME DYE that ANYONE can use



I dyed ALL these DIFFERENT KINDS of Goods with the SAME Dye. I used

DIYOLA

ONE DYE FOR ALL KINDS OF GOODS

CLEAN and SIMPLE to Use. No chance of fading the WRONG Dye for the Goods and has to color. All colors from your Druggist or from FREE Color Card and 10¢ Packet from The Johnson-Richardson Co., Limited, Montreal.



SETTLERS' TRAINS

MANITOBA, ALBERTA SASKATCHEWAN

The only through line LOW COLONIST RATES

For action traveling with livestock and effects

Special Trains will leave Toronto Each TUESDAY MARCH and APRIL 10.20 P.M.

Suites and families with livestock should use

Regular Trains Leaving Toronto 10.20 P.M. Daily Through Ontario and Tourist Stopovers

Colonist Cars on all Trains No charge for berths Through Trains Toronto to Winnipeg and West

Ask any C.P.R. Agent for copy of "Settlers' Guide"



Remember the St. Lawrence Sugar

Try it—test it—see for yourself — that "St. Lawrence Granulated" is as choice a sugar as money can buy

Get a 100 pound bag—or even a 20 pound bag—and compare "St. Lawrence" with any other high-grade granulated sugar.

Note the pure white color of "St. Lawrence"—its uniform grain—its diamond-like sparkle—its matchless sweetness. These are the signs of quality.

And Prof. Hersey's analysis is the proof of purity—99.99/100 to 100% of pure cane sugar with no impurities whatever". Insist on having "ST. LAWRENCE GRANULATED" at your grocer's.

ST. LAWRENCE SUGAR REFINING CO., LIMITED, MONTREAL.

OUR HOME CLUB

Boost Our Business.

"Yes, Tom is going to Toronto tomorrow. He has gotten a job there with an express company. Says he would not stay with the farm on any consideration; and I don't know of a better 'hundred' in Ontario." Thus spoke one of our neighbors down at the post office the other night, and they reply that he got from another neighbor set me thinking. It was:

"Well, he took your word for it." That farmer was what you might call a knocker. His continual complaint was that the farmer was the hardest worked man on the face of the earth and got smaller returns for his work than any other class of two footed animals. In fact, if you talk you would think that no intelligent being would ever try to be a farmer, and yet when his son took him at his word and went off to get a better job in the city he was very much surprised.

I know that I have been somewhat of a knocker myself at times, but once in a while I like to be a booster. Had that man knocked in the proper place his son would still have taken him at his word and stayed on the farm.

When coming home from the National Exhibition at Toronto last fall I rode in the same carriage with a hardware dealer from Guelph. His whole talk was about hardware and the hardware business. Perhaps his views were somewhat narrow on other subjects, but he seemed to know all there was to be known about hardware, and he was a booster of his own business from the word "go." "I'll guarantee that his son will be a hardware merchant."

If the boss and his neighbors wish

to keep their children on the farm they must be boosters, not knockers, and just as a suggestion, let me say that even the hired man would rather work for a booster.—"Another Hired Man."

Men Wanted

By Elbert Hubbard.

Society seeks men who can serve it. We want help, the help of the strong, the sensible, and the unselfish. The age is crying for men—civilization wants men who can save it from dissolution, and those who can benefit it most are those who are freest from prejudice, hate, revenge, whim and fear.

Two thousand years ago lived One who saw the absurdity of a man's loving only his friends. He saw that this meant friction and faction, lines of social cleavage with ultimate disorder; and so he painted the man large, and declared that we should love our enemies and do good to those who might spitefully use us. He was one with the erring, the insane, the poor, and he was free from prejudice and fear. He was a man set apart, because he had no competition in matters of love. If we can imitate His divine patience and keep thoughts of discord out of our lives, we, too, can work such wonders that men will indeed truthfully say that we are the Sons of God.

There isn't much rivalry here—be patient, generous, kind, even to foolish folk and absurd people. Do not isolate yourself—be one with all, be universal. So little competition is there in this line that any man, in any walk of life, who puts jealousy, hate, and fear behind him can make himself distinguished. All good things shall be his—they will flow to him. Power gravitates to the man who can use it—and love is the highest form of power that exists. If ever a man shall live who has finite power he will be found to be one who has infinite love.

Cooking Hints

Fried ham will be as tender as chicken if cooked in this way: Wipe a slice of ham with a cloth wrung out of cold water, and cut off half of the outside layer of fat. Put in an iron frying pan, cover with tepid water, and let stand on the back of the range 30 minutes, not allowing the water to reach a higher temperature than at first. Drain the ham, and dry on a towel. Heat the frying pan, put in the ham, and brown quickly on one side, then turn and brown on the other side, the time required being about three minutes. Remove to a heated platter, and serve at once.

When cold potatoes are left which may make a salad, use them in this way. If there is celery, cut it up, add a few nut meats and a very little stiff mayonnaise and serve for luncheon. If string beans, drain and chill them, lay on lettuce and have them for dinner with dressing. Use cauliflower in the same way. Beets may be chopped, mixed with beans or stoned olives and served with mayonnaise. Cold peas are palatable. They may be creamed and put on toast; or put in a brown gravy around meat; or put in a lamb stew; or mixed with mayonnaise and laid around cold meat; or served with canned salmon. A cupful of canned corn may be made into corn fritters, or creamed or put on toast, or baked in a corn cutlet. Canned tomato may go into soup, or make a sauce to eke out a dish of meat.

Don't boil milk for coffee. Scald it.

The Sewing Room

Patterns 10 cents each. Order by number and size. If for children, give age; for adults, give bust measure for waists and waists for skirts. Address all orders to the Pattern Department.

TUCKED BLOUSE, 7386 WITH STRAIGHT BACK EDGES

This blouse is made with straight back edges is especially well liked and well adapted to lingerie materials, for it can be laundered easily and successfully. This one also includes the new sleeves that are finished with deep cuffs. It is tucked after a most becoming manner and it is altogether attractive.

For the medium size will be required 5 1/4 yards of material 27, 2 1/2 yards 36 or 44 inches wide.

This pattern is cut in sizes for a 34, 36, 38, 40 and 42 inch bust measure.

COAT WITH BROAD COLLAR, 7334.

The coat that is cut to wrist length is a favorite one. This one is finished with the big collar that is so essentially fashionable and with a trimming portion at the front that renders it entirely individual.

For the medium size will be required 2 1/2 yards of material 27, 2 1/2 yards 44 or 52 inches wide with 1 yard for the trimming.

This pattern is cut in sizes for a 34, 36, 38, 40, 42 and 44 inch bust measure.

PLAIN BLOUSE OR SHIRT WAIST, 7333.

The plain shirt waist that is finished with shaped front edges that are overlapped is a new and smart one. The one illustrated can be treated in that way or finished with plain hemmed edges, as illustrated with overlapped lapels and straight cuffs.

For the medium size will be required 2 3/4 yards of material 27, 2 3/4 yards 36, 1 1/2 yards 44 inches wide.

This pattern is cut in sizes for a 34, 36, 38, 40 and 42 inch bust measure.

MANNISH SHIRT WAIST FOR MISSES AND SMALL WOMEN, 7317

The perfectly plain, or mannish shirt waist is an exceedingly smart one and much liked, especially by the young girls. This one will be found appropriate for cotton, linen, waist with button and all waisting materials.

For the medium size will be required 2 3/4 yards of material 27, 1 3/4 yards 36, 1 1/2 yards 44 inches wide.

This pattern is cut in sizes for misses of 14, 16 and 18 years of age.

OLD COUNTRY DOMESTICS

Capable Scotch, English and Irish maids. Parties arriving twice a month.

Apply now. The Guild, 71 Drummond Street, Montreal, 47 Pembroke St., Toronto, or 227 Bank St., Ottawa



THE HILL-CREST CONSIGNMENT
Editor, Farm and Dairy.—The Hill-Crest offering to the great Belleville sale consists of several extra good cows and heifers in milk, or bred to Pontiac Herma.

Susan Monthide DeKok entered Record of Merit last year as a junior two-year-old

with 11.59 lbs. butter 10 months after freshening. This year, with second calf, she has milked up to 71 lbs. a day, nearly five months after freshening. Both her calves, like several other cows we are retaining them.

We have in the sale a daughter of De-

Kol 2nd's Mutual Paul, only living son of DeKok 2nd (greatest transmitting cow of the breed). The dam of this heifer is a gr-daughter of Patriotic Hengervold Count DeKok, who has 95 A.R.O. daughters, 60 milking over 100 lbs. each a day. This heifer has just freshened with second calf, both heifers, and will be in good

shape to test. She is a regular milking machine. Her sister in our herd is 7½ lbs. in one day. Another sister milked up to 70 lbs. in one day. Another sister, bred to DeKok over 3½ lbs. better in seven days, and made six sisters of Maid Mutual DeKok, 31 lbs. in one day. This sold for \$5,000. These are all of our milking females.

Among heifers we are offering is a gr-daughter of Pontiac Korndyke (sire of two 2-pound cows), out of a gr-daughter of Paul Boese DeKok's 1st A.R.O. daughter. This heifer won many first prizes last fall. This is the kind in which one can buy breeding and individuality.

In males we are offering one son and two grandsons of Hengervold DeKok (greatest A.R.O. sire of the breed). One grandson of Pontiac Korndyke (greatest living sire). No need to tell you about this breeding. There is nothing better. Look up "Hill-Crest" offering in catalogue, then hunt up the boy himself at Belleville.—G. A. Brothen, Norwood, Ont.

GREAT SALE OF HOLSTEINS

Editor, Farm and Dairy.—Maple Stock Farm, Bealton, will present at auction on April 4th, 40 head of pure bred Holstein cattle. The very best breeding, a large number having official records, records that we are proud of. The young cows and heifers are under official test now and their records will be given at the sale. The number of cows is made up of 10 two-year-olds, five three-year-olds, five four-year-olds, six five-year-olds, one eight-year-old and two 15-year-olds. These two cows are good ones and the boys, if they should be heifers, are worth \$100 each.

We offer six bulls, five of which are yearlings from official record dams, and one bull, four years old, Count Merona. He was sold at the head of the herd. He was grand champion at London, 1909, and has won many other prizes. This bull is just in his prime, and in the best of condition. His dam and sire's dam average nearly 25 lbs. butter a week, his dam won the sweepstakes at Toronto in 1908 and 1910, and won second prize at Toronto in 1909 and 1910 at 15 years old. The Favorita are noted for great producers in milk and butter.

Write and get a catalogue giving the pedigree of this great bull and see his breeding and the pedigree of his official record sisters. The cows and heifers subscribed to this great bull. Never before such Norfolk Co. has there been offered such a herd of official record cows and heifers, and heifers from official record dams. They are all in the pink of condition, and they wintered well and in first class shape to do a good summer's work. Do not forget the date. Come and see the cattle. Whether you buy or not we will cater and use you well. Halfway on all railroads. Trains met at Villa Nova and Waterloo in forenoon and returned at night. Lunch at noon for all persons from a distance. Everything will be sold.—Wm. Slaght, Bealton P.O., Ont.

RICH-IN-BUTTER FAT HOLSTEINS AT AUCTION

It is not often that cattle of so high a quality and of such rich breeding have been placed on the open market, to be sold by public auction, as we have on Thursday, April 4, at the Brookland Stock Sale, Watford, Ont., when Mr. J. W. McCormick's 42 head of Holstein cattle will all be sold to the highest bidders. The photographs of some of Mr. McCormick's foundation cows, as reproduced in his advertisements elsewhere in this issue, give one a little idea of the excellent type and the producing capacity of the cows in this herd. Mr. McCormick, as may be noted from the breeding of the cows in his herd as set forth in his catalogue, has always had and his stock only from the leading and most popular families—families noted for their high per cent of butter fat and big production of milk and butter.

Copies of the catalogue giving the breeding of each of the animals in the sale may be had on applying to Mr. McCormick all breeders and prospective breeders of Holstein cattle who are interested in building up their herds, or forming new ones with individuals noted for their big production of butter fat, will find it a point to attend Mr. McCormick's sale or arrange to have his man for them on individual cows they may want. Any bids sent to Mr. McCormick by mail will receive the same attention as though made in person.



**SAVE OVER \$25
WHEN BUYING YOUR
RANGE
THIS FALL.**



**\$41.00
TO
\$49.00**

AND WE PAY THE FREIGHT

You Can Buy "DOMINION PRIDE" RANGE At Factory Price
Direct From The Largest Malleable Range Works in Canada

If you want to save from \$25 to \$50, and at the same time get the most satisfactory kitchen range made, write for our Catalogue and look into the merits of the "DOMINION PRIDE", at from \$41 to \$49. If we sold you identically the same range in the usual way, through a dealer, you would have to pay from \$69 to \$78 for it. You would be paying two extra profits—to wholesaler and retailer—which would add \$25 to \$50 to the cost of your range, but absolutely nothing to its value.



"The Evolution of the Cook Stove"

Tells about cooking from the time the Cave Dwellers dropped hot stones into the pot to boil it. It also tells all about "Dominion Pride" Ranges. Whether you need a Range just now or not you will enjoy reading this book.

Write for Free Copy.

Besides costing much less than other ranges in its class, the "DOMINION PRIDE" is much more satisfactory. It is made of tough, strong, malleable iron and the best blue polished steel—materials which will not warp, crack or break.

The polished steel does not need blacking—simply rub it over with a cloth. With its cold rolled steel plate oven—sectional iron fire-box lining, with air chambers—and double-walled flues lined with asbestos—the "DOMINION PRIDE" is the most economical range you can buy. Actual tests have proved that it saves over 30% of fuel, burning either wood or coal.

WE PAY THE FREIGHT

A "DOMINION PRIDE" Range, with high coated shelf and elevated tank or flush reservoir, with zinc sheet to go under range, 8 sections Ontario, Quebec or the Maritime Provinces will be delivered to any station in the four eastern Provinces for \$49—\$50 to be sent with order and balance to be paid when the Range is delivered at your station. If not convenient to pay cash we will arrange to accept your note.

Canada Malleable & Steel Range Mfg. Co., Limited, Oshawa, Ont.

When writing it will be a distinct favor to us if you will mention this paper.

'NEW CENTURY'



WASHER

Let the New Century Do Your Clothes Washing

If your washing could only talk it would call for the weekly cleaning by a NEW CENTURY. It goes right after the dirt and soiled spots and removes every trace quickly without the slightest injury to the most delicate fabric, and "SO EASY."

If you only knew how much lighter wash day work would be and how much time and strength you could save, you would have one quick. Ask any good dealer to demonstrate the NEW CENTURY way of clothes washing. Look at the springs that do half the work and the ball bearings that make it run "SO EASY."

Notice the RUST PROOF shaft, through centre that makes the machine rigid and insures long life, also the "Anti Warp" rust proof steel ring spring into a groove inside the tub. No other machine can have these features. It is original, unequalled, and pays for itself in the clothes it saves. It is harmless to everything except dirt. Ask for "AUNT SALINA'S WASH DAY PHILOSOPHY"—an interesting little book that will bring to you many ways of lightening the drudgery of wash-day.

SUMMER-DOWSWELL
HAMILTON, CANADA. LIMITED.

A-12

A RESOL.

Editor, Farm resolution, owing by which it was held in a special meeting, wise to recommending before putting "After May 1st of \$5.00 will be every cow, heifer or calf in the sale. In response as in States, this resolution for all capacity. —W. F. S. shire Broderick.

NELLES' AND

Owing to M. one to two hour side buyers were erwise have N. stein sale of N. Out. The sale r receipts among Some of the

See

Just received OATS we have years. They are bushel and great Middleton land. Any S of them.

ASK F

RECENERATE

RECENERATE

Both lots are We offer them bushel of bush, bags in el lots at \$11 free. Below fit Crown Oats:

Duasberry, to Abundance, test rian, test 37½ lb. test 47½ lb. at \$11 free. Below fit Crown Oats:

B

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O.A.C. No. 21,

lbs. at 1.25 O.A.

free 45 lbs. at 1

Cl

and

Herewith and

week from date

if you live in

the or more of

we will pay

nearest station,

are six-wheeled

bags for Clover

Red Glove

Sun Brand

Moon Brand

Comet Brand

Alfalfa

Clover

Gold

Silver

Alyke, Ocean

Sea

Lake

Timothy, Blue

Crescent

Circle

Fert

Order along

Muriate of Pot

Sulphate

And Phosphate

Nitrate of Soda

Our catalogue

for the different

SEND FO

Geo. Ke
SEED MERCH
124 KING ST.

GOSSIP.

A RESOLUTION CANCELLED
 Editor, Farm and Dairy.—The following resolution, owing to the small majority by which it was carried at the last annual meeting, the directors thought it wise to reconsider it at next annual meeting before putting into effect.

"After May 1st, 1912, a registration fee of \$5.00 will be charged the owner of every cow, heifer and bull that registers in the test. As the breeder is at no expense as in Associations in the United States, this fee will recoup the association for all expenses in connection with the test.—W. F. Stephen, Sec. Treas., Yorkshire Breeders' Association.

NELLES' AND WOODLEY'S HOLSTEIN SALE.

Owing to M. C. B. trains being from one to two hours late, not as many outside buyers were present as might otherwise have been expected at the Holstein sale of Nelles & Woodley, Boston, Ont. The sale proved a fair success, the receipts amounting to nearly \$3,100. Some of the cows sold unreasonably

cheap, while a number of others ranged from \$150 to \$225. The 15 cows averaged \$138.60; six yearling heifers brought from \$70 to \$130, averaging \$95; four yearling bulls from \$36 to \$93, or an average of \$46.50; spring heifer calves from three days to three weeks old averaged \$82 each.

Houwitz Pontiac sold at \$355 and her yearling bull at \$93. Tidy Abbecker Maid and her 16-month-old heifer calf selling at \$350, are claimed by Nelles and Woodley to be the two highest priced Holstein cows raised and sold by any one firm in Norfolk Co.

Among the principal buyers were Munro and Lawson, of Thorold, who took a consignment; Mrs. W. P. Clark, of Parry Sound; Anderson Bros., York; Arthur E. Young, Hamilton; Mosser Sager and Nixon, Troy; Mr. Fanger, St. George; F. L. Culver and Son, Waterford; Messrs Barron, Roberts and Chapin, Newport. Many others were present.

BERTRAM HOSKIN'S HOLSTEIN SALE.

Considering the quality of the stock offered, the prices realized by Mr. Bertram Hoskin, The Gully, Ont., at his sale on March 7th, were not all that might be expected. Several cows that were first class individuals and backed up by the right kind of breeding changed hands at less than \$100.

Some of the prices realized were as follows: Van Duesen Dekol, to Roy May, Castleton, \$99; Queen Patti DeKol, J. W. Turpin, Coburne, \$133; Queen Clothilde Dekol 2nd, J. W. Turpin, \$113; Queen Clothilde DeKol, J. B. McNeal, Cobourg, \$116; Belle Dekol Clothilde 2d, F. Shearwater, \$114. Other buyers present were: Wm. Wright, Cobourg; J. Usher, Wicklow; M. Drum, Brookside; Jas. Drum, Grafton; Wm. Payne, Port Grand; J. D. Hayden, Cobourg; M. Curtis, Mill Valley; C. Hare, Cobourg; Jas. Yule, Rosemeath; J. B. McKague, Gaittield; F. Benedict, Cobourg; J. Wigg, Wicklow, and S. Schwartz, Cobourg.

SPENDIEN HOLSTEIN'S AT AUCTION.

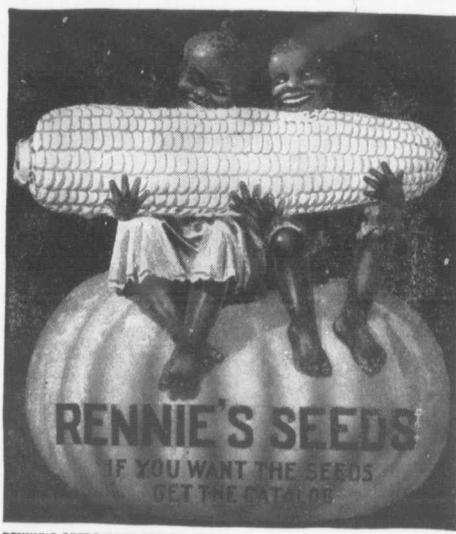
Editor, Farm and Dairy.—I am consigning my herd of Holsteins to the Belleville consignment sale, with the exception of seven females, daughters of our imported bull. When I started to secure my herd I was not an expert in dairy cattle, but took the trouble to learn myself as to which were the best producing families of the breed, and tried to purchase descendants of such cows as DeKol Ind, Neherland Hengerveld, Belle Korndyke, and such bulls as Hengerveld DeKol, Pieterje Hengerveld's Count Dekol, and Pontiac Korndyke. I went to reliable breeders: Brown Bros., Lys; M. Haley, Springfield; A. D. Foster, Bloomfield; and Henry Stevens and H. C. Swartout, of New York State. I have succeeded in building up a herd, which I have every reason to be proud of. My cows have all been tested, making good records. One heifer, with first calf at 3 years, made 23½ lbs. first test, and 11 months after calving made over 11 lbs. average, which would make for a year 367 lbs. butter. They are all bred to our imported bull. Nearly all are due to frigate in April and May, which will give the purchaser a chance to get two for one. Will also have some young bulls and bull calves to sell at private sale.—Benj. Leavens, Bloomfield, Ont.

THE GLENSPRINGS CONSIGNMENT.

Editor, Farm and Dairy.—Believing that the future reputation, not only of our own herd, but of that of our district, is at stake as regards the class of stock we are to offer at these annual sales of the Belleville District Holstein Breeders' Club, we are aiming to give the public a chance to buy their own private choice of stock that was offered last year, and those who attended the sale in Belleville last year have declared themselves well satisfied with the stock there offered and sold.

My own consignment this year comprises four animals, which, I believe I can truthfully say, are the best quartette that have ever been offered at public auction, either in Canada or the United States. With a start they would make for a better offer who had a little more money in the greatest breed of dairy cattle that the world possesses! Lulu Kaye, with her senior 2-year-old world champion 12½ lbs. of milk and 700 lbs. of butter, true to type, sound as a bell in every particular. Omega, with her senior 10-year-old at 10 years of 15.63 lbs. milk, 77½ lbs. of butter in 10 months, and closely related to

(Concluded on page 35)



RENNIE'S SEEDS HAVE GOT TO GROW IF YOU WANT THEM BUT A SHOW THE FINEST IN THE LAND
WM. RENNIE CO. LIMITED, TORONTO, MONTREAL, WINNIPEG, VANCOUVER

Seed Oats

Just received, some of the finest OATS we have ever handled in years. They test 44 lbs. to the bushel, and were grown in the great Midlothian District, Scotland. Any Scot would be proud of them.

ASK FOR SAMPLES
REGENERATED ABUNDANCE
REGENERATED BANNER

Both lots are splendid samples. We offer them while they last in 5 bushel lots or over at \$1.30 per bush, bags free. Less than 5 bushel lots at \$1.50 per bush, bags free. Below find list of our Ontario Crown Oats:

Dasheney, test 35 lbs. at 1.25; Abundance, test 38 lbs. at 86c; Siberian, test 37½ lbs. at 85c; Pamper King, test 37½ lbs. at 90c; White Cluster, test 37 lbs. at 85c; Lincoln, test 40½ lbs. at 85c. We also offer good, clean Banner Oats that test 38 lbs. to the bushel but contain a sprinkling of Barley at 75c per bushel.

Barley
 BAGS FREE
 O.A.C. No. 21, our best lot, test 49½ lbs. at 1.25; O.A.C. No. 21, good sample, test 48 lbs. at 1.20.

Clovers and Timothy

Herewith find prices good for one week from date of issue of this paper. If you live in Ontario and order 100 lbs. or more of clover and Timothy, we will pay the freight to your nearest station, otherwise our prices are exwarehouse Toronto. Cotton bags for Clover and Timothy at 25c. Hovey Gov't Bran. Price per bush:

Sun brand	No. 1	\$15.50
Moon brand	"	14.50
Comet brand	"	3
Alfalfa		
Clover		
Gold	"	1
Silver	"	1
Alyke, Ocean	"	2
Sea	"	2
Lake	"	3
Timothy, Diamond	"	2
Emerald	"	2
Circle	"	3

Fertilizers

Order along with your seeds:
 Murate of Potash \$40.00 per ton
 Sulphate 80.00
 Acid Phosphate 19.00
 Nitrate of Soda 37.00
 Our catalogue tells you how to mix for the different crops.

SEND FOR CATALOGUE
Geo. Keith & Sons
 SEED MERCHANTS SINCE 1866
 124 King St. East Toronto

Prospective Buyers at Belleville Sale

Notice!

Look up the Holstein reading notes in FARM AND DAIRY this week and note the high quality of the animals I am consigning to the great Belleville sale, April 3 and 4.

My entire herd, all but seven females, daughters of our imported bull, will be in the sale. All of these cows have been in the sale and Catalogue gives their breeding. You will see them at the sale and know just what you are buying. Females are all bred to our imported bull, thus when you buy one good animal of mine you get two.

Benj. Leavens, - Bloomfield, Ont.

BREEDER'S DIRECTORY

Cards under this head inserted at the rate of \$4.00 a line per year. No card accepted under two lines nor for less than six months, or 1 insertions during twelve months.

FOR TAWMOUTH SWINE—Write John W. Todd, Cornwall, Ont., R.F.D. No. 1.
HAMPSHIRE PIGS—Canadian Champion J. & J. Sample, Milverton, Ont., and Leaveness, Minn., U.S.A.
CLYDESDALES—Home of Acmé, (Imp.) Holsteins—Home of King Payne Sires Clothilde, nearest 7 dams 7½ lbs. butter per week, and Broken Welsh Fannies. R. M. Holby, G.T.B. & P.O. Manchester, Ont., Myrtle C.P.B.
HOLSTEINS AND TAWMOUTH—All ages, also S.O.W. Leaghorns. Young stock for sale at any time.—J. McKenna, Willowdale, Ontario.

CALVES RAISE THEM WITHOUT MILK
Boskell Bros.
Steel, Briggs Seed Co., Ltd., Toronto, Ont.

AYRSHIRES



**Menie District
AYRSHIRE
Breeders' Club**
Ayrshire of all ages, both sexes
c/o Alex M.D.A.'s Club
c/o Alex Hume, Menie, Ont.

AYRSHIRES AND YORKSHIRES

For sale—High class Ayrshires, all ages, including Calves and Bulls fit for service. First prize Yorkshire pigs, all ages. Send in your orders now for pigs to be shipped in March, April and May prices, \$5 each. Registered in name of purchaser. Apply to
MR. W. OWENS, or to ROBERT SUTTON,
Proprietor,
River Side Farm - MONTEBELLO, QUESNEL.

CITY VIEW AYRSHIRES.

R. O. P. cows and two-year-old heifers for sale, one yearling bull and a fine lot of 1911 bull calves. Prices reasonable. Write or phone.
JAMES BEGG, R. R. No. 1, St. Thomas.

Burnside Ayrshires

Winners in the show ring and dairy tests. Animals of both sexes. Imported or Canadian bred, for sale.
Long distance phone in house.

R. R. NESS, HOWICK, QUE.

Ayrshires

World's Champion herd for milk and production. Some young bulls and bull calves, all from R.O.P. cows for sale. A grandson of Princess of Lancaster II the lot. Address
**WOODSIDE BROS., Tangierville Farm,
ROTHSAY, ONTARIO.**

CHOICE AYRSHIRES

For quick sale several choice Cows and Heifers, all producers, high testers, good tests. Also two choice Bull Calves. Record of performance work a specialty. Winners in show ring and dairy tests. For something choice write at once. Prices low during March, considering quality. Satisfaction guaranteed. **WILLIAM THORN,**
Treat Run Stock Farm, Lynchville, Ontario.
Long Distance Phone in House.

THE SPRINGBANK HERD OF AYRSHIRES

Contain more World's champion milk and butter producers than any other herd in America. A few choice milk calves from record breaking dams for sale at reasonable prices. Address
**A. S. TURNER & SON,
Ryckman's Corners, Ont
3 miles south of Hamilton.**

AYRSHIRE BULLS

Two April, 1911, bulls—one a very choice son of Annie Laurie and the other of F. 7728 the milk and 532 lbs. butter as a 2 year old, by the champion record producer "Scottie". G. dam, Annie Laurie 2nd (8. of F. 15,134 the milk and 696 lbs. butter). Other bull—a beautiful son of Kirsey (milk and 643 lbs. butter). G. dam one of the celebrated "Annie" cows imported Kirsey. W. W. BALLANTYNE,
Phone STRATFORD, ONT.

RAVENSDALE AYRSHIRES

Special offering of a splendid lot of Ayrshire Bulls, two to 12 months old. Write for information. Prices reasonable.
**W. F. M.A.'s Ravensdale Stock Farm,
QUEBEC.**

AYRSHIRES AND YORKSHIRES

Young Bulls and heifers of good type and breeding not akin to other breeds. Also proved Sires. Different ages. Order by book or Calves. Jan. and Feb., 1912, pigs of both sexes on hand.
Write or phone for prices.
**ALEX HUME & CO., MENIE, ONT.
Board's Station, G.T.R.**

MARKET REVIEW AND FORECAST

Toronto, Monday, March 26.—The near approach of spring has been attended by a very noticeable increase in the volume of trade. Prospects up to the present have not been so encouraging, but this last week wholesale dealers report a large increase in summer orders. In all lines there is a noticeable improvement.
The only important change in farm produce markets is in the price of hogs. Quotations had gone up 75c in the last week, and some packers are talking of \$8 hogs. The Easter trade has hardly started as yet.

WHEAT

Wheat prices have remained steady on the local market. At larger American centres and in the Old Country prices have fluctuated considerably. From now on crop reports will play an important part in determining prices. No. 1 Northern is quoted \$1.13 1/2; No. 2, \$1.10 1/2; No. 3, \$1.06 1/2; Manitoba feed wheat, 76c. Little Ontario wheat is moving, and the demand is equally short; \$9c to \$9c in car load lots outside.

COARSE GRAINS

Maltsters are very active and barley prices have dropped accordingly. Corn and oats are slightly stronger. Other quotations are unchanged. Barley, malt-

er primes and \$2.35 to \$2.50 for hand picked. At Montreal three-pound pickers are quoted at \$1.15.

EGGS AND POULTRY

Receipts of Canadian eggs have been quite liberal, but as demand is equally firm no further decline in price is expected. Dealers are already preparing for the Easter market. New laid eggs are quoted, wholesalers at 34c to 35c, and retail at 37c to 38c. At Montreal supplies of new laid Canadian are not large, and prices are firm at 32c country points. These prices will not last long with milder weather.

Wholesale quotations on dressed poultry are as follows: Chickens, 15c to 17c; fowl, 14c to 15c; turkeys, 25c to 32c; ducks, 15c to 16c; geese, 15c to 16c. On the retail market chickens sell at 30c to 35c; fowl, 10c to 12c; turkeys, 25c to 30c; geese, 16c to 18c; ducks, 15c to 18c.

DAIRY PRODUCE

There is little Canadian made butter coming on the market at the present time. Supplies from New Zealand and more recent small shipments from the Eastern States have relieved the situation somewhat. Dealers note that dairy prints at 30c to 35c; creamery prints, 35c to 37c; solids, 34c to 35c, and inferior, 28c to 29c.



Good Individuals Backed by the Right Kind of Breeding

This illustration does not do justice to these young bulls, all of which will be offered by Mr. Geo. W. Anderson, Rossmore, Ont., at the Belleville Consignment Sale, April 3rd. They are of the kind, however, to grade up a herd in size and production. All of these bulls, two of which are ready for service, are from E.O.M. dams bred by Velstra Triumph, two of the great producing strains of Velstra Triumph on the Farmers' Market choice dairy butter brings 38c to 42c. Cows are quoted at 17c to 17 1/2c for twins and 15c to 17c for large.

HORSES

Quotations are as follows: Heavy drafts, \$175 to \$200; med. weight, \$170 to \$210; agricultural, good, \$150 to \$225; farm, \$150 to \$180; delivery horses, \$160 to \$220; drivers, \$150 to \$200; saddleers, \$150 to \$200.

LIVE STOCK

There have been few changes worth noting on the cattle markets this last week. Choice exporters have ruled a trifle higher. Otherwise prices are unchanged. Receipts have not been unusual, but demand was small in proportion as the Easter trade has not yet started in earnest. Dealers believe that there will be more fancy cattle marketed this Easter than for several years past, but not affect the Easter trade.

Quotations are as follows: Butcher cattle, choice, \$5 to \$6; med. to good, \$5 to \$5.25; cows, choice, \$4.75 to \$5.50; good, \$4 to \$4.70; com. to med., \$3 to \$3.50; export cattle, choice, \$5.50 to \$7.05; bulls, \$5.25 to \$5.50 for choice, down to \$3.50; feeders, \$3.50 to \$5.85; stockers, \$3 to \$5.30; and canners, \$2 to \$2.75.

Choice milk cows are quoted at \$20 to \$70; com. to med., \$30 to \$45, and springers, \$40 to \$60.
The demand for sheep and lambs continues good. Ewes are quoted at 55c to 65c; bucks and culls, \$3.50 to \$5.50.

The only sensational feature of the market has been the rapid advance in the price of hogs. Receipts have been light, which accounts for the advance. Packers are quoting \$7.45 to \$7.50 f.o.b. country points, and \$7.70 to \$7.80 on the market.

HOLSTEINS

AVONDALE FARM HOLSTEINS

Arthur C. Hardy, Prop.

We offer bull calves, all ages, and all out of tested dams. One is son of Sir Johanna Colantha (Glad), being grandson of Colantha Johanna Lad and Post-horse Korndyke and from a 25 lb. three-year-old dam.

Also JOHN DORSET SHEEP and YORK SHIRAZ CATTLE.
Address all correspondence to
H. LORNE LOGAN, Manager
Brookville, Ont.

HOLSTEINS

If you are wanting HOLSTEINS, any age, either sex, write

GORDON B. MANHARD, Ontario.
Barnhart, Ont.

GREATEST VIEW HERD

Offers bull calves from 7 to 11 months old, bred by Karl Joseph, son of Karl Bos, whose dam and grand dam have the largest of fully authenticated records ever made in Holland. These calves' dams are large, evented, exceptionally high legged cows. For description and price write
ARCHIBALD PARKS, NAPANEE, ONT.

AUCTIONEER

My lifetime has been devoted to Breeding Holsteins and selling Dairy Cattle. Have sold sales from the Atlantic to the Pacific by order of the following:—ROBERT E. HAGER, ALGONQUIN, ILL.

LYNDALE HOLSTEINS

Present Offering: Young Bull fit for service. His dam sire's dam and grand dam average 29.40 lbs. of butter in 7 days.

BROWN BROS., LYN, ONT.

RIVERVIEW HERD

Offers bull calves from 2 to 10 months old, bred by KING ISABELLE WALKER, 3 years old, and water average 30.18 LBS. BUDGET IN 7 DAYS. Also 15c in the 30 days from dams of likewise high bred, exceptionally high legged, to make room.
P. J. SALLEY, LACHINE RAPIDS, QUE.

WOODLAND HOLSTEINS

A son of Netherland Angle De Kol, R. of E. of 2nd 11.65 lbs. milk, 389 lbs. butter, Champion cow of Canada 1909, for sale.
A son of Aggie Sells De Kol, R. of P. test at 2 yrs., 19.23 lbs. milk, 312 lbs. butter, also offered. He is full brother to Woodland Angus De Kol, R. of P. records at 2 yrs., 11.77 lbs. milk, 213 lbs. butter. A 3 yrs. E. of M. 472 lbs. milk, 18.04 lbs. butter in 7 days.

Both raised by Woodland Baronsite Lad. Write for particulars.
**J. M. VAN PATTTER & SONS,
R. R. No. 1, Aylmer, Ont.**

N.B.

Having sold all my yearling Holm, bulm, I am now going to offer my young son of Dismos 2nd Lulu, the Dan of Lulu Key.

He is 3 weeks old, light in color, straight and well formed. Price \$125.

E. B. MALLORY

FRANKFORD, ONTARIO

LIVE STOCK AUCTIONEERS

The Success of your sale depends largely on the man who handles it. Terms reasonable.
F. H. MCCULLOUGH & SONS, Napan, Ont.

SUNNYSIDE FARM HOLSTEINS

For Sale—Bull Calves from 1 to 9 months old, all from high producers. Dam of one of these won first in aged cow class and second in dairy test at Sherbrooke Fair.

The other is a cow as good.
Also a few choice heifer calves and one yearling, bred to Schulling De Barring. Also a 2-year-old bull, which has tested three first prizes at Sherbrooke Fair. This bull is 18 lbs for each of the first two years and five years old, some of the Calmsy strain, also a few choice high bred yearling heifers.
Write or come and see them. Prices right.
QUY R. MONTLE, ROCK ISLAND, QUE.

THE ENGLISH NOTY



The wind FREE, and you need it

Canad

Investigate the advantages. Write for

ONTARIO AND PU

Winnipeg

Litter and Stanchions.

Goods that will last. Write for

R. DILLON, South

HOLSTEINS

EGG Cows, Dues and milkers. Write for

R. DILLON, South

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EGG Cows, Dues and milkers. Write for

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EGG Cows, Dues and milkers. Write for

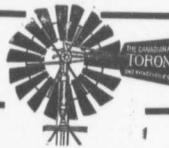
R. DILLON, South

HOLSTEINS

EGG Cows, Dues and milkers. Write for

R. DILLON, South

THE ENGINE THAT COSTS NOTHING TO RUN



The wind furnishes the "fuel" FREE, and you get all the power you need when you have a **Canadian Airmotor**

Investigate. Learn the cost and the advantages of wind-power. Write for our FREE book.

ONTARIO WIND ENGINE AND PUMP CO., LIMITED
Winnipeg TORONTO Calgary

Litter and Feed Carriers
Stanchions, Hay Carriers, Etc.

Goods that will suit you at prices that will make you smile

Write for further information

R. DILLON & SON
South Oshawa, Ont.

HOLSTEINS

COWS EIGHT HIGH GRADE HOLSTEIN Cows, young, five-year-olds. Due to freshen late this March and end of April. First class milkers. Write, and come and see them.

JAS. STOTHART, PETERBORO, ONT.
R. R. No. 4

High Testing Nigger Korndyke De Boer at head of **Lynden Holsteins** Lu Lu Glasser 25.7 lbs. of butter in 7 days testing, 4.78 per cent fat. His Sister, Boutsje, Bosch DeBoer, 23 03 lbs. butter 7 days testing 4.36 per cent fat. Champion 2-year-old living in Canada.

Buy a bull to head your herd, a full brother to the above sire. Also a son of him from a 27.35 lb. dam testing 4.3 per cent fat at 11 years of age. Largest record in Canada for a Cow over 10 years old. Also bull calves. Come and see them. Within 1 mile of station.

S. LEMON, - LYNDEN, ONTARIO

HOLSTEIN LITTLE Purched Registered **HOLSTEIN LITTLE** The Greatest Dairy Breed **FOR SALE** SEE FOR FREE ILLUSTRATED BROCHURES Holstein Friesian Assn., Box 148 Bantelboro Vt.

H. F. BULL
FOR SALE

Grandson of Pontiac Korndyke and Henserved De Kol. Eleven months old. Mostly white, strong, active and well developed. Now fit for service.

A. A. FAREWELL, OSHAWA, ONT.

MISCELLANEOUS

CATTLE TAGS. Sheep and hog tags made on order. Give your name, address and numbers. Save time and trouble; avoid losses by using free circular and sample.

F. G. James, Howmanville, Ont.

MERTON LODGE TANTWORTHS is now offering registered **Tantworths** of the choicest breeding and type. Young ones bred to farrow in April; hams ready for service and young pigs of all ages, either one. Safe delivery guaranteed.

W. W. GEORGE, CRAMPTON, ONT.

There has been no important changes on the Montreal cattle markets. If anything, prices are a little stronger. First class steers were mostly in the absence and the top price realized was \$7 on the final market; lower grades sold down to \$5.50, and a few good bulls changed hands at \$5.25, but most of the trading was done at \$3.50 to \$4.50. Larger receipts of calves have been accompanied by a decline in price, dealers now quoting \$5.50 to \$6. Lambs are quoted \$7 to \$7.25, and the few spring lambs at \$8.

MONTRÉAL HOOG MARKET
Montreal, March 23.—We have had a strong market for live-hogs this week, and prices soared an advance of 30c to 40c a cwt. owing to the small supplies coming forward and a good demand. Sales of selected lots were made at from \$8.40 to \$8.60, weighed off cars. Dressed hogs were also stronger, and 35c higher, with from \$11.25 to \$11.50. Cans of dressed were quoted at 81.50 to 81.60.

MONTRÉAL CHEESE AND BUTTER
Montreal, March 23.—There is nothing new as regards the cheese market in Montreal, as the way accustomed to trade in, stocks having been cleaned up some weeks ago. Cable advices from Great Britain indicate a steadily advancing market, and there is every indication that the opening prices here will be extremely high and dangerous, as, with the rapidly increasing supplies, the declining market from the opening will be inevitable.

The market here is absolutely bare of butter, and as a consequence, prices have jumped to the equivalent of the market in New York and Chicago, and finest fresh-made American butter has been offered on this market at 26 1/2 to 27c a pound, with cold stored 1911 butter at 35c to 36c. There are a few hundred packages of New Zealand on the way, consisting of 20 different houses, but will not be offered on this market, and will probably go into consumption at about 15c to 20c. Further information on the subject will be attempted, but for the fact that it takes from three to four weeks to land them in Montreal, and as a consequence, a serious break might occur in the United States market. In view of this possibility, the dealers here are beginning to be in position to the States, so as to be in position to take advantage of any break in prices that might occur there.

COSSIP

On Thursday, March 28th, 1912, at 10.30 a.m., Queens Hotel, Montreal, directly opposite Bonaventure Station, will be held the annual meeting of the Holstein-Friesian Association of Canada, Quebec Branch. We hope that a large attendance of all those who breed Holsteins, or are interested in them: bring your friends. At 12 a.m. will be held the banquet. Price per plate, 75c.

THE GLENSPRINGS CONSIGNMENT

(Continued from page 33)
May Echo, both on dam and sire's side, Silva Trenton of Glensprings, our officially tested junior 2-year-old, out of a R.O.P. dam, and all the other with official records. And last, Count Gerben, that nobly bred bull, not of kin to any of his companions, and kind and gentle as he always has been.

Many would ask why I should part with the best I have. But I have daughters and sisters of each of these cows in my herd, and if the public will appreciate the value of the offering of this high class stock at auction I shall have no regret in having consigned them to the sale of April 3rd and 4th, 1912, of the Belleville District Holstein Breeders' sale. Belleville.—E. B. Mallory, Frankford, Ont.

N.B.—If possible, we will have a daughter of Lulu Keyes and of Rosa Omega, sired by Count Gerben, for reference in the sale tables during the sale.

A GOOD BULL FOR SALE

The pure bred Holstein bull calf, Coral DeKol's King of the East, offered for sale in this issue by Valentine Bros., is worthy of special notice, because of his breeding appears in the advertisement, but much more can be added to his breeding. His grand sire's side is a bull, who recently made over 4.5 lbs. butter in one day of a two-year-old. He is sired by Julia DeKol's Butter Boy, whose grand dam, on his sire's side, has a R.O.C. record of 19.24 lbs. butter in seven days; 38.4 lbs. milk in seven days; average per cent fat 4, at 3 years of age. He is also closely

connected to that great bull, DeKol's Ruter Boy 3rd, sire of 102 A.R.O. daughters and 51 sons. On his dam's side it may be remembered that his dam has an A.R.O. record of 25.55 lbs. butter in seven days.

He is closely connected to Millas Pieterie, Netherlands, that great transmitting sire. This calf is certainly bred in the purple, and, besides his breeding, he shows every sign of being a very large and well proportioned bull. He is of dairy type, and for a calf of his age shows extra strong constitution, and should make a great show animal as well as a great producing sire. He is very handsomely marked, about two-thirds white. In quality and breeding, write immediately for his extended pedigree to Valentine Bros., Violet, Ont.



BREEDERS!

ONE INCH SPACE
Same size as this will cost you only 98 cents in Farm and Dairy. It costs money to keep your animals healthy. Sell it through advertising.

Send Your Advertisement To-Day
FARM AND DAIRY, PETERBORO, ONT.

HOLSTEINS

Auction Sale Notice
I will sell 28 RECORD OF MERIT COWS; 28 RECORD OF PERFORMANCE COWS; (Some of these have qualified in both tests.) I will also sell about 28 heifers from my old prize winning stock bull, at my Dispersion Sale.

SALE DAY: THURSDAY, MAY 23RD.
Full particulars later. Watch Farm and Dairy for Notes.

MARIE DOWNSVIEW, ONT.

DO YOU WANT THIS? GRAND YOUNG BULL?

'Coral De Kol's King of the East.' This calf is sired by Julia De Kol's Butter Boy, a grandson of De Kol Plus, Canadian champion R.O.C. cow until 1910, and sired by Karel Joseph, whose dam and grand dam have the largest officially authenticated records ever made in Holland. This calf has for its dam Coral De Kol's Pet with a record of 30.78, 7 days, 22.55; milk, 7 days, 449.00; average fat, 4.50. He has also 3 half sisters that average 4 per cent fat. This calf is 3 weeks old, two-thirds white and right to every way. Largest of stock to your nearest station. Write immediately. This calf will only appear twice.

Valentine Bros.

Violet, R. M. D., Ont.

OURVILLA HOLSTEIN HERD

Present Offering—Bull Calves, five months old, and younger, from our great bull, Dutchland Colantha Sir Abbekerk.

EDMUND LAIDLAW & SONS Elgin County, Aylmer West, Ont.



"VANCO" Lime Sulphur Solution

Will keep your fruit trees free of Scale, Parasites and Fungus. It is strong, uniform, clear, efficient—the strongest perfect solution that can be made and far superior in every way to home-made mixtures.

The Canadian Government Bulletin proves this. Specific Gravity on every barrel, to protect you.

"VANCO" Arsenate of Lead

Will destroy all leaf-eating insects—never burns—sticks longer. The largest order ever placed for Spray Chemicals by any Canadian Fruit Growing Company, was for "Vanco" Lead Arsenate.

"Vanco" Fertilizer—Muriate of Potash—Sulphate of Potash—Acid Phosphate—Nitrate of Soda. We are the only house in Canada selling straight fertilizing chemicals of guaranteed quality.

Save Freight—by ordering Sprays and Fertilizers together and having us make one shipment of the lot.

Send for the "Vanco" Book—study and order for full price list.

CHEMICAL LABORATORIES, 148-158 Van Horne St., TORONTO. 44

Don't Cut Out A SHOE BOIL, CAPPEL OR SOCK OF MERITIS FOR ABSORBINE

Will remove them and leave no counting. Cures any kind of swelling. Does not blister or scorch. Guaranteed to make you work. 50c per bottle delivered. Stock at free.

ABSORBINE J.C. Hulme for Blisters, Gout, Rheumatism, Sprains, Bruises, Burns, Scalds, Itch, Swellings, Gout, Varicose Veins, etc. Manufactured only by F. V. Young, P.O. Box 125, Lyons Bldg., Montreal, C.

HOLSTEINS

FAIRVIEW FARM HERD

Too much money is spent every year for poor bulls. Why not buy a good one? Sons of Pontiac Korndyke, Rag Apple Korndyke, and Sir Johanna Colantha Gladi for sale; 150 head in herd. Come and see them or write.

E. H. DOLLAR, Heuvelton, N.Y.

FOR SALE

Holstein Bull Sir Boute De Kol, No. 809, 3 years old; sire, Bouteje Pieterie, O.A.C.; dam, Rosa De Kol. For further particulars write **JNO. GRAHAM, BRONTO, ONT.**

BULL CALF from dam closely related to May Echo, Molstein Champion Cow of Canada, and from Hillcrest Butterboy. Will exchange or sell for 2 years and 13 days of 14.98 lbs. butter in 7 days. Also two-year-old stock to your nearest station. Write immediately. This calf will only appear twice.

S. ARMSTRONG, JERNY P. O., Peterborough Co., Ont.

FOR HOLSTEIN BULL CALVES

Bull calf, born Feb. 2, whose four near-dams average 27 lbs. of butter in 7 days. Another born May 15; dam first calving in Canada at 3 years and 13 days of butter in 7 days. Bull calf born Jan. 10; dam, daughter of dam of number 1 calf with official record at 3 years and 13 days of 14.98 lbs. butter in 7 days. Also two-year-old stock to your nearest station. Write immediately. This calf will only appear twice.

DAVID CAUGHELL, Yarmouth Centre, Ont.

AUCTION SALE

The Lakeside Stock Farm will offer for sale at their barns near Bronte, Ont., on Monday, March 25th, 1912, Pure Bred Holstein-Friesian Cattle and Registered Guineasdale Mares. Col. D. L. Perry of Columbus, Ohio, will conduct the sale, which will be held under cover, rain or shine. Send in your name for catalogue and arrange to attend this sale.

E. F. OSIER, BRONTO, ONT.

OUR FARMERS' CLUB

Correspondence Invited

PRINCE EDWARD ISLAND.
KING'S CO., P. E. I.

LOWER MONTAGUE. March 12.—Winter is holding out well, with plenty of snow. On the 15th of this month we had one of the worst storms of the season, but not much cold. Roads are badly blocked. Stock are doing fairly well with those that are feeding. Feed is very dear. Hay, \$15; straw, \$9; bran, \$1.50 a cwt.; oats, 68c; to 76c a bus.; oil cake, \$3 a cwt.—G.A.A.

QUEBEC.

RICHMOND CO., QUE.

DANVILLE. March 15.—Within the last two weeks we have had heavy snowfalls, but not very cold. There is no sign of opening, although the crows are here and some of the spring birds. Feed is high. Potatoes are selling for 30c a bush; eggs, 30c; beef is high and scarce; pork has dropped a trifle. There seems to be no slackening in the hauling of logs. There is one firm in Danville who received over 1,000 logs in one day.—M.D.B.

SHERBROOKE CO., QUE.

LENNOXVILLE. March 14.—The winter in the eastern townships has been severely cold, but not very stormy. Stock

has wintered well. Feed of all kinds is high. Hay, \$10 to \$11; bran, 82c; shorts, 83c; potatoes, \$1 to \$1.25 a bus.; butter, 30c to 32c; eggs, 28c—H. M.

ONTARIO.

CARLETON CO., ONT.

BRITANNIA BAY. Mar. 12.—A scarcity of cars has resulted in a great amount of hay not being shipped. Hay has dropped in price to 10c to 12c. Potatoes are more plentiful, selling at \$1.65 a bag; butter, 32c to 35c; eggs, 28c to 30c; oats, 25c; bran, 42c—J. A. D.

HALIBURTON, ONT.

KINMOUNT. Mar. 15.—A number of sales have been held. Stock sold well;

cows, \$35 to \$40; horses, \$150 to \$250. One team brought \$500. Two carloads of horses left for the West. Also one of cows and horses and several intending settlers taking full care of mixed stock. Hay is coming in again abundantly at \$12. The sap has started to run. Sugar making will be commenced in another week—J. A. D.

NIPISSING, ONT.

COCHRANE, ONT. Mar. 12.—Settlers are located all over the promise of Government roads being started during the summer. This will give us the much needed encouragement by affording easy access to horse trails. First goods were born in the district on February 20th. Butter and eggs are scarce. Weather is getting mild with an abundance of sunshine.—E. E. S.

WATERLOO CO., ONT.

ELMIRA. Mar. 15.—King winter seems to predominate up to date as we had the worst snow storm yesterday of the season, fully 12 inches of snow fell and sleighing is excellent. Sugar-making will be the order of the day as soon as warm weather sets in. Some farmers are drawing out manure, but most of it is frozen too hard in the yard to move, while the snow is almost too deep in the field at present. Feed is getting scarce. Seed grain is a scarce article; oats, 75c to \$1 a bush; barley, \$1; peas, \$1.10 to \$1.20; potatoes, \$1.50 to \$2 a bag. These prices make seed high for those that have to buy as some grain was scorched beyond being fit for seed with the intense heat last summer. Turkeys are a bonanza price at \$6 a bush; chickens are scarce at \$17 to \$18; butter, 32c; eggs, 28c.—A. B.

ELGIN CO., ONT.

ST. THOMAS. March 21.—A new organization, to be known as the Elgin County Grange, was formed here on March 12th, when delegates were present from all the Townships in the county. The following of delegates were elected: Master, W. Pranglin, Albion; sec-treas, Mas H. H. Robinson, St. Thomas; Overseer, Deputy Recer, Yarmouth; Lecturers, County Magistrate Hunt (St. Thomas) and F. Barnard (Frome); Gatekeeper, Gordon Tufford, Middlemarch; Cereus, Mr. Fritchie, Middlemarch; Pomona, Miss McName, St. Thomas; Flora, Miss Laur, Aylmer; Lady Assistant, Miss Clara, Fritchie; Middlemarch. An address was given by Mr. M. Clement, agricultural representative in Elgin county.

GOSSIP.

Will the Holstein breeder, living at Chateaufort, Ont., who forwarded to Farm and Dairy under date of February 27, two photos, and made enquiry about them, kindly let us have his name? He forgot to sign his letter.

TROU RUN-STOCK FARM AYRSHIRES
Mr. Wm. Thorn, of Lynedoch, Ont., is desirous of reducing his herd considerably, and is offering some very choice Ayrshires for sale. All of his yearling bulls are sold, but still has choice bull calves, one a November calf, the other a December, from dam giving as high as 56 lbs. per day on dry feed, and testing 4.3 per cent butter fat.

Tom cows and heifers are also being offered by Mr. Thorn. Some of these are milking and others are to freshen in March and April. All of these cattle are good testers and high producers, and any Farm and Dairy reader wanting something choice in Ayrshires should write Mr. Thorn at once for prices. He is making special inducements, considering the quality of his stock, for you to ship for during March.

**DECORATION DAY
MAY 30, 1912**

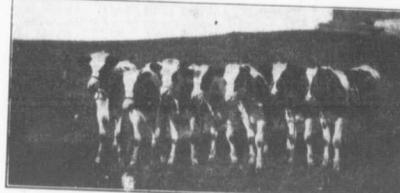
This is not a Consignment Sale but every animal is owned by me

Hill-Crest Holsteins -- G. A. Brethen, Norwood, Ont.

"We Are Seven"
1910
Hill-Crest Heifer Calves

"4 of us are Milkers"
1 year 10 months old

Averaging over 50 pounds milk in one day and 14 pounds butter in seven days.



THE KIND WE BREED, DEVELOP AND SELL.

Heifers from this string and some older, all in the STRAIGHT, GOOD-UDERED producing stamp (type), will comply

Our Consignment TO THE GREAT Belleville Sale April 3 and 4

PONTIAC HERMES (The Heifer Breeder)

The Progressive Breeder who is looking for the most economical method of doubling value of his herd we would say:

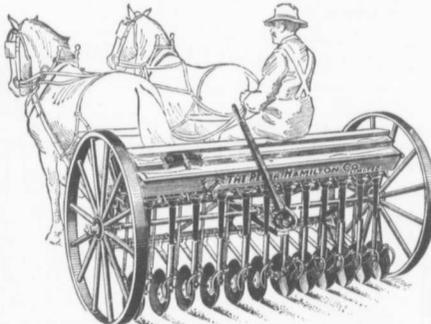
He is a sure, prompt server, very gentle and the most tractable bull I ever saw. Most of his calves are heifers, yearlings milking over 12,000 lbs. a yr., and the only one to be tested as fast as they freshen. He already has several 2-15.6 lbs. butter and milked over 60 lbs. per day. He is the only Canadian bull that has been tested for 7 days made cut sire of Producing Daughters that ever lived. He has 15 A.R.O. sisters, 6 over 30 and 10 over 20 lbs. butter in 7 days. He has 25 lb. full sister and dam with 3 A.R.O. daughters. Remember—"The Only Two Cows in the world that have produced over 37 lbs. butter each in 7 days are "Gr" daughters of, Hengerveld De Kol."

BUY PONTIAC HE WILL FILL YOUR BARN WITH "GR DAUGHTERS OF HENGERVELD DE KOL."

the bull we have been using for past 3 years, will be included. Owing to large number of his heifers in our herd of breeding are we reluctantly forced to "pass him on."

Buy a Good Bull! Buy Pontiac!

The "Leader" Seeder



THE LEADER SEEDER

An examination of the "Leader" Seeder will show that it is no common Drill. A trial in your field will prove it. A "Leader" always does the best possible work under the most difficult conditions, makes a perfect seed bed, and deposits the seed evenly at a uniform depth. The frame is strong and reinforced to prevent the slightest springing or racking. The wheels are large and have long strong bearing hubs. The DISCS or HOES cannot clog. The gear is positive. The feed is absolute and exact. Be sure and see our agent before you buy.

The Peter Hamilton Co. LIMITED
Peterborough, Ont.

RUSSELL'S SECOND ANNUAL SALE MAY 30, 1912

Every Animal is Guaranteed Without a Blemish

100 Head of Officially Tested Cows or daughters of officially tested cows will be sold. No Males.

If you do not find something in the sale, you will have another hundred or more to choose from. Every animal on the farm for sale.

T. H. Russell, Geneva, Ohio, U. S. A.

FORESTER'S
Good satisfactory at the Holstein sale, held at Gormah. Some of the best of the variety well. The given for Osh M. Frank Boyle, Belle Abberkerk D. well, Bonhead, Belle, of Lansing, for Susan A. Campie, Unionville, to Lou Summerfield, Ferris, Hengerveld



Gran The mature cowe Anderson, Rosmore. They are splendid looking from left to right of 15.85 and 12.36 lbs. bred by Yelstra, Tru months and 14.95 lbs. February this year, 1



Sam All of the two recorded by Record of M. Hengerveld of De have in every case 9 All of these are cons



Heifers Such A feature of the sale Consignment of the five to the left may bred and well fed. Th month under two year one year and nine mo to freshen shortly aft

FORESTER'S HOLSTEIN SALE.

Good satisfactory prices were realized at the Holstein sale of Mr. Geo. Forester, held at Gormley station on March 26th. Some of the females sold particularly well. The premium prize was given for Orah Mercedes De Kol, \$215, to Frank Boyle, Richmond Hill. O. D. Sale, of Lansing, paid \$198 for Inka Belle Abberker De Kol, and J. A. Kerevell, Bondhead, \$186 for W. Myrtle De Kol. Other good prices realized were \$186 for Susan Ann's Plum, to J. W. Campbell, Unionville; \$180 for Susan Ann, to Lou Summerfelt, Unionville; \$175 for Loris Hengerveld De Kol to Frank

Boyle, Richmond Hill. Numerous other animals sold over the \$100 mark. Bull calves ranged in price from \$55 to \$60. Other buyers present were: John Nigh, Elmira; F. W. Tamblyn, Orono; Job Ground, Victoria Square; E. B. Cusator, Woodbridge; John Brethour, Plumville; J. S. Goodall, Plumville; J. A. McNaughton, Maple; Barney Grady, Oak Ridge; A. Herriek, Ringwood; C. B. James, Langstaff; R. Ganning, Hagerman; J. R. Campbell, Stouffville; John Mckenzie, Willowdale; C. R. Dylek, Geo. Whitmore, Edgley; M. Gouthrie, Vander; J. Lau gon, Maple, and Henry Burnett and D. W. Cluhine, of Elgin Mills.

GREATEST VIEW HOLSTEINS

Editor, Farm and Dairy.—I have at the head of my herd Dora De Kol Pterier's Count, No. 512, half-brother to May Echo, the champion R. O. P. cow of Canada, with nearly 24,000 lbs. milk and 1,100 lbs. butter in one year. This bull has never been beaten in the show ring. In 1910 he won first at Belleville and Pictou in hot competition also. He is a grand sire of anise in 1911. My former herd bull was Karel Joseph, No. 7160. He was a son of Karel Bee whose dam and grand-dam have the largest officially authenticated records ever made in Holland. Dam of Karel Joseph was Josephine Mechthild De Kol, 12,244 lbs. butter, 333 lbs. milk in 77 days, A.R.O., as a 3-year-old. She is a daughter of De Kol 2nd Butter Boy 3rd, 18 A.R.O. daughters and 61 sons, undoubtedly one of the best bulls in the milky way.

I have several daughters of Karel Joseph, five of which I have consigned to the Belleville breeders sale. These heifers have never been tested, but show great vim and udder development. Among the bunch I have consigned is Pontiac View, a fine straight young cow, being a grand-daughter of Hengerveld De Kol, 115 A.R.O. daughters and 22 proven sons, and many other ones equally as good.

There will also be offered three yearling bulls sired by Karel Joseph, their dams milking up to 68 lbs. milk in one day at three years old on ordinary care. These bulls are good individuals, perfect marking, and with the breeding back of them they cannot help but make excellent stock. In the yearling bulls, which are advertised in Farm and Dairy are sired by the same bull, and out of Della Bella De Kol, a daughter of Judge Hengerveld De Kol and Pontiac View, a grand-daughter of Hengerveld De Kol, which I have already mentioned. Parties wishing to inspect the herd will be met at Napanee by sending notification—Archibald Parks, Napanee, Ont.

GEO. W. ANDERSON'S CONSIGNMENT

(Continued from last week.)

Edler Triumph, a four-year-old, sired by Veltra Triumph, is in the R.O.M. She is a magnificent cow and a magnificent producer. She will be tested again before the sale. This heifer has but to be seen to be appreciated. She has one daughter already in R. O. M.

In the five-year-old class is another daughter of Veltra Triumph, who produced at three years, 14,56 lbs. butter in seven days. She is due to freshen one month after sale to Franci Bonerge Korndyke, a son of the 1911 four-year-old Canadian champion.

There are two six-year-olds, both daughters of Keyes Count De Kol. Keyes of Gold has a record of 16,90 lbs. butter in seven days. She is of the distinct ovary type, a very persistent milker, and has two daughters in R. O. M., one of which at two years made 13 lbs. butter in seven days, and the other 14.15 at one year eleven months. Mollie Keyes Countess in a recent test produced 18.36 lbs. butter in seven days. Another mature cow, Kittie Edr Clothilde Beets Rex (imp.), in February of this year, produced 17.95 lbs. butter in 7 days, and has one R. O. M. daughter.

The six bulls are all from R.O.M. dams. Two of the bulls are ready for service, and four from two months to six months old, each comprising some of the blood of the great producing strains of Veltra Triumph. Combined with this we have in one the descendant of King Segia, who has 65 A.R.O. daughters and 15 proven sons, in two others, the Count Echo De Kol strain, and she sired the world's champion in R. O. P., nearly 24,000 lbs. milk in one year; in two others, the descendants of Pontiac Korndyke, who is sire of the world's champion in A.R.O., the export's champion, and seven daughters whose records average 23 lbs. butter in seven days. These bulls are a choice lot, and you can make no mistake in selecting one of these.

ITEMS OF INTEREST

Dr. Hollingsworth, city food and dairy inspector, has completed a record of the 18 dairy farms supplying milk to dealers in the city of Ottawa. Practically every farm on the list shows up well, none falling below 950 per cent in their score. The list is topped by Mr. T. J. Graham, Lakeview Farm, Britannia-on-the-Bay, with the high score of 98 1/2 per cent. The score is for methods, milk, cleanliness, etc. Mr. Graham's farm was a leading prize-winner in the Interprovincial Dairy Farms Competition conducted by Farm and Dairy last year.



Grand Cows that will be Sold at the Belleville Sale

The mature cows here illustrated will be a part of the consignment of Geo. W. Anderson, Rosemore, Ont., to the Belleville Holstein Breeders Sale on April 3rd. They are splendid individually and big producers as their records testify. Numbering from left to right, 1 and 4 are daughters of Keyes Count De Kol, and have records of 16.80 and 18.36 lbs. butter in seven days. Nos. 2 and 3 are not yet fresh, are both months and 14.95 lbs. butter at three years. No. 5, an imported cow, produced in February this year, 17.85 lbs. butter in seven days.



Some of Mr. Anderson's Typy Two-Year-Olds

All of the two-year-old heifers here illustrated are in Record of Merit and are sired by Record of Merit Bull. The three on the right are by a son of Pterier's Hengerveld Count De Kol. The other two are by Veltra Triumph, whose daughters have every case produced more lbs. butter than the dams over the average. All of these are consigned by Mr. Geo. W. Anderson to the Belleville sale.



Heifers Such as would be a Credit to any Breeder of Holsteins

A feature of the offering of Mr. Geo. W. Anderson, Rosemore, Ont., to the Belleville Consignment Sale is the splendid array of two-year-old heifers here illustrated. The five to the left may be seen in the cut above. These heifers are smooth, well mouth under two years old. Those to the left are fresh and in R.O.M. at ages of one year and nine months to one year and 11 months. Those on the right are due to freshen shortly after the sale on April 3.

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