

VOL. XXX.

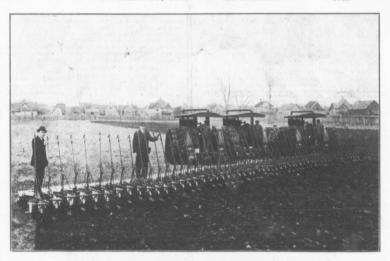
NUMBER 50

RURALHOME

PETERBORO, ONT.

DECEMBER 14

1911.



AN ACRICULTURAL WONDER-ONE OF THE WONDERS OF THE ACE.

It seems almost unbelievable that it is possible to manufacture a plow, or series of plows, that will cut a silce 64 feet 2 inches in width. Yet such a plow is now an accomplished fact. The il lustration above shows this plow as it was at work in South Bend, Ind., a few weeks ago. It is by far the largest plow ever built, it having 55 individual plows, each cutting 14 inches. It is a sectional plow and will adapt itself to any inequalities in the land, such as hills and hollows. Three gasoline tractors are used to haul the plow. This plow is now being made in Hamilton, Ont., for the western trade, at the new Oliver Plow Works—one of the largest and most modern tactories in Canada.

DEVOTED TO

BETTER FARMING AND

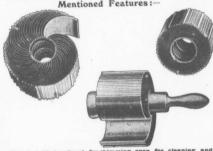
GANADIAN GOUNTRY LIFE

Two Leading Features

"SIMPLEX" CREAM SEPARATORS

1. The Link-Blade Skimming Device 2. The Self-Balancing Bowl

Note the Principal Advantages of the Above-Mentioned Features :-



The Link-Blades closed for skimming, open for cleaning and held by standard for convenience in cleaning.

1. Increased capacity of from 30 to 50 per cent. over the most efficient of previous devices, combined with very clean skimming under a wide range of conditions as to milk, tem-

2. Great convenience in cleaning and handling, because the blades do not come apart, and do not have to be reassembled in any particular order.

3. The device being expansible, and fitting the bowl snugly, it can never become loose, or shift in the bowl, and throw the same out of balance.

4. The pressure being transmitted through a series of bress rivets, there is no strain on the blades themselves, and there is no rusting formed by the points of contact of the rivets.

The device, being much more efficient, is a great deal lighter and smaller in order to do the same amount of work, making it still easier to handle, and requires less power to run than other devices of same capacity.

D. Derbyshire & Company

Head Office and Works: BROCKVILLE, ONT. MONTREAL and QUEBEC, P. Q Branches: PETERBOROUGH, ONT. WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

SPECIAL MAGAZINE NUMBER WILL BE **OUR FOURTH ANNUAL**

Our Mistakes In Breeding B. H. Landels, B. S. A., N. S. Agr. College

One of the most common and most One of the most common and most cohrous mistakes in breeding that we are making in Nova Scotia is the use of the "scrub" sire. because he is a good individual, and the other extreme, that of the weakling pure bred because of his pedigree. These mistreme, that of the weaking pure bred because of his pedigree. These mis-takes are in the same class; the one as short-sighted as the other. Our government could well afford to con-sider this matter with intent to pro-hibit even the keeping of such ani-mals, because if kept they will be used. France has demonstrated the nossibilities of governmental control possibilities of governmental control of breeding sires.

The next mistake is in the choice

of breeds for a given purpose. differences in breeds adapt them different conditions and purposes. Podifferent conditions and purposes. Poland-China hogs do not produce the highest class bacon, neither do Holstein cattle utilize rough pasture lands to as good advantage as Ayr-chires. Our province, small as it is, has within it many differing conditions. Yet our farmers continually the property of the product of the make the mistake of choosing their breed without considering conditions at all. The general result is expensive production, often of poor quality, and degenerating stock. Or the breeder, realizing his mistake, switches over to another breed, at great waste of time and expense and often, worse still, uses his ill-adapted stock as a basis for future breeding, in order to save present expense, thus making his climb still hardret.

CONSISTENCY LACKING

Another error we make, so broad in its scope that it includes practically everything left, is lack of consistency

its scope that it includes practically in breeding.

First, consistency in type. Possibly no two breeders quite agree on types, or a breeder may not have a single type firmly fixed in his mind and so constantly changes his ideal insidious. and single type firmly fixed in his mind and so constantly changes his ideal insidious, and the standard of the standard fixed once fixed. An inacteristic in marked degree, is aelected and used. The next sire to used may be, perhaps, coutally desirable, but from the standpoint of a different characteristic altogether, the special feature of the first being rather weak in the second, the breeder losing sight of the fact that gain in one respect is offset by loss in another.

Great I prostably at the supparently fol-

Great Lreeders have apparently followed this method at times, but careful study and keen insight into the art and science of breeding are neces-sary if any measure of success is to be sary if any measure of success is to be secured except by a rare, lucky accident. Success in breeding for better stock can only be assured by guarding carefully against the loss in any degree of a single desirable characteristic, even if other desirable features are added more slowly.

STAY WITH ONE BREED

Secondly, consistency in the breed. Having desirable type in mind and breed chosen, "stay with it." Failure here is all too common, especially among agricultural societies where vices first of one breed them. here is all too common, especially among agricultural societies where sires, first of one breed then of another, are purchased in order desires, the demands of the sorten members. Thus the interminable round goes on, any progress that is made with one sire being promptly lost with the rest.

Over off per cent. of our people are actually engaged in keeping poultry.

Plan your campaign to include our Fourth Annual Poultry Number and other Special Magazines for 1912—see list on page 20 this week

Adv. Dept., FARM AND DAIRY, Peterboro, Ont.

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

with the rest.

Thirdly—consistency in progress takes of all, especially when gradings to follow them gradings to follow the use of a good airc with the use of one of somewhat in reverse the order if the inferior animality. Better by far to reverse the order if the inferior animality is to be used at all. Then, if his use has raised the quality of the office of the paging above that of their dams, the better sire will have that much higher than the publication when writing to advertisers.

other always constitutes a step in the wrong direction

wrong direction.

These are a few of the outstanding mistakes we have made and are still making in our province. Our mistakes cannot be considered peculiar to ourselves. They are not unique in takes cannot be considered peculiar to ourselves. They are not unique in any way. They are made in cerry province of Canada. Could they be corrected, the attention of the agricultural world would soon be drawn toward the live stock of the "Blue-wowl province". nose" province.

Comments on the Draft Horses Geo. P. Grout, Minnesota

The breeding of draft horses has come to be a very profitable adjunct to diversified farming, and at no time diversified farming, and at no time past 10 or 30 years has the price been higher for good draft and heavy farm horses. While the automobile may, to a certain extent, have displaced the horse for city delivery, still the bulk of the farm work is done with horses; and prices for good stock are as high or higher than ever. There is not the demand for medium-cualire is not the demand for medium-cualire. The breeding of draft horses has is not the demand for medium-qualit is not the demand for measured and light weight horses that there used to be, but good, smooth draft and heavy farm horses are bringing good prices. There is little reason why the farmer should not continue to raise horses of this kind, since brood-mare--and stallions, too, for that matterwill produce stronger and better twis for having been kept steadily at work on the farm.

on the farm.

On the home farm we have raised some of the cleanest, best colts, and the marks right along. The worked the mares right along. The are certain conditions under which does not seem practical to put the breeding stock into harness, but of many farms these conditions are not met. Where a farmer must rely almost wholly on hired help to drive his teams, it may not be practicable to put pure-bred stock into harness If the farm boy shows an interest. If the farm boy shows an interest in horses, raise some good drafters. Pe a good harness on them, and tell the boy this is his team to work, as there will be no question about the care they will get. You will find the boy after a day's work, out currying off the horses, making sure the are comfortable. I speak from experience and know that when the horses are offered for sale they subring a good price.

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Horse Wisdom

Don't let the horse stand unblanked ed while you gossip with your neigh bor. Throw the rug over him as then he will enjoy the conversation a much as you do.

There is lots of wisdom in that p of the horse. "Un the hill drive not. down the hill force me not. the level spare me not." It takes: the level spare me not." It takes much energy to carry a load uphill a trot. Forcing a horse down a at a break-neck speed accounts defective knees, bad gait and a neck in many horses

Where several colts are winter it is well to separate them into groaccording to size, otherwise the olones will get all the good things the are going.

Items of Interest

The Nova Scotia Agricultural (The Nova Scotia Agricultura belge has a bull calf that establishes world's record for weight. This of weighed when born 1451-4 lbs. dt. The dam of the calf. "College Flora weighed at birth 136 lbs.

weighed at birth 186 lbs.
All live stock farmers should seed
a copy of a bulletin recently iss
by the Live Stock Commissioner
Ottawa on tuberculosis. This build
gives a plain concise description of
disease itself, how it spreads
actile and methods of a contractile and contracti

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Vol. XXX.



FOR WEEK ENDING DECEMBER 14, 1911

No. 50

Only \$1.00

WHAT IS THE JUST METHOD OF PAYING FOR MILK AT CHEESE FACTORIES? * Professor H. H. Dean, O.A.C., Guelph, Ont.

Both Fat and Casein in Milk Should be Considered in Testing as both Enter into the Composition of Cheese The Fat Plus Two Standard is Approximately Correct as Determined by Recent Experimental Work.

HE money received by the farmer, who furnishes milk to a cheese factory, is hardearned money. It represents the interest on capital invested in farm land, live stock, buildings, fences, feed, etc., and pay for the labor spent upon the cow, feeding, milking and caring for her. Money earned, is money appreciated at its worth, and no class of men ought to, and do, appreciate the value of money like the farmers, who are the most poorly paid of any class in Canada, considering capital invested and labor spent upon the production and marketing of their produce. It is not my intention to argue this point at present, but shall proceed at once to discuss the subject under consideration.

"Nothing is settled, until it is settled right." The basis of settlement among patrons of

cheese factories, after paying for the cost of manufacturing, selling and other legitimate expenses, must include the following points: 1. It must be fair and just to all concerned, 2. It should be inexpensive. 3. It must be applicable to factory conditions and suit the needs of the people. 4. It must be supported by a majority of the patrons.

The "average" man moves along the line of least resistance, or moves not at all. Inertia is a common characteristic of all kinds of matter both living and dead, hence any system to be popular, which will appeal to the "man on the street," or to the man plowing his lonely furrow on the farm, must take into account, this common property of humanity, inertia or inactivity, the "let well enough alone policy," which is nearly always popular. The man who asks for the hard and difficult things of life is rare. Most commonly he says, "Show me the old paths."

It is because of the foregoing reasons that in the cheese factor-

ies of Canada we have had for so many years, and continue to have, the system of dividing money among patrons known as the "pooling

A paper read last week at the Conference of Dairy E. perts from all parts of Canada. held under the direction of the Dominion Department of Agriculture. The Dominion Department of Agriculture. The Conference of the Conference of

plan," or dividing according to the weight of milk delivered. The basis or principle of this system is that all milk is of equal value per 100 lbs., for the purpose of making cheese. It assumes that all milks are of similar composition as it is drawn from the cow, and that all those handling the milk are strictly honest, and will neither add to, nor take from, the milk anything whatsoever, except heat.

The arguments commonly advanced in favor of this plan are, it is easy to apply, it is cheap, and it is "good enough for us." It is popular because it is easy and cheap. Against this system it may be urged that it is not fair and just, because milk varies a great deal in its cheese making capacity. For instance, milk testing three per cent. fat requires over 11 lbs, of milk to make

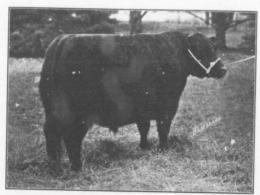
was accorded an enthusiastic reception by most scientific dairymen, and with a fair measure of approval by farmers and cheese makers.

The arguments advanced in favor of this system were: The fat is the most valuable part of milk; the yield of cheese is in fair accord with the fat content of the milk; the testing of milk for fat can be applied to factory conditions, especially with the advent of the composite method of sampling, and the introduction of large steam turbine machines.

Against the "fat" plan it has been urged that the Babcock tester is not accurate; that the cheese maker who does the testing may have favorites among the patrons and manipulate the test in their favor, or against those whom he does not like; that it costs too much to test the milk, and that the fat is not an exact measure of the relative cheese value of milk.

IT DOESN'T STAND THE TEST

In connection with the last objection, we may be allowed to quote briefly the results of some experiments conducted at the O. A. College:



A Sensational Winner That Sold at a Record Price

"Victor," the grade Angus steer, grand champion at the recent International Live Stock Show, Chicago, is here shown. This animal affords one of the best studies in beet type that can be obtained. Note the wonderful depth, the smoothness and the low esteness of this animal. He sold at auction for 90 cents a lb. live weight after winning this premier laurels.

one pound of cheese, whereas, milk testing four per cent. fat will require, on an average, about nine and a half pounds of milk to make a pound of cheese. Also this plan is a temptation to the "weak brother" to add water or skim-milk, or remove the cream for the coffee's sake,

THE "FAT SYSTEM" INTRODUCED

The second system, introduced about 1890, at the advent of the Babcock test for milk-fat, is known as "payment by test," "the relative value plan," "the fat system," and by other names. The basis or principle of this test is that all normal milk for cheese making is valuable, in proportion to the milk fat which it contains. This plan

Milk Testing	Produced lbs. 100 lbs. Milk	Cheese per
3 % Fat 3.5 " 4 " 4.5 " 5 "	8,89 9,54 10,36 11,08 11,77	in Milk 2.92 2.70 2.57 2.47 2.36

The results indicate an increased yield of cheese per 100 lbs milk, but a decrease in the yield of cheese per pound of fat in the milk, as the percentage of fat in the milk increased. Or, stated another way, as the percentage of fat in the milk decreased from five to three there was an increase in the yield of cheese per pound of fat in the milk, but a decrease in the pounds of cheese made per 100 lbs. of milk.

This would lead us to conclude that some other factor or factors than milk-fat, determine the yield of cheese in milk. What these facts are, it may not be possible to determine in their entirety, but there is at least one other factor which we know has a marked effect upon cheese and cheese yield, namely, the casein of milk. Without casein it is impossible to make cheese. It is, too, the constituent

which makes cheese so valuable as a food, as it is the nitrogenous or muscle forming part of milk and cheese, which is the most valuable and most expensive part of a food to produce.

Milk-fat is produced from elements which come from air and water and cost the farmer practically nothing in the form of soil fertility, whereas the nitrogen of the casein, and the ash constituents of the milk, which also enter into the composition of cheese, are the most expensive to produce on the farm, and are the most valuable to the consumer. It would seem that this valuable and expensive food compound in milk and cheese

(Continued on page 6)

IT IS NO WONDER THAT BOYS LEAVE THE FARM

AST week, in the discussion of this subject, the statement was made that the real reason why boys leave the farm is because farming on the average, does not offer as great opportunities as may be obtained in other lines of endeavor. This week we will go one step further and state that farming does not on the average yield the returns that it should. This is proven by the fact that were farmers on the average making more money than prople in other lines of work there would immediately be a rush from the cities to the farms.

Note that we say "farming on the average." We are perfectly well aware that some farmers are making money. This, for many people, beclouds the whole issue. Because some farmers make money they conclude that all farmers might if they tried. They then proceed to berate the farmer for his lack of thrift, his lack of intelligence, his neglect to adopt modern, scientific methods of farm management, and for numerous other sins of omission and commission. In this campaign leading government officials have played a prominent part. The daily papers, taking their cue from them, have followed in their train: Periodically they devote columns of space to showing what fools the farmers are. Generally they conclude by adopting a patronizing attitude and asserting that the poor farmer needs to be helped by giving him more money to spend on his country roads, on his rural schools and in educating him generally. Our country boys read and hear these things. Naturally, if they have any manhood in them, they resent them, and only too often they eventually reach the conclusion that they will abandon a calling that is looked down upon, pitied and patronized by large and influential classes of citizens.

The people who criticize and patronize the farmer do not realize the fact that almost without exthe farmers who are making money are located on naturally productive land that is favorably situated as regards convenience to markets. A far larger proportion of our farmers are working land that for the most part is only fairly good. These men, and their wives as well, when they make ends meet, do so only by exercising the utmost frugality. This necessitates their forfeiting many comforts and involves constant, exacting physical labor that places a steady strain on mind and body. Many farmers in spite of their best endeavors, fail to make ends meet and steadily go behind. Many ultimately give up the unequal struggle. These either move into new districts, such as the west, or flock into the cities, seeking such work as they can find.

The foregoing facts are patent to all who care to investigate them. Ex-President Roosevelt realized something of the critical position of scores of thousands of the farmers of the United States when a few years ago he appointed a commission on country life. This commission was instructed to investigate these conditions. In his letter transmitting the report of this commission to the Senate and House of Representatives of the United States, President Roosevelt, under date of February 9, 1909, said in part: "Farming does not yield either the profit or the satisfaction that it ought to "yield and may be made to yield."

The members of the Country Life Commission, after investigating conditions thoroughly, made this statement in their report: "Agriculture is not commercially as profitable as it is entitled to be "for the labor and energy that the farmer expends and the risks that he assumes, and that the "social conditions in the open country are far short of their possibilities."

Further on in the report this statement is made: "The farming interest is not as a whole, re-"celving the full rewards to which it is entitled, nor has country life attained to anywhere near its "possibilities of attractiveness and comfort. * * No growth of cities, no growth of wealth, can "make up for loss in either the number or the character of the farming population. * * The drift to "poverty and degradation is pronounced in many parts of the country. In every region a certain "class of the population is forced to the poor lands, becoming a handicap to the community and con-"stituting a very difficult social problem."

The commission recommended that "the entire range of economic questions involved in the relation of the farmer to the accustomed methods of doing business," should be investigated by the government. Unfortunately, President Roosevelt passed out of office and this investigation has never been undertaken. It is in the interests of certain classes of the community that it never should

Why is it then that when the prices of farm products are so high farming is not more profitable? It is because we no sooner make our money than it is filched from us in ways that most of us do not understand. Railways and express companies that are greatly over capitalized and under taxed charge us excessive prices for the transportation of most things that we buy and sell. Our natural resources, such as our timber lands, coal and iron mines and water powers, have been seized by private parties who exploit them for their benefit and to our loss. Combines that have been formed behind our tariff walls have put up the prices of almost everything we buy, and thus we are bled while buying the things that we need and must have. We, by our productive labor, build up towns and cities and thus create millions and millions of dollars of wealth in land values that we do not see and which—as explained in our last two issues—is taken by other people, who thus reap what they do not sow.

For much of this we are to blame ourselves. We have allowed the interests that are in control of our political parties to divide us on party lines. Thus we never have the privilege of discussing these things among ourselves, and where we will be free from political influence. Fortunately, this is no longer the position of the farners in Western Canada. There they have organized, and are thinking and acting for themselves. The sooner the farmers in Ontario and the east follow the example that they have been set by the farmers of the west the sooner will the farmers of Canada, as a whole, come into their own,

Pointers on Brood Sows

D. A. Gaumnitz, University of Minnesota For 24 or 36 hours after farrowing, the sow need be fed nothing save some warm water, to which a small quantity of shorts has been added. will have a tendency to hold back the milk flow, relieve the congested condition of the udder, and check the frequent tendency to fever. After 36 hours, the feed may be gradually increased to about one pound of the grain feeds mentioned, a cwt. a day. A plan that has worked well has been to feed the sow as follows:

For the first two weeks after feeding is begun, feed from one to one and a quarter lbs. of feed a cwt. of sow daily. Two weeks after farrowing, and until the pigs are weaned, allow the sow for maintenance about one pound of feed a cwt. of sow a day. For each pig during the third week, feed .3 lbs. additional; for the fourth week, .6; for the fifth week, .8; for the sixth week, one

Two Generous Donations

The committee of management in charge of the interprovincial prize dairy farms competition being held this year in Ontario and western Quebec, and which will be continued next year, desire to acknowledge their thanks for the receipt of two letters, one from Mr. E. G. Henderson, of the Canadian Salt Co., Windsor, Ont., and the other from Mr. H. C. Sparling, the managing director of the Empire Cream Separator Company, of Canada, Limited, whose head office is in Toronto, donating \$200 each to the funds of the competition. Both Mr. Henderson and the Empire Cream Separator Co. made similar contributions to the prize farms contest held throughout Ontario during 1909 and 1910. Both are firm believers in the good accomplished by such

In the letter received from Mr. Sparling appeared the following comment upon the competitions: "We believe that the usefulness of this kind of competition is so great that it should be kept up for years to come. They cannot help but raise the standard of dairy farms in this country. The reports of the judges and the descriptions of the prize-winning farms, in the last two competitions, that have appeared in Farm and Dairy, giving details about their management have been, we believe, of very great instructional value to Ontario farmers. In order to indicate our interest in the dairy farms of the province and to do what we can towards raising their standard, we take pleasure in making this contribution."

pound; and for the seventh and remaining weeks, from one to 1.15 lbs. In addition to this feed. give the sow plenty of pasture and exercise. Sunlight and exercise keep the sow and her pigs in good tone and help to correct a great deal of the feeding trouble of which we hear so much complaint.

In winter the sow should be comfortably housed, preferably in a cot well supplied with straw, and placed some distance from her feeding place, so that she will get necessary exercise in running to and fro. Her feed should consist largely of bulky foods, such as milk, roots and clover hay, which will keep her in good condition without fattening.

If food supplies are abundant and cheap; and if good shelter is plentiful, there is no reason why two litters of pigs should not be produced from the same sow during each year of her usefulness. But if there is a scarcity of any essential cheap or otherwise wasted feeds, either roots, milk grain in droppings of cattle, or cheap grain, it is better that the pork-producer's efforts should be directed to the perfect growing of a single

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Bovine Tuberculosis a Great Menace

Few of us realize how serious a menace is bovine tuberculosis. The United States Department of Agriculture estimates that 10 per cent of the dairy cattle in that country are afflicted with tuberculosis. Dr. Rutherford states that in Canada the percentage of affected animals is just as large.

The health officials of our cities are coming to realize what a danger these diseased cows are to the health of the community. In several cities of the United States regulations have been passed requiring that all herds supplying those cities with milk shall be tested and free from tuberculosis. The sentiment in favor of this seemingly stringent legislation is constantly growing, and Canadian cities will soon be taking similar steps to safeguard the health of their citizens. Then we dairy farmers will regret that we did not take hold of this disease sooner.

A PRODUCT OF OUR METHODS

Tuberculosis in cattle is a product of the artificial conditions under which they live. Close, poorly ventilated stables make an ideal condition for the development of the disease. These conditions are also ideal for the spreading of this disease from one cow to another. Hence it is that under present conditions tuberculosis is so rapidly gaining ground.

The first point in dealing with the disease is, of course, to have our herds tested. Apparently, thrifty and healthy herds have been found to be badly infected. We need not longer regard the tuberculin test as unsafe. Dr. Rutherford and other veterinarians believe that when properly applied its indications are correct in 99 out of 100 cases. Where there are only two or three cows in a herd infected, we believe it is best to get rid of them immediately and then disinfect the stables.

GOOD VENTILATION OF FIRST IMPORTANCE The next point is to remove the conditions that are favorable to the growth of tuberculosis. The first consideration should be good ventilation; some adequate method of removing the foul air in the stable and replacing it by pure air without causing drafts. Either the King or Rutherford systems of ventilation will accomplish

this object. The next point is to have the stable light and clean, and, lastly, we should test the herd regularly and keep it absolutely free from infected cows.

We farmers have not been as alarmed at the inroads of this disease as we should be. The very fact that a cow may have the disease for years without showing external effects causes us

Xmas Gifts of Lasting Value

Wouldn't you rather have a year's subscription to a good farm paper like Farm and Dairy than most of the presents that you receive? Well, most of your friends

you receive? Well, most of your friends feel just as you do.
In order to help you make your Christmas money go round we are making a special Christmas gift offer, the full particulars of which you will see on the back page of Farm and Dairy this week.
There is no other gift, which, at an equal expenditure, will bring so much profit and placause to your steeped who are

fit and pleasure to your friends who are interested in farming during 1912 as will a

gift subscription to Farm and Dairy.
Each Christmas gift subscription will be announced to the recipient by means of an attractive Christmas card announcing the gift and giver, which card, along with a copy of the current issue of Farm and Dalry, will be mailed to arrive on Christ-mas morning.

In order to be in time it will be well for you to just sit down now and make out a list of those to whom you want to send Farm and Dairy for a year as a Christmas present. Mail a money order or cheque to us to cover the cost as per our special announcement, page 20, this week, and we'll attend to the rest-you needn't even write to your friends.

to regard it lightly. But in the long run it means depleted vitality, inability to produce milk in large quantities, and is a constant menace to the health of our own families and to others who consume the milk that we produce. We have got our own eyes open to the danger since several of our own cows have been condemned, and a fine herd of pure bred dairy cattle near by slaughtered because of this disease .- "Milk Producer."

Sheep Quarters and Winter Feeding

J. R. Westlake, Carleton Co., Ont.

Profit in sheep depends to a great extent in keeping expenses down. When sheep are housed and fed in the most economical manner, they are the most profitable animals on the farm. I believe that we can produce one pound of mutton cheaper than one pound of any other meat, not excepting pork.

Sheep are content with the cheapest kind of winter quarters. Our sheep house is a shed made of lumber running up and down with battens over the cracks. The door to the south side is always open, and they can come in and go out at will. Our house is located on a well-drained piece of land along with the other buildings, and they are always well supplied with clean straw. Dryness is the main essential. Warmth is no consideration. The sheep has a natural covering that is warmer than any stable we can build for it.

Our standbys in winter feeding are clover hay and turnips. We have fed pea straw, but with this for roughage, the breeding ewes require about one-half pound of grain each per day. have had no experience with silage.

As lambing time approaches we start to feed the ewes a little ground oats and bran. We have found that alfalfa hay fed about this time does away with the necessity of grain feeding.

The point we wish to emphasize strongly is that the feed must be cheap. The great bulk of it must be grown on the farm, otherwise the profit that we make on our flock would be turned into

Weeds should not be allowed to continue their ravages in the grain fields. True, some of them are difficult to eradicate, but if the nature of the pest be thoroughly understood and a determined effort put forth to do the work, they surely can be subdued. When once the land has become free of weeds it can easily be kept clean, and the profit of farming will be relatively larger .- Jas. Laughland, B.S.A., Simcoe Co., Ont



The Leading Dairy Authorities of Canada as they gathered in Ottawa last week to attend the Dominion Dairy Conference.

All the dairy provinces of Canada sent their leading dairy experts to attend the Dominion Dairy Conference in Ottawa last week. Among those who may be seen in the above illustration are: No. 1, C. W. MacDougall, Dairy Instructor, Sussex, N.B.; Z. Henry Glendinning, Manilla, Out., President Eastern Ontario Dairymen's Association; S. Prof. M. H. Dean, O.A.O., Guelph; 4, Dominion Dairy Commissioner, A. Raddick, Gittawa: S. Prof. M. H. Dean, O.A.O., Guelph; 4, Dominion Dairy Commissioner, A. Raddick, Gittawa: S. Prof. M. H. Dean, O.A.O., Ont., Chief Dairy Instructor and Sanitary Inspector for Western Ontario and Socretary of the Western Ontario Dairymen's Association; 6, Prof. M. H. Dean, C. A.O., Chief Dairy Instructor and Sanitary Inspector for Eastern Ontario, 8, O. Marticola, Agricultural College, Winnipes, Man.; 7, G. P. Publow, Kingston, Ont., Chief Dairy Instructor and Sanitary Inspector for Eastern Ontario, 8, O. Marticola, Agricultural College, Winnipes, Man.; 7, G. P. Publow, Kingston, Ont., Chief Dairy Instructor of Collegary, Alta; 9, Dairy Instructor F. T. Morrow, Mermaid, P.E.I.; 11, C. F. Whitey, Superintendent of Cow Testing Associations, Ottawa: 12, 2, Dairy Instructor of Collegary, Alta; 9, Dairy Instructor of Collegary, Dairy Instructor of Collegary, Alta; 9, Dairy Instruction for Ontario, Bask; 16, J. F. Singleton, Kingston, Ont., Assistant Chief Dairy Instructor for Eastern Ontario. Other prominent dairymen who may be noticed are Wm. Waddell, Kerwood, President of Western Ontario Dairymen's Association; G. A. Putnam, Toronto, Director of Dairy Instruction for Ontario, and Geo. H. Barr, Chief of the Dairy Division, Ottawa, Ont.

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Farm Help Domestic Servants

Can be had on application to the

Salvation Army

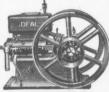
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Well DRILLING MACHINES

Over 70 sises and styles, for drilling either deep or shallow wells in any kind of soil or rock. Mounted on wheels or on sills. With engines or horse powers. Strong, simple and durable. Any mechanic can operate them easily. Send for catalog. WILLIAMS BROS., ITHACA, N.Y.

GASOLINE ENGINES

1½ to 50 H. P. Stationary Mounted and Traction



WINDMILLS

Grain Grinders, Water Boxes, Steel Saw Frames, Pumps, Tanks, Etc.

GOOLD, SHAPLEY & MUIR CO., LTD. Brantford Winnipeg Calgary

PUBLISHER'S DESK

About Our Special Last Week

Over 67 per cent. of an increase above our corresponding issue of a year ago!—That is what our Third Annual Breeders' Magazine Number of December 7 (last week) carried in advertising.

In value of advertising carried last In value of advertising carried last week, we broke all our previous records. The issue is over 29 per cent. ahead of our Exhibition Number of September 1, 1910, which issue now takes second place in value of advertising carried.

This record did not margly happen.

This record did not merely happen

There is a reason for it.

There is a reason for it.

The reason is mainly our greatly increased circulation over a year ago. (Farm and Dairy last week circulated 12,200 copies.)

ed 12,200 copies.)
Another reason is the general feeling of confidence in Farm and Dairy that has become manifest amongst our patrons, who from the satisfactory results they have been getting through Farm and Dairy have found that it peays to advertise to the Dairy

that it pays to advertise to the Dairy Formers, which we reach exclusively. Then, too, the \$15,000,000 income which our people have made this year is worth while recognizing. Our pa-trons are in business to give good value for their share of a sum of money like this; therefore they placed their advertising with us in order their advertising with us in order that their respective propositions might meet our people face to face at this most opportune time to get next the Dairy Farmers and Christmas buyers.

mas buyers.

Next year, beginning with our Special Poultry Number (our 4th Annual), Feb. 1st, we will have greater value than ever for our people and

will have grown a great deal more, which means that our advertising space will be worth still more to our advertisers. Then our advertisers of themselves will cause us to make new

records.

Before concluding we want to tell you that Farm and Dairy will continue along the lines of our policy to publish WITHOUT FEAR OR FA-VOR this paper by farmers for farmers. Come what may, our farmers' interests must ever stand first. Then our advertisers will be assured of getting full value for their advertising expenditure with us, since Farm and Dairy will continue to be "A Paper Farmers Swear by."

International Live Stock Show Three Canadian agricultural college carried off the major honors in the students' judging contest at the 1911 International Live Stock Snow, held Chicago.

Macdonald College of Quebec came



Instructive Exhibit at a Country Fair

Among the most instructive features of many country fairs in Ontario now-adays the Department of Agriculture. The exhibit here illustrated was seen at York Co. Fair this fall. It was designed by W. E. J. Edwards, B.S.A., the District Representative in that country.

first with 4,363.5 points, Manitoba second with 4,335.5, Missouri third with 4,315 and Ontario fourth with 4,205. Iowa State College, which came first last year, was fifth this year with 4,154.5 points. The other colleges competing were Texas, Mon-

year with 4,104.5 points. The other colleges competing were Texas, Montana, Ohio, Kansas, Nebraska, with awards in the order mentioned. This is the first year Macdonald College has been in the competition and the boys, trained by Professr Barton, a graduate of O. A.C., made a name for their college and their instructor.

The individual ratings were: H. F. Williams of Missouri, first; G. H. Jones, Manitoba; G. J. Robertson, Macdonald; E. A. Weir, Ontario; Archie Camphell, Macdonald; P. F. Bredt. Manitoba; W. Gibson, Macdonald, and W. H. Hicks, Manitobs, in order named. Manitoba stood first in hogs and Ontario first in abega, in logs and Ontario first in abega, manitoba: Manitoba; Manitoba

A CANADLAY FOR RESERVE
Very few Canadians exhibited at
the above this year. No Canadian
horses or such a control of the control
horses of the control of the control
horses of the championship, but had to take second place, as it was a little weak in
the back.
Outs a number of Canadian sheep. A CANADIAN FOR RESERVE

Quite a number of Canadian sheep breeders were present and demon-strated that Canada could breed winning sheep. At the time of writing the sheep had not all been judged.

the sheep had not all been judged.

GRAND GHAMPIONSHIP FOR OANADA

Mr. J. Lloyd Jones of Burford,
Ont. had the grand champion wether
under two years old. The reserve
grand championship went to University of Wisconsin. In fat Shropshires
Jones got second and fourth in weth-

for our advertisers. Our circulation er lamb class and second in pen of five wether lambs.

In fat Cotswolds E. F. Park of Burford, Ont., got second in a class of wethers one year old and under two, second and third in wether lamb class and first in pen of five wether lambs.

A SCOOP ON LEICESTERS

In Leicesters Canadians carried off

In Leicesters Canadians carried off everything. In classes of wethers one year old and under two, A. & W. Whitelaw, Guelph, Ont., got first, S. Parkinson, also of Guelph, second, and A. W. Smith, Maple Lodge, I was a second of the second. The championahip went to Parkinson on a yearling. a yearling.

GRAND CHAMPION IN ANGUS

GRAND CHAMPION IN ANGUS
The grand champion steer of the
show was Victor, a grade Angus, fitted and exhibited by the lowa State
College. Nebraska College had the
reserve champion shup, Prince of
Viewpoint 2nd, also an Angus. The
grand champion was two years 10
months old and weighed 1,670 lbs; the
reserve champion two years and
shree months weighed 1,570 lbs. Victury was a somewhat blockier type and shree months weighed 1,570 lts. Victor was a somewhat blockier type and a little wider on top; he has a remarkably fine rump. Mr. Cridlan, the judge, asserted that Victor had the best rump he ever saw on a bull-ock. The grand champion was sold for 90: a b. live weight. I lowa Angus baby beeves exhibited by Escher & Ryan were the carlot grand champions. It is rather significant that in the last 12 years the Angus breed has carried off the grand championship in carlots nine times, and the individual grand championship savent times.

ship seven times.

The show of horses and swine was remarkably good. No Canadian stock was exhibited in either class.—H.C.N.

What is the Just Method?

(Continued from page 3)

ought in some way to be recognized in an equitable and just system of dividing money among patrons from the sale of cheese.

Because of these facts, there arose a third system for a basis of settlement among those contributing milk for the manufacture of cheese. This may be called the fat-casein plan. The arguments in favor of this

plan may be stated as follows:

1. The fat and casein of milk are the two chief and most valuable constituents which enter into the making of cheese.

2. The yield of cheese is fairly in

2. The yield of cheese is fairly in accord with the fat-casein content of the milk. During the season of 1910, at the O, A. C., the extreme variation in the yield of cheese per pound of fat and casein was 1.607 lbs. of cheese in the month of June to 1.462 lbs. in Octobers of the 1.55 kg. October—a difference of but .155 lbs.
3. This is the fairest and most just

plan yet devised because it comes nearest to a measure of the cheese yielding capacity of normal milk.

The arguments against this system

The testing of both fat and casein in factory milks is too expensive, may not be accurate, and is not practicable under present factory condi-

2. The patrons are not familiar with these tests and they prefer to go "as (Concluded on page 9)

How Much Does it Cost By the Year?

The first price of a cream separator is no basis for figuring its cost. Suppose you paid ₹ for a pair of shoes which, with \$1.00 worth of repairs, lasted 12 months, making an average monthly cost of 25 cents. At another time, you paid \$3 at the start, only 50 cents for repairs, and the shoes lasted 24 months—an average cost of less than 15 cents per month. Which was the better buy? for figuring its cost. The same principle holds good in cream separator buying. You may pay a low price at the start—but such a separator will need frequent repairing—and won't last. The cost per year will be double that of a good separator.

I H C Cream Harvesters Dairymaid and Bluebell

They skim close and run easy for years. They are built for long, hard, steady service. Here are sensible—a feature found on no other separators; a patented dirtarrester which are easily accessible—a feature found on no other separators; a patented dirtarrester which are easily accessible—a feature found on no other separators; a patented dirtarrester which removes the finest particles of dirt before the milk is separated; frame autirely pearings, and bearings, and the control of the separators of the separators

H CCream Harvesters are made in two styles—Dairy-d, chain drive, and Bluebell, gear drive—each in sizes. Let the I H C local agent tell you all the s, or, if you prefer, write nearest branch house for catalogues and any special information you desire.

CANADIAN BRANCHES—International Harvester Company of America at Brandon, Calgary, Edmonton, Hamilton, Lethbridge, London, Montreal, North Battleford, Ottuva, Regins, Saskatoon, St. John, Werburn, Winnings, Yorkton. International Harvester Company of America



IHC Service Bureau The Bureau is a clearing house for agricultural data. It aims to learn the best ways of doing things on the farm, and then distribute the information. Your individual experience may help others. Send your problems to the I H C Service Bureau. agricultural data

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Spreading Manure in Winter

oppreading manure in winter
Do you consider it advisable to spread
manure on top of the smow during the
winter months? This practice has become
quite common in our neighborhood, but I
do not consider it wise. I have noticed
that the water that drains away from the
fields where the manure is so spread is
folially in the second of the second of
fortility is
Contain Co., Ont.

The discoloration of the drainage
water of fields in which manure have

The discoloration of the drainage water of fields in which manure has been spread has led many to believe that such water carries away much plant food. Actual chemical analysis of such water, however, does not show any appreciable amount of fertilizing investibant in it.

ingredients in it.

In most cases we consider it advisable to spread the manure directly on the snow each day, and the experience of many practical and successful farmers bears out our assertion that this is the best method of handling manure. It might not be advisable, however, on steep, hill-sides where much of it might be washed off with the snow.

Fertilizer for Corn

Does it pay to use commercial fertilizer for corn, and, if so, what kind do you consider best-P-A., Duada Co., Ont. Commercial fertilizer is not usually advisable or profitable for growing corn in Eastern Ontario, or for that just possible, have over the contained of the contai soil is in very good tilth, and it is desired to have an extraordinary yield that the application of, say, 100 lbs. or even 150 lbs. of nitrate of soda per acre, applied at about the same time that the corn was planted might have a beneficial effect, or might even profitable.

prove profitable.

If the corn were being grown for grain, then the addition of, say, 250 or 300 lbs. of basic slag or acid tracted ground phosphate rock might prove of some value, but is not likely to prove profitable.—J. H. G.

Field Crops in Canada

The total area for Canada in pota-toes, turnips and other roots, fodder corn, hay and clover and sugar beets this year, according to the Dominion Report, was 8,895,679 acres, with a total products value of \$219,129,000. This is \$1,679,000 more than last year. There is a decrease of \$3,120,000 in hay and clover.

The largest increase is shown potatoes, which is nearly \$6,000,000 more than last year, although the product is less by 8,000,000 bushels,—the duct is less by 8,000,000 bushels,—the average selling price being 60c a bus., compared with 45c a year ago. The value of this year's product of hay and clover and fodder corn is \$159,065,000, which is less than last year's value by \$2,008,000. Potatoes, turnips and other roots and sugar beets have a value of \$80,064,000 being more than last year's value by \$4,267,000. 287,000.

The quality of all the crops this year is 90 per cent and over excepting sugar beet, which is 86 per cent, and last year all crops excepting potatoes,

last year all crops excepting potatoes, turnips and other roots were over 90.

The values of all root and fodder crops this year by provinces were \$5,724,000 in Prince Edward Island, \$12,228,000 in New Brunswick, \$73,315,000 in Ouebec, \$89,467,000 in Ontario, \$5,583,000 in Minchia, \$3,790,000 in Saskatchewan and \$6,396,000 in Alberta. The area sown to fall wheat this season is 1,097,900 acres, being 797,200 acres in Ontario and 80,700 acres in Alberta. This is 2.93 per cent less than a year ago.

The per cent of fall plowing completed ranges from 73.57 in Ontario

FARM MANAGEMENT to 90.40 in Prince Edward Island for the Eastern Provinces, and from 18.73 in Alberta to 34.12 in Manitoba for the Western Provinces, which is less than the averages of last year at the to 90.40 in Prince Edward Island for the Eastern Provinces, and from 18.73 in Alberta to 34.12 in Manitoba for the Western Provinces, which is less than the averages of last year at the same date. For summer fallowing the average in all the provinces is well over 90 per cent. for each of the three years, 1909-11.

The Case for Fall Calves

A. D. Wilson, Minnesota Have the cows come fresh in the fall. If this practice were followed generally, at least 50 lbs. of butterfat per year would be added to the

fat per year would be added to the average product per cow. Having cows freshen at this time brings the heaviest milking during the winter, when one has the most time. It brings the care of the calvee in the winter; it allows the feeding of the skim-milk to the calves in the winter.



The Wheat Belt is Extending

The wheat belt is Extending
The wheat belt in Canada is wide as
well as long. No. 1 hard wheat has
well as long to a triving several hunded miles of the proper that
tration gives an idea of the growth that
is made in the Peace River District That
is
district was once spoken of as the
"Prosen North."

while they need it: and to the young during the early summer, when means so much to them. Calves dropped in the fall are ready

for grass as soon as it comes in the

spring.

Cows freshening in the fall will, if
well cared for, give a good flow of
milk in the winter; and when the
grass comes, a good flow during the
carly summer; and most of them will
be dry during harvest and fall work,
when there is plenty to do without a lot of milking.

The average price of butter-fat will also be higher, because of a larger portion of it being produced during the winter, when prices are variably higher than in summer

ºNova Scotia Crop Report

A summary of the crop report cently issued by the Nova Scotia Department of Agriculture, shows that have Leen below the average this year. Hay is only 90 per cent of an average; cats. 89 per cent: wheat, 90 per cent; barley, 89 per cent; wheat, 90 per cent; botackweat, 60 per cent; forage crops, 98 per cent; potatoes, 94 per cent; and root crops, 100 ner cent

potatoes, 94 per cent; 100 per cent.
All kinds of live stock, with the exception of abeep, show an increase in numbers. On account of the dry weather there has been a decrease in the amount of milk produced of about the amount of milk produced of about the amount of milk produced of about the central prod

Apples are a record crop and are reported at 300 to 400 per cent in comparison with the year 1910. The crop is estimated at 1,600,000 barrels from the Annapolis Valley alone.

A Note of Appreciation

Editor, Farm and Dairy .- Please

Editor, Farm and Dairy.—Please find enclosed postal note for \$1 to pay my subscription to Farm and Dairy for another year. I cannot do without Farm and Dairy. I would try to construct for the part of the part o enough.

You certainly did your part in try-ing to get wider markets for us farm-ers. I think that the racial and religious question had much to do with the way the vote went.—N. Darby, Sheppard Co., Que.

Harness Pointers

It would be well to thoroughly over-haul the harness two or three times a year, and have any breakages at-tended to at once. Brown harness is more durable than

tended to at once.

Brown harness is more durable than black. The former leather is in its natural stake, except for tanning, while the black had been subjected to certain chemicals in dyeing it, which remove much of the natural grease and leave the leather hard and dry. Oil could be applied, but will not fully restore the flexibility and wear-resisting qualities. To clean black harness it should be taken to pieces and washed with warm water and soft soap, using a brush and plenty of "elbow grease." Hang the harness up to let the water drain off (not in the saun), and when dry apply on the inside of the various straps and parts a thin coating of mestrepart harness-dressing. Apply lightly with a sponge and an brilliant and glossy appearance will result.

result.

For dray or waggon harnes

For dray or waggon harness refined neatfoot oil is a most useful preservative. In all cases the harness must be well washed and dried before the oil or dressing is applied. On no account allow the oil to remain on the surface of the leather or it will pick up the dust and make a thick greasy coating on the outside of the harness. Just put on sufficient to penetrate.

A Fake.—The latest scheme out for taking money out of farmers is the "Foote Soil Testing Outfit." This outfit is being offered for \$10, and along with it "The Story of the Soil." by Oyril G. Hopkins. Professor than a nothing to do with this mation offer and, having tested roote Soil Testing Outfit in his stories, pronounces it a fake.

MORE MILK === How to Get It

If you feed your cows merely to keep
them altw, then straw will suffice as a
them altw, then straw will suffice as a
them altw, then straw will suffice as a
them altw, then straw will greduce, then there's only one feed worth
than corn, bran, hay, or ensilage will produce, then there's only one feed worth
and the strain sufficient than the sufficient suf

Sold Over 850,000 Acres in Five Years

WESTERN LAND FOR SALE

from 160 acres upwards, situated on or near railways in the

Best Wheat, Oat and Stock - Growing Districts of

SASKATCHEWAN AND

-- ALBERTA

450,000 acres to choose from PRICES LOW Terms most generous and helpful

Special Inducements Given Actual Settlers

Our crop payment plan requires no payment on land bought un-til the purchaser sells his first crop. He can use all his capital for cultivation and improvements.

Write for particulars.

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THROUGH TRAIN SERVICE AND PULLMAN SLEEPERS

Between TORONTO and PORCUPINE

NORTHBOUND-First train leaves ' to 8.30 p.m. Dec. 2nd, arriving South Porcupine 4.20 p.m. following afternoon. SOUTHBOUND—First train leaves South Porcupine 12.30 p.m., Dec. 3rd. arriving Toronto 7.30 a.m. following morning.

The Attractive Route to

WINNIPEG AND WESTERN CANADA IS VIA GRAND TRUNK AND

CHICAGO

Steamship tickets on sale via all lines Make your reservations early

Full particulars from Grand Trunk Agents

VO FOR ONTARIO

Will arrive in February, March and April, aged between 16 and 19 years. number is limited, application should be made at once. Write for application form. Address

R.A. MACFARLANE

BOY FARMER LEAGUE Drawer 126 WINONA, ONT.

Anything to Sell

Recesesesessessesses HORTICULTURE

Buy Trees Now

The fall is a good time to purchase trees. Heel them in near the pro-posed orchard and thus be ready for instant action when the ground is ready in the spring.

The fall buyer gets first choice on trees. He gets the varieties that he wants. Or buy the trees in the fall and let the nurseryman keep them

for you during the winter.

To heel in trees dig a trench a foot and a half deep, the same in width, and as long as necessary on a high, well sheltered spot. Place the trees loosely along the trench half a dozen to a running foot is close enough.

Put the roots in the trench and in-ine the trees backward until they cline the trees backward until they are half lying across the excavation. Shovel in fine dirt and pile the earth well up around the roots and lower portions of the trunk.

Apple Market in Great Britain J. M. Mussen. Trade Commissioner, Leeds, England.

A general opinion is held that not for many years has there been such an abundant supply of home-grown apples on the English market as during the present season. The supplies coming forward from the fruit-growing districts have quite upset the previous calculations of merchants as to the yield of the orchards. It is not only in the quantity but also in quality that the fruit has exceeded exity that the fruit has exceeded ex-pectations, many of the apples being exceedingly good specimens of such varieties as Kings, Seedlings, Blen-heims and Kent Beauties. The liberal home supply, much of which is unfortunately being de-spatched to already overstocked mar-

kets. is somewhat depressing prices at kets. is somewhat depressing prices at present. English apples are selling at from 60 to 73 cts. a stone, and al-though ostensibly for cooking, certain varieties are sold for dessert purposes. In appearance, however, it is generally admitted they do not approach similar fruit received from Canada.

APPLE SHIPMENTS FROM CANADA

Within the past few weeks the first arrivals of apples from Nova Scotia have reached this market concurrently with supplies from the United States. A shipment of apples packed in bushel boxes has also been sent direct to Leeds by an Ontario exporter. At the same time large quantities of apples, chiefly from Nova Scotia, are being offered at auction in the sale rooms at Liverpool. In view, however, of the competition which these early shipments have had to meet with from home supplies. The Within the past few weeks the first We want to hear from erry reader of the which these early shinemen have had to make anything to buy, sell, or exchange. Have you apply to exchange. Have you apply to read the self-amount of the self-amou

How About Commercial Fertilizers?

Prof. J. W. Crow, O.A.C., Guelph, Ont.

Low Headed Trees

W. T. Macoun, C.E.F., Ottawa, Oni.
Three feet is a good length for the trunk of an apple tree.
I believe that low headed trees will come into bearing mere quickly than high headed trees.
Anyone who has tried low headed trees is enthusiastic over their advantages. British Columbia growers are not satisfied with 18-inch trunks; food in an unsoluble form. Cultivation of the secret of rendering this food available for the use of the trees.

I am perfectly satisfied that all the nitrogen necessary to supply food to sunks.

guminous cover crops such as vetches, that some orchards are getting too much barnyard manure. This results in a large leaf and wood growth, late maturity of the fruit and a weak tree.

maturity of the fruit and a weak tree.

To supply phosphoric soid and
potash we should cultivate thoroughly. We have spraying down to
a much finer thing than orchard cultivation; and yet orchard cultivation is
the Lest method of feeding the

tree.
It is easy to sink money on commercial fertilizers. My advice is to first cultivate, and if there is then a deficiency study the fertilizer problem. [The Nova Scotia fruit growers would disagree with these ideas of Prof. Crow's, as expressed at the last meeting of the Ontario Fruit Growers Association. What has been the experience of Farm AND Daray readers with commercial fertilizers in the apple orchard?—Editor.] Meeteeteeteeteeteetee

APICULTURE Resessessessessessesses

American Foul Brood

Morley Pettitt, Provincial Apiarist American foul brood is caused by bacteria that reach the healthy young larvae by means of infected food unsuspectingly fed to them by the nurse bee. In most cases the larvae die oee. In most cases the larvae due when nearly ready to seal up, and most of the cells containing infected larvae are capped. The dead larva softens, settles to the lower side of the cell in a shapeless mass, at first white or yellow changing to coffee color and brown. At this stage it becolor and brown. At this stage it becomes glutinous so that if it is pricked
with a toothpick the contents will
rope out half an inch or so when the
pick is slowly withdrawn. It adheres
to the cell so, it cannot be lifted out
entire. It has the odor of a poor
quality of glue. When the larva dries
it forms a tightly adhesive scale, of
very dark brown color, which cannot
be removed without tearing the cell
wall.

wall.
Where the infected larvae are cap-Where the infected larvas are capped the cappings turn a darker color and become flat or sunken, the workers perceiving that something is wrong usually start to tear off the capping, but, discovering the contition of the contents they generally leave it with a small perforation in the centre until quite dry, then the capping is removed, and in time honey may be stored in the cells containing the scales of disease. The millions of disease spores then float out into the honey, which Lecomes a medium for carrying the disease to out into the honey, which becomes a medium for carrying the disease to other healthy larvae by robbing, in the same or some other apiary. Some of the honev is also carried into the supers, to make room for alterations in the broad nest, and is marketed in the form of bottled or section honey.

sary. We must see that the colony will get healthy food as soon as the unhealthy food is taken away, and have means for building new comb at once. So the operation should be performed during a honey flow, and to make it perfectly sure it is a good plan to insert a division board feeder

plan to insert a division board feeder of sugar syrup.

We must take precautions against starting robbing, or causing the treated colony to scatter to other hives or swarn out, be lost, and carry infection to other places. The opera-tion should be performed in the even-ing, when the bees are settling down for the night and the entrance should be covered with queen-excluding metal to hold the queen in case of swarm. be covered with queen-excluding metal to hold the queen in case of swarming out the next morning. A regular queen-excluder laid on the bottom board under the brood chamber will answer the latter purpose. They should also be given a clustering space to occupy, as in the case of a natural swarm. Whenever bees are disturbed case with honey from the comb. As this will happen when the hive is being treated, and some of this diseased. ing treated, and some of this diseased honey may be stored in the new combs, it is thought best to remove these after three or four days and require them to make a second start. METHOD OF TREATMENT

When there is a good honey flow on, go to the colony in the evening, taking a set of frames with one-half inch starters of foundation in them. Take the combs out of the hives, shaking the bees from them, back into the hive. If any fresh nectar flies out, it hive. If any fresh nectar files out, will be necessar to brush the bees off instead of shaing them. Get the combs immediately under cover, and carefully any honey up very about, so that robbers that may colonies cannot carry from home di

home d. If the honey flow is at all uncertain, it is better to put in a feeder with thin sugar syrup.

On the hird or fourth evening after the first operation, remove the hive from its stand and set in its place a clean disinfected hive containing frames with full sheets of foundation. Now brush the bees from what combs have been built on the starters into the new hive. Even overate care must be taken than at starters into the new hire. Even greater care must be taken than at first to avoid leaving any honey or bits of comb about. Positively no comb must be used or left in the hive in either the first or second treat-ment.

ment.
You have now made an artificial swarm of this colony. It must be given the conditions new swarm likes, or it will least still the swarm of the likes plents of the swarm You have now made an artificial of this colony. It must be the entrance as well.

the entrance as well.

All combs from the supers as well as from the brood chamber of the diseased colony, together with the first set of starters and whatever comb is built on them, must be either burned or melted, and boiled thoroughly before the wax is fit to use again. The honey that is removed is entirely unfit for bee feed, even after it has been builted for a full half hour it is not safe. The only safe way to dispose of it is to burn it or else dig a hole and bury it deep enough to be out of the reach of any bees.

If directions have been followed carefully and thoroughly, the treat-

the form of bottled or section honey.

THE TREATMENT

To be cured of this disease a colony must be freed from all infected brood. comb and honey. To do this we simply take it away. But in the coperation some procautions are necesarily and again in about three weeks and again the following season.

Decemb ***** POI

****** Apprecia Mrs. E. I We have fowls are b greis that better table fying to the

flock of po

take when and colors. We made bred poultr we got twe From these were hatch same strain bred white nicer tab not as good are, therefor Our fow The poultry the road an

try keepers breeding s looked so were driving are derived to an exten Po Cleanline nce and ca ake for su

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SINGLE FAR For Pro Lectures

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POULTRY YARD

Lessossessessessesses Appreciates Pure Bred Fowls

Appreciates Fure Bred Fowls
hirs. E. F. Eaton, Colchester Co.,
We have found that our pure-bred
fowls are better layers than the mongreis that we once kept. They make
better table fowl and are more satisfying to the eye. We take a pleasure
in showing our friends our uniform
flock of poultry that we could not
take when the fowls were of all sizes
and colors.

We made our first start in pure-bred poultry several years ago, when we got two settings of eggs from a breeder of Barred Plymouth Rocks. breeder of Barred Plymouth Rocks. From these two settings 29 chickens were hatched. We still have the same strain. We have also tried pure bred white Wyandottes. These make a nicer table fowl, but we find them not as good layers as the Rocks, and are, therefore, not so profitable.

are, therefore, not so profitable.
Our fowls advertise themselves.
The poultry yard is in plain view of the road and we frequently have poultry keepers come to us for eggs and breeding stock, because the fowl looked so good to them when they are driving past. Pleasure and profit row-derived from pure bred poultry to an extent impossible with mongrel stack.

Poultry Pointers

Cleanliness, punctuality, persever-nce and care are a few elements that make for success with poultry.

The prime factors in treeding disease are unsanitary surroundings, dampness, crowding, impure water, improper food, neglect, and want of exercise. Under such conditions,

EASTERN ONTARIO

Live Stock AND

Poultry Show

Will be Held at Ottawa, Jan. 16 to 19

1912 Exhibits consist of

HORSES DAIRY AND BEEF CATTLE SHEEP, SWINE SEEDS and POULTRY

\$11,000.00 in Prizes

PRACTICAL LECTURES

will be given on subjects

even the strong, sound constitution will break down, and with it vanishes immunity.

Place no reliance in the theory that breeds contaminate by simply seeing a different variety on the other side of the fence. It might be as reason-able to supose that some of the eggs will hatch pups by allowing the watch dog to come in sight of the heas.

What is the Just Method?

(Concluded from page 6) you were" until they know more about

testing milk.

(Concluded From page of you were's until they know more about testing milk.

In reply to these arguments against the fat-casein plan, we may say that while testing may be somewhat expensive, it is worth the cost to insure honesty and justice as between man and man; that testers for both fat and casein in milk are practicable and accurate if properly operated; and that these tests can be made at factories under present conditions, as we have demonstrated during the season of 1911, by sending a man to make fat and casein tests at cheese factories in Work and the season of the objection that patrons are not familiar with these tests, we should observe that it is time that a campaign against ignorance and in favor of knowledge was begun with vigor. In saying this we are not casting any reflections against time that a campaign against ignorance and in favor of knowledge was begun with vigor. In saying this we are not casting any reflections against patrons of cheese factories, for behold how little we all know of that vast sea of knowledge open to the mariner from any and all ports; or, to change the figure, how little we all know of the vast crops growing on the farm of science and knowledge.

A FRACTICABLE TEST, PAT FLUS 2
As an alternative to the actual testing of both casein and fat in each patron's milk, we have suggested the determination of the percentage of fat in milk by means of the Babcock test, then adding two for casein. That the "fat +2" is near enough for all practicable purposes is indicated by the results of tests for casein at 10 cheese factories in Ontario during the season of 191, May 10th to Septembel 1930, and 1930 of the case of son of 1911, May 10th to September 15th, where the average percentage of casein in milk of between 400 and 500 patrons, was 2.92. The average percentage of fat in the milk as delivered by these patrons was 3.44. While we advise the use of both the milk-fat and casein test for milk to be made into cheese, the modification suggested is near enough for all practicable purposes, and will answer the purpose until patrons have become sufficiently educated to require both tests, or until some one is able to combine these two tests at one operation.

two tests at one operation.

The excess of casein in above two The excess of casein in above two per cent, is counter-balanced by the fat and casein lost in the whey, so that when the factor two is added to the percentage of fat, we have for all practical purposes, the available percentage of fat and casein in milk for charge myling and case in the myling and case in the

cheese making.
Summarizing and concluding, we

would observe:

1. Milk and cheese at factories ought to be tested, because of the natural and artificial variations which milk is subject to.

2. Both fat and casein ought to be determined and both are of equal value pound for pound for the manufac-

will be given on subjects relating to the various classes of Live Stock, also to Seeds, Poultry and Alfalfa

SINGLE FARE RATES ON THE RAILWAYS.

SINGLE FARE RATES ON THE RAILWAYS.

For Programme of Judging and Lectures, apply to the Secretary

Peter White, Pres. D. T. Elderkin, Secy. Pembroke

Ottawa

FOR SALE Pure bred S.C. White Leghorn Cock erels, March and Aprill atched, bred from imported English stock which have been trap-nested for heavy laying for over 20 years. These birds are invaluable to breeders who are anyious to increase.

over 20 years. These birds are invaluance to breeders who are anxious to increase the laying powers of the flock. Also a few pure bred white Wyandotte Cockerels from prize bred stock, \$2.00 ench. f.o.b. Victoria. Apply R. Waterhouse, c.e. Marine Iron Works Pembroke St., Victoria, B.C.

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD, CASH WITH ORDER

BRONZE TURKEYS and Silver Grey Dork ings-grand birds-for sale. Apply to W Stewart and Son, Menie, Ont.

FOR SALE—A pure bred improved York-shire Boar, eighteen months old. A getter of big litters.—Patrick Cavanagh, Indian River, Ont.

LARGE, VIGOROUS COCKERELS FOR SALE—White Rocks, Rose Comb Brown .Leghorns and Silver Grey Dorkings. Write your wants to Eber Kinsey and Son, Bayham, Ont.

FOR SALE—Iron Pipe, Fulleys, Belting, Rails, Chain Wire Fencing, Iron Posts, etc., all sixes, very sheap. Send for list, stating what you want. The Imperial Waste and Metal Co., Dept. F.D., Queen street, Montreal.

CREAMERY FOR SALE—A modern cream-ery in Central Ontario; plant in excellent repair; first class stor-age, convenient ice supply, excellent wa-ter and drainage, and what is even more important, a very profitable busi-ness. Good reasons for selling. Don't reply unless you mean business.—Box M., Farm and Dairy.

LIVE

For best results ship your Live Poultry to us, also your Dress-ed Poultry, Butter and Eggs. Crates Supplied. Prompt Returns

The DAVIES Co. Ltd. **TORONTO**

Fowl A Pair of Pure Brede will be given you free in return for only four New Subscriptions to Farm and Dairy, each taken at only & a year. Tell us which variety you would like FARM AND DAIRY, Peterboro, Ont

S a Day Sure Send us your address the day of the send us will show you to the should be send to send the send to send to send the send to send to send to send the send to send the send to send to send the send the

AGENTS We will pay you well to hustle in your district for new sub-FARM AND DAIRY, Peterboro, Ont.

FEATHERS WANTED

We pay highest prices for all kinds of Feathers, Furs, Hides, Wool, Tallow, Beeswax, etc. Prompt returns. Send for Price List.

CANADA FUR AND FEATHER CO 605 Ontario St. E., Montreal, Que.

Poultry Fencing that is Stronger than Seems Necessary

We make our poultry fencing close enough to turn small fowlthen we make it extra strong, so it will last for years and keep the cattle out. The heavy, hard steel top and bottom wires hold it taut and prevent it from sagging.

PEERLESS POULTRY FENCE SAVES EXPENSE

It is well galvanized so as to protect it from rust. It makes such a firm, upstanding fence that it requires less than half the posts needed for the ordinary poultry fence, and that means a big saving to you. Write for particulars.

We make farm and ornamental fences and gates of exceptional quality. Agents wanted where not now represented.

The Banwell Hoxie Wire Fence Co., Ltd. Dent. H Winnipeg, Man. Hamilton, Ont.



"A good roof adds materially to the value of your building especialy if it is fire and water-proof."—The Philosopher of Metal Town.

25 Years of Actual Use

is the guarantee behind "Eastlake" Steel Shingles. We do not ask you to accept a paper guarantee, but simply point to the roofs that were covered with

"EASTLAKE" METALLIC SHINGLES

25 years ago. They are in perfect condition today, have never needed repairs. "Eastlake" Shingles are made of the best sheet steel and can be laid in one quarter the time thatit takes to lay any other metal shingle. They are so different from the four-lock shingle which only overlaps 11 inches, the "Eastlake" has a full three inch overlap, absolutely preventing the drifting snow and rain reaching the wooden sheeting.

Our free booklet, "Eastlake Metallic Shingles," will save you money and worry. Send for it and get the information you want about roofing. Phone Park. 800.

MANUFACTURERS



FAKM AND DATRY

AND RURAL HOME

Published by The Rural Publishing Com-pany, Limited. GE W DED

FARM AND DARY is published every Thursday. It is the official organ of the British Columbia, Manitobs, Eastern and Western Ontario, and Bedford District, Quebec, Dalrymen's Associations, and of the Canadian Holstein Ayrabire, and Jer-sey Gattle Breeders' Associations.

sey Cattle Breeders' Associations.

S. SUBSCRIPTION PRICE, \$1.00 a year, strictly in advance. Great Britain, \$1.00 a year. For all countries, except Cana in and Great Britain, add \$60 for yostage. A year's subscription free for a club of two new subscripts.

new subscribers.

3. REMITTANCES should be made by Post Office or Money Order, or Registered Letter. Postage stamps accepted for amounts less than \$1.00. On all checks add 20 cents for exchange fee required at e banks.

A. CHANGE OF ADDRESS.—When a change of address is ordered, both the old and new addresses must be given. 5. ADVERTISING RATES quoted on application. Copy received up to the Friday preceding the following week's issue.

WE INVITE FARMERS to write us on agricultural topic. We are always used to receive practical articles. CIRCULATION STATEMENT

CIRCULATION STATEMENT
The paid subscriptions to Farm and
Dairy exceed 19,598. The actual circulation of each issue, including copies of the
paper sent subscribers who are but slightfrom 11,800 to 11,300 topies. No subscriptions are accepted at less than the full
subscription rates. Thus our mailing lists
do not contain any dead circulation.
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OUR PROTECTIVE POLICY

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OUR PROTECTIVE POLICY

We want the renders of Farm and Dairy
to feel that they can deal with our actiesers' reliability. We try to admit to our
column only the most reliable advertiers

the standard with the treatment he receitive from any of our advertiers, we
will investigate the circumstances fully
of our advertiers are unreliable, even in
the slightest degree, we will discontinue
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warrant, we will expose them through the
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Complaints must be made on the date of
any unsatificatory transaction, with
proofs thereof, and within one month
from the crief to take advantage of
the guarantee. We do not undertake to
adjust triling difference between readers and respirabile advertiers.

FARM AND DAIRY PETERBORO, ONT.

THE TARIFF COMMISSION

Premier Borden has a proposed accompany a protective tariff. The combines in restraint of trade that grow up behind the tariff wall in Canada are to be held in check by means of a tariff commission which will investigate all such combines and, we presume, have power to compel them to dissolve. The new tariff commission will have powers similar to those of the present railway commission.

We believe that the lowering of the tariff is the one effectual way of dealing with such combines. A commission, however, if composed of the right kind of men might do much to overcome the combine evil or at least to hold it in check. If the proposed commission is to be satisfactory to the country it must be truly representative of all classes of the community, those who bear the tariff exactions as well as those who benefit

by them. It would be manifestly unfair to have a commission made up entirely of the representatives of the protected interests, or vice versa, or of one political party.

The farmers of Canada, who compose sixty-six per cent, of our population, and who pay most of the tariff charges, should be represented by one or two members on that commission. In the past tariff agitations have been conducted mainly by our farmers. They enjoy fewer tariff favours than any other class in the community, having only three items out of the two hundred and twentyone on the free list. A commission that leaves this large part of the community unrepresented would not only be unsatisfactory but out of accord with our principles of democratic government.

Dr. James Mills, the farmers' rep resentative on the Dominion Railway Commission, has been one of its most valuable members. There are many farmers in Canada who by education and natural tendencies are well fitted to take their places on the proposed tariff commission. What better men in Canada could be found for tariff commissioners than E. C. Drury, of Ontario, and Mr. Roderick Mc-Kenzie, of Manitoba? The commis sion must include some men who are opposed to excessive protective tariffs or a large proportion of the public will lack confidence in its rulings.

To render satisfactory service this tariff commission must be composed of not only able men who will consider the good of the whole people rather than the selfish interests of the few, but it must be non-partizan, or it will not carry weight.

UTILITY IN THE SHOW RING

The improvement of live stock so that it will better meet the requirements of man is the aim of every great live stock breeder, whether his specialty be horses, cattle, sheep or swine. This also is supposed to be the aim of our fall shows and winter fairs - to encourage the improvement of our stock; to increase its utility value.

We are developing in Canada a system of judging at fairs in which the remedy for the evils that inevitably fit of the animal plays too important a part. The skill of the feeder deserves recognition, but not to such an extent that the real essential points, the utility points, of the animal are overlooked or under emphasized.

We note this tendency to put too high a premium on the fitting of an animal in the judging of all classes of stock, but the injurious effects of the system are particularly noticeable in the case of young colts and two-yearold animals in the horse classes.

We do not raise horses for beef. Our first aim in the feeding of the young animal is to develop a good frame, constitutional vigor, good digestive capacity, and so forth. Each and all of these objects is interfered with when we have to "fatten" them for the fairs.

In Scotland, the home of the Clydesdale, yearling and two-year-old colts as we now have them.

are shown in the rough. judged on the indications they give of frightened of fat calves. We will making good breeding stock when make no mistake in feeding our fall they reach maturity.

A change is needed in our show ring standards in judging horses.

But let those of us who are interestthat the same tendency is growing in next spring. A little fat will not hurt placing awards in all live stock them for milk production providing classes. Let us insist on utility judg- their breeding is right. It is false ing. Only by utility judging can the economy to stint the calf's feed. What live stock show achieve its main ob- the dairy cow is depends to a great ject-an increase in the utility value extent on how we feed the calf. of our live stock.

A LESSON FROM THE DANES

The average annual production of cows in Denmark had been increased from eighty pounds of butter in 1864 to two hundred and twenty pounds in 1908, according to the Danish Live Stock Commissioner. This result was obtained through the formation of local cattle breeders' associations, through which bulls are purchased for the use of the members, and through the formation of control unions that engage men to conduct tests for the farmers in connection with the milk yield of their cows, the percentage of butter fat and the cost of feed. Good bulls are subsidized by the government. Prizes are given at the leading fairs to cows and bulls in recognition, above all else, of their merit as breeders and producers.

Compared with Canadians, Danes are at a disadvantage in dairy production through high rents on land and the high cost of feed. But they bear to us the position of a successful rival; they have taken first place on the British butter market.

Part of their success is due to the assistance of the Government. But most of it is the result of the enterprise of the farmers themselves in the improvement of their stock by cow testing and the use of sires of superior breeding.

The methods that have made possible to this small country an income of one hundred million dollars a year on dairy produce alone can be adopted with equal success in Canada.

A PROGRESSIVE MOVE

The Farmers' Clubs of Waterloo Co., Ont., have organized themselves into a County Board of Agriculture. The first move of the new organization will be the securing of statistics as to the agricultural wealth of Waterloo County, kinds of stock raised, the weeds that are most prevalent, and so forth.

This work, however, will be only preliminary to the greater work that will be taken up later on. The officers of the organization have in view the extensive application of the principle of cooperation, which they believe is just as applicable in Waterloo county as it is in Denmark

The move taken by the Farmers' Clubs of Waterloo county should be well considered by farmers' clubs in other parts of Ontario. The possibilities for good work through the large county organization are much greater than through the local organizations

They are Many of us are altogether too

calves liberally. They Those will then make a good Calves growth this winter and be in capital condition

ed in other lines of stock not forget to make good use of the pastures

VII

The experience of successful advertisers, like the Paquet Company, and D. Derbyshire & Co., who have been mentioned in these talks, and many others advertising in these columns, all goes to show that there is more to advertising than simply buying space-even big space.

It is not the space, but the matter featured in the space, that brings results—that sells the goods.

Beginners at advertising are prone to get the wrong kind of matter into their advertisements. Often they advertise, as it were. to themselves. They should advertise directly to the fellows they wish to interest.

Plausible generalities, so often seen in some advertisements. may fit the other fellow's product as well as yours. You should DIG DEEPLY for the pointed, convincing selling facts. Then feature these in advertising.

A certain manufacturer who has at least four other active competitors advertising in his special line, told us three weeks ago, that the present was the wrong time to interest farmers in his product.

During August and September he had used a small 2-inch single column advertisement. It had brought him most satisfactory re-

Thinking to make a stronger bid for business in October, he sent out copy to occupy 4 inches double column. Replies at once fell off to almost nothing.

Being farmers, and knowing farmers as we do, we knew the season was most opportune for this patron's advertising. On investigating his copy we discovered on the instant that it was at

There and then we produced new copy for this manufacturer. who was frank to admit his mistake and gladly grasped the opportunity to place the new copy before our readers in 4-inch double column space.

Have the right copy. Feature it in proper space, -and if yours is a proposition appealing to dairy farmers, their wives or families, you'll get satisfactory results in Farm and Dairy, for it is

"A Paper Farmers Swear By"

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Creamery Department

Butter makers are invited to send contributions to this department, to sak question on matter of the contributions of this department, to butter making and to suggest endiquesion. Address letters to Creamery Department. 2,000,000,000,000,000,000,000,000

Certificates for Cheese and **Butter Makers**

Butter Makers

Gen. A. Putnam, Supt., of Dairying
for Ontario

During the Social Control of Dairying for Ontario

During the Social Control of Dairying to Granting of Certificates to cheese and butter-makers in the Province of Ontario. In accordance with the provisions of this Act, the Advisory Board called for applications for certificates and upon receipt of these the qualifications of the applicants were theroughly looked into and certificates granted accordingly.

While the great majority of expe While the great majority of experienced makers were given permanent certificates, 472 "one year" certificates, 472 "one year" certificates to butter-makers. These "one year" certificates to butter-makers. These "one year" certificates, of course, included a number of men who had not up to the time of granting certificates taken, full charge. granting certificates taken full charge of the manufacture of cheese or butter, but had, in the opinion of the Advisory Board, sufficient experience as first assistants to warrant the Board in granting them a permit or "one year" certificate.

"one year" certificate.

Where an honest effort has been made on the part of the recipients of these one year certificates to take advantage of the instruction afforded advantage of the instruction afforded by representatives of the Department, and have shown that they are capable makers, either a permanent or "one year" certificate will be furnished as soon as the old certificate has been returned to the Department. All makers concerned will be communicated with regarding the renewal of certificates early in December. It will be in the interests of all such to make plans to attend one of our Pro-

will be in the interests of all such to make Phins to attend one of our Provincial Dairy Schools.

Dairy School graduates who were given permission by the superintendent of the dairy school from which they graduated, to take charge of a factory or creamery during the past season, and have made good, will be given permanent certificates from the dairy school concerned before the season of 1912 opens.

While the Department was necessarily quite lenieat in the granking of certificates at the beginning of sets of the season of 1912 opens. While the Department was necessarily quite lenieat in the granking of certificates at the beginning of the system, it will be the policy to draw the lines a little closer as conditions warrant. It is fully expected that the benefits which resulted from the granting of certificates will be more marked as the years advance.

Creamery Department of the conclusions reached by the dis-cussions are published on page 12 in this issue. These resolutions prac-tically give the results of the confer-

ence.
At the opening session on Wednesday Hon. Martin Burrell, Dominion Minister of Agriculture, gave a brief address of welcome, which was responded to by Mr. G. A. Putnam, Director of Dairy Instruction for Ontario, and by J. C. Chapais, Assistant Dairy Commissioner, St. Denis, Que. A committee was appointed, composed of Prof. Dean and Messrs.

ant Dairy Commissioner, St. Denis, Que. A committee was appointed, composed of Prof. Dean and Messrs. F. Herns, London; G. G. Publow and L. A. Zufelt, Kingston; J. C. Chapais, St. Denis, Que.; C. W. MacDougall, Sussex, N.B.; J. D. Leclair, Ste. Therese, Que., and Wm. Waddell, Kersooi, to prepare resolutions for sulmission to the conference, these resolutions to embody the conclusions reached. clusions reached.

A paper on the "Pasteurization of Cheese Factory Whey" was read by Frank Herus. This paper will be published in full in Farm and Dairy. Mr. Herus was in favor of pasteurization, and his stand was sustained in the resultant discussion. This led to the passing of the resolution given elsowhere in this issue.

Mr. G. G. Publow submitted a paper entitled "Legislation for the Proper Branding of Whey Butter." This paper is published in full on page 12 of this issue. Its discussion was led by L. A. Zufelt. Both peakers favored the branding of whey butter and the conference endorsed their INTERESTING PAPERS

ers favored the branding of whey butter and the conference andorsed their stand by passing the resolution published on page 12.

An excellent paper entitled "Testing Cream at Cream Gathering Creameries" was submitted by J. F. Singleton. On Tlursday morning, Dairy Inspector J D. Leclair of Ste. Therees, Que., read a paper entitled "Maximum Acidity in Pasteurized Cream." Both these papers will be published in Farm and Dairy. The discussion of the latter was led by Dairy Instructor C. W. MacDougall. GRADING CREAM

GRADING CREAM
The grading of cream at creameries was ably treated by Dairy Commissioner C. Marker of Calgary,
Alta. Alberta has advanced further
than any other province of Canada in
the matter of grading cream. Mr.
Marker showed that cream grading
has greatly improved the average
quality of the butter manufactured in that province and showed in de-tail how the work is conducted by the Government, which controls the creameries.

Dairy Superintendent W. A. Wilson of Saskatchewan in the attendant discussion stated that Saskatchewan



175-177 Williams St.

MONTREAL

*

WINNIPEG

Mr. Geo. H. Barr, Chief of the Dairy Division, agreed with Professor Dean that the most accurate basis of paying for milk was by the butter fat and casein tests, but claims that rat and casein tests, but claims that very few makers are qualified to conduct these tests. He gave the results of some investigations he had conducted during the past year and suggested the adoption of a table which would enable makers to figure out 2 he percentage of butter fat and casein in milk in a simple manner. He further suggested that if factories would contribute about \$1 a patron it would be possible for them to organize

would be possible for them to organize and employ competent men to test the samples of milk from all the factories. Mr. J. F. Singleton reported the results of experiments that he had conducted at the Kingston Dairy School, which went to show that the results obtained from the casein test The Dominion Dairy Conference

A conference of dairy experts from practically all parts of Canada was held in the office of Dairy Commissioner J. A. Ruddick, Ottawa, on Wednesday and Thursday of last week. Most of Canada's leading dairy authorities were present. Dairy Commissioner Ruddick presided at the various-assessions. A photograph of the birds received from the most of them is published on page five in this issue.

PANING BY TEST

The object of the conference was explained by Commissioner Ruddick in this issue.

The object of the conference was explained by Commissioner Ruddick in the part of the decision as to some uniform its included as the payment for in the various-assessions. A photograph of the decision as to some uniformity in the dairy practices of the different provinces in order that the general standard of the dairy practices of the different provinces in order that the general standard of the dairy products manufactured in Canada might be improved. He pointed out that it was the time of the kind this standard of the dairy products manufactured in Canada might be improved. He pointed out that it was the time of the conference with the greating of published on page the payment for the time of the payment for the time of the payment for milk provinces in order that the general standard of the dairy products manufactured in Canada might be time of the time of the conference with the past the past teny systems as being the bease as proposed the time of the payment for milk are the conference with the payment of the decision of the time of

VANCOUVE F

ment this year. He contended that this test was practical if conducted on the basis laid down by its originators. When the resolution committee came to deal with the matter it submitted the following resolution to the conference

conference:
"Resolved. That in the opinion of
this conference a system of payment
for milk at cheese factories by pooling or weight of milk is an unjust
method of distributing proceeds from
sales of cheese.

Resolved, That while it is generally agreed that both fat and casein should be taken into consideration in the payment for cheese factory milk, yet owing to the limited experience with owing to the limited experience with the casein test and until such time as the casein test can be placed in the hands of men who are competent to handle the same, the present systems of payment according to fat or fat plus 2 is recommended."

NO WOMEN COMPLAIN NO MEN GROWL ABOUT SHARPLES **Tubular Cream Separators**

Which shows how very different Tubulars are from all others.

From all others.
You see, Dairy Tubulars contain no disks to wash, rust and wear. Twice the skimming force of others. Skim faster and twice as clean. Repeatedly paying for themselves by saving what others lose.

This is why other separators are being rapidly discarded for Tubulars. For your own sake, ask the oldest separator concern or this continent for catalogue No. 253, fully describing the modern separator—the simple Tubular which

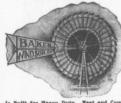
THE SHARPLES SEPARATOR CO. Toronto, Ont. Winnipeg, Man.

FOR SALE Up to date cheese factory and dwelling; good well One acre land; received \$1.50 per 100 lbs cheese for manufacturing. ½ mile to school Beason for selling-accepted Government position. This factory runs year round, and receives 2,000 to 9,000 lbs. milk per day in summer. Address FRED S. HADLER, GREEN LEAF, WIS., U.S.A. R. R. No. S. Box 6

XMAS either for grown-ups or children, on the farm is Price \$1.35 poetpaid.

Dept. FARM AND DAIRY Peterboro

THE 'BAKER' BACK-GEARED WIND ENGINE



Is Built for Heavy Duty. Neat and Com-pact in Design. Do Ferfect Work, Be-cause they are Built on Principles that are absolutely Correct, and the Easiest Running Mill Made.

The wheel is built on a hub revolved on a long stationary steel spirdle. As a result, there is less friction, and the hub will never become worn and cause the wheel to sag toward the tower.

"BAKER" wheels have large numbers of small sails, without rivets, as compared with other makes.

The small sails develop the full power of the wind and enable "BAKER" mill to pump in the lightest breeses.

The engine is so constructed that the gears cannot wear out of mesh. All working parts are covered with a cast iron shield, thus protecting same from ice and sleet.

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THE HELLER-ALLER CO. WINDSOR



AMERICAN SEPARATOR CO. BALBERINGE, N. Y.

Cheese Department Makers are invited to send contributions to this department, to ask questions on the surgest subjects for discussion. Address letters to The Cheese Maker's Department.

Legislation for the Proper Brand-ing of Whey Butter

G. G. Publow, Kingston, Ont. In the dairy industry of Canada the latest substance to assume noticeable proportions is the now well known by-product, whey butter, and it is the object of this paper to describe briefly the importance of its control, and at the same time furnish material for discussion by the nish material for discussion by the delegates here assembled, with the object of impressing on the Dominion government the need of legislation for the proper branding of whey butter as such, so that the consuming pub-ic may know at all times exactly what it is purchasing and so that the interests of the regular creamerymay be legitimately protected

Whey butter is a by-product of the seese industry. It is the product cheese industry. It is the product secured by churning the globules of fat separated from the other constituents of whey, with or without the addition of coloring matter, salt and water. The history of its manufacture dates back to many years ago, but in the last two or three years, owing to the improved separating ap-paratus and increasing market values of dairy products, together with greater business competition, it has grown to such an extent that nearly one-fifth of the cheese factories of Eastern Ontario are now engaged in its manu-

NOT EQUAL TO CREAMERY BUTTER In some factories where proper facilities and surroundings exist a very fair quality of butter is made, but the great majority, the quality is of a very inferior nature, and in no case does the quality equal the finest creamery butter. There are a num-ter of reasons why it is not possible to make the butter of finest quality, and some of these I wish to enumerate.

In the first place, the raw material, that is, the cream secured from the whey, is not of the finest possible quality. Before it is secured it has suffered not only the usual effects of bacterial life in the pull from the additional hours of exposure cheese manufacturing temperatures which in themselves are sufficient to spoil average milk in a short time. In the cheese manufacturing process too. the fat globules lose that characteristic which ensures firmness of body, this being so pronounced at times that the butter is greasy even in cold weather.

weather.
CONDITIONS ARE AGAINST WHEY BUTTER
Then, again, the equipment, surroundings and atmosphere of the
average factory are far from being
ideal for the manufacture of finest
butter, the whole manufacturing process frequently being one of exposure
to harmful odours and bacteria during each step from the ripening of ing each step from the ripening of the cream to the packing and marketing of the butter

Many of these deficiencies doubt, be attributed to the fact that very few cheesemakers have the ability to make good butter under any condi tions, this part of their training hav-ing been neglected in the regular Others that could be se work and are good buttermakers do not do and are good buttermakers of hot satisfactory work because of lack of help, and in the rush of taking care of both butter and cheese at the of both butter and cheese at the one time some part is obliged to suffer. The point may be raised by possible opponents to legislation that whey

*An address before the Dominion Dairy Conference, Ottawa, Dec. 6th and 7th, 1911

Beeresessessessessesses butter is better than lots of farmer's if the butter was used for export. butter is better than loss of farmer abouter and even better than some ereamery butter, a statement which is perfectly true. But this is of no importance in the deciding of the issue at stake, namely, the proper brand-ing of the butter. I wish to make myself quite clear on this point.

WHERE INJUSTICE LIES I am not particularly opposed to the manufacture of whey butter under proper conditions, but I am opposed its being marketed under the label finest creamery butter. It is a of finest creamery butter. It is a well known fact that whey butter at its best has poor keeping quality, and it is not hard to appreciate the juries that might result to the general butter industry by the effects of such on the unsuspecting public, especially

If the quality of whey butter is good enough, selling it as such will not affect the market price, but selling whey butter of inferior quality for whey butter of inferior quality for high prices under the brand of finest creamery is something that should not be permitted

The consuming public should be protected and the solidity and reputation of the dairy industry of the Dominion for honest goods of unques-tionable quality should be maintained at all cost. It is with this object in mind that this paper has been prepared, and I submit its contents to you with the hope that with your support it may be instrumental in accomplishing the object for which it is intend-

RESOLUTIONS APPROVED OF BY THE DOMINION DAIRY CONFERENCE

The resolutions adopted by the Do minion conference of dairy Ottawa last week, if adopted by the government and practiced in every government and practiced in every cheese and butter factory in the Do-minion, would place Canada in the front rank as a dairy country. These resolutions, having the sanction of our best dairy authorities, are worthy of consideration by all dairymen.

Several measures that have been urged by Farm and Dairy for years, such as the weighing of cream samples, branding of whey butter, pasteurization of whey, and pasteurization of cream, were put in the form of resolu-The resolutions read as follows :

To the Dairy and Cold Storage Commissioner, Mr. J. A. Ruddick, the Chief of the Dairy Division, Mr. Geo.
H. Barr, members of the Dominion Conference of Dairy Experts as-Conference of Dairy Experts as-sembled at Ottawa, Dec. 6th and 7th, 1911, your committee on resolutions beg leave to report as follows:

WITH REFERENCE TO CHEESE In view of the fact that a large portion of whey from the cheese factories of Canada is, and is likely to be re-turned in the milk cans, and whereas it has been shown through actual factory practice that proper pasteuriza-tion of the whey, heating it to 155 degrees, ensures a decided improve-ment in the quality of the cheese by diminishing bad flavors, improves diminishing bad flavors, improves the sanitary condition of the factories, tends to increase the feeding value of the whey, eliminates the risk of conveying through the whey, disease germs, especially those of tuberculosis, to the stock to which it may be fed, and whereas, a practical system of pasteurization at a cost which in-volves no hardship to the factories has demonstrated and successfully been demonstrated and successfully and voluntarily adopted by a number of factories, be it resolved that this Conference of Dominion Dairy Experts approves of and strongly recommends the pasteurization of whey. Further, in view of the national importance of this question, it is also resolved that this opportunity be taken to urge the need of passing taken to urge the need of passing legislation in the near future that will ensure the proper pasteurization ensure the proper pasternation of all dairy by-products, such legislation to provide for, and place in the hands of responsible parties authority to see that the pasteurization of the aforementioned by-products is properly car-

Owing to the fact that the most successful work can be done in the pasteurization of whey where no wash water is run into the whey tank and where no surplus whey is allowed to where no surplus whey is allowed to remain in the whey tank from day to day; resolved that, in the opinion of this Conference, septic tanks or other means for the satisfactory disposal of the aforementioned wash water or surplus whey be provided at all cheese

WITH REFERENCE TO BUTTER Resolved that, in the opinion of this

Conference, a standard scale should used for weighing Babcock samples of cream for testing, and that such scales should be inspected at least once a year at the factory.

Resolved further, that composite samples be kept in tightly stoppered bottles in a cool place, to prevent evaporation of water and undue fermentation, and whereas lack of uniformity in temperature at which Babcock cream tests are read causes a variation in readings, we recommend that samples be read at a temperature of 130-140 degrees Fahr.

Resolved that, owing to the fact that the present method of manufac-turing and selling whey butter tends to injure the legitimate creamery in-dustry of Canada, and in order also to protect the consumer, this conference recommends that all such butter have a distinguishing mark or brand.

Resolved that, owing to the fact that in Canada butter production is to a great extent limited to seven months in the year, and whereas but-ter consumption continues throughout the whole year, the keeping quality of the butter is an important factor under such conditions, and further, that it having been demonstrated that pasteurization of milk and cream adds to the keeping quality of the butter made therefrom, this conference re-commends that pasteurization be adopted in order to secure this improvement.

Resolved that, in the judgment of this conference, some system of grading cream at cream gathering cream eries and payment for same on a quality hasis be adopted to improve the quality of Canadian order. ing cream at cream gathering cream-

The Dominion Dairy Conference

(Continued from Page 11)

Further reports of the discussion will be published later in Farm and Dairy. Among the prominent dairy-men who were present and whose names were not given on page five of this issue were O. Delaire, Secretary of the Dairy School, Ste. Hyacinthe, Secretary Que; E. Borbeau, Inspector General for Cheese, St. Hyacinthe, Que., and W. McLaggan, Montreal.

CREAM

WANTED

We are paying 31c per lb. butter-fat for cream of good flavor. We furnish cans and pay express charges both ways. Ship your cream to us.

PROMPT RETURNS

Flavelle-Silverwood London, Ont. Limited

Pearl, Milford, h lishman s the famil unmixed of being habite in duced to of shinny of shinny thrashed tional, as gives Libl Watsons attend the to conduct M_{w}^{AR}

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store ar

When 1 money sl the mone num gently an zine peopl Pearl had er own derful to make the

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THE It is a When a

The Pic Valley, a by young year on th green flat In many other gan early

One ver enjoyment

hard cash and "Long cured in th Tommy

virtuously



DOU will find as you look back upon life, that the moments that stand out, the moments when you have really lived are the moments when you have done things in a spirit of love. - Henry, Drummond.

The Second Chance (Copyrighted)

NELLIE L. McCLUNG

Author of "Sowing Seeds in Danny (Continued from last week)

Continued from last ueek)

Pearl, the oldest daughter of John Wasson, a C.P.R. section man living in Milford, Man., receives a large sum of money from the relatives of a young Englishman she had nursed when III. She decides to educate herself and the family. The Watsons are joined by their Aunt Kate, who proves not an unnixed blessing. Pearl proves an efficient and clever scholar and has dreams of being a school teacher. She sees that her small brothers are learning bad yoving the family not been supported by the school teacher and suggested young the family not seem to be supported to the shildren at a country school. The watson agrees. We are introduced to the shildren at a country school. The ship was the sh

return. Indinas Ferkins was not mean about anything but money—he would gladly give to his children anything else that he possessed—but he considered it a very unlucky thing to part with money. Pearl saw plainly that cold cash was necessary for carrying out her plans for Mar-tha, and so, acing on Camilla's sug-gestion, she got customers for Mar-tha's butter who would pay her cash every week

She got for Martha, too, a lotio for her hands which, put on regularly every night, was sure to soften and whiten them. She showed her how to treat her hair to make it lose its hard, stringy look. Camilla had written out full instructions and sent a piece of the soap that would do the

When Martha got her first butter money she sent for the magazine that she wanted her father to give her that she wanted her rather to give her they came fron the money for before, and when the first number came, she read it diligently and became what the magazine people would call a "good user." Tommy had it they have been been so son she began to make the best of herself.

CHAPTER XVII.

THE PIONEERS' PICNIC

is always fair weather When good fellows get together.

-Old Song.

The Pioneers' Picnic was the great The Pioneers' Picnic was the great annual social event of the Souris Valley, and was looked forward to by young and old. It was held each year on the first day of July, on the creen flats below the town of Mill-ford. In John Watson's home, as in many others, preparations for it because with the property of the property of the property of the source of the property of the source gan early

One very necessary part of the real enjoyment of a holiday is cash, cold. hard cash, for ice-cream, lemonade, and "Long Toms" can only be procured in that way

Tommy and Patsey for the first

MARTHA had never had any time bitterly regretted their country money of her own, having always sold her butter to the store and received due bills in the butter butter to the core and received due bills in the core and received due to the core and received due to the core and bottles that were so numerous in the bush as a possible source of revenue, and so every piece of scrub and the for bottles. Thirty-sven were scoured and were cleaned and boxed ready for the day.

Then Bugsey's conscience woke up and refused to be silenced. "Lib Cavers ought to have them," he said sadly

The others scouted the idea. sey was as loath to part with them as the others; but they had their con-sciences under control and Bugsey had not

"She couldn't take them in and sell them," said Tommy, speaking very loudly and firmly, to drown the voice of his conscience. "It wouldn't be of his conscience. "It wouldn't be dacent, everybody knowin' where they came from, and what was in them, and where it went to, and who it was, and all."

Tommy had ideas on what cousti- advanced.

tuted good form.

decision.

decision.

"If you give Lib Cavers one package of 'Long Tom' popcorn and one of gum for a present it'll be all right. Don't tell her why yer giv.n' it to her-just say, 'Present from a friend,' when you hand it to her.'' 'Maybe she don't like popcorn, anyway,' Bugsey said, beginning to holle, and it don't believe her mi. believe her mi. and it on't believe her mi. look nice for little girls,'' he added virtuously.

"I'll tell you what we'll do."

"I'll tell you what we'll do." said Tommy, who was a diplomat. "We'll give it to her ma to give to her." "Offer it, you mean," corrected Patsey; "give it' means she tuk it." Aunt Kate had been busy making suits for her young nephews all spring, for Aunt Kate was very handy with the needle. She had made shirts for Teddy and Billy with elaborate "flossin'" down the front, so ela-"flossin'" down the front, so elaberor is worth the trouble. She had borate indeed that it threatened to a lovely barred muslin maee out of upset the peace of the family. Billy an old one of Aunt Kate's that she news out of his aunt's hearing, that he would rather go without a shirt than wear that scalloped thing.

There were new suits for some, clean suits for all, and the only dis-Aunt Kate was serene through it all. and told them how fond their Uncle Bill had been of that same pea-vine pattern. Pearl saw at once that there was going to be a family jar, and so was going to be a tamily jar, and so saved the situation by getting Martha Perkins to make wide silk ties for the two boys, wide enough to hide the ramifications of the peavine—and then to avoid the uncomvine—and then to avoid the uncomfortable questioning of Aunt Kate,
she hid her glasses on the evening of
June the thritieth. "Anyway." Pearl
said to herself, "she might get them
broke on a big day like the "First,
and she can see plenty widout them
so she can." so she can.

The morning of July the first broke clear and sparkling, and before six o'clock the whole Watson family were Out in the garden the four little boys were pulling radishes and tying them into bunches. Mary, her hair done in many tight little pig-tails, was doing a flourishing busi-ness in lettuce. Jimmy was at the ness in lettuce. Jimmy was at the head of the green onion department. The Watsons had the contract of supplying green vegetables to the hotel for the day.

Pearl and Aunt Kate were sorting out clothes, while Mrs. Watson got the breakfast.

Down on the river-bank John Watson was cutting down poles for the new stable that he was going to put up in the fall. There was a great contentment in his heart as he looked at his twenty acres of wheat and the same of oats. The season had been so favourable that although the grain had been sown late, it was now well advanced. A field of fifteen acres farther up the river had been cleard

Pearl was called upon to settle it, and ploughed and would be in crop nd. after some thought, gave her next year, and as he looked at his next year, and as he looked at his land in the sparkling morning sunshine something of Pearl's optimistic vision came to him, and in his fancy he saw all the roots and scrub cleared away and replaced by magnificent fields of grain, dappled with light and shade, his pasture full of cattle, a comfortable house instead of the weacomfortable house instead of the wea-ther-worn one before him, nimself and the "Missus" enjoying peace and plenty; and the children growing up in wisdom's ways; and Pearlie-his heart's treasure. little Pearl; with the "natest fut in the country, and the sparrow shins of her"—Pearlie getting her chance.

"Faith, there's few of them can bate our Pearlie, I'm thinkin', if she can only get the chance." By ten o'clock acti e preparations

began on the junior members of the family. Mary's hair showed that putting in fourteen hard braids the might family. before is worth the trouble. She had a lovely barred muslin made out of

There were new suits for some, clean suits for all, and the only disturbance that occurred was when Danny would not "hold still" while Pearl fastened the front of his blouse; but just a hint of leaving him at home, made a better boy of Danny at once. Danny at once.

Bugsey, who was the first one dressed, went out to watch the weather, and in a short time came run-

and were marching relentlessly up the sky. The whole family came out to look. In the east the sun blazed bright and unconcerned. The old pig ran past them carrying a wisp of hay in her mouth, and by common impulse three of the boys threw sticks after her. She was just trying to make it rain—she couldn't go to the make it rain—she couldn't go to the picnic herself, and she'd just like to see it rain! Little whirls of wind circled around in the chip-yard, and there was an ominous roll of distant thunder. Loud wails broke from Bursey, Danny and Marry, and when the edge of the cloud went over the sun and the whole landscape darken-

sun and the whole landscape darkenedt was wall became general.
"Come into the house," commanded Pearl, "it's only goin' to be a
shower and lay the dust. Cheer up,
there's enough blue sky to make a
pair of pants, and it's not time for us
to be goin' yet, anyway."
The tearful family followed her inthe house of the pair of th

to the house and sat in doleful silence watching the big drops that began to beat on the western window.

Pearl was a strong believer in work as a remedy for worry. Jimmy was out to tightening up the buttons on his new suit. Tommy blackened boots with lamp-black and lard, and boots with iamp-black and lard, and Bugsdey, who was weeping copiously, was put to counting radishes as a little bit of "busy work,"

Pearl kept up a brave show of condence in the weather, but Mrs. Watson's and Aunt Kate's contributions to the conversation, were all uses.

to the conversation were all of a humid character and dealt with spoiled feathers, parasols blown in-side out, and muslin dresses so spattered with mud that they were not worth bringing home.

Pearl continued her preparations in the face of great discouracement. Aunt Kate forefold a three days' rain—it looked to be settlin' that way, and besides, look at that old gray hen, she hadn't gone in, and that was a sure sign of a long rain. This brought brought a renewed downpour in the



The Farm Home of One of Our Friends in Western Ontario The home of Mr. Arthur Howell, of Brant Co., Ont., here shown, is pleasantly nated and furnished in a manner to make it an ideal country home. Farm and try counts Mr. Howell as one of its many friends in Western Ontario.

(To be continued)

OLD COUNTRY DOMESTICS

Capable Scotch, English and Irish maids; also Danish girls. Parties arriving twice a month. Apply now. The Guild, 71 Drum-mond Street, Montreal, 47 Pembroke St., Toronto, or 227 Bank St., Ottawa

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Not One Boy need be Without Skates



(Spring Skates) Your Choice

of either Hockey or Spring Skates in return for only one NEW sub-scription to Farm and Dairy taken

at only \$1.00 a year.

A better pair — Nickle-Plated ones—for only two NEW subscriptions.

Girls!

This Offer is for You, Too

See one of your father's neigh-bors after School or on Saturday. Get him to subscribe. Then write us, sending the subscription, and we will send the skates.

In ordering skates send the size of the boot in inches from the extreme heel to the

FARMFAND DAIRY, PETERBORO, ONT.

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Rural Women Approve of Suffrage

We women in the country are in our own quiet way interested in the promotion of that great reform, woman suffrage. We believe that woman suffrage could not but result woman sunrage could not but result in better government, greater purity in politics and the removal of many of the evils that threaten many of our young people at the present day. We do not approve of breaking window glass and of assaulting the police in our efforts to make our rights known, but did women ever get an opportunity to vote on whether or not we wanted the vote, I believe that all thinking country mothers would want to have an opportunity of casting their votes in the cause of right. The following letter in the woman's department of a Toronto paper explains my idea of woman suffrage to perfec-

"We women from the country are too busy with the duties that require our constant attention to be able to form deputations to wait on the Ministry and ask formally for the our constant attention to be able to form deputations to wait on the Ministry and ask formally for the franchise, but we are reading and thinking none the less in our quiet homes, and I believe you would find a larger percentage of both men and women in favor of it to-day than any-

"Two things appeal strongly to

The liquor traffic and the white slave trade. Our boys and girls leave us trade. Our boys and girls leave to go to our ever-growing cities towns, where we tremble for what may befall them. This it is that may befall them. This it is that makes us want to vote in order to strengthen the bonds of clean men who are trying to make Ontario a safe place for our children to live in. We are awakening to the fact that however devoted and good the work of the home-maker may be, it is often wholly undone by the liquor dealer, the cigarette manufacturer, and the the cigarette manufacturer, and the fiendish white slaver lying in wait for our young, ignorant girls. The only way we see to meet the situation is to add the influence of the ballot is to add the influence of the ballot to the influences of our home-mak-ing. We believe with England's 'Grand Old Man' that legislation should make it easy for men to do

Tight, hard for them to do wrong; how much more comfort you and he especially the young."

To this we all say, "Hear, hear."

Do you relike how may times a right, hard for them to do wrong sepecially the young."

To this we all say, "Hear, hear.""Another Mother."

Reward for a Plucky Woman

Canadians represented were amongst the winners in the butter and cheese departments at the Na-tional Dairy Show held at Chicago recently. An enterprising Canadian woman made entries in these departments that did honor to herself and

Mrs. Geo. Laithwaite, of Huron Co., Ont., as her husband puts it, "had the audacity to send cheese and "had the audacity to send cheese and butter to the National Dairy Show to compete with the world." She won the gold medal on the cheese and a \$4 prise and diploma for her butter. Mr. Latihwaite's brother, Mr. Eddie Williams, was her instructor in makcheese maker, having made oheses in a factory in his county for three years without a cult.

without a cull.

Mr. Laithwaite begs to call attention to the fact that the prize cheese was made out of Jersey milk.

... A Sermon

Whatsoe'er you find to do,
Do it, boys, with all your might;
Never be a little true,
Or a little in the right.
Trifles even

Lead to heaven, Trifles make the life of man; So in all things, Great and small things, Be as thorough as you can.

Let no speck of falsehood dim, Spotless truth and honor bright; Who will love and honor him That says any lie is white? He that falters,

Twists or alters, In his tale the slightest part, May deceive me,
But, believe me,
He will never win my heart.

Help the weak if you are strong; Love the old if you are young; Own a fault if you are wrong;

in each duty
Lies a beauty.

If your eyes you do not shut,
Just as surely
And securely As the kernel in the nut.

If you think a word will please. Speak it, if it be but true; indness you can show with ease, Though no deed is asked from you.

Words may often
Soothe and soften,
Gild a joy or heal a pain;
They are treasures,
Yielding pleasures
It is wicked to retain.

Whatever thing you find to do, Do it, then, with all your might; Prayer, my lads, will keep you right. So in all things, Great and small things,

Christian and a man; And forever, Changing never,

Be as thorough as you can.

...

A Talk With Country Women Women of the country, why do you not insist upon having running water in your homes? You know you can in your homes? You know you can have aything you want in this world if you only want it "hard enough."
It is time to stop sighing and saying
"I wish we had a bathroom and "I wish we had a bathroom and atationary tube, but I suppose we, never shall," and begin planning the room you will give up for the bathroom, the space in the kitchen where the sink and the boiler will be, and arranging where the pipes are to enter from the outside. Prestend it's a reality, a thing taken for granted, never stop thinking about it and talking tactfully about it, and some of these fine days you will have it. Your husband will give in if you can make him realize how much hard work, how many bad colds it will save you and

Do you realize how many times a day you run out bareheaded in the rain and wind or snow to bring in one pail of water? Do you realize the amount of strength it takes to lift big tube of water on wash-day and carry them out, when if you had running water in your house you could just pull out the stopper; and to lift big pots of scalding water from the your water on you have only to the your water you want you water you wate

Your money and your good health will never be of greater value to you than they are just at present. Anyone who can afford to have other comforts can afford to have this. In the city running water in the house is an essential. It should be considered an essential in the country also.

And the cost is not great. Harness

And the cost is not great.
the wind that roars through your
trees and about your bouse, and while you sleep let it pump your water for you. Or if not a windmill, get a gasoline engine. As for drainage, there are excellent facilities for this on almost every farm. If your cellar is not in condition for part of it to be converted into a laundry put your stationary tubs in the kitchen and been all a second to be converted in the kitchen and been all a second to be a later to be a second to be a later to be a and have a lid made to put over them

and have a lid made to put over them when not in use, thus making them serve the purpose of a table.

In an address before the Canadian Household Economic Association, Mr. J. F. MacKay stated that only five per cent of the rural homes in Ontario had running water in them. Women of the country, you can raise that percentage if you really wish to. Why not be comfortable?

"Rose Rambler." . . .

Sugar Cured Ham

Mrs. W. C. Hutchinson
There is no other product of the
farm to which the owner points with
greater pride than his abundance of
well-cured ham, one of the daily essenwell-cured ham, one of the daily essen-tials for the table; and if it be well cured, then well cooked, we certainly have one of the most appetizing dish-ese that zan be placed before us. Should we decide to market our own "home-made," "sugar cured" hams, there would be a very great demand for them. Each was we are comfor them. Each year we are com-pelled to refuse a number of would-be purchasers. To all interested in the "sugar cured" method, we give the

'augar cured' messes, following recipe:
To 1,000 pounds of mest—40 pounds common salt, 10 pounds of tleans sugar, four pounds black pepper, three pounds salt petre, half pound three pounds salt petre, half pound wanne pepper. Mix thoroughly, three pounds sait petre, half pound cayenne pepper. Mix thoroughly, then rub half of the mixture on the meat, let lay two weeks, then rub on the remainder, after which let lay four weeks, then half and smoke. As soon as the animal dear the half, carefully covering the akin and flesh side alike, and also well over the book bone.

The expense over saited meat is very small, and I think about equal to other methods of curing, and the amount of labor for first application is also very little more than sating, and or second application it requires the labor of one man about one hour, and for smaller quantities of meat, time and labor in proportion.

Do not think the quantity of the preparation too small, for although it may look so to ne, yet it is an abundance. Each ham is placed separately upon a platform, there to await the ABOUT THE COST

ance. Each ham is placed separately upon a platform, there to await the second application, when it is again-replaced for the four weeks. Then we hang and amoke for four days from a wood fire. By this time the meat is firm and dry, and it is wrapped in newspapers, then placed in sacks made of denim, or other strong material, and hung in a cool, dark place. We have used this recipe for 15 years, have never hal a ham to spoil, and have never eaten better.





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Shall We Print One of These Five Roses Cookbooks For YOU Free?

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Then write out a favorite recipe—one, or more—bread and pastry—send it in NOW. It's the only way to secure YOUR copy.

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See list to your right.

It offers many suggestions. We want just plain, ordinary, everyday recipes—economical recipes.

Your reward will be a copy of this book just as soon as it is off the press, a souvenir of the combined efforts of the very best Canadian housewives.

The lists will close on January 15, 1912, and all recipes should be in our hands on or before that date.

The name of each contributor will appear after each recipe submitted in the cook-

Please write on only one side of the paper. Do not fail to sign your name. Give full address; No. and name of street, city and province.

Don't delay—remember the edition is limited and we expect a big demand — get YOUR name in early.

Write out your contribution NOW-mail to-day.

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CANADA TELEPA

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Not Bleached Not Blended









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The Upward Look ?

(16)

Our Training Ground

1 go unto the Father.—St. John 14:28.

What is the main object of our lives? This is a question which we can scarcely ask ourselves too often. It is one which many of us do not ask ourselves seriously and thoughtfully, as it should be asked, as often as we

Were the master of an ocean steamer to look at his chart shortly after leaving port and then forget to look at it again for several days he would fortunate did he not meet with a wreck or an accident of some kind In any event we should all be agreed that he was incompetent to hold his position and that he should be dismissed from the service. We are the captains of our lives. What they are to become depends on how clearly we recognize this fact and on how strong-ly we focus our thoughts and efforts on making them what we would have them to be.

Just as the captain of a vessel requires a chart, so do we. Without a Without a influenced by every chance wind that The only safe chart we can as all history proves, is the "the word of God." The procure, as all many procure, as all many procure, as all many procure for course it sets for us is the one that d out by our great pilot. Are we following it? Are we laid out by

consulting it frequently? If not then we are running off our course just as certainly as will the mariner who ne-glects to follow the chart of his vessel, and the consequences will be still

In these busy, rushing days it is easy to forget—the Devil delights to help us to forget—how essential it is that we shall take some time each day to study our chart. one another so closely our minds ome occupied with the things of this life, and we drift from our moorings without realizing it. We know that we should be loving, and kind, and brave, and cheerful, and purposeful, and we intend to be, but distractions will occur—the Devil helps them to and it is only as we step aside daily in the quietness to study God's word the richness of which is inexhausti ble, in order that we may receive its messages for us, that we find how far we have run off our course and how to steer once more to recover our bearings.

Many of us are prone to take many little side trips without understand-ing how difficult they make it for us to succeed with our main voyage. There is this, that and the other special thing that we desire to accomplish within the next few days, weeks or months, we become absorbed its accomplishment and neglect to ask ourselves as frequently as should how much it is affecting main direction of our lives.

***************** Christ always had his chart clearly fore Him. "I go," He said, "unto the Father." Never did he allow before Him. 'the Father.' Himself to be turned from the track All that he did was done in the consciousness of that great fact. He was going to the Father and nothing must be allowed to interfere with must be allowed to interfere with His purpose, Well, He knew that his life here on earth was to be but for a few short years. Hence it was imrew short years. Hence it was important that every moment of that time should be utilized to the full. Later, He was to have the joy of spending eternity with the Father. This knowledge made the passing pleasures of this life of no conse His purpose was quence to Him. His purpose was to do the will of His Father who had sent Him. In this He set us a great example. We, too, are going to the Father, for we must all stand before the judgment throne of God. May the consciousness of this fact never leave us, nor the knowledge that while He is first of all a God of jus-ice. He is also a God of love, ever anxious to aid us in the steering of our course here below.—I. .H. N.

THE COOK'S CORNER

Recipe for publication are requested.
Inquiries regardered upon grapes, to
the Household Editor, Farm and Dairy,
Peterboro, Gitter, Farm and Dairy,

APPLE SALAD

Pare, quarter and core six tart ap-Pare, quarter and core six tart ap-ples. Cut the quarters in halves lengthwise and then slice. Wash and crisp the lettuce and arrange it in a salad bowl. Add the apple and sprinkle over it a finely chopped Spanish pepper and a cupful of chopped walnuts and almonds. Pour a French dressing over all and serve

CHOCOLATE CREAM DROPS

Mix one-half cup of cream with two of white sugar; boil and stir full five minutes; set the dish into another of cold water, and stir until it becomes hard. Then make into small balls abut the size of marbles, and with a fork roll each one separately in the chocolate, which has, in the meantime, been put in a bowl over the boiling teakettle and melted.

PINEAPPLE SPONGE

Get a whole pineapple and heat with a cup of sugar and a cup of cold water and simmer ten minutes. Soak half a box of gelatin in half a cup of cold water till well dissolved. Mix with the hot pineapple on taking that from the fire and cool; then add the whites of four eggs beaten stiff and beat all till it begins to thicken. Pour into a mold to harden. Serve with cream or soft boiled custard.

NUT BREAD

Scald one-half cup milk and add to one-half cup of boiling water. When cooled to lukewarm and three-fourths of a cake of compressed yeast, dissolved in three tablespoonfuls lukewarm water, one-half teasponful each lard and butter, two tablespoonfuls molasses, one cup chopped nut meats, preferably English walnuts or pecans, one-half cup white flour, three cups or a little more of entire wheat flour and knead like ordinary bread. Bake in a moderate oven. This bread makes a delicious sandwich when cut thin and spread with currant jelly.

CHOCOLATE RICE PUDDING

Make a custard of two cups of milk, Make a custard of two cups of mins, one-half cup of sugar, a generous pinch of salt, four eggs blended but not beaten too stiff, one-half teaspoon of vanilla, one and one-half cups of cooked rice, and four tall-lespoons of grated chocolate. Bake in a pudding dish until firm, not hard. Serve with whipped cream.

Renew your subscription to-day,

The Sewing Room

Patterns to conta such. Order by mmber and size. If for children, give age; for adults, give bust measure for waist, and waist measure the Pattern Department orders to the Pattern Department.

ONE-PIECE DRESSING SACQUE, 7254 WITH OR WITHOUT COLLAR Such a dressin

Such a dressing sacque as this one is always pretty, always makes a wewardrobe. It is at-tractive and grace-ful and can be slipped on with the greatest ease. For size will be required 25-8 yards of material 21, 12-2 yards 40 or 44 yards

yards 40 or 44 inches wide with 1 yard of insertion and 10 yards of lace edging to trim as illustrated, or four handkerchiefs twenty-two in. square. This pattern is out

GIRL'S BATH ROBE, 7226 The bath robe
that is loose and
ample faifills the essential requirem 'a
Here is one that's
finished with a
square collar and
turned over ouffs
that are smart and
attractive while they
do not in any way do not in any way

medium

interfere with the simplicity. For the 10 year size will be required 414 yards of mate-rial 27, 334 yards 36, 21-2 yards 44 in-wide with 3-8 yard of silk for trimming

This pattern is cut in sizes for girls

3, 10 and 12 years of age.
BLOUSE WITH PEASANT SLEEVES SET

that eut in kimono style and sewed to big and sewed armholes are the newest and latest to have appeared. blouse shows them blouse and also includes the surplice closing that is so much liked and a deep collar.
For the medium

collar.

For the medium size will be required 334 yards of material 27, 3 yards 36 or 134 yards 44 inohes wide with 34 yards 27 for the trimming, 1348 yards 18 inches wide for the chemisette and under-

This pattern is cut in sizes for a 36, 38, 3, 42, 44 and 46 inch bust measure, and will be mailed to any address by the Fashion Department of this paper, or

WORK OR STUDIO APRON FOR MISSES
AND SMALL WOMEN, 7248
Girls indulge in
many occupations many occupations that mean possible, if not probable, injury to the dress, and such aprons as this are needed. It is simple and comfortable, can be easily slipped on and ily slipped on and off, and can be made either with separate or attached sleeves or attached sleeves
For the 16 year
size will be required
41-2 yards of material 27, 23-4 yards 35
or 44 inches wide
with 12 yard 27 for
collar, cuffs and
trimming

This pattern is out in sizes for misses of 14, 16 and 18 years



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PRINCE EDWARD ISLAND

KINGS CO., P. 1.

CARDIGAN BRIDGE, D. 1.

CONTROL CONTRO

QUEBEC.

RICHMOND CO., QUE.
DANVILLE, Dec. 4.--We have had snow for two weeks. The sleighing is good.
Teaming seems to be the order of the reaming seems to be the order of the day—logs, stove wood and cordwood. Dressed beef is selling for 71.2c a lb. Pork, 81.2c dressed. All poultry is high in price. There has been quite a number of deer killed lately, so venison is plentiful. Milk is retailing at 6c a qt.—M.

PETERBORO CO., ONT.

NORWOOD, Nov. 23.—The district dairy meeting was held here yesterday. Our carry instructor, R. W. Ward, reviewed the season's work and recommended better than the season's work and recommended better than the season's work and recommended bettering rooms, particularly the latter, Mr. Henry Glendinning spoke with his usual enthusiasm about the silage-affalfa combination, and Mr. Frank Simpleton talked on better milk.—F.K.

WELLINGTON CO., ONT.

on better milk.—F.E.

WELLINGTON CO., ONT.

FERGUS, Nov. 22.—The weather for the past two weeks has been very wintry, with just enough snow for sleighing. On account of the snow coming so early many farmers did not get their ploughing content of the source of feed. All on account of the source of feed. All on account of the source of feed. All of the source of the

fed on the farm.—G.W.

KIRKWAIL, Nov. 22.—Stock is all stabled, with prospects of a longer winter than usual. Very little farm work has been done since the filth. Several ance the lith. Several ance the lith. Several was the several was several to be several and the several sev

wheat 88c corn, 72c; bran, 82; shorts, 83.—O.A. WATERLOO CO. ONT.
WATERLOO, Nov. 28.—The Consestors
Parmers' Glub held a very successful meeting on Nov. 15th, and discussed the spiritual, intellectual, social and financial advantages and disadvantages of the west as compared with Old Catario. Four compared with Old Catario. Four consessions of the consession of the Catario Catari

ESSEX CO., ONT.

KINGSHILE, Nov. 20—We have had a very wet fall since Sept. 2t. There was no frost to injure the tenderest vegetation until October. One-quarter to one-third daring some second of the companies of the control of the consumption. There has been no plowing done since Nov. 1t. The proposition of the consumption of

BRUCE CO., ONT.

BRUCE CO., ONT.

HEPWORTH, Nov. 22—winter has get in very early this year, and feed is scarce. The root crop was poor. There is usually a number of carloads of rotatoes shipped from this point, but there are none to describe the root of the point, but there are none to learn and sell for a good price. Feeding cattle are not so high as last year. There is a lot of fall plowing not yet done, and not likely to be now as the ground is covered with snow and has been for some time—J.K. I.

HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the official organ of The Canadian Holstein Friesian Association, all of whose members are readers of the paper. Members of the Association are invited to send items of interest to Holstein breeders for publication in this column.

ONE OF CANADA'S GREATEST HERDS
OF HOLSTEINS
In last word of Holstein owned by Mr. Edit
mund Laidlaw of Aylmer, Ont., and his
three sons, George. Loyd and Eight. One
of the surprising fectures of this herd is
largest herd of pure bred Holstein cauth
in Canada under one management and
that while it possibly has more fennies
that have tested over 20 lbs. of butter
for the week, the whole herd has been
for the week, the whole herd has been
Seven years ago Mr. Laidlaw attended
suuction sale and bought the dam of Helbon De Kol, now the Canadian champion
oow, whose record was given in our last
lastes. "I kind of kieled myself for buy
editor," and later on offered to seel her
vearling helfer, which is now the champion cow of Canada, for \$48, but for
tunately for me my offer was not accented. The following January I wencented. The following January I wendelitor," and later on offered to seel her
vearling helfer, which is now the champion cow of Canada, for \$48, but for
tunately for me my offer was not accented. The following January I wenyear relatively low prices, some
Holsteins, one of which, Belle Dew Drop,
has done great work for us."

The Laidlaw are great believers in literat feeding and in the value of official
tests. Beling good judges of us."

The Laidlaw are great believers in literat feeding and in the value of official
tests. Beling good judges of us."

The Laidlaw are great believers in literat feeding and in the value of official
tests. Beling good judges of us."

The Laidlaw are great believers in literate for 30 days 1.730 lbs. milk
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The Laidlaw are great believers in literate for 30 days 1.730 lbs. milk
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average 23.99 lbs. of butter in seven days. All these records were made on the farm; he had been as a seven of the farm of the

THE HERD BULL

THE HERD BULL

The present herd buil as Dutchland Colantha Sir Abbelevit. He is a large vigrous, milky looking fellow and so righty bred that great things are expected
from him. His dam was Tidy Pauline
DeKol, a cow that has a record of 22.44
lbs. of butter for 7 days. One of her
duspliters at five years produced 27.60
2.23 for 7 days. His grand dam was
Tidy Abbekerk, record 27.29 lbs. butter,
she was the dam of two daughters with
records of over 28 lbs. each. His sire
was Colartha Johanna Lad. This great
having that has a record of 5.52 lbs. of
butter for 7 days. His end the world's record for yearly production in a semi-official test of 27.452 lbs. of milk and 1.347.82
lbs. of butter.

STOPS ABSORBINE STOPS

ABOUT TIME A BOILE SHAWIN, RING RODGE, SPRINK, CHEP, SHOR RING, CO. BLASE RODGE, CO. BLASE RING RODGE RODGE

CHEAP FEED Dairymen Feed Cotton Seed Cake

Crude Freden ... 3 per cent. to 3 per cent. Crude Freden ... 3 per cent. to 3 per cent. Crude File ... 15 per cent. to 2 per cent. Crude File ... 15 per cent. to 25 per cent. Carbohydrates ... 39 per cent. to 35 per cent. Fred. three pounds per head per day along with ennilsgs or other feed.

Price, \$\$400 per ton, ex-warehouse.

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Abe Lincoln said: "I will study and get ready and maybe my chance study during these winter evenings. Then you will be ready to takend variance of your chances. All Agricultural books are to be had at lowest prices through Farm & Dairy, Peterboro.



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ANY PERSON who is the sole head of
a family, or any male over 18 years old,
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wr. OGRY,
Deputy of the Minister of the Interior.
N. B.—Unauthorized publication of this advertisement will not be paid for.

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Maple Evaporator Price low—: aslity high-product the best possible—the kind you like syrup—I retains its maple taste—all unnecessary expense and middlemen's profite out out. Sold at a price the poorest man can buy. Every one guaranced. Write for pamphilets and recommends. Do it now.

Steel Trough & Machine Co., Tweed, Ont.

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Cards under this head inserted at the rate of \$4.00 a line per year. No acrd accepted under two lines, nor for less than six months, or 3 insertions of during twelve months.

Champion | FOR TAMWORTH SWINE—Write John W. Acrd Coverinh Ont. E.F.D. No. 1.

HAMPSHIRE PIGS—Canadian Champion FOR TAMWORTH SWINE-Write John W. months and under-Hastings Bros., Orosehill. Ont., E.F.D. No. 1.

VORKSHIRE AND TAMWORTH HOGS...

HOLSTEINS—Young stock, for sale. Sired by Imperial Pauline DeKol, whose 15 nearest dams average 26,20 lbs. butter in 7 days.—R. W. Walker, Utica, Ont.

CLYDESDALES—Home of Acme. (Imp.)
Holsteins—Home of King Fayne Segis
Olothide, non-the Company of the Company of

YORKSHIRE AND TAMWORTH HOGS-Plymouth Rock and Orpington Fowl-A. Dynes. 434 Parkdale Ave., Ottawa.

HOLSTEINS AND TAMWORTHS—All ages also S.C.W. Leghorns. Young stock for sale at any time.—J. McKenzie, Willow-dale. Ontario.



May cost a little more at first-but they last, so are cheapest in the long run.

Made of the very best America galvanized steel—every rivet gal-vanized, every joint soldered. No leaks, no rust, no bulge, no strain. If that's the kind YOU want, write for our free catalogue.

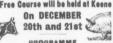
Ontario Wind Engine and Pump Company, Limited TORONTO CALGARY

Live Stock **Judging** Course



Jnder the auspices of The East Peterboro Farmers' Institute Branch of the Department of Agriculture and The Otonabes Agricultural Society

A Free Course will be held at Keene



PROGRAMME

WEDNESDAY-9.30 to 12.00 a. m., Hogs-J. E. Brethour, Burford. 1.30 to 4.30 p. m., Dairy Cattle-F. R. Mallory, Frankford. THURSDAY-9.30 to 12.00 a. m., Light Horses-C. M. MacRae, Ottawa. 1.30 to 4.30 p.m., Heavy Horses-C. M. MacRae, Ottawa. ALL WELCOME

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 Drugs Act, June 30, 1995. Serial No. 31571). It is guaranteed to kill and bring from the body dead in from 18 to 24 hours all pin body dead in fre worms and bots

tis absolute in the hermices and can be given the state of the hero the eight month. Practical horse owners have written in Newvernifuge has removed between 2500 and 500 bots and worrse stomach is full of worms cannot get fat or help being obstinate. Send your order to-day. Beware of initiations.

Farmers' Horse Remedy Co., Dept. A 592 - 7th St., Milwaukee, Wisconsin. Dept. A.8.

MARKET REVIEW AND FORECAST

Toronto, Monday, December 11, 1911. —
Most of the business nowadays is in the
hands of the retailers. Wholesale houses
report the usual failing off in trade that
always precedes the Christmas holidays.
In closing up the year's business most
house find that the volume of trade has
been satisfactory. Payments from the
World-West are not combine published to
temporary as erops are not all marketed
yet.

eat situation on the Continent is serious indeed. Supplies in continent is serious indeed. Supplies in the United States are falling off in face of increased demand, and now Dr. Ruther-ford sounds a similar warning in Canada. Dairy cows have to a certain-extent taken the place of the beef animal in both countries, but that there will be a great short-age in beef in the next two or three years

age in beef in the next two or three years seems to be certain. The only reasonable explanation is that stock farming is not comparatively profitable.

There have been few changes in farm produce this week. Goarse grains are a little easier, other lines are firm and cattle show a 10s to 25e advance.

WHEAT

Wheat quotations on the local market remain unchanged. There is a good remain unchanged. There is a good steady export demand, and in that direc-tion most of the trade is going. Wheat prices at Chicago have gone up and down at the will of prices at Chicago have gone up and down at the will of speculators, but values locally have not been greatly affected. No. 1 Northern is quoted at \$1.08, No. 2, \$1.05; No. 3, \$1.01; Manitoba feed wheat, 72c. As usual, there is very little to say about Ontario wheat. Shipments are small at \$7c. 588.

COARSE GRAINS

The coarse grain market could not be much quies grain in market could not be much quies changing hands, and quotations are purely nominal. Oats and cortains are purely nominal. Oats and cortains, corn selling at 70c and 69 1-2c for now. Malting barley is 85c to 86c, and feed 70c to 75c; oats, C.-W., No. 2, 46c; No. 5, 331-2c; Ontario oats, No. 2, 431-2c at country points, 46 1-2c here; peas, 81.6c to 81.0c bardward, oats, No. 2, 1-2c, and now sells at 70 1-2c. Oats, C.-W. No. 2, are quoted at 48 1-2c; No. 2, 4c to 44 1-2c; No. 2, local, 47 1-2c; No. 3, 46 1-2c; peas, 81.6c to 81.9c bardward, 81.9c b

HAY AND STRAW

HAY AND STRAW

Latest official returns of the English hay crop show that it will be 20 per cent below the average. The demand therefore for Caradian hay is unusually keen. The demand from local pionits in Ontario is also great and the hay market is on a very strong basis. No. 1 hay is quoted at \$15.50 to \$16; inferior, \$11 to \$12.50; baled straw, \$7 to \$8. The retail price of good timethy is \$18 to \$82, mixed hay, \$15 to hay at \$16 to \$17. No. 2, \$24 to \$15; and situation at Montreal is similar with No. 1 No. 3, \$11 to \$15.50.

POTATOES AND BEANS

The demand for potators for local con-

POTATOES AND BEANS
The demand for potators for local consumption is very strong. Dealers are paying \$1.30 a bag for Ontario potatoes on track here and \$1.59 out of store. Dela-

wares are quoted at a 5c premium. plies are scarce at Montreal. Mountains are selling at \$1.25.

Beans here are quoted at \$2.25 to \$2.30 for primes and \$2.35 to \$2.40 for hand picked. At Montreal three pound pickers are quoted at \$2.20. quoted at \$2.20.

EGGS AND POULTRY

EGGS AND POULTRY
Although there have been no further advances in wholesale quotations on eggs
there is a ctrong demand and a firm marthere is a ctrong demand and a firm the second of the second of

tall at 66c.

A surprising feature of the markets is the unusual weakness in dressed poultry for this season of the year. At since the poultry for this season of the year, at which the poultry for the poult

DAIRY PRODUCE

DAIRY PRODUCE
Dairy produce is strong the world over, and dealers are counting on firm prices for the next few months. They are now offering for dairy prints 25c to 25c; cream-ery prints, 25c to 31c; solids, 27c to 25c. In cheese, twins are quoted at 15 3-4c, and large, 15 1-2c.

HORSES

There is little doing in horse lines, and prices are unchanged. Heavy drafters are now quoted at 8500 to \$2.00: medium weight drafters, \$160 to \$190; agricultural horses, good, \$160 to \$2.25; fair, \$100 to \$150; express horses, \$175 to \$225; drivers, \$100 to \$150; serviceably sound, \$90 to

LIVE STOCK

LIVE STOCK.

The best grades of live stock are up 15c to 20c, although poorer stuff remains very much as it was. Butchers state that they already have enough ill-finished beef at hand to earry them through the Christmas season. What they are after now is first class animals for the Obristmas trade.

mas season. What they are after now is first class animals for the Christmas trade.

A week ago to-day receipts were small and prices showed an immediate advance of the control of the co

8576 to 86; calves, 83 to 812.
Buffalo Live Stock—Prime steers, \$7.65
to 88; shipping, 86.25 to \$7.40; butchers, \$5 to 86.25; heiges, \$7.50 to \$6.25; cevs, \$2 to \$5.25; heiges, \$7.07 kers, \$5.66 to \$6.40; heavy and mixed, \$6.40 to \$6.50; lambs, \$6.55 to \$6.55; ewes, \$3.75 to \$3.75.
MONTPEAL HOG MARKET

Mortreal, Saturday, Dec. 9.—The re-ceipts of live hogs this week were fairly heavy, but met with a good demand,

HOLSTEINS

GRADE HOLSTEINS

We have for immediate sale. Electhoice Grade Holstein Heifers, coming syears old.

The sire of these heifers is Prince Io Calamity 3rd, whose dam has an office ord of 19.2 lbs, butter in 7 days.

Prince Posch Calamity, "Bose Sanuer of the Prince Posch Calamity," Bose dame of the Prince Posch Calamity, "Bose Sanuer of Jays".

days.
These heifers are all bred to a pure bre. For further particulars, apply BESWETHERICK BROS., HAGERSVILLE, ON

HIGHLAND FARM HOLSTEINS AND YORKSHIRES Young Bulls, from six months to o

year, from High Bred Stock. Also, York shires, both sexes; all ages. PORERT CAMPBELL, POSENEATH, ON

Lyndale Holsteins

Offers two, young bulls born September, 1910, one of them from a tested daughter of Brightest Canary and sired by a so of a 30.36 ib. yearling daughter of Henger veld De Kol. EYN. ONT BROWN BROS.,

Cot of day by 4th 88

Tel

C

Korbro ting sist lbs. A two on.

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RIVERVIEW HESD

Offers bull calves from 2 to 10 mos. of SIRED BY KING ISEBELLE WALKE whose 5 nearest dams and sister average 30.18 LBS. BUTTER IN 7 DAYS and 115 bs. in 30 days from dams of likewis breeding, at exceptionally low figure, w J. SALLEY. LACHINE RAPIDS, OUR

AUCTIONEER My lifetime has bee Holsteins and selling Dairy Cattle. Has sold sales from the Atlantic to the Pacifi My experience is up to you.—ROBERT I HAEGER. ALGONQUIN, ILL.

Leslie Farm Holsteins FOR SALE—Two young bulls fit for serice, one from a 21 lb. four-year-old, the other from a 24 lb. cow. Both are goo individuals and have high testing dan on both sides. Write for further info

w. E. THOMSON, WOODSTOCK, ONI

LAKESIDE DAIRY AND STOCK FARM Offers two bull calves of 9 and months. Dam of 10 months call, half sier of Francy 3rd. Sire, grandson of Strah Jewel Hengerveld 3rd, a good straigh Bull calves and a few females, price worth the money.

F. BELL. BRITTANNIA BAY, ONI

BROOKSIDE HOLSTEIN FARM Grea descritfully marked Young is whose 4 nearest dams average 22.5 is whose 4 nearest dams average 22.5 is butter in 7 days. His site is a grade to the control of "Colantha Johan Lad"—80.00 bull. Several other choones, both sexes for saile Write for pagrees, photos and prices. W. L. LAMBKIN, FORDWICH, ONTAR

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GLENSPRINGS HOLSTEINS
from officially tested dams. One. .
by Inka Sylva Beets Fosch, is out
Lody Room Jersen, 12 De. butter in
3m. after calving. Another, sired
Count Gerben, brother of the wo
belle, averaged over 1.200 lbs. milk, m
twice a day for 5 consecutive years.
Here is an exceptional opportunity
Fig. 8, MALLONS. FRANKFORD. E. B. MALLORY, FRANKFORD, 02

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Fleming's Spavin Cure (Liquid) cures the lameness and removes such blemishes as are soft to the touch—Bcg Spavin, Curb, Thoroughpun, Capped Hock, Collar and Shoe Boils, and recent cases of Splint and Bone Spavin.

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OCK FARM 9 and 1 cali, half sis indson of Sa good straight males, prie BAY, ON

N FARM Young Bu age 22.5 lbs a grands est type of dam is sin' who carri tha Johan other choi rite for pe H. ONTAR STEINS

One, still, is out if ade with he uutter in 7 i er, sired by the world of Daisy Vermilk, milked re years. portunity b price. KFORD, ON

LSTEINS Prop. a son of Sting a grand and and Pos-25 lb. three

P and YORL

Manager

HOLSTEINS

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Sarcastic Lad, and grand-sons of Pietertje 22nd. Recently tu-berculin tested by a U. S. inspector. Write for pedigrees and prices.

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Bull calf born March 25th. 1911, sired by Count Hengerveld Fayne De Kol and out of flose Rettler, 24.9 Des. butter in 7 does Rettler, 24.9 Des. butter in 7 by the same sire and out of Suka Siyita 4th De Kol, 21 De. butter in 7 days and 68 De. butter in 30 days. Send for prices on these and several others equally good. Telephone. E. F. OSLER, BRONTE, ONT.

HOLSTEINS

WELCOME STOCK FARM HOLSTEINS

We have at the head of our herd King We have at the head of over St and have a seven-day record of over St and have a seven-day record of over St and daughters of Poutiac Korndyke, the only sire having two 37-lb. daughters, and granddaughters of Pieterije Hengerveld Count De Kol, in calf to a grandson of count De Kol, in calf to a grandson of ord stands unequalled.

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FOR HOLSTEIN BULL CALVES Bull call, born Feb. 2, whose four near-est dams average 27 lbs. of butter in 7 cow in Canada of her not make 20 its cow in Canada of her not make 20 its of butter in 7 days. Bull call born Jan. 10; dam, daughter of dam of number 2 calf with official record at 2 years and 15 days of 14,39 lbs. butter in 7 days. Also two-year-old stock bull. David Caughell, Yarmouth Centre. Ont.



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Home of Helbon Dekol, Canadian cham pion cow for 7 and 30 days, vis., 31.54 lbs lbs. butter in 7 days, 128.57 lbs. in 30 days. ibs. butter in 7 days, 128.87 lbs. in 30 days. Hard is headed by Dutchland Colantha fir Abbekerk, whose dam, Tdq Pauline Dekol, made 28.44 lbs. butter 7 days, and stre's dam Colantha 4th's Johanns 52.2 lbs. in 7 days, 1,547 lbs. in 1 year. We have the choicest young bulls we sever had confere. Better speak early if you want of the property of the choicest young bulls we sever had confere. Better speak early if you want of the property of the

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Sons of Pontiac Korndyke, sire of the world's record our Pontiac Clothide De Koi Ind. 37 02 lbs. hutter in 7 days. He be to the control of the second our pontiac Clothide De Koi Ind. 37 02 lbs. hutter in 7 days. He be to the control of the In DOLLAR.

HEUVELTON des of any week preceding date of the control of the contro e. H. DOLLAR.

and prices were well maintained, selected lots selling at 86.25 to \$5.50 a. cvt. weighed off cars. Dressed hogs are meet-ing with a good demand and fresh killed abhatoir stock is quoted at 89 to 89.25 a cwt. Country dressed are quoted at \$8.25 to \$8.75

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to 89.75.

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Montreal, Saturday, Dec. 9.—The market here for cheese has been very quiet this week, with scarcely anything doing, and the season of the season of

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(Continued from page 17)
DeKol 2nd. They have more white than
their dam and are excellent individuals,
showing dairy capacity with well shaped

showing dairy enpacity with well shaped udders.

They will be tested this winter and promise to make good records.

One of the finest matrons of the herd through the state of the finest matrons of the herd through the state of the state of

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