Issued Each Week-Only One Dollar a Year

VOL. XXVIII

NUMBER 7

## RURALHOME

PETERBORO, ONT.



A SUGAR CAMP SOON TO BE A SCENE OF ACTIVITY

The history of the maple sugar making industry in Canada has been one of steady advancement. From the crude methods employed by the Indians of old have been evolved the present day evaporator, tin buckets, and spouts, and the modern means of keeping the products of the maple pure and clean. The industry has lost most of its old-time romance and is now one of the profitable side-lines on many Ontario and Quebec farms, and in the Maritime Provinces as well. Read the article on page 3, written by Mr. G. A. Cottingham, of
Chateauguay Co., Que., whose sugar camp appears in the illustration.

DEVOTED TO

BETTER FARMING AND SANADIAN GOUNTRY LIFE

## Tried - Convicted Sentenced

AT THE COURT OF APPROVAL JUDGE PUBLIC Presiding

### The Trial

The

Verdict

After a jury of honorable dairymen, citizens of our own country, men that some of you will know, were selected, the counsel for the defendant asked to have the evidence of a large number and asked to have the crown of dairymen and their wives given to the jury, Judge Public consented. The placing of this evidence before the jury took considerable of the Court's time. After the counsel for the plaintiff had addressed the jury, they retired, and after due deliberation, brought in the following verdict, in which the judge heartily concurred.

FIRST-That the defendant was in no way responsible for the damage done to the reputation of the plaintiff.

SECOND-That the damages were caused by the extravagant claims made by the agents of the plaintiff.

THIRD-That the agents for LINK-BLADE Cream Separators have always told the truth and that the evidence shows that this is the only separator made, that does all that is claimed for it.

FOURTH-That false claims made by separator agents about their machines, have caused much damage to the reputations of their firms and no end of trouble to those farmers who purchased the machines.

The jury recommends that in future, persons desiring to purchase cream separators should write to the nearest agent of the LINK-BLADE separator and have a machine sent on free trial, as it is the only sure way of getting the best separator made.

### The Sentence

After the jury returned the verdict, the Judge expressed the opinion that if it were in his power he would sentence every separator agent, guilty of fraud, to a term in prison, and that the dairymen have done right to sentence some separators to the scrap heap for life.

## D. DERBYSHIRE & CO.

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MONTREAL and QUEBEC

WE WANT AGENTS FOR A FEW UNREPRESENTED DISTRICTS



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

### Drastic Action About Pedigrees

Drastic Action About Pedigrees
The directors of the Dominion Swine
Breeders' Association recently took
decisive action in regard to the statements published in Parken of the ConWoodstock, Ont. Our reason of Woodstock, Ont. Our reason of
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Association to deal with the matter.

At a meeting of the directors of the association, held in Toronto on Feb. 37, the article that was published in Farm and Dairy was read. The secretary and Dairy was read. The secretary of the Ar. Westervelt, read, also some occespondence that he had had with considerable of the secretary of

One of the directors present claimed that he had paid Mr. Thomson \$40.00 for some pigs last summer and that he had not received the pigs although they should have been delivered months ago.

#### ACTION TAKEN

months ago.

ACTION TAKEN

The view was freely expressed by the directors of the association that the association should deal with the matter. It was suggested that Mr. The should be written to, but the matter of the should be written to, but the matter of the should be written to, but the matter of the should be written to, but the matter of the should be a standard of the should be a should be

### Admires the Percheron

Editor, Farm and Dairy:—In recent issues of your paper, I noted with considerable interest several letters on Percherons vs. Clydesdales. Not having seen anything on this matter lately, I beg to add a few words to what has already been said in favor of the Percheron.

Percheron. I was particularly taken with what your New Brunswick correspondent, Mr. L. J. Flower, in your January 7th issue had to say of the Clydesdales when he wrote, "The Clydes we have here are, to my eye, no beauties, Many of them are abort necked, Roman nosed, and hammer headed." This has been exactly my view of many Clydesdales.

Percheron stallions imported into our district some 18 or 20 years ago left very few foals that lived to be two very few foals that lived to be two years old. If such were the case, it must have been due to the individuals rather than to the breed. It is emin-ently unfair to rate the Percheon breed from two or three individuals that have chanced to be of weak con-

breed from two or time maryanna breed from two or time that have enhanced to be of weak constitution.

The Clydescale is the horse for the country gentleman of leisure, one who country gentleman of leisure, one who has made his money and is not so particular about making ends meet, as one must needs be who is not so well there. To some the Clydesdale is well fixed. To some the Clydesdale is well fixed. To some the Clydesdale in the raise horse class it would not be raised horse class it would not be raised horse of enduring hard work day in and day for enduring hard work day in and day for enduring hard work day in and some of the leads, they are asked to hall. It seems they are asked to hall. It seems they are always ready for the work and if needs be they can take their load at a trot.

My experience with the Clydesdale has been quite different. It must be pamp-red, carefully fed and worked at a slow pace. Give him much fast with heavy loads and he is done for, with heavy loads and he is done for the statement in the statement is abundantly proven the statement is abundantly proven the class of the class and the statement is abundantly proven the class of the class of the class of the class and the statement is abundantly proven the class of t

ocrance of Percherons used as draught animals in American cities. The Cly-desdale had his inning at similar work in these cities. The test, however, proved too strenuous for him and the noble Percheron stepped up to fill his place.—T. R. James, Middlesex Co., Ont.

### Some Comparisons

Some Comparisons
Editor Farm and Dairy.—You are
treating the hog question seriously,
and you guite justified in so
doing. I have guite justified in guite
guite and germany paself, though
now a good many years
lived in perhaps the guite justified in
packing town in England. It would
take too long in one letter to write
one-tenth of what I would say in
ocurse of a speech, but I would say
a few questions and at same time suggest a few of the reasons why we are
benind others.

behind others.

There are several causes which work
against Canada. Our wretchedly bad
sgxisst Canada. Our wretchedly bad
sgxisst Canada. Our wretchedly bad
sgxisst of banking, the banks here
only cate for the man with his thousands, or if the town wants to borrow,
the bank is always ready to help
them, the ordinary individual is not
wanted

wanted.

Our very high freight rates, our system of land tenure, our unjust taxation on every imprount we make, our want of confidence in the control of the much away to Dutchmen? We want more co-operation, and greater facilities for obtaining money. In France the for obtaining money. In France on the formal state of the facilities of the faciliti

In Germany the railways belong to the government and you can send goods from one end of the country to the other, at the most moderate prices; think of sending a piece of pork or any other produce to Winni-peg for a few cents, say led lbs. for 8c. This would not be thought anything of in Germany, yet would surprise people, here.—David House, Lincoln Co., Ont.

Clydescales.

The argument is sometimes adThe argument is sometimes advanced that the Percheron is not a
paper, and I hope to try and extend
horse of robust constitution. Those
its subscription list in this settlement.

Who argue this point claim that the —W. N. Morley, Stratheon Co., Alta.

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FORMERLY THE CANADIAN DAIRYMAN AND FARMING WORLD

Vol. XXVIII.

FOR WEEK ENDING FEBRUARY 18, 1909.

No =

### THE MAPLE SUGAR INDUSTRY OF THE FARM

G. E. Cottingham, Chateauguay County, Que.

An Outline of the Industry, as it Exists To-day in those parts of Canada that Produce the Maple Tree, with Some of its Past History. Modern Methods and Equipment are Necessary in the Manufacture of a First-Class Article

HE Maple industry is an old and long established one. It had its origin with the Aborigines of Canada-the Indians who employed only the most primitive and of course wasteful methods. Later on the early white settlers, copying but improving on the methods of the Indians, began by making use of wooden spouts fashioned to fit the holes that they bored in the trees with an auger. The auger-hole took the place of the gouge in previous use. For recontacles, wooden troughs were roughly gouged out; some nearby basswood or pine tree furnishing the material. These served the purpose fairly well, but when the sun shone strongly on the snow on which they were laid, and melted it, suddenly over they would go, spilling the precious contents on the ground.

The gathering was mostly done by hand or by main strength and when the sap was collected it was boiled into sugar in large iron kettles, strung sometimes three or four on a large pole. On account of the great amount of sparks falling into the boiling contents of these kettles, and the fact that it was boiled altogether in an iron vessel, the result was that the finished product was often of a very dark and uninviting appearance.

As "commercial" sugar was rather a luxury in those days and money was proportionately scarce, the maple product supplied the wants of the settlers very acceptably. But, as those who had been making it in a larger way and who sold their surplus make, began to see the possibility of making their maple bushes a source of profit and an additional revenue to their farms, they began to look about for more improved methods of handling the sap. At this point we notice the passing away of much of the romantic part of the industry, where the young people of the settlement were accustomed to gather around the camp fire and enjoy to the full, the fun of the old-fashioned "sugaring off."

Then came the shanty or camp with its brick or stone arch and chimney and large pans and heaters, buckets of tin hung from metal spouts, more trees being tapped, gathering being done by horse and aleigh, syrup being manufactured as well as sugar. As a ready market was found for the product, the business rapidly grew until now we see in many parts of our country, especially in the Province of Quebec, large sugaring camps where the sap, from in some instances 6,000 to 8,000 trees, is rapidly converted into the delicious sugar and syrup of the most beautiful and attractive appearance and flavor.

This could never have been possible without the advent of the modern and up-to-date evaporators and appliances we now have. The business has lost much of the hard toilsome work as well as much of the "fun" of the antiquated system of the past generation.

The makers of the improved evaporators have only improved on the plan of the pioneers in the handling of the sap; but it is a vast improvement. In the old way the sap was poured into a kettle at one end of the row and dipped from one to another, gradually becoming stronger as it reached the end of the line. To-day we have tinned spouts, tin buckets, tin gathering tanks, storage tanks of the same material. The sap never touches



An Improved Covered Sap Bucket

Those who have them say that covers for their sap buckets are a valuable and an indispensable part of their equipment. Photo taken on the farm of Mr. Marcus Lee, Wentworth Co., Ont.

wood from the time it leaves the tree, the sap coming into the evaporator by the force of gravitation from the storage tank and gradually working its way by means of the same force from one compartment of the machine to another until at the far end of the machine it is finished and drawn off as the pure, beautiful and delicious maple syrup.

Owing to the fact that there is only a comparatively small amount of sap over the fire and that for a short time only, the result is a much superior article both in flavor and in appearance. No farmer who has a maple bush large enough from which to make enough syrup for home use should be without an ujt-be-date evaporator. Anyone who contemplates fitting up their sugar-bush should first get in touch with manufacturers of such machines who will gladly furnish them with full details of requirements, estimates of cost, etc. In my own bush, I have installed a 5 x 16 ft. Champion Evaporator, manufactured by the Grimm Mfg. Co. of Montreal, which handles very easily the sap from 1,000 trees and can take care of many more if necessary.

I have tried nearly every kind of spout that I have seen and have satisfied myself that there is none to compare with the improved Grimm No. 2. They will soon pay for themselves in the increased flow of sap. I doubted this until induced to try 200 and thus prove them for myself. I distributed them when tapping all through my bush amongst the others I had been using. I was so thoroughly convinced of the truth of the claims of superiority made by the firm, that the next season I used them to the exclusion of all others. Besides, I never have reamed out the holes as my trees are not the largest and I am always well satisfied with the amount of sap I get from the first boring.

The greatest drawback to the sugaring industry to-day—but one which I am glad to say is being gradually regulated by wise law—is the adulteration of the pure product which has been largely resorted to by unscrupulous dealers, and I regret to say, in some instances though not to any great extent, by makers.

Maple sugar makers can never hope to compete with other manufacturers of syrup and sugar in the open market nor do they need to do so. Theirs is an altogether different and superior article. It is the maple flavor that people demand and which they ungrudgingly pay for once they are satisfied they are getting a pure and unadulterated article. No one who has a good maple bush need be afraid to fit if up, as the demand for pure syrup always is equal to, if not in excess of, the supply and at fairly renumerative prices.

It costs much more now than of old to produce a gallon of pure maple sugar: fuel, labor, camp and all necessary utensils are so much more expensive. But let a farmer begin right, by purchasing the most approved, up-to-date outfit he can procure, attend strietly to every detail, make a strietly honest article, giving good quality, weight and measure, label his goods to show his customers he is not ashamed to have them know who made it, and that he guarantees the contents to be free from any adulteration whatever and he may feel assured that he will enjoy a ready and increasing demand for all that he can supply.

The total pure maple product at the present time is only some three or four pounds per head of the population. It should be more. As I have already noted, one great drawback to the industry is the amount of "compound" and adulterated stuff put on the market some of which has not a drop of pure maple whatever in it but is flavored with a preparation called "Maple Flavor." With this adulterated article bridled by suitable legislation, the pure maple product as manufactured by modern means in a properly equipped sugar camp would enjoy a wider reputation and be more early sought for by the consuming public, to the mutual advantage of both producer and consumer.

### Have a System in Horse Breeding\*

John Gardhouse, York Co., Ont. Our Canadian farmers lack a system of horse breeding. When I was acting as one of the com missioners, who some two years ago, investigated the conditions of horse breeding in Ontario, I found that very few farmers had any definite aim when breeding their mares. It seemed that where a man had a glib tongue he was able to get plenty of work for his stallion even when his stallion was inferior. The farmers showed a tendency to drift around from one type of stallion to another. Thus the colts were not as satisfactory as they might have been had better breeding methods been followed.

Before breeding his mare a farmer should have an ideal in view. As a rule farmers obtain better results from heavy horses. They have not the time that is required to make a success of light horses. Be sure you get the right type of stallion. The mare you breed should be a good animal. Some farmers claim that they cannot afford to keep high-class mares. Farmers can't afford to keep for breeding purposes such mares as are being bred on many Ontario farms.

To ensure success in raising horses it is necessary that both the mare, and the stallion to which she is bred, shall be good animals of the right type. It would pay many farmers to sell their poor mares, add a little to their sale price and purchase better animals. If better animals were bred and more system followed in breeding the average animal in the country would be worth one third more.

The average farmer should be able to keep two good brood mares. Before breeding them he should look them over carefully. If they are weak in any particular they should be bred to stallions that are strong where they are weak. Should they be slow walkers or have poor action they should be bred to stallions that are fast walkers and that have good action. Farmers should not listen too much to what the stallion owners have



A Good Kind to Own This prize winning Clydesdale mare shows the quity so much desired in Clydesdales. The property Donald Gunn & Son, Ontario Co., Ont.

to say. They naturally, are inclined to talk up the good points of their animals and to say as little as possible about their weaknesses. They are many men who travel stallions who know very little about breeding.

Farmers should study out for themselves the type of stallion they desire and not be induced to breed to anything else. It has been advocated that a law should be passed to compel stallion owners to guarantee a certain percentage of colts. It would be difficult to obtain such a law as there is no way of guaranteeing that the mares are sure breeders. It would not do to pass a law to benefit the farmers that would be unjust to the owners of stallions.

\*Report of an address delivered at the Ottawa Winter

### A Commission Would be Advisable

W. G. Telford, Peterboro, Ont.

The suggestion offered by Farm and Dairy that a commission composed of practical farmers be sent to Denmark to investigate the conditions of hog raising there is a good one. I have been much interested in the discussion that has since taken place in favor of this scheme.

The methods of raising hogs in other lands should be investigated right from the start of the business. Enquiry could be made into the cost of feeding, the price the feeders get, how the pigs are fed, how they are sold, whether they are graded or not and if so how an honest system of grading is worked out. Another item that would be of great interest to our hog raisers, would be to ascertain as near as possible what margin of profit packers in other countries are making.

A proper system of grading is one of the great needs of the swine industry in Canada. It is by no means fair to pay the same price for all kinds of hogs delivered at the packing house. By such a system, some get too much and others not enough. But do they? Is it not a fact that the man with the inferior hogs gets what they are worth while the man with the hog of first quality gets too little?

The packers lose nothing by grading. They have the home market to fall back on and they make good use of it in disposing of stuff that will not grade the best. They do not export this inferior product. Go to any shop in one of our cities and buy pork and what do we get? We pay from 18c to 25c a lb. for it, that is for the boiled ham, and I am much mistaken if this is not the product of the inferior hogs which would not do to ship abroad, and for which the packer pays 3%c or 4c a lb. Thus it would seem as though the packer makes a profit on such product in two ways, by paying too little to the producer and by over pricing the consumer. A proper system of grading honestly carried out on right principles would do much for our bacon industry and would encourage our farmers to breed the right type of animal.

The proposed commission, to be sent to Denmark, could investigate many things that would be of value to the hog raisers of this country. Among other things they could find how the producers in Denmark are made to supply their own factory. I understand they are fined if they do not supply their hogs to their own packing house. The whole trouble of the co-operative factories started in Ontario a few years ago, was that the farmers did not support them. The other packing houses combined against the co-operative concerns to put them out of business. We farmers did not recognize the folly of our action at that time, thus we crippled our own co-operative packing industry.

We farmers are inclined to go to extremes, to overdo things. By all means, let us not lose this pork business. There are other lines that we could take up, but we need the pork to fall back on and to keep up the revenue of our farms.

### The Value of Two Cows

N. S. McLauchlin, Huron Co., Ont. Regarding the discussion invited recently by Farm and Dairy on "How do you value a cow?" the comparison already given of these two cows s very incomplete and misleading, viz.:

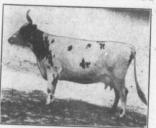
COMPARISON OF TWO COWS, SAME HERD (BOBOAYGEON) TOTAL YIELD OF MILK-SEVEN MONTHS The Most Profitable Cow

Weight of Milk		
Weight of Milk Weight of Fat Yield of Cheese	95 186	1
Value of Milk  Cost of Feed 7 months at \$3	95 00	
Profit		
Weight of Milk Profitable Cow. Weight of Fat 27	90	lb

7		, , , ,	2.5
	Yield of Cheese		979 1ha
	Cost of Feed (7	months at \$3) 82	7 90
	Profit		5 90

To this should be added, if we are to arrive at

thing like the following	conclusion, figures some-
Amt. to her credit 7 mo Probable amt. given, 1,000 Probable cost of feed	NO. 1. 8
Amt to credit, 7 mos Probable amt given, 500 lbs	NO. 2



Matchless Beauty of Nether Lea - 19601 -Qualified for Advanced Registry with 3 lbs. milk; a living proof that beauts a be found in the same animal. Owner anglier, Stadacona Farm, Quebec Co., Qu

However, this we think a very unfair way of paying for milk, i.e., "pooling" or paying by weight of milk only. If paid for according to fat content with 2 per cent. added to represent the casein value, the result would be somewhat as

00W NO. 1.	
6595 lbs. milk, 3.32 per cent. fat	Value. \$62 32 43 50
. Net Profit 12 mos COW NO. 2.	.\$18 82
3290 lbs. Milk, 3.94 per cent. fat	
Net Loss 12 mos	.\$ 8 90

Or. again, if paid for according to butter-fat content alone, which is the only fair way when butter is made, and we believe the most reliable even when cheese is made, the result would be approximately, viz.:

Cow No. 1.	lbs. fat. 208.95	Value \$59 81
	**** *******	\$16 81
Cow No. 2. % fat. 3290 lbs. Milk 3.94 Cost of Food 12 mos	lbs. fat.	Value
Net Loss 12 mos		9 6 70
T4		0 0 39

It may me shown that 43.50 is too high for cost of food and we believe it is. Where a study of relative values of various goods available is made, feed provided accordingly, and where cows are kept in proper condition the year round, these yields may be obtained at a cost of \$3 a month the year round or \$36 for 12 months. In that case the results would be:

Cow Cow	No. No.	1	Cost of food. #36 00 36 00	Profit. \$23 91 1 11
Cow	No.	2		

As to the value of a cow I have shown cow number 2 to have practically no value in a dairy herd, but rather (excepting under the most favorable conditions) a decided loss. I have done this without any desire to favor one or the other. The figuring out for each of the return of purchase price, with a reasonable amount for interest on investment, risk of loss, etc., is yet to be done. I will

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suit us, two acre it. We of all we price. In sel the heav is their

that caus years of clusion a varieties yielders, ularly so season le seed sele may hav leave this for the present, at least, to those who are in the market to buy or sell, and to those who may follow in this most profitable discussion.

To the Editor of Farm and Dairy I would say that you are doing a most important work in devoting the columns of your paper to such discussions. To the readers of Farm and Dairy I would say let us have a full and free discussion on these topics. I believe from a somewhat long experience in dairying that in cheapening of the cost of production lies our only hope of increasing the profits in this business. We cannot hope for much increase in values of the finished product, neither for the reduction of expenses in the way of manufacture, hauling of the milk, and the marketing of the product.

### Selecting and Cleaning Seed Grain

A. Forster, York Co., Ont.

When we consider the great advantages derived from sowing good, well cleaned seed, of some variety of good reputation for yield and quality, and one that is suitable to our land, and the purposes for which we wish to use the product, is it not well to procure it before seeding time? We have a good variety that has done well for us, it might not be wise to change, unless we are sure of getting something cleaner and better in other respects. What we have should be cleaned once or twice in the usual way, blowing it quite hard each time. We will thus take out most of the light grain and weed seeds. Then put it through a coarse screen (if for oats say a fall wheat screen) turn slower and give plenty of shake so that we may take out more of the small grains even if the screenings taken out should be 20 per cent, it will be all the better. The larger weed seeds also will then have a chance to go into the

If we have not already such seed as we desire to sow would it not be well to find out where it may be had, at a reasonable price? It is well to secure your seed in good time, either from a neighbor who can be depended on, some brother farmer who has taken the pains to improve the seed he offers for sale in one or more of our reliable farm journals, or from some responsible seed merchant.

We should never be led away by sensational reports of some so-called new varieties that wonderful yields and great quality are claimed for, by the promoter (a man from Idaho most likely) as in the case of "Polish or Corn Wheat." When enquired into it was found that the same variety had been grown for several years at the C.A.C. Guelph, and it had given a small yield of poor quality. The Alaska wheat is another example. It proved to be of the same variety as the sevenheaded wheat now grown at the college. Some of the elder people will remember the "Eldorado Wheat" boom of some twenty-five or thirty years ago when so many farmers lost heavily, for the wheat, although a fair yielder, was of poor quality and so soft in the straw that it could not well be

Having secured the variety that we think will suit us, we should procure enough to sow at least two acres or more if we have a suitable field for it. We will generally have no trouble to dispose of all we have to spare the next season at a good price.

In selecting oats we should bear in mind that the heaviest varieties are often not the best, for it is their formation rather than their good qualities that causes some varieties to be heavy. After many years of experience at the O.A.C., Guelph, the conclusion arrived at, was that in most cases those varieties that are the heaviest, are the poorest yielders, and are the thickest in the hull. particularly so with the white varieties. This coming season let us put into practice the principals of seed selection that we know to be the best, but may have neglected in the past.

#### Dairymen Need Ice

The milking of cows is regarded as a necessary operation by every dairyman. Storing ice should be looked upon as equally necessary. Many regard it as such, but, unfortunately, there are a few who either are not conversant with its advantages or cannot be "bothered" doing it. Such men as these are holding down the standard of Canadian dairy products.

To milk a good cow twice or three times a day is not considered a trouble, it is a part of the dairyman's daily routine. The abandonment of this operation would effectively block all revenues from the dairy farm. Negligenee in the matter of providing cooling facilities for the hot summer months will not eliminate the revenue from the dairy but it will greatly lessen it. Proper cooling insures a better quality of milk, consequently superior cheese and butter which will bring a brighter price than milk not cooled. And, unforunately, not only the negligent dairyman suffers but every dairyman suffers by reason of his brothers' sins of omission.

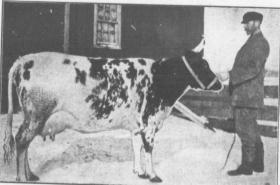
The two chief essentials in the production and care of milk are cleanliness and cold. The practice of storing ice is advocated here simply because the factors, cleanliness and cold, are not in evidence on every dairy farm. Milk as it comes from the cow is pure, containing only those bacteria that are natural to it. These and the foreign The use of ice improves the quality of the milk. But it has other advantages. The farmer has need for a refrigerator in his house just as much as his urban brother. The housewife requires facilities for preserving meat, vegetables and so forth. She might want to prepare a dish of ice cream or other delicacy to set before her husband after a hard day's work. These and many other things are made possible through the storing of ice. But don't forget the main feature. It enables you to keep the milk cold, thereby influencing the quality and price of the product made therefrom.

—S. H., Middlesex Co., Oht.

### A Rich Cream the Most Profitable\*

James Stonehouse, Kingston Dairy School

Patrons should endeavor to send a rich cream to the creamery. It should test not less than 35 per cent. There are three reasons for this: 1st. More butter can be made from a pound of fat in a rich cream than can be made from a pound of fat in a thin cream; 2nd, a rich cream under similar conditions will always reach the creamery in better shape and with a better flavor than will a thin cream. It is the serum or skim-milk in the cream that sours and goes off in flavor. Therefore, the less we have in the cream the better the flavor will usually be. 3rd. Skim-milk is estimated to be worth at least 25c a cwt, for feeding purposes; and some say more than that.



Adalia 2nd, shown in the illustration, gave in the Record of Performance Test a year ago, 9924 lbs. of milk, thereby standing first in her class. She dropped her second eaif on Per h. 19, 1908, and gave in the month of March 1605 lbs. of milk. She is owned by Mr. Emerson Cohoon, of Middlesex Co., Out.

germs that gain access to the milk after it is drawn and in proportion to the way it is handled, are inhibited in growth by proper cooling. Our best farmers realize the need for storing a supply of ice that they may have a means of cooling their milk in the hot summer months.

The expense incurred is no justification for dairymen not harvesting ice. The cost of storing 10 tons of ice is about as follows: Cutting, \$2.50; hauling two or three miles, man and team, two days, \$8.00; packing, one man part of two days, \$2.00; sawdust, including drawing, \$2.50 (good for several years); total, \$15.00, or about \$2 a cow. When the ice and sawdust can be secured nearer to the dairy, the cost would be lessened considerably. This cost is very inconsiderable, when the monetary benefits that result from the work are recognized.

The storing of ice is an important operation. Much ice is wasted through not being properly stored. Thirty tons of ice would require about 1,000 cubic feet of space—allowing for waste. It should be packed carefully, the spaces between the cakes filled with broken ice, or preferably building packed with sawdust.

In 100 lbs. of cream testing 20 per cent. fat and we have 80 lbs. of buttermilk and 20 lbs. of fat. Now 57 lbs for a 35 per cent. cream will give the same amount of fat and only 37 lbs. buttermilk, making a difference of 43 lbs. of skim-milk which is worth anywhere from 10e to 15e if kept at home; besides the cream is better without it and under proper conditions more butter will be made from the 57 lbs. of rich cream.

Many people have fallen into the habit of neglecting to wash their separators after each milking. The first milk and cream which runs through an unwashed separator is heavily seeded with the putrifactive germs which have been breeding and multiplying in the separator since the previous skimming.

Cream must be well cooled after skimming before adding to the older cream if we are to have a good flavor. If all cream could be kept at a temperature of 50 degrees F. until call d for, it would add, thousands of dollars to the value of the butter produced in Ontario. It could easily be done if farmers would only prepare for it.

\*Extract from an address delivered at the annual meeting of the patrons of the Harwood, (Ont.,) creamery.

### THE BEST LINIMENT

OR PAIN KILLER FOR THE HUMAN BODY

### Gombault's **Caustic Balsam** IT HAS NO EQUAL

For ing Human B Body no co

would say to all buy it that it does of poisonous substance and therefore no harm can result from its external use. Persistent thorough use will cure many old or chronic silments and it can be used on any case that requires an outward as p silcetion with perfect safety.

Reliable Remedy Sore Throat Chest Cold Backache Neuralgia Sprains Strains Lumbago Diphtheria Sore Lungs Rheumatism all Stiff Joints

A Perfectly Safe

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REMOVES THE SORENESS-STRENGTHENS MUSCLES Tex.-"One bottle Caustie Salaam did atism more good than \$120.00 paid in OTTO A, BEYER. ortor shills."

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It contains the concentrated experience of the ilons which this firm has spent in learning to a absolutely perfect calf food. The 50,000 farme is using Blatchford's Calf Meal today know its val Your name on a postal will bring this book.

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THOS. SOUTHWORTH,

HON. JAMES S. DUFF. Minister of Agriculture



IWRITE FOR CATALOGUES GOOLD, SHAPLEY & MUIR CO., LIMITED BRANTFORD, - CANADA

### A Commendable Herd Record

Ed., Farm and Dairy:-I have pleasure in enclosing herewith copy of the report of the milk record made by a herd of Holsteins and grade cows owned by Mr. E. Dennis, Newwarket, Ont. I am sure your readers will be interested in seeing their record for

YEARLY RECORD FOR 1908 E. Dennis, Newmarket, Ont.

Da.

1-Queen, Holstein, 3rd calf 7 mos. 12.49
2-Bird, Grade Holstein 11.439
3-Birdk, Grade Holstein 11.357
4-Grace, Grade Ayrshire 11.165
4-Grade, Grade Ayrshire 11.165
4-Grade, Grade Ayrshire 11.165
4-Grade, Grade Ayrshire 11.165
4-Grade, Grade Shorthorn 10.445
4-Grade Shorthorn 10.445
9-Mossy, Grade Shorthorn 10.149
9-Mossy, Grade Shorthorn 10.141
9-Mossy, Grade Shorthorn 10.141
9-Mossy, Grade Shorthorn 10.141
9-Mossy, Grade Shorthorn 10.141
9-Mossy, Grade Holstein heifer, 6.345
11-Queen 2nd, Holstein 6.355 ......115,462 Average J. H. GRISDALE, Agriculturist, C. E. F., Ottawa

### Lower Costs Increase Profits

"A great many people say that there A great many people say that there is no profit in dairying," said James Stonehouse, of Port Perry, at a creamery meeting held recently, at Harwood, Ont., "and in many instances wood, Ont., "and in many instances wood, Ont., "and in many instances they are right. There are some men whom it costs 20 cents a lb. for every pound of butter they produce. These men, if they would watch the cost of production, could watch the iction, could make a profit in ing. There are thousands of cows that are incapable of prodairying. ducing milk at a profit. They undersized, poorly bred and their milking qualities have never been developed. I know of a farmer in my section who has not got a cow in his herd with an udder as large as my head. Such cows came head. Such cows cannot produce milk profitably. A large proportion of our farmers keep such cows and wonder why they can't make dairying pay. Their factory returns do not average over \$30 a cow a year. It costs that

much to keep a cow.
"Such men, for the most part, are "Such men, for the most part, are those who do not read good agricultur-al papers. If they did they would see how cows should be kept and what they should produce and would set to work to secure an improvement.

#### ARE NOT GIVEN A CHANCE

"There are thousands of cows that "There are thousands or cows that are poor producers simply because they are not properly fed. Many farmers make the mistake of treating their cows all alike. They do not itself that they come that they come it is that every cow has its own individuality. That is why it happens so frequently that good cattle feeders are frequently that good cattle fee requestly that good castle feeders are able to buy good cows at low prices from farmers who do not recognize their values. Good care and judicious feeding have frequently doubled, trebled and quadrupled the value of dairy cows by giving them a chance to show what they were capable of in the production of milk."

Mr. Stonehouse showed the audience by means of the table, showing the composition of cattle foods, published on page 3 of Farm and Dairy for Jan. 21, copies of which were in the hands 21, copies of which were in the hands of the farmers present, that alfalfa hay contains 14.3 per cent, protein while wheat bran contains only 15 while wheat bran contains only in per cent. Alfalfa, he pointed out, is, therefore, worth almost as much for feed as wheat bran and it has the ad-vantage that it can be produced much more cheaply.

#### SILOS PAY

Corn is often the salvation of the dairy farmer. Any man who says after two years' trial that silos do not pay must have followed wrong methods. The most successful dairymen. both in Canada and the United States. both in Canada and the United States both in Canada and the United States | 1.—(a) Turnips should be sown on are agreed that the use of ensilage is one of the secrets of successful dairy manured either before plowing in the farming. In western Ontario farmers fall, or on top of the plowed land in are coming back to the sile again. Winter, or in the spring, and thorough. They have found that the blame for | ly worked in by disc harrow and culti-

the poor results they obtained from their siles was theirs and could not be charged to their siles because the their trouble arose through the siles of the corn sufficiently marked the corn it was put away. In other cases was not sufficiently tramped and the air was not excluded. Where siles do not give good returns the explanation not give good returns the explanation air was not excluded. Where shos do not give good returns the explanation may be found almost invariably in such reasons as those mentioned

### \*\*\*\*\*\*\*\*\* FARM MANAGEMENT

### Management of Clay Field

Management of Clay Field
I have a field of heavy clay in general
about 17 acres. I plowed it out of clover
a found the season of the season of the cloud of the c

ners, que.

On the field described it would, I think, be a mistake to sow grass and clover seed on the snow in the spring, hoping in this way to get a catch and a crop of hay this year. In my opinion the following would be the better plan. Apply as much manure as other farm requirements will allow. Apply this manure on pass, be fested with scrutch grass, b Apply this manure on parts not injoining infested areas. The parts most free from scrutch might be sown to a mixture of peas and oats, three but ad bushels per acre, equal parts by weight, to be cut green for hay. With the mixture sow clover and timothy seed, 10 lbs. clover, five lbs. timothy per acre. On the manured parts and the scrutch grass infested area sow corn in hills, three feet apart each way. Keep thoroughly cultivated all summer. After corn harvest, plow with a very shallow furrow or better still, run a plow along the corn rows, so ripping the corn stubble loose, then cultivate the field with a stiff tooth cultivate the neld with a still tooth cultivator and ridge up with a dou-ble mould board plow. Break down the next spring, sow to barley or oats, and seed down with 10 lbs. clover and and seed down with 10 lbs. clover and five lbs. timothy per acre. I would not advise your trying to grow al-falfa on such land. A gently sloping hillside of good rich loam is the place to try alfalfa.

The varieties of corn best suited for your district are Longfellow and lor your district are Longreilow and Leaming. I would advise about equal amounts of each. Sow one-half field to each sort.—J. H. Grisdale, Agriculturist, C. E. F.

### Raising Crops for Dairy Cows

I. I have about 120 arpents and since the cows have come from pasture, have been feeding them on hay, sirror been feeding them on hay, sirror corn (not in sio) and the amount of tall the side of the 1. I have about 120 arpents, and since

nuch.

5. How much of each to raise for the en cows, and the best way and manner ten cows, and the best way and manner to plant and to raise these plants.

4. Is there any fertilizer required, be sides the regular manure (the land not be-ing very heavy)?—C. M., St. B., Upton,

vator. The land should be ridged up vator. The land should be ridged up into drills about 28 to 30 inches apart, rolled lengthwise of the drills and the seed sown on top of the drills. If the land is very light it might be advisable to sow on the flat, but turnips sown on the flat are rather difficult to handle, especially during the first few weeks of their growth. I would suggest Purple Top Swedes as the kind to grow. kind to grow.

#### RAISING PUMPKINS

(b) Pumpkins will grow in almost any kind of land, and if corn is grown at all extensively, they will be found to do well when sown along with the corn, unless it is intended to use the corn, unless it is intended to use the corn harvester, when they are very certain to prove themselves a nui-sance. If it is desired to devote a piece of land to pumpkins exclusively, the following will be found a highly satisfactory method. Prepare land satisfactory method. Prepare land throughly, giving a light grain as from the form the first state of the fi kin seed at the rate of four or five seeds in a hill. Keep well cultivated until pumpkins cover the ground fair-ly well. Before planting the seed. ly well. Before planting the seed, however, it will be found profitable to make a small excavation about two feet square and six inches deep, where the hill is to be located. In this hole pack three or four inches of nice strong manure containing but little strong manure containing but little straw, cover with soil, three or four inches deep and sow the pumpkin seed right on top of manure

seed right on top of manure.

(c) Same treatment exactly will be found satisfactory for squash.

2. These seeds may be procured from any reliable seedsman, at Wrn. Ewing & Co., Montreal; Steel, Briggs & Co., and Wrn. Rennie & Sons, Toronto, etc. Toronto, etc.
3. For the number of cattle

5. For the humber of cattle you mention I would suggest about three acres of turnips, one-half acre pumpkins and one-quarter of an acre squash.

4. I would not recommend your using any fertilizer other than good barnyard manure.—J. H. Grisdale.

#### Rape for June Pasture

If I sow rape in the spring, would it come on and make pasture for young cattle by the middle of June? How much seed would you sow per acre broadcast?—W. E. R.

Rape sown broadcast at the of five or six lbs. per acre is likely to be ready for pasture six weeks after seeding, provided of course that a fair rainfall favors the growth.—

J. H. G.

### Marketing Baby Beef

At what age should cattle intended for baby beef be marketed and what weight should they be at that age, also about what price per pound should cattle of that class sell for live weight?—A. N., Port Elgin, Ont.

Cattle fed to produce baby beef may be made ready for the block at from ten to 24 months. If killed under ten months the flavor is not very beefy, it is in fact almost like veal. Of course in fact almost like veal. Of course the with the flavor. Baby beef animals abould flavor. Baby beef animals abould flavor. Baby beef animals abould the flavor. It is a supportant to the block. Such beef may be produced at from three to five cents a pound live weight, depending on prices and kinds of feeds and the skill of the foeder. In the writer's experience it foeder. In the writer's experience it must be for from five to six and one-will sell for from five to six and one-will months the flavor is not very beefy half cents a pound live weight and is likely to leave about two cents a pound net profit.—J. H. G.

QUANTITY OF HAY IN MOW .- Kindly inform me how to calculate the amount hay (tons) in a mow.—J. N. B., Canto Ont.

The quantity of hay in a mow or stack can only be approximately as-

certa settle from hay i a mo 350 20 x in th Rees T our vite inte pro

Fe

F Rat Will : cows f weeks bran, l ration posed of \$23 a t testing ton's of Dunham For gest th to go

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their ratio dale, Agri Feeding Editor.

dairy cow

nine year cheese fa ery was hood, I c cream to t ten month seven cows ing, I figur \$327.75 for the seven coisfied with cheese fact milk for th I always in the fall

As I have n feed my co feed clover mangels ar cows lots rater to dri tilated and am now feed ahead of ro I keep from certained by measurement. Of well settled timothy hay it takes about 350 cu. ft. to make a ton, partly settled from 400 to 450 cu ft. while settled from 400 to 450 cu ft. while settled from 400 to 450 cu ft. while settled from 500 cu. ft. and over. Thus a mow 20 ft. square by 14 ft. high 350 cu. ft. to a ton, would be 20 x 20 x 14 equals 5,600 cu. ft.; 5,600 divided by 350 equals 16 tons of hay in that particular mow.

### Receccecceccecceccec

The Feeders' Corner
The Feeders' Corner is for the use of our subscribers. Any interested are invited to ask questions, one will tensure vited to ask questions, and if received prompt attention.

### Ration for Freshening Cows

Wall you suggest a proper ration to feed cows freshening now. For the first two weeks I usually feed roots and a little bran, but I would like to get a proper ration for a dairy cow in all the room posed of corn meal at \$30 a.o., and Little \$23 a.o., testing from 41 to 43 protein, and Litting from 41 to 43 protein, and Litting from 41 to 43 protein, and Litting ton's oil meal at \$35 a.o., cesting from 41 to 43 protein, and Litting ton's oil meal at \$35 a.o., P. E. Dunham, Que.

For cows in full milk I would suggest the ration described below, cows to go on full feed not earlier than two and a half or three weeks after calving.

If roots can be fed, and along with If Foots can be red, and along with them clover hay and straw for rough-age, then one pound of the following mixture for each four or five lbs. of milk produced, would be satisfactory and profitable.

Cottonseed meal ... 150 lbs.
Oil cake meal ... 150 lbs.
Crushed oats ... 100 lbs.
Where corn ensilage is fed instead
of roots, then I would suggest the
following mixture, fed at the same
rate as above:

rate as above: 

mixture:

I suggest the oats in each case on account of their peculiar palatability. They are not, peace as chemical analysis shows, such cheep food assome of the others, such controlled they are particularly activated they are particularly activated they are particularly activated their ration more readily.—I H. Grisdale, Agriculturist, C. E. F., Ottawa.

### Feeding for Cream Production

Editor. Farm and Dairy:—For nine years I have sent milk to cheese factories. After a creamery was started in the neighborhood, hanged over, sending the cream to the creamery. For the first ten months at the creamery I had even cow I see how it was paying. I figured it up. The result was \$397.75 for the first ten months from the seven cows. I was far better satisfied with the creamery than with the cheese factory, and now I have the Editor, Farm and Dairy:-For

isfied with the creamery than with the cheese factory, and now I have the milk for the calves and the pigs.

I always stable my cows as early in the fall as chilly weather arrives. As I have no silo, I will explain how I fall a wow own during the winter. I feed clover hay, pulped turnips and read to the cows of salt and clean freshead to the consultation of salt and clean freshwater tritink. My stable is well ventilated and I clean it twice a day. I am now doing corn fodder and it is ahead of 10x for producing cream. I keep from 10 to 12 cows, having them freshen, some in the spring and

The matter of feeding cows is well suggested in the following from bulletin 22 of the Department of Agriculture. It save ture. It says: The milk contains water, iat, protein

The milk contains water, iat, protein ceasein, or curd,, sugar, and sh and these are all raude from the constituents of the food. If sufficient protein fat, and carbohydrates are not protein fat, and carbohydrates are not sufficient from hunger, although her beilty is fur of swale hay, but she also becomes not given the fat, and the sufficient fat, suf hake this cases tend out of the constituents in coarse, unappetizing, indigestible swale hay or sawdust any more than the farmer himself can make butter from skim milk.

make butter from skim milk.

The cow must not only nave a generous supply of good food, but it must contain suffice amounts of the nutrients needed for the first supply of good food and appreciated, successful, profits dairying is out of the question, but a profit of the first supply o

### Our Veterinary Adviser {

WORMS IN CATTLE.—My Jersey heifer, two and a half years old, has worms. How can I rid her of them!—Rex Hal-ton Co., Ont.

ton Co., Ont.

Take two oz. each of sulphate of iron, sulphate of copper, tartar emetic and calomel; mix and make into 24 powders. Give a powder every night and morning. In eight to ten hours after the last powder has been taken give a purgative of one lb. Epsom salt and one oz. ginger.

INDURATED UDDER AND TEAT,-Cow INDURATED UDDER AND IEAL OW had a sore teat last spring. The milk in this quarter became lumpy, but it milked all right. She's dry now and will be due to calve in April. The point of the teat and the quarter above the teat

some in fall.—George Wright, Ontario
Co., Ont.

are hard. How can I remove this hardness and prevent chunky milk?—P. B.
of the milk is due to inflammation
of the milk is due to inflammation. This hardening is very hard to remove. Make an ointment of two of the cow and milk regularly. If milk cannot be drawn from the total potassium mixed with two oz. vaseline. Rub the hardened parts well your veterinarian to operate.

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### Short Courses in Fruit Growing

A. J. Logsdail, O. A. C., Guelph

The second week of the short course in fruit growing at the Ontario Agricultural College began on Monday, Feb. 1st, and was in no way less day, Feb. 1st, and was in no way less interesting than that of the previous

Monday afternoon was devoted to a Monoay arternoon was devoted to a lecture and discussion of the injur-ious insects of fruits. Mr. T. D. Jarvis gave a short illustrated lecture show-ing the differences between the two great classes of insects, namely those that foul by obawing or biting their great classes of insects, namely those great classes of insects, namely their food, so that feed by sucking to the food of the feed by sucking the property of the feed of the bodies. Such an insecticide we nave in the lime-sulphur spray. Mr. L. Caesar also of he entomological de-partment then briefly discussed the best methods of dealing with many of the most injurious insects to fruit; from this discussion, much valuable

#### SPRAVING

SPRAYING
Tuesday was devoted to a general conference on the preparation and application of spraying materials. Bordeaux mixture was made up in barrel lot and its physical properties determined. Lime-sulphur was next made up in the following ways: 15 lbs. of sulphur, 20 lbs. of lime and 15 gallons of water was steam boiled for one hour then made up to 40 gallons; 15 lbs. of sulphur, 15 lbs. of lime and 15 gallons of water was boiled for one hour and made up to 40 gallons; and lastly lb lbs. of sulphur was made into a paste and then mixed with 20 lbs. of unsiacked lime over which two gallons; unslacked lime over which two gallons of hot water was poured, this was then

Reseaseseseseseses allowed to self boil for 40 minutes. A chemical analysis was made of these three combinations and it was found that the 15-20 formula contained about 13 per cent of calcium sulphide, the 15-15 formula contained about 12 per cent, and the self build year. cent, and the self boiled under 2 per

cent.
From these figures it will be seen that the two steamed boiled sprays were considerably stronger than the self-boiled, but the self-boiled it has been shown is much less liable to injure foliage and serves splendidly as a

summer spray.

Professor John Craig, of Cornell University, N. Y., gave a most inter-Professor John Craig, of Cornell University, N. Y., gave a most inter-esting lecture on the methods of applegrowing in British Columbia, and the states of Washington and Cregon. He states of Washington and Cregon the brought with him a new the states of Washington and Cregon. He had been also been also been always able to illustrate the thorough and careful methods of the westerness in handling their fruit. The thinning of fruit on the trees close grading, neat box packing being universal practices amongst them.

#### THINNING FRUIT ON TREES

THINNING FRUIT ON TREES

Mr. J. Gilbertson, of Simcoe, gave a
short address on the subject of thinning apples. The reasons he gives for
thinning apples are as follows: 1st, it
will give a good uniform grade of
fruit; 2nd, it prevents the trees from
bearing an overload of fruit, only half
of which will fully mature, and thus
much nourishment is lost both to the
tree and fruit; 3rd, it encourages the
formation of fruit buds by avoiding
exhaustion, thus obtaining regular
compacts and the compact of the compact o ormanion of But Dous by avoiding containing regular crops each year; 4th, because the greater facility of harvesting fruit that perater facility of harvesting fruit that has been thinned will pay entirely for the cost of thinning; 5th, because the fruit thus harvested will run about 85 to 90 per cent. first class. Mr. Gilbertson gave an instance of some Spy trees which he had thinned from which he picked 250 barrels, and of this number only 7 per cent. were seconds; that is only 7 per cent. were seconds; that is an entirely some of 83 per cent. firsts.

All the second of the control of the property of the property

rel of thinned fruit, whereas it had rei of thinned truit, whereas it had formerly cost him 30 to 35 cents a bar-rel just to pick and pack. Apart from this fact he now obtained a higher average grade of fruit throughout.

#### SHIPPING APPLES

SHIPPING APPLES

Professor Reynolds, of the O. A. C., gave u interesting account of experiments text had been earried on, in the long distance shipment of tender fruits: experimental carloads of such fruits were originally sent from Grimsby and St. Catharines. The St. Catharines Cob Storage and Forwarding Co., have since then developed a large business with the northwestern markets. All the fruit is pre-cooled and placed in freshly iced refrigerator cars, and sent direct to its destination, where it arrives in excellent condition. where it arrives in excellent condition.

#### PACKING APPLES

PACKING APPLES

On Thursday, a demonstration was given in the correct and improper methods of packing apples. Mr. Mc-Neil assisted by Messrs Thompson, Neil assisted by Messrs Messrs

not advise old barrel packers to take to boxes, for it seemed beyond the capabilities of most men accustomed to the use of barrels to get into the way of handling boxes correctly.

#### CO-OPERATION

On Friday a conference was held on the subject of "Co-operation." The

the subject of "Cooperation." The following well-known men were present: Messrs. J. E. Johnson, Simoce; P. Thompson, St. Catharines; D. Johnson, Forest; A. W. Peart, Burlington; Elmer Lick, Ushawa; each briefly giving the history and development of their several associations.

The Assignant Provincial Secretary.

The Assistant Provincial Secretary explained most clearly the advantages to fruit-growers availing themselves of



WONDERBERR

JOHN LEWIS CHILDS, Floral Park, N. W.

### HORTICULTURAL BOOKS

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the new Act dealing with Companies and Associations. He pointed out the fact that an association could be legally incorporated without the necessity of the property of the pr

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Mr. G. A Mr. G. A institute re of the pour He believed their profit in buying a would co-o their eggs, fresh, pack one package ments to the ceive the hi -operat

salvation of learn the m with his nei POULT TWO CENTS A

RHODE ISLA Comb. Single cockerels fro ported stock: ert J. Logan WHITE WYAN
Cockerels for
ning strain o
ners.—Robert
Ont

BARRED PLYM At Toronto In London, my than all oth Choice stock Let me know Freeman, Ont

The Ontario Branch of the American Poultry Association held its annual Poultry Institute at the Ontario Agricultural College, Guelph, from Feb. sth to Feb Ith. Although not largely attended it was a decided success. A number of amateur, as well as expert practical poultrymen and fanciers from the United States and Canada were present. They discussed freely and fully, without fear or favor the different questions which were brought before the institute. The Ontario Branch of the American different questions which brought before the institute

brought before the institute.

The morning and afternoon sessions were given over to the discussion of wear given over to the discussion of practical questions of viral importance to the poultry industry. Miss Yates gave her excellent demonstration in trussing and packing chickens for the market.

DISCUSSION ON WHITE DIARRHOEA DIRGUSSION ON WHITE DIARRHOEA Dr. Geo. Morse, from the Bureau of Animal Industry. Washington, D. C., gave an excellent address on "Diseases of Poultry," referring especially of White Diarrhoea. He has discovered a micro organism which is always associated with the disease and which believes causes it. Mr. Baldwin, and the mediant of the mediance of the property of

ial chairman of the meetings, believes that these organisms aggravate the disease, but that they are not the primary cause of it. Many interesting discussions ensued between these two.

C. K. Graham, of Hampton, Virsinia, gave an address on "Successful Poultry Farms." Victor Fortier, from the Control of t

CO-OPERATION AMONG POULTRYMEN

CO-OPERATION AMONG POULTRYMEN
Mr. G. A. Putnam in addressing the
institute referred to the evelopment
of the poultry branch of agriculture.
He believed that farmers
their profit in poultry by co-operation
in buying and selling, the farmers
would co-operate they could grade
their eggs, stamp the farmers
would co-operate they could grade
their eggs, stamp they could grade
their eggs, stamp they could grade
ince package, and ship daily consignments to the large markets and receive the highest prices
"Co-operation," he continued "is the
salvation of the farme. He must
learn the markets and work together
with his neighbor in producing a uni-

## POULTRY EXCHANGE

TWO CENTS A WORD, CASH WITH ORDER

RHODE ISLAND REDS, Single and Ross Comb. Single Comb Black Minoreas cockerels from prize winning and im-ported stock; 3150 and 32.00. Write Rob-ert J. Logan, North Glanford, Ont.

WHITE WYANDOTTES,—Eggs. Pullets and Cockerels for sale from the noted win-ning strain of H. Lush. Will make win-ners.—Robert Maitland, Fowlers Corners,

BARRED PLYMOUTH ROCKS exclusively.
At Toronto Industrial and Western Fair,
london, my females won morning.
Industrial other exhibitors combined.
Choice for sale; ergs in season.
Let me know your wants. Leslie Kerns,
Freeman, Ont.

POULTRY YARD the best markets. Co-operation has proven a boom to the fruit growers of Ontario. Why should it not be of the same value to the poultryment. Let the farmers then awake to their Computinging and uncome will proven opportunities and success will crown their honest efforts."

their nonest efforts."
Each evening an illustrated lecture
was given on some phase of the
poultry industry. These lectures
were largely attended by students of
the O.A.C. and Macdonald Institute
and were much appreciated by all.
—P. E. Angle.

### A Large Return from Five Acres

Probably one of the nost inspiring addresses for the farmer or farmer's son given at the Poultry Institute, at the O.A. C. Guelphi, last week, was delivered by Mr. Wilbur Bennett, of Peterbox Oth. He is a young man in a similar position to many other boys on the other power of the power of

boys on the Ontario farms, and is an example of what may be accomplished on the verage farm.

Mr. Bennett began in a small way three years ago with cheap buildings. He had not a small way three years ago with cheap buildings. He had go the years ago with cheap buildings. He had not not mature early enough. He orpingtons. He had so the work of the work

Peterboro.

From the sale of all the cockerels he makes sufficient to pay the cost of raising all his pullets. He ships his eggs to Montreal ones evec and has coceived as high as 80c, for them this winter. He aim to have this hatching all done by the ship has 80c, and May. About three hours a day spent with his poultry. The balance of the day is given to the general farm work.

acres of ground and from it he makes a profit of \$450 a year, or more than is made from the other 95 acres of the about five is made from the other 95 acres of the farm. Surely this is an encouraging report, and surely there are more farm boys who can follow his example.

### Succeeding with Poultry

The question of how to succeed with The question of now to succeed with poultry was very pointedly discussed at the recent poultry institute held at the O. A. C., Guelph, by Mr. McGrew, of Scranton, Pa. To succeed in any business a man must obtain as thorough an education as possible along. of scranion, Pa. To succeed in any business a man must obtain as thorough an education as possible abore the line he wishes to follow. Then particularly in the poultry business. He must have push and industry. Poultry needs constant attention 365 days in the year, and it must have the personal attention of the preprietor. The poultry business is not a get rich quick scheme.

The poultry business is not a get rich quick scheme.

Mr. McGrew claims that in incubation it is not necessary to turn the eggs completely over each day and that a better hatch will be obtained it will be contained in the complexity of the contained in the c

DOES YOUR POULTRY PAY? If not, Poultry POULTRY POINTERS, Box C, Farwell, Mich

#### CANADA'S CHAMPION BARRED PLYMOUTH ROCKS

At Toronto, 1968, we won let, 2nd and 5th sirds; lat, 2nd and 5th hens; lat, 2nd, ard and oth hens; lat, 2nd, ard and oth colorers; lat, 2nd and 3rd pullets. To the sirds are sired and some sired and some sired and some sired at \$5 each. 100 pul 2 each. 21 hens \$5 each.

JNO. PRINGLE, London, Ont.

#### Hatch Chickens by Steam on Hon" and moubators assure Well-built, reliab BEO. H. STAHL, Box 32 C QUINCY, ILL.

242 EGG STRAIN (Kulp)

BRANT PAULTRY YARDS, Brantford, Ont.

### Hamilton Incubator **Hatches Big, Healthy Chicks**

You cover find the Hamilton guilty of hatching deformed chicks, or allowing chicks to die in the shell. That is because the beating and remitating systems introduce the correct amount of life-giving oxygen and most systems in the egg-chamber—because the heat-regulating system is accurate to a free of a degree—because the disastrong are so simple



directions are so simple and correct. The Hamilton and correct. The Hamilton Incubator hatches every fertile egg. The chicks are so plump, healthy and lively they make the old hen jealous of the Hamilton. You can make a success of hatching chicks cess of hatching chicks hatching chicks the Hamilton Incupation. with the Hamilton Incu-bator, and just as big a success of raising them with the Hamilton Brooder. Send for our free booklet and get complete information complete information about the always suc-cessful Hamilton Incubators and Brooders.

The Hamilton Incubator Co., Ltd., HAMILTON, ONLANDO,

PARTMENT OF AGRICULTURE ONTARIO

## PROVINCIAL AUCTION SALES

## PURE-BRED CATTLE

(REGISTERED)

WILL BE HELD AT THE FOLLOWING POINTS

GUELPH, MARCH 3rd PORT PERRY, MARCH 11th, 1909

All Stock inspected before being accepted. Only good representatives of the various breeds will be offered.

## SPECIAL INDUCEMENT TO PURCHASERS IN ONTARIO

Freight Paid.—The freight on any animals purchased at these sales Freight Paid.—The freight on any animals purchased at these sales by residents of Ontario, shipped to purchaser's station in Ontario, will be paid by the Ontario Department of Agriculture. The original receipted freight bill containing the point of shipment and destination, name and registration number of the animal purchased and shipped, the estated weight for billing and the charged per cwt., should be sent immediately to the Live Stock Branch, Ontario Department of Agriculture, Toronto.

For Catalogues and particulars regarding the Sales, address the Secretary at the point of Sale, or make application to :-

LIVE STOCK BRANCH

ONTARIO DEPARMENT OF AGRICULTURE, TORONTO

### Canadian Forestry Association

Canadian Forestly (Associativity Taking an aere of white pine as a unit, Mr. E. J. Zavitz, of the Ontario Agricultural College, at the annual meeting of the Canadian Forestry Association held in Toronto last week, estimated that in 69 years a total expenditure of \$160.34 would result in a profit of \$250.68. profit of \$439.66.

profit of \$439.66. What has Canada really got in the way of timber? Throughout the papers ray of timber? Throughout the papers upon estimates made of the timber supply of the Dominion. This feeling was concretely expressed in a resolution asking the Dominion Government to appoint a rayed commission to see to appoint a royal commission to enquire into the whole matter.

Another important recommendation was that several provincial govern-ments, not already having done so, controlling Crown lands be requested to withdraw definitely from location to withdraw definitely from location all lands at present open for locations all lands at present open for locations are may be found on inspection, to be remainable for farming purposes and that no towns or settlements as yet last of the present of the canadian harbands are perfectly a depressed upon them that re-forestration has rendered it necessary to that no be per cent. of agricultureal last land as the per cent. of agricultureal contain last land as the perfect of agriculture in the depth of the St. Law-rence. In the depth of the St. Law-rence. In the depth of the St. Law-rence in the depth of the de

ble time to take off the merchantable Gibson, Hon. Mr. Tweedie, of New

In discussing what deforestration meant, the Hon. Sidney Fisher, Dom-inion Minister of Agriculture said that the general public should have the fact impressed upon them that re-for-

Brunswick, and a number of other leaders in the re-forestry movement.

#### Annual Meeting of Dominion Shorthorn Breeders

Lack of funds as the result of a considerable decrease in membership resulted in the Dominion Shorthorn Breeders' Association curtailing their grants to the various fairs and exhibi-tions at their synchronic

resulted in the Dominion Shorthorn Breeders' Association curtailing their grants to the various fairs and exhibitions at their annual meeting held in Toronto recently. The membership for 1908 was 1,512, whereas in 1905, it was 2,538. Sec. W. G. Pettit, of Freeman, Ont., showed that during 1908, there had been 7,038 registrations. 2,372 transfers, 480 duplicate and new certificates, and 1,512 membership fees 1909, and 1909, and 1909, there had been 7,038 registrations. 2,372 transfers, 480 duplicate and new certificates, and 1,512 membership fees 1909, and 1909, and 1909, there had been 1,512 membership fees 1909, and 1

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yourse, yourse, yourse, yourse, yourse, soo; British Columbia, \$50. The executive were empowered to distribute the Ontario donations as seemed to the control of the Columbia of the Columbia of the Columbia of the Columbia, and the Columbia of the Columbia, share. Sherbrooked the Maritime Provinces will go to the Maritime Provinces will go to the Maritime Provinces will go to the exhibition making the largest grants to Shorthorns.

The following officers were elected: Pres., Capt. T. E. Robson, London, Ont.; Ist vice-pres., Peter White, Pembrooke, Ont.; and vice-pres., Harry The Columbia, C

Washington, Ninga, Man; and John Isaac, Markham, Ont.
Delegates to exhibitions were selected as follows: Toronto—W. G. Pettit and Robert Miller; London—J. T. Gitson and C. M. Simmons; Ottawa—Peter White and A. H. Foster; Hall-rise and G. M. Simmons; Ottawa—Peter White and A. H. Foster; Hall-rise and Jas, Yule; Brandon—Geo, Allison and F. L. Fuller; Fredericton, N. B.—T. A. Peters and Jas, Yule; Brandon—Geo, Allison and S. Simpson; Regina—Geo, Kinnon and P. M. Bredt; Calgary—James Sharpe and John Ramsay; New Westminster—T. W. Patterson and Geo. Shannon; Y. Votoria—G. H. Hawden; Sherbrooke Vetoria—G. H. Hawden; Sherbrooke the Dominion Shorthorn Association in the Dominion Cattle-Breeders' Association. Delegates to the National Records Board are: Robert Miller, Harry Smith, A. W. Smith, Peter White, Hon. John Dryden, J. M. Gar'house and W. G. Pettit. Mr. Pettit was reappointed secretary, and R. G. T. Hitchman, of Ottawa, registrar.

## POTAS

Has absolutely no substitute as an ingredient of a co plete fertilizer for all farm, orchard and garden crops.

This important "Plant Food" can be obtained from all leading fertilizer dealers and seedsmen in the highly concentrated forms of

### Sulphate of Potash and Muriate of Potash

Write for full particulars and copies of our free publications, including:

"Fertilizing Orohard and Garden"
"Potato Croo in Canada"
"Fertilizing Root Crops and Vegetables"

"Fertilizing Hay and Grain Crops"
"Artificial Fertilizers; their nature and use," etc., etc., etc

### Dominion Offices of the Potash Syndicate

1102-1105 Temple Building, Toronto, Ont.

are everything that plas-ter, wood and wall paper are not.

Metallic Ceilings are fireproof, absolutely. Metallic Ceilings don't crack or crumble - don't get damp or mouldy-don't eed repairs.

Metallic Ceilings are farand-away the most eco-nomical building material you can put in a house. You don't believe it? We can prove it. Write us for the facts.

The Metallic Roofing Co. MANUFACTURERS

TORONTO AND WINNIPEG

Are you thinking of buying another farm in order to extend your operations and produce larger crops? You will find it beare in almost every way to build a new farm on top of the one you new have. Do not seek to farm more acres but make your land produce more bushels. If the farm you now have produces—say 38 bushels of oats per acre, instead of buying more land to get an additional 35-bushel yield, why not make the farm you have produce? To bushels per acre? You can do it.

Buy an I.H.C. Manure Spreader

It is the machine which enables you to take the ma-nure produced on the farm and in a few years fully double the producity power of your land.

It is the manure on the soil in the most away his by placing the manure on the soil in the most away has been a support plant ide.

It also makes them no support plant ide.

It also makes the manure of which is an in you steller.

It is manure surreaders are made in two stellers.

in any other way.

I. H. C. manure spreaders are made in two styles:

Corn King and Cloverleaf.

The of the return apron type.

Corn King and Gioverical.

The Corn King is of the return apron type.

The Corn King is of the return apron type.

The Corn King is of the return apron type.

The Apron on this machine affection to the minimum, even with the heaviest loade as friction to the minimum, even with the heaviest loade as friction to the minimum, even with the heaviest loade as friction to the minimum, even with the heaviest loade as friction to the minimum, even with the heaviest loade as friction to the minimum, even with the heaviest loade amount of manure to the regulated to bring the desired amount of manure to the regulated to bring the desired amount of manure to the test with the heaviest as equipped with long, square steel teeth with the heaviest as quipped with long, square steel teeth with the heaviest as deviced amount of manure to the result of the product of the result of the resul



oughly air-dried wood stock and put together in a very dur-able manner. There are three sizes of this machine: No. 2 small, No. 3 medium and No. 4 large.

The Cloverleaf also supplied with two leads to the apron—ratchet or double pawl worm deed. The bearer on this machine is constructed the same as the beater on the fine supplied with two leads for the apron—ratchet or double pawl worm deed. The bearer on the fine supplied to the same as the beater on the fine supplied to the beater, has steel wheels and a well made main firm fair predate is made in three sizes. On, 2 small, No, 8 medium fair, No, 8 street, It is very attractive, being well painted and a smmetrically designed.

### Many Excellent Features

It is impossible to describe all of the features of above machines in this small space. However, we have catalogs which illustrate and describe in detail the many excellent features of these machines. The catalogs are well worth procuring, not only because they describe the spreaders, but because they contain information on soil fertility.

Points that are well to bear in mind in connection with Points that are well to bear in mind in connection with these spreaders are that you can top-dress your fields and grow large crops of clover to turn under and enrich the soil, so that you may grow still larger crops and add to the soil's fertility. The y double the value of the manure, save much time and labor and greatly increase the value of your land by increasing the soil's fertility.

Any one of these machines will pay for itself in from one to two years, depending upon the amount of work you have for it to do.

Call on the International local agent and see about own-one of these manure spreaders. He will supply you with alog and full information, or write direct to nearest branch house.

BEANCHES: Brandon, Calgary, Edmonton, Hamilton, Lendon, Montreal, Ottawa, Regina, Saskatoon, St. John, Winaspeg. International Harvester Company of America, Chicago, U. S. A. CANADIAN BRANCHES: Brandon, Calg ary, Edmonton, Hamilton

### Ontario Fair: Association

Ontario Fair: Association held one of the most successful conventions in its nistory last week in Toronto. Supt. J. W. Lockie Wilson's report showed that the progress made by the fall fairs last year had been most marked. It was, he stated the most marked supplementally and the history of the agricultural societies of Ontario. Gate receipts showed an increase of Gate receipts showed an increase of or the agricultural societies of Ontario.

Gate receipts showed an increase of
50 per cent., and the number of exhibits showed an increase of 40 per
cent. over any previous year. The
secretaries were doing better work and
forwarding their reports more year. orwarding their reports more promp-

Educational work was being kept to Educational work was being kept to the front. Forty-seven societies took part in the field crop competitions part in the field crop competitions last year, 350 farmers entered, and 6000 acres of land were under cultivation in producing these crops. There was larger demand for the seed from the prize winning crops than could be met. Oat seed sold as high state of the competitions would be continued and we would be continued and we would try to secure an increased grant.

WARNING TO SOCIETIES Mr. Wilson took occasion to warn ome societies that had been allowing some societies that had been allowing gambling devices on their grounds, that they would lose they that they would lose that they would lose that they would lose that they make the first such practices were allowed growing. Besides, the direct some contained the such practices are the such properties of the such propert tall the Canadian National Ex-hibition will give prizes for grain in the sheef from these competitions and the Pepal grain will pay all transpor-tation the second of the properties of the these exhibits to Toronto. He advised societies that the providing the providing as an educational feature. Mr Wilson thought that government of the providing insurance against wet weather at fairs. A fee done towards providing insurance against wet weather at fairs. A fee of \$5.00 from each society would form a sufficient fund to make up losses in receipts from this cause in any ordinary year. The executive will take the ...atter pad report upon it at a future meeting.

WANT INCREASED GRANT

The convention was unanimous in The convention was unanimous in asking for an increased grant for agricultural societies, and waited upon the Government in a body to present their claims. Some difference of opinion was expressed at the convention as to how an increased grant should be apportioned. Scieties which have be apportioned. S. cicties which have gone to the expression of erecting suit-able buildings for "thittion purposes, ask that a large "tion of any in-creased grant be siven to societies which have expended more societies, have no buildings objected. It was pointed out that any increase to locicities for building subjected. It was pointed out that any increase to societies for building purposes, would not lessen the grant which societies that have not gone to any expense in this regard, are now recipile. The Association is asking that the grant to agricultural societies be increased from \$70,000 to \$100,000 a year.

The meeting passed unanimously.

Nitrate of Soda

NITRATE SOLD IN ORIGINAL BAGS

### The Nitrate Agencies Company

Toronto, Canada

Orders for All Quantities Promptly -Write for Quotations resolutions urging upon the Dominion Parliament the need for protecting level crossings on railways and upon the Provincial Government the need to potter police protection in rural districts. It also expressed its approval of the proposal for law reform now under consideration by the Attoney-GOPPICERS ELECTED

#### OFFICERS ELECTED

Officers were elected as follows: preaident. H. J. Gould. Uxbridge; latident. J. Gould. L. Leclect. H. J. Gould. L. Leclect. H. J. Gould. L. Leclect. H. J. Lect. H. Lect.
L. J. T. Murphy. Simoes; Robt. E.
Cowan, Galt. J. W. Sheppard. Cayuga;
John Farrels, Forest; R. H. Leary,
John Farrels, Forest; R. H. Leary,
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Lect. L. Lect. Lect. L. Leary,
L. Lect. L. Leary,
L. Lect. L. Leary,

vale.
Auditors: R. Agnew, Meaford; Wm
Collins, Peterboro.

### Bedford District, Que., Dairymen

"The apparent aim of the Quebec farmer is to get his cows through larmer is to get his cows through the winter on the least possible fodder," said Mr. J. H. Grisder, Agriculturist at the C. E. F. Ottatan, Agriculturist the annual convention of the Bellon District Dairymen's Associated in the condition and thus the average annual production per cow is kept down to 2500 lbs. instead of 6,500 lbs. as it should be." Mr. Grisdale pointed out that the increase of quantity of milk that the increase of quantity of milk was the only factor under the control of the farmer, who does not, in the quantity of the farmer, who does not, in the quantity that the increase of quantity of milk was the only factor under the control of the farmer, who does not, in the of the farmer, who does not, in the least, control the price of butter. This least, control the price of butter. This served to emphasize the importance of feeding, for the speaker showed that a good herd poorly fed was not so pro-fitable as a poor herd well fed. This feeding is actually more important

argon a good herd poor red was not so progitable as a poor herd well fed. Thus
defined in a second was a poor to be dedefined in a second was a poor to be
than breeding.

The matter of the adulteration of
cattle feeds was discussed by Augustus.
Hayes, of West Shefford; Geo. P. England, of Dunham, and A. A. Ayer, of
m. Montreal. The general trend of the
siscussion by these gentlemen and by
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resolution to reduce the additeration
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VENTILATION IN STABLES

rice of her ration. In STABLES

The best methods of ventilation of stables was dealt with; the King system and the Rutherdord system were fully described and commented upon. It was pointed that ventilation requires a current and circulation requires a current and circulation requires a current and circulation to the floor in order to get the best results. The King system is and air make its exit from the edge and bad air make its exit from the floor in order to get the best results. The King system is a satisfactory in a new barn but is difficult to establish in an old building. The Rutherford system is cheaper and just as satisfactory.

Four years ago, a cow testing association was organized at Cowansville by C. F. Whitley, who was the next speaker. It had been a success and had along a cow with the started with an average of 4,500 lbs. of milk per cow (Continued on page 20)

(Continued on page 20)

## FENCE TALK No. 5

Page Fences have "high-carbon" horizontal 9-gauge wire.

Other fences have only "hard drawn" wire.

High-carbon wire is harder, tougher, and far stronger-from a third to a half as strong again-stands 2,400 lbs. strain-test.

Hard drawn wire is softer, is weaker-stands but 1,800 lbs. strain-test

Page Fences, because of this extra strength, have ample spring in reserve to hold a long panel tight and sagless with fewer posts by a third.

Other fences thus lack springiness, need three posts to Page Fence's two and then sag and

Page Fence uprights are fastened to horizontals by a positive lock, clinched so tightly as to make a solid joint that cannot work loose nor slipeven under the severest strain. But the intersecting wires are not injured.

Other fences half-fasten the crossing wires together with a mere twist of wire that will slip. Some use locks that dent and weaken the wire.

These are the reasons why Page Fences cost less and wear best, because they need a third less posts and a third less labor to erect, and yet make a tighter, sightlier, sag-proof and more enduring fencing. Go by the book-it tells all about every style of Page Fences and shows how to prove fence-value before you of Page Pences and shows now to prove tence-value before you have Ash for it (it's free) from Page Wire Fence Co., Ltd., Walkerville, Toronto, Montreal, St. John, Vanconver, Victoria.

## "PAGE FENGES WEAR BEST"

## Great Dispersion Sale

At Annandale Stock Farm

ON THURSDAY AND FRIDAY, MARCH 11 AND 12, 1909

100 Registered Holsteins and Ayrshires 100, 20 Brood Sows and 20 Shoats, 2 Boars, heavy and light horses, farm machinery, etc.

Absolutely everything goes as the owner is retiring
THE HOLSTEINS. — There is one daughter of Calamity Jane. one daughter
of Calamity Jane 2nd. 2 to the get of Prince Pouch Calamity, son of Calamity
Jane, 23.1 bs. butter weeke get of Prince Pouch Calamity, son of Calamity
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their set and cows with ealf to their service.

AYRSHIRES include the graphers. There will be 13 Ayrshire cows and all that are in milk are entered and their sons and district that are in milk are entered and their sons and that are many good young things. The set Record of Performance, and there we milk in 10 months and of Stadacons who who adm's record is 1273 to milk in 10 months and of Stadacons which whose dam 'fully' and milk in almeda' are in the R. of P. the latter record is 1137 lbs. others. Catalogue tells all about them.

THE HORSES include a 'Upde mark. Evers old, weight 1700 lbs with feeth.

THE HORSES include a Clyde mare, 8 years old, weight 1710 lbs. with an of Hackneys, two and three years old, Al work horses, used to

ALL THE FARM MACHINERY. Potato cutter, planter, sorter, sprayer an alger, upright boller, 6 H.P., two grain choppers, having and grain harves hilches: escept for fast work and labor saving implements. In and four horse thickness are potatoes, clover seed. Everything, in and four horse in the sain addressed by able speakers. In he held in the opera house night seens will look after your comforts. The mayor and a committee of cit TERMS—THE ME IN TERMS—THE WAS EAST.

seas will now after your commun.

TERMS—Time up to one year to suit purchaser, on approved notes bearing
six per cent. interest. Sale of stock under cover. Sales commence at 1 p.m.
tith, and 9 a.m. ith March. Cattle will be sold on the 12th; everything else
on the 11th if possible.

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Col. D. L. Perry (The Only),
Columbus, Ohio
L. G. Pearce, Tillsonburg

Catalogues by 26th February. Write:-GEO. RICE, Tillsonburg, Ont., Proprietor.

desirable to mention the name of this publication when writing to advert

AND RURAL HOMB

Published by The Rural Publishing Com-CONTRACTOR OF THE PARTY OF

FARM AND DAIRY is published every Thursday. It is the official organ of the British Odiumbia, Manitoba, Eastern and Western Ontario, and Bedford District Queboe Dairymen's Associations, and Jer-sey Chandian Holsrein, Ayrshire, and Jer-sey Chandian Holsrein, Ayrshire, and Jer-sey Chandian Holsrein, Ayrshire, and Jer-

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6. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles.

CIRCULATION STATEMENT

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The platibin-advance subscriptions to
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OUR PROTECTIVE POLICY

want the readers of Farm to feel that they can deal with Dairy to test the rebreaders of Farm and advertisors with our on east with our order of the rebreaders of the rebreaders reliability. We try to admit to vertisers only the most reliable and research of the rebreaders of the rebr

FARM AND DAIRY PETERBORO, ONT.

TORONTO OFFICE. Room 306 Manning Chambers, 72 Queen St., West, Toronto.

### FUTURE TIMBER SUPPLY

Recent expert investigation of the problems of our future timber supply emphasizes the fact that the next generation will be considerably limited in the sources of timber supply; that there will be an increased percentage of lumber of poorer quality used; and that there will be a steady ad ance in the price of forest products of all kinds. It is the duty of our government to do what they can to alleviate as far as possible the timber scarcity that, in the course of time, is bound to come.

It is not enough that we conserve our present timber supply. Action should be taken to encourage private owners to take care of their wood lands and a progressive policy should be launched for the re-foresting of bers of the farmers' clubs that have many waste areas known to exist in been organized already, affiliate with

has been shown to be both practicable and advisable. These waste tracts of non-agricul-

tural land, consisting for the most part of drifting sands, are to be found in large tracts in Lambton, Simcoe, Norfolk, Northumperland and Durham counties. A start at reforesting these areas has already been made in South Norfolk County. The beginnings of a provincial forest reserve should be established on these other areas as well. From its geographical position and from its proximity to a railroad these waste areas in Durham and Northumberland Counties offer bright possibilities of establishing a successful forest reserve. The next forward move, towards re-forestry in Ontario, should be made in connection with these latter areas, and it should be made at an early date.

#### FARMERS' CLUBS

At the banquet held recently in Toronto by the members of the Canadian Holstein-Friesian Cattle Breeders' Association, Mr. G. A. Putnam, Superintendent of Farmers' Institutes, made the important announcement that the department has been organizing farmers' clubs at the rate of six or seven a day for some months past and that the number of clubs already formed is about 250. This shows plainly how anxious the farmers of Ontario are to organize. The Department of Agriculture deserves credit for recognizing this fact and for having arranged to assist the farmers to organize.

There is, however, one fundamental weakness about these farmers' clubs. Because they are organized by the department, the department has found it necessary to stipulate that members of the clubs must not discuss certain questions, including political subjects. In taking this stand, the department is acting wisely. At the same time, why should farmers have to wait for the department to help them to organize. Farmers' clubs to be truly successful, should be absolutely independent of every government. Their members should be free to discuss any subject that they consider to have an important bearing on farm matters. For instance, if farmers think that railways are not sufficiently taxed, they should be at liberty to discuss any proposed legislation dealing with such a subject.

What would we think if the members of the Labor Unions in the cities, in order that they might get a small government grant, amounting to only a few dollars a year, agreed not to discuss certain subjects stipulated by the government. The members of the Labor Unions value the liberty of speech too much to consent to any such restrictions. They prefer to be free and to raise the funds they require to finance their own organizations. We, as farmers, should be equally independent of every government. We should have our farmers' clubs and we should finance them ourselves. We would like to see the mem-

and they would then have the priceless boon of freedom of speech and the benefit of being connected with an that they otherwise would. organization that, for many years, has represented the best interests of the farmers of Canada.

### THE MAPLE INDUSTRY

Possibly no other industry upon the farm has survived and reached such a high plane of development purely on its own merits, as has the maple industry. To our early settlers, the maple tree was their readiest means of obtaining that household necessity, sugar. Such conditions, however, have long since passed and to-day the products of the maple rank as luxuries rather than as necessities. This being the case, it is to the one who can afford luxuries that this industry must look for a market, both now and in years to come.

In the earlier days of the more modern methods used in the production of maple syrup, consumers thought that the article was not as good as that made formerly. In fact many expressed themselves that this new product must be adulterated for it lacked the dark color and the rich. strong flavor of the syrup they had formerly bought.

This stage of the industry has also well passed away. The consumer, once having tasted the delicate maple flavor of the fine products turned out from the well equipped sugar camp, will have no other. In a word he has been educated up to the highest standard set by the best products. Such he demands and for it he is willing to pay the price.

To produce a gallon of syrup is an expensive business at the best of times, as those who have made it know. It is worth all one can get for it. The romantic part of the industry has for the most part ceased to be. Sugar making and the production of syrup has come to be a business proposition and as such it should be recognized. It should be the aim of all to produce a high-grade product and that which will command the best trade and the topmost price.

### FIELD CROP COMPETITION

The Ontario Department of Agriculture has launched a commendable scheme for the improvement of farm crops in the province in the inauguration of standing field crop competitions. The interest taken and the results to date, as shown by the exhibits of the prize-winning grain at the Winter Fairs at Guelph and at Ottawa are ample proof of the great value of this work. One draw-back to the work in the past has been that the competitors, through their agricultural societies, have not been informed about the competitions early enough in the year to enable them to prepare seed specially for these competitions. The competition was announced so late last year that it was necessary to enter fields already sown.

The Department should let agricultural societies know early in the year whether or not they are going to be

select their seed and give the attention to the preparation of the land

Many that took part in the competition last year, simply entered fields that they had sown without any thought of competition. Their crops were of necessity not nearly as good as they might have been. The East Peterboro Society was one of those thus handicapped last year. This society is willing to enter the competition again but as yet this society as well as others, does not know whether the department will allow the same societies to hold a competition this year as well as last. Thus they are unable to warn would-be competitors to prepare for the competition.

The advisability of holding these competitions has already reached a point beyond discussion. Let us have them by all means and let the members of all agricultural societies know of their opportunity in time, that they may arrange to make the best use of it by preparing their seed and their land especially for this competition, and thus raise even the high standard that has already been reached.

#### AN INDICATION OF FINANCIAL CONDITIONS

Each year the review of the financial conditions in Canada as given by Byron E Walker, the manager of the Canadian Bank of Commerce, is looked forward to as an accurate indication of the financial conditions of the country. Its completeness of detail is one of its strongest features. As published in our issue of January 28th, it is well worth careful study.

It is hardly necessary to point out that the conditions of business to-day are very different from those of a year ago. The difference is felt on every hand. A year ago the banks were required to meet the serious lessening of our purchasing power because of poorer crops. To the excellent harvest of last year can be attributed the present favorable outlook in the financial situation.

This is shown clearly in Mr. Walker's report. The Canadian Bank of Commerce, with its many branches in all parts of the country is a national institution of which Canadians may well feel proud. Its immense resources and its numerous branches in all parts of the country played an important part in steadying financial conditions in Canada when the panic of a year ago was so apparent in the United States.

The suggestion made recently by Farm and Dairy that a commission of practical farmers and hog raisers be sent to Denmark to investigate conditions in connection with the hog industry there continues to receive indorsement by our readers and others. The article by Mr. W G. Telford appearing elsewhere in this issue contains food for thought. There is possibly no one thing that has militated more against the hog industry than the lack of a proper system many waste areas anown to easist in been organized aiready, aminate with a late to hold the standing crops com-ontario. These have been described the Dominion Grange. Their useful- petition. Unless they know at an early in Farm and Dairy. Such a policy ness would then be greatly extended date the competitors are unable to try is a problem. Grading has been

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ing dairy mitted to W. F. S Professor versity of and his perience herewith

Q.-Hov ing dairy mals are i A.—Over Q.—Do perience t

jured from over-fat w A.—Yes, even if the ing and ty growing a lowing the Q.—Are especially Are

tion A.—Yes. carbonaceo Q.—State heifer up first calf? A.—New

turning gra mixed hay crushed oa to be fed in quarts to 1 twice each months old. roomy box shady past roots or si winter feed and winter calf. Avoid

Q.-How wished to

worked successfully in Denmark in connection with their bacon industry. This would be one of the most important things that would stand investigation by the proposed commission.

#### Special Magazine Issue of Farm and Dairy

(Lindsay Free Press, Daily)

Farm and Dairy and Rural Home, the excellent farm journal, published at Peterboro, is always interesting, always helpful and always pleasing. The issue for Feb. 4th, however, is specially attractive, both as to its matter and the beautiful presentation of the same. The issue is a magazine issue, and the illustrations, the color work and the special articles, not to mention the extra pages, make this issue a particularly pleasing one. It is the intention of Farm and Dairy to issue eight of these magazines during the year, and if they keep the others up to the high standard of this number they certainly will have reason to continue to hold the highest place in the esteem of progressive people on farms who desire helpful literature in attractive form. Farm and Dairy is an undoubted influence for better farming and for the advance of Canadian country life generally, and the paper is also a credit to its publishers and a delight to all readers

### Raising of Dairy Cattle

The following questions concerning dairy cattle were recently submitted to our associate editor, Mr. W. F. Stephen, by C. H. Eckles. Professor of Dairy Husbandry, University of Missouri. The questions and his replies taken from his experience with Ayrshire cattle are herewing given:

Q.—How long have you been breeding dairy cattle, and how many animals are included in your experience?
A.—Over 30 years; possibly 300 to

Q.—Do you believe from your ex-perience that a dairy cow may be in-jured from being allowed to become over-fat when young?

A.—Yes, injured beyond recovery, even if they are of good dairy breeding and type. Keep the young stock growing and developing but not allowing them to fatten.

Q.—Are there any feeds that should specially be avoided in this connec-

A.—Yes, corn-meal and all highly carbonaceous feeds.

Q.—State briefly how you feed a heifer up to the time she drops her first calf?

A.—New milk for two or three weeks the gradually to the milk of the same and the

A.—New milk for two or three weeks turning gradually to skim milk at end of third or fourth week, add sweet of third or fourth week, add sweet of the state of th

Q.—How would you proceed, if you wished to develop especially large animals?

A.—Feed well when young especially, a choice quality of roughage also bran, oil cake meal and crash see that the same time care must be exercised not to overfeed and injure the digestive organs of the "baby cow."

Q.—Does heavy feeding when young result in a larger cow or earlier maturity than light feeding?

A.—Yes, decidedly so.

A.—Yes, decidealy so.

Q.—Does your observation indicate
that the liberal feeding of roughage
while your helps to develop a
strong digestion?

A.—Yes, only by that method can a
dairy animal be properly developed.

Q.-What effect has age at first calving on the dairy qualities of the cow

when mature?

A.—The earlier they can be brought to milk consistent with maintaining constitutional vigor, the better will the daily capabilities be developed.

constitutional vigor, the beater winth daily capabilities be developed.

Q.—What effect has age at first caiving on the dairy form or dairy type when the cow is mature?

A.—If they freshen too early in life they will have that debilitated appearance indicated by the ewe neet, lack of vitality and small size. If freshened at about the right time these will be absent. If allowed to become too old they will have that become too old they will have that become too old they will have that produced the standard of the latter stamp, if they are from a good milking family they may produce offspring with greater vitality.

Q.-Do you consider it desirable to have dairy heifers mature at as early

have carry neuters mature at as early an age as possible?

A.—Yes, in nearly all cases, although one must be guided largely by the individuality of the heifer. At from 30 to 34 months they should

Q.—At what age on the average, do cows of your breed reach their full size?

A.-At from 6 to 8 years

A.—At from 6 to 8 years.
Q.—At what age, on the average, do
the heiters first come in heat?
A.—At from the top of the heiters first come in heat?
A.—At what age do prefer having your heiters drop you prefer having your heiters drop you have and why this particular ages and
A.—At from 50 to 34 months, consistent with size, constitutional vigor and
development, so that they will develope milk producing habits which combined with inherited milk producing
characteristics goes to make cows capsible of turning the roughage and other able of turning the roughage and other feeds consumed, into a profitable re-

### A Directory of Breeders

The Live Stock Branch of the Dominion Department of Agriculture, have issued a Directory of the Breeders of pure bred live lock in Canada. This directory has be compiled and issued as a result of actual correspondence between the Live Stock Commissioner and the breeders whose names are given preeders whose names are breeders whose names are given throughout the more than one hundred pages of which the Directory consists. While the Directory does not repre-sent a complete tabulation of the pure bred live stock of the Dominion, it does indicate the annual produce of most of the larger herds, studs and flocks of the various breeds in each of the Provinces.

of the Provinces.

The Directory has been published for the purpose of enabling farmers desiring to improve and increase their desiring to improve and increase their herds, to ascertain where, in their own or other districts, pure bred males and females may be purchased. It will be of great service to individ-uals and Associations desiring to collect car loads in districts where pure bred animals are plentiful for distribution in otherwise that pure bred animals are plentiful for distribution in others where they are needed. A large edition of the Direc-tory has been published. Copies will be sent free to those who apply for them to the "Live Stock Commis-sioner." Ottawa. J. B. Spencer, Acting Live Stock Commissioner.

### Fitted to Less Than a Hair's Breadth

## De Laval Cream Separators

When you buy a DE LAVAL Cream Separator you buy mechanical perfection. You get the product of the greatest painstaking mechanical skill and the finest of manufacturing tools. Of appears of DE LAVAL machines are fitted to less than the one parts of DE LAVAL machines are fitted to less than the one parts of DE LAVAL machines are fitted to less than the one parts of DE LAVAL machines are fitted to less than the one parts of DE LAVAL machines are fitted to less than the one parts of the maked eye and can only be determined by the finest of year the maked eye and can only be determined by the finest of year to make the straing many the fitted. Any parts which do not come with the dearings must be fitted. Any parts which do not come within this degree of accuracy are thrown aside by the DE LAVAL Spirits of the parts of When you buy a DE LAVAL Cream Separator you buy me-

### THE DE LAVAL SEPARATOR CO.

173-177 William Street MONTREAL

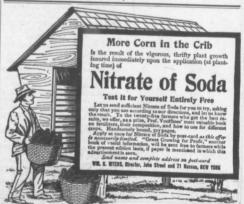
WINNIPEG

#### Concrete

"Mixing and Placing Concrete by Hand," is the title of a bulletin recently issued by the Association of the American Portland Cement Manufacturers, Philadelphia, Pa. With the rapid decrease of our timber supply and the resulting increase in the price of lymbar they come the price of lymbar they come they come they are the price of lymbar they come they are the are they are they are they are the are they are they are they a and the resulting increase in the price of lumber there comes here comes for lumber there comes to flushed the control of lumber there are the comming demand for a new building material. This demand has been form material tically the only building materials. The doubling of lumber prices has brunched the cost of the average farm building. Accordingly American the progressive practical farmer has halled with delight the advent and the

rapid rise of the use of cement-s manufactured stone as durable as rock, stronger than brick or rubble-stone masonry, adaptable to practically any form of building detail, and lastly, but far from least, cheap and fire-proof.

In view of the fact that cement is In view of the fact that cement is becoming so largely used, any information dealing with this question is particularly endeme. Those who contemplate doing cement work in the near future should obtain a copy of bulletin No. 20, which can be had for the asking from the Association of the American Portland Cement Manufacturers, Land Title Building, Philadeluhia, Pa.



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Creamery Department

Butter Makers are invited to send countries of the department ask questions on matter relating to butter may add use on the department of the creamery Department of the Creamer Department

### Preventing Mouldy Butter Boxes

The spores causing mould are prac-tically omnipresent and so all boxes may be considered as harboring them. If the word from which the boxes are made is not properly seasoned, or if the boxes are kept in a damp place, they cause the seasoned of the properly seasoned or if the boxes are kept in a damp place, they are sually heavily infected with spores, which will surely develop and cause the boxes and butter to have an unsightly appearance. unsightly appearance

unsightly appearance.
Some form of prevention or treatment is advisable. A common form of treatment is to soak the boxes overnight in a hot brine solution, or hot brine and formaldehyde. Paraffining the the if proporty done is now favor. brine and formaldehyde. Parattining the tubs if properly done is now favor-ed by up-to-date butter makers and is largely practised by creamerymen in the United States.

### Eastern Townships, Quebec, Produce Co.

Produce Co.

Ed., Farm a.d. Dairy:—Believing it may be of interest to some of your readers I send you herewith the statement in connection with the Eastern Townships Dairy Produce Company, of Ayer's Cliff. It is as follows:

The amount of butter manufactured during the year was 785.375 lbs. The gross amount of money received for putter was \$192.519.89; amount paid butter was \$192.519.89; amount paid to manufacturing was \$19.633.90; and the amount paid to resurrance on butter in craft paid for insurance on the paid for the paid fo

Average price per lb. for butter 24.51 cts.

Average price per lb. of butter fat

25.78 ets.

The price of manufacturing for milk and gathered cream being .02½ ets. per lb. This charge covers every expense and marketing the product.

Patrons delivering their cream received ½e per lb. rebate from this charge.

Amount of rebate to delivered cream

### patrons, \$1,275.26.—John Compton Co., Que.

Richness in Gathered Cream In reply to the question: "What percentage of fat do you prefer in gathered cream and why?" asked by the New York Produce Review, Weston Parry, Oxford County,

the New York Produce Review, Mr. Br. Weston Parry, Oxford County, On The Weston Parry, Oxford County, Oxford County, Oxford Parry, Oxford County, Oxford Parry, Oxford County, Oxford Parry, Oxford County, Oxford Parry, Oxford P added on the larm, for water supplies on the average farm are none too pure and connot possibly benefit the qual-

and connot possibly benefit the quantity of cream.

"A 30 to 33 per cent, cream is rich enough for all practical purposes; it will churn at a sufficiently low temperature for the best results; it conperature for the best results;

tains a large enough proportion of

tains a large enough proportion of milk sugar to form a medium for the starter to act upon Mind, I do not say that a richer cream would not give equally good results, and the sugar to this question upon what is practically attainable under wurnge conditions, for ideals are not always practicable.

The disadvantages of thin cream The disadvantages of thin cream would be sugar to the sugar to t

receive justice.

"The average farm separator is The average farm separator is a very uncertain skimmer in the hands of the average farmer when a cream richer than 3 per cent, is taken; on the other hand, cream testing below 25 per cent, is almost sure indication of a poor make of separator, a careless operator, or an unintelligent farmer, for no farmer nowadays has any excuse for depriving his stock of six to eight pounds of good skim-milk in every 100 lbs. of whole milk that he produces."

### Our Decreased Exports

"Some dairymen seem to be alarm-"said Dairy Commissioner J. A. ed, said Dairy Commissioner J. A. Ruddick, while speaking at the annual banquet of the Belleville cheese board, "over the decrease in our exnual banquet of the board, "over the decrease in our exports of cheese and butter. Our exports appear to have reached their maximum in 1893, and the decline that has taken place since this, has the board of the bo caused some apprehension. These people, apparently do not take into consideration the fact that our home

consumption of cheese and butter has increased greatly during the last few years, due in part, to our increased population and in part to the enlarged

years, due in part, to our increased population and in part to the enlarged buying capacity of our people.

"The fact that New Zealand has greatly increased her exports of cheese to Great Britain, has also created a fear that it may weeken the position of our Canadian chees the dairymen of New Zealand have a great dairymen of Canadian cheese in Great Britain they will ever be serious competitors of Canadian cheese in Great Britain There is no danger of our trade ceing seriously injured by outside competition, as long as we furnish a good product. There has been a great deal of talk in Canada about our methods of selling cheese, but there is only one really important point, and that is that our cheese must be of the finest quality. finest quality.

"Few realize how important our

home trade is. We produced in one year, thirty-six million dollars worth year, thirty-six million dollars worth of creamery butter and cheese, twenty-two million dollars worth of dary butter, one million dollars worth of condensed milk, and about thirty-five million dollars worth of milk that goes into direct consumption. The fact that we export only about one-third of the dairy products we produce, shows how important is our home market. We should pay more attention to catering to our home attention to catering to our home attention to catering to our home markets. We have been in the habit markets. We have been in the habit of exporting our best cheese and selling our poerer cheese in Canada, and the result is that it is difficult to get good cheese in the average grocery store. Were we to give our Canadian consumers good cheese, we could orgath increase the consumeters of greatly increase the consumption of cheese in Canada."

Renew Your Subscription Now.

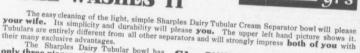


Washing the Sharples Dairy Tubular bowl. Only three pieces. The brush, the girl is using, cleans the inside in a moment. Easier washed, more durable than any other bowl.



This is the Sharples Dairy Tubular. So simple and perfect in construction, that the medium sizes can be turned by one who is seated. Selfoiling enclosed gears. Low, steady supply can.

## Ask the WIFE SHE WASHES IT



The Sharples Dairy Tubular bowl has only three pieces—the bowl itself, the bowl bottom which closes the lower end of the bowl, and the tiny smooth piece that slips inside the bowl. Other separator bowls, as shown in the lower right hand pictures, have many piecessome almost fifty all separate in some bowls or joined together in others—but all much harder to wash and much quicker to rust and wear than

the Sharples Dairy Tubular.
Show your wife these pictures, from actual photographs of cream separator bowls taken apart. Ask her which she would rather wash? She will say the Tubular every time, and thank you for saving her needless work.

Talk this over together. You'll agree that Sharples Dairy Tubulars, made in Canada and one of Canada's leading industries, are the finest, lightest running, most convenient cream separators money can buy. The lower left hand picture shows the Tubular.

Built on 29 years experience. 1908 sales way ahead of 1907—out of sight of any other make, if not all others combined. Write for catalogue No. 253.

The Sharples Separator Co. Toronto, Can. Winnipeg, Man.

## **She Will NOT Want These**





What woman would choose to wash any of these heavy complicated "bucket bowls" when she can have a simple Dairy Tubular instead? What man would expect any of these complicated "bucket bowls" to be as durable as the simple Dairy Tubular?



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### Resectedesectedesected Cheese Department

o cheesemaking and to suggest sub-discussion. Address your letters to se Maker's Dear reesesesssssssssss

### Cool Curing of Cheese \*

J. A. Ruddick, Dairy Commission My opportunities for getting infor-My opportunities for getting infor-mation on this subject have been many. I state most positively, after comparing the results of hundreds of tests, that I have invariably found the cheese cured at 60 degrees and un-

der to be in better flavor and texture than other cheese from the same vat, cured at higher temperatures. I do not ask you to take my unsupported word for it. I refer you to the pages word for it. I refer you to the pages of my annual reports for opinions of cheese merchants in Great Britain; ask any honest buyer in this country; ask Mr. Publow, the chief instructor; ask any cft the instructors whose territory includes cheese factories with cool curing rooms; ask the representatives of any of these factories, and be guided by what they asy. I will be glad to send anyone a list of all the cheese factories in Ontario which are equipped with cool curing rooms. Here is what some of them say:

PAID FOR ITSELF IN NINE YEARS Mr. J. A. Holgate, patron and salesman of the Foxboro factory, in a letter recently received from him, makes the following statement: "I

makes the following statement: 'if have tried to make a careful estimate of the matter, and I am convinced that in the last two years, during which we have had a cool groom, we have had a least \$600 year profit from cool curing, on an output of 200,000 pounds of cheese, besides the satisfaction of having an article of cheese that all the buyers.

output of 200,000 pounds of cheese, besides the satisfaction article of cheese that all the buyers want. Our factory cost article of cheese that all the buyers want. Our factory cost of the cost without the ice channel. That is to say, they were repaid for the outlay in one year.

Mr. G. A. Gillespie, of the Central Smith factory, writes: "It is quite safe to say that they (the patrons) have realized \$900 in three seasons from an outlay of about \$400."

Mr. H. Anderson, a patron of the Mounth Niew factory, says: "I can honestly say that we are pleased with the cool curing roof cheese here."

Mr. T. E. Chattam, dairy instructor in Prince and the cool curing roof the control of the cool curing roof the cool curing roof the cool curing the cool curing roof the cool curing are the cool curing are the cool curing are better known to the trade better known to the trade better known to the trade better cool curing roof the cool curing are better known to the trade better cool curing are better known to the trade whole. There is no comparison in the quality of cheese cured in the cool and way way and those cured in the cool and way way and those cured in the cool and way way and those cured in the cool and way way and those cured in the cool whoie. There is no comparison in the quality of cheese cured in the ordinary way and those cured in the cool rooms. Cool curing has helped the industry in this district more than any other advanced step in dairying in late years."

<sup>o</sup> Extract from an address delivered recently at the Eastern Ontario Dairymen's Association

## Watch and Wait

For our next magazine number "The Garden and Orchard Annual"-out on March 4th. . . There will be much in it that will interest and benefit you.

FARM AND DAIRY

TORONTO and PETERBORO

I could cite any number of similar Too Many Makers Work for I could cite any number of similar statements. The gains mentioned are made up partly by saving of shrink-age and partly by increased price as compared with what would have been received for the same cheese had they been ordinarily cured.

PREMIUM ON COOL CURED CHEESE

Cool cured cheese do not receive the premium that they should over or-dinary cured, but I would like to point out that the value of cool cur-ing is not to be measured wholly by the relative price at which the cheese There are many advantages sell. There are many advantages be-sides an advanced price for cheese, all of which puts extra money into the pockets of the mile producers. In the first place there is a saving of shrinkage, which is very collerable, amounting to about one per cent. In many cases there is a saving of cuts, because there are many cheese which pass without question when cool-cut-ed, that would have developed under strable flavors and other objective. sirable flavors and other objectionable stratus navors and other objectionable qualities if cured at ordinary temperatures. The patrons of factories with cool curing rooms receive more money for their milk than they would do if the cheese were ordinary-cured.

Then I would remind the dairymen Then I would remind the dairymen of Eastern Ontario that every pound of cheese they have sold during the past season brought a higher pre-relatively, than it would have done if a certain number of the factories had not provided cool curing rooms and the sense of the control o not provided cool curing rooms and thus raised the general average qual-ity of all the cheese, and increased the demand by encouraging consump the demand by encouraging consump-tion. I have not heard that any of the factories where the improvements have been made, have objected to receiving the premium on the price of their cheese.

their cheese.

The cool curing movement has emphasized the importance of cool transit and has attracted attention to that end of the business. The result is that all Canadian summer cheese are constant in Canadian summer cooler. that all Canadian summer cheese are now landed in Great Britain in cooler condition and milder in flavor than they formerly were, a circumstance which has materially helped to give tone to the market

### Small Wages

Editor, Farm and Dairy:—I am in favor of every cheese-maker holding a certificate from the holding a certificate from the holding a certificate from the dairy school or having it granted real cast five years' experience. In have had nine years' experience and do not get the wages that I should, for the reason that there are so many who will work as apprentices for a season or two and then agree to take charge of a factory at smaller wages. Those who have had experience in making have to come down in their wages in order to get or keep their positions. In the season when the season when the season when the season why a similar organization here should not. Editor, Farm and Dairy:-I

I am a reader of Farm and Dairy and get a great deal of useful informa-tion from it.—Jas. H. Hicks, Fronte nac Co., Ont.

In his recently published book, "Practical Dairy Bacteriology," Prof. Conn says that the most striking fact about the bacteria found in milk is their extreme minuteness, "When we have of the concerning the control of hear of 100,000,000 in a single drop milk "he says, "we are apt to hear of 100,000,000 in a single drop of milk" he says, "we are apt to be incredulous, feeling that there could be no room for them, quite failing to appreciate their minuteness. There can easily be 100,000,000 in a drop, and still be room for more. The space the size of a pin-head may hold 8,000,000, and 100,000,000 will have plenty of room in a drop of milk.

You will surely miss Farm and Dairy if you don't renew your subscription.

CREAMERY WANTED—To buy a small creamery in a town or village in West-ern Ontario. State full particulars and lowest price. Address, Box "E," Farm and Dairy.

If you should ask prize Butter-Makers what salt they use — they would say, "Windsor." For Windsor is the choice of Canadian dairymen everywhere. Ask your grocer.

### FOR SALE AND WANT ADVERTISING TWO CENTS A WORD, CASH WITH ORDER

\$550.00 BUYS CHEESE FACTORY. Good locality. Mile from station. Box 19. In-dian River, Ont. E-2-10-09

WANTED.—Position by cheese and but-ter maker, eight years experience, grad-uate of Dairy School.—Address Box 334, Owen Sound.

WANTED.—Position by first-class Danish buttermaker, anywhere in Canada. Ap ply, A. W. Sorensen, Cowansville, Que. WANTED.—A man to work in cheese fac-tory. Apply, Box 302, Listowel, Ont.

WANTED.—A good choese or butter fac-tory to run this season. Fourteen years experience. Best of references. Box 181, Aylmer, Ont.

OSITION WANTED. — By first class creamery manager. Eight years experi-ence. Won over \$200 in prize money one season. References furnished. Apply to Box 95, Kingston Station, Nova Scolia.

WANTED. — Situation as first man in cheese factory. Three years experience Would prefer eight months term. Good references. Apply to Wm. Young, Culloden, Ont.

TWO ASSISTANT CHEESEMAKERS want ed. State experience. Factory near Peterboro. Apply Box 186, Farm and Dairy, Toronto.



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FTER much meditation and experience, I have divined that it takes as much sense and refinement and talent to cook a dinner, wash and wipe a dish, make a bed and dust a room, as goes to the writing of a novel, or shining in high society.



### The Domestic Adventures

By Joshua Daskam Bacon (Continued from last week)

Continued room tast week

OU are too delicious," Mrs.
Stuyeesant assured me; "I that one can possibly fathom the char.
Stuyeesant assured me; "I acter of any one on earth!" she announced. "And when it comes to pronicely. Do you know, it's the only
way to do—to have jose no. Then
there are no quarrels, no jealousy—
beally, I've often said that people
with one maid don't realize how
fortunate they are!" "That is very true" said Jenius Precisely.

She knows very well that what J
She knows very well that what J

"That is very true," said I grimly;
"they quite frequently don't."
"And the servants themselves,"
Mrs. Stuvessant continuous "And the servants themselves," Mrs. Stuyvesant contined plaintively, 'one would think they would like it, too. There would be no others to interfere with them and complain of them and they could do as they pleased..."

Ask Maria if she would appreciate

those advantages-with

"Maria is just original enough and "You was "Anna declared."

obstinate to de ti" and enough and obstinate to de ti" and a consideration of the considerati

told her, and began to outline a

T told net, trial dinner.

"Suppose if I should cook Madam her dinner the best I can from what I find, and she tells me if it will suit?"

find, and she tells me if it will suit?" said Maria gently.
And since that dinner I have never of the said another nor said anything further than "That will be very good, I am sure, Maria."
Chloe turned in her chair and stared frankly at the non-committal features under the cap-for I never saw a less vicious-looking person than our new maid.

maid.
"'Maria?" she stammered.
"Yes. Miss Chloe," said the Terrible
Treasure gravely, offering her the

She makes the most delicious rolls

precisely, but they ceased to meemine.

She knows very well that what I
resent is not the fact that Mr. Van
Ness chose to confide his disappointment to her rather than to me: that
was only natural, and, for that matter, I have never been able to get
vour a foolish little awe of him that
would have made such a confidence
that would have made such a confidence
all the salarming to me than otherwise.

Salar about feel that a
scale of properlety, or whatever she more or propriety, or whatever she more or propriety, or whatever she more or propriety, or whatever she more or propriety or
mentioning her call it, prevents her
any but the
more properlet way. I fall to
understand, especially as in the dently uncomfortable was in the understand, especially as in the understand, especially as in the same that the same are the control of the same are the control of the same are the control of the contr

understand, especially as to make the period of the period acquainted with one half of the saud-tion—I assume that she knows it; her intuition ought to tell her a thing like that, if there is anything in popular theories—should she not indicate something of the other half by even the faintest appeal for my sympathy something of the other nam by even the faintest appeal for my sympathy or congratulation, whichever she may want? To go on from day to day im-plying that nothing has happened, or plying that nothing has happened, or is likely to happen, in view of the cir-cumstances, is simply disingenuous. And I haven't even the satisfaction of saying so to Sabina, because we don't discuss the matter at all, for some

It is the irony of the fate that at the irony of the fate that watches over housekeepers that now, when we are in a position to entertain our friends easily, with no worry

office on Saturday, and reading in the law library on Sunday; and as

office on Saturday, and reading in the law library on Sunday; and as neither Sabins, nor Chole suggests inviting any other Chole suggests in the suggest of the suggest in the sugges

And then it doesn't bother you," she added considerately.

she added considerately.

There were only two weak points in this; one of Sabina's reasons for coming out here was to give her an opportunity to entertain in just this way, and at present it would not bother me

and at present it would not bother me at all.

Not that I particularly expect this smooth-flow household current to continue; I have given up any expectations along those lines. Whether I had tunbeled on the solution of the problem, and might count on living peaceably under Maria's efficient grangement for an indefinite period, or whether, as Chice warned me, we ow whether, as Chice warned me, we can always and might wake any morning termade, and might wake any morning were basking in the full before the tornado, and might wake any morning to find our few jewels gone and the wreck of a wild debauch littering our placid home, who could tell? In either case I cannot see that the risk involved any greater than that of Solly's measles, which might have been malignant diphtheria.

When I mentioned this view of the case to Chloe she looked at me in amazement.

"You, of all people!" she cried
"Did Anna tell you about the dreadfully queer persons that came to see
the Paragon? And the way she would And the way she would

the Paragon? And the way she would disappear for two days at a time?"
I did not engage Maria for the similar to mine. Do you know that the piano tuner is not a bigamist, or what guar-antee have you that your dentist is not a confirmed gambler?"
She gasped and shook her head.
"She has bewitched you!" she de-

clared.
"We should never have acquired her but for you," I returned affably.

I do not think she has bewitched me, though it is certainly very pleasant to be so well looked after. Ever since the second day of her reign, when she appeared before me in the later afterneon to remark deferential. which she appeared before he in the later afternoon to remark deferential-ly, "I have laid out the silk blouse for Madam, and if she could be willfor Madam, and if she could be willing to come in the could be willing to come in the could be seen to be come in the country of the coun to be near my hand.

Mamie always bore me a grudge, I know, for interfering, as I often had to, with her decorative leisure; May frankly admired Chloe to the exclus-She makes the most delicious rolls and effort, we seem to have no friends in bewildering variety; wee pointed ones for dinner, crusty frown ones for more: Mr. Ogden, in a horse does not not mysterious functions and the most mysterious functions. And the most mysterious functions and charming ladies, "regrets that the function of the control of the function of the function of the rest of the family, and took a keen interest in her matrimonial and charming ladies," regrets that the stilling of two large cetates of which has recently been appointed with the settling of two large cetates of which has recently been appointed manager, keeps him at work in his least in her deference foward the other. two, reserves her personn interest for me—I suppose in my office as her employer. Me only she calls "Madam," for me she mends and brushes, and cleans boots and gloves. To me she confided the avisions and gloves. confided the existence and address of confided the existence and address of a little dreasmaker employed occasion-ally by Anna Stuyvesant, with great success but at small expense, who would undoubtedly do something for me, at Mari's request, if approached before the autumn rush; and I found wastil this morning with two yery the autumn rush; and I found this morning with two very pretty dresses that seem cheap even

pretty dresses that seem cheap even to my necessarily economical eyes. Yesterday it seemed that Chloe's in-tuition had not played her false, for a telegram from Mr. Ogden begged that he might come to luncheon after that he might come to function after all to-day, his work having unexpect-edly shortened itself. I arranged with Maria for an exceptionally nice luncheon, and when I had ascertained luncheon, and when I had ascertained that Sabina would be busy in her study all the afternoon I promptly decided to flee to my room after luncheon and bring these chapters to what

cided to nee to my room after tunen-con and bring these chapters to what is, I supopse, almost their close. My leaving the two alone must show that the necessity for anything else is at an end now, and may precipitate an ex-planation at last.

I waited long after the others had gone to bed to catch Maria on her way upstairs and ask her about the chick-en for luncheon—the pouttry man if very unreliable—but she did not come. I went down to the kitchen; she was not there, and the disorder of every stage of dinner crowded the room. Twee during the night I stole to the door, but Maria neve pussed it. As Twice during the night 1 stole to the door, but Maria never passed it. At eight o'clock this morning I looked again; only the discouraging picture of last night greeted me.

again; only the discouraging picture of last night greeted me.

Maria could not possibly have known that we were invited to breakfast at half-past nine with one of our neighbors, for the invitation was delivered after dinner, and only its originality—we were to eat some freshly caught fish which our host quaranteed his ability to bring home—induced us to accept it as hastily as it was offered. But I knew it, and did not mention to Chloe or Sabina what else I knew, or that we had no what else I knew, or that we had no wailable breakfast. The incomplete is not a supported to the support of the support ing room arrested my steps. The table was nearly set, and around it flew Maria, haggard and white, one hand pressed to her head, the other feverishly straightening the lunch details.

feverishly straightening the funch (cloths!)
She did not look at me, and I I She did not look at me, and I I She did not look at me, and I I shanged my dress unaided; since she had taken time to make the beds and arrange the rooms. I knew that the luncheon must suffer—but still I did not speak.

I might have spared myself any worry, for the luncheon, though quite different from the one I had planned. She was perfect. Oysters, soullfor that I was perfect. Oysters, soullfor that I guilty omelet, usual of that the fifted even we and perfect. She was suffered in turn before us; and if Macrael in turn before us; and if Macrael in whe was made in the middle of the she was suffered in the contract of the she was suffered in the contract of the she was suffered in the she

Not Sabina, for her mind was utter-te away from us; she was withdrawn; though her outward courtesy was per-fect. Not Chloe, she was too gay and excited; I have rarely seen her more brilliant. After luncheon, auddenly she ran a head into the living room, while Mr. Oeden stopped to light his cigar, and kissed me tumultuously, wen as I was telling me; that my head

eigar, and kissed me tumultuousiy, even as I was telling ner that my head ached and I must excuse myself. "You dear!" she whispered, looking at me so strangely, "you perfect old

dear!"

I went away quickly: the swift caress, so like our old Chloe, moved me too much

(Continued next week)

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#### The Kitchen of To-day By Helen LeRoy.

The kitchen of to-day differs materially from the kitchen of long ago. The twentleth-century housewife realizes fully the importance of seemingly minor details in making the kitchen a habitable apartment, and in planning the home, she gives much thought and the signature and appropriate and appropriate the signature and appropriate th the home, she gives much thought and study to situation and appoint-

The situation of the kitchen is important. A northern exposure is most desirable; this apartment will be cool desirable; this apartment will be cool-er and more conducive to comfort if it has not southern window. The little sun needed can readily be obtained from eastern or western windows or from a window towards the h. rth, which gives a steady light. A larget window facing the south is all very well for the living-room, where the bright warm rays of the sun are desir-able, but they find no welcome place in the kitcher where the able, but they find no welcome place in the kitchen, where the busy house-wife cooks and cleans and where cool air is refreshing. Proper ventilation is, of course, essential. Windows on opposite sides of the room permit of a cross draft, which will air the room thoroughly, and, when possible, the windows should be so arranged.

Careful thought should be given to the arrangement of shelves, the posi-tion and space the range is to occupy, and the most convenient place for the sink. These appointments are most

and the most convenient place for the sink. These appointments are most influenced to the sink of the well-laid, rift-sawed, hard pine wood floor still finds favor with many. Well oiled and washed frequently, it does not crack or make open-time. Care should be taken, however, that the boards be sawn rift, as any other kind shortly means a silvering floor, which, above all things, should be avoided. The question of flooring is most perplexing, and is most satisfactorily decided when it is left to the mistress of the house. mistress of the house.

#### WALLS AND CEILINGS

The treatment of the kitchen walls is important. Wall paper, as a general rule, should not be used, although covered with a coat of shellac, which permits of its being wiped and kept clean, it is sometimes employed. Oil, cloth of a tiled-pattern, used in conjunction with cloth of a tiled-pattern, used in con-junction with linoleum as a floor cov-ering, gives the appearance of a tiled kitchen at a small outlay of money and has found favor with many. This also admits of frequent wiping down, which prevents it from looking soiled and grimy. and grimy.

and griny.

A good wall treatment is of hard cement plaster applied to metal lath and finished to a smooth surface. This is often done in grooved lines, resembling tiles. After it is dried, it is treated to several coats of white lead and oil paint, and a final coat lead and oil paint, and a final coat coat of the lead and oil paint, and a final coat coat of the lead and oil paint, and a final coat coat of the lead and oil paint, and a final coat coat of the lead and oil paint, and a final coat coat of the lead and oil paint, and a final coat coat of the lead of t

Perhaps the most effective treatment is the one least expensive. Oil, mixed with varnish, rubbed into the walls, gives them a pretty tone of light yellow, and each successive coat light yellow, and each successive cost turns them a trifle darker. The finish becomes darker after a time, and it is becomes darker after a time, and it to have your walls too dark at first. Varnish added to oil makes a surface that can be washed and that steam will not discolor.

#### RANGE AND SINK

Now as to the range and sink. The location of the chimney decides the former. If one is particular in regard to the smell of cooking, a hood, connected with the ventilating flue can be placed over the range; or a register in the chimney, near the ceiling, will do just as well, but care must be taken that it surely connects with a ventilating flue, which is obtained by building an iron amokeopic inside the and the culturity makes the cultury, will depend as dresser or cabindo just as well, but care must be it in the kitchen or in a closet opening that it surely connects with a ventilating the space of the control of th

with the smokepipe, is thus warmed, and there is always a good upward

draft.

The sink should always occupy the space where there is plenty of light. Between two windows or under a window are ideal locations. In the latter case care must be taken to have the space between the window and sink space between the win

be lifted up. Below this shelf are drawers and a cupboard just large enough to hold a barrel of flour. A de-



Neat, Simple and Convenient

Note the easy access to all utensils. Very few steps are required to prepare a meal in this kitchen.

also the most extractive, with its pure white coloring, high glaze, freedom from cracks, and absence of sharp corners; all these make it most de-

Second in importance is enameled iron. This is nearly as good as porce-lain and very much resembles it. The enamel is applied in such a way that it doesn't wear off, and only the roughest usage will nick it.

rougnest usage will nick it.
Slate, makes very desirable sinks;
they are easily kept clean and wear
well. Shelves of slate, placed on either side or at both ends of the sink, grooved to drain into it, are better than wood, are inexpensive, and can be obtained of any length desired. It is well to have a slate back for both sink and shelves.

Careful attention should be given

to the planning of an easily accessible place for pols, kettles and other utensils, also for various foodstuffs, as flour, meal and cereals. While the majority of housewives have closets specially built to contain these different things, yet there are some, and year by year the number is swelling, who apply the laboratory system to their own kitchens, and use glass jars, set on open glass shelves, for their stores, and glass shelves and metal hooks for pots and kettles. Glass has the advantage of being easily cleaned, thus rendering it sanitary. It also possesses a second advantage, as it the planning of an easily accessible thus rendering it sanitary. It also possesses a second advantage, as it enables one to tell at a glance when the stores are getting low, whereas boxes generally get low before one thinks to carefully examine them.

Narrow shelves are preferable, as they examy less space, and do, not

Narrow snerves are preterane, as they occupy less space, and do not afford an opportunity for overcrowd-ing, as is often done, if the shelves are wide. Some prefer to have their shelves enclosed in a dresser or cabin-

the sink, although some prefer to have it a few inches higher.

Porcelain, enameled iron, soapstone or slate are the materials of which the sink shallow close to built, the thickness of sink should be constructed. Of these, the partition, which she has fitted with a series of racks, very similar sink should be constructed. Of these, to those found on the backs of church to the second on the backs of church with the should be should be succeed to the second of which the pans are hung, bottom side out. This, my friend claims, keeps them free from soot and dirt, and they are always ready for immediate use.

Sometimes the space beneath the dresser is used for this purpose. A kitchen cabinet is handy, and can be so constructed as to be within the means of the most limited purse. It affords ample space for the convenient arrangement of pots, kettles, etc.

#### THE KITCHEN FURNITURE

One or two tables are necessary, and the size of the same should be in prothe size of the same should be in proportion to the surroundings. The old-fashioned wooden table is still much employed, and, covered with olicloth, serves its purpose well. It is far better, however, to have a marble or glass-top table, as these tops can be removed and thoroughly cleaned. Drawers beneath the table are very handy to hold towels, knives, spoons, and other useful articles. The legs of the table should be sturdy, and set squarely on the floor. Chairs seem indispensable, and yet, as a rule, there is but little room for them. They should be of strong material and sim-should be of strong material and sim-should be of strong material and simshould be of strong material and sim-ple in design. Rocking-chairs are a nuisance, stuffed ctairs are dust-col-lectors, and both are unnecessary and

lectors, and both are unnecessary and undesirable in this apartment.

The refrigerator, if used, while not distinctly a part of the kitchen furni-ture, should always be placed near at hand. A porth, or better still a closet, leading from the kitchen, is a good leading from the kitchen, is a good if or the production of the highest if for the grant of the production of the pro-grant of the production of the pro-tact of the pro-tact of the production of the pro-tact of the protact of the pro-tact of the pr and saves many steps for the busy ewife.

housewife.

Many and varied are the labor-saving devices that have been ingeniously
contrived. Among them may be mentioned a little cupboard, which can be
easily constructed in the thickness of
an ordinary partition, for the storing
of the ironing-board. The board can
be pivoted at its larger end about
three feet from the floor, so that, when

it is pushed up, it will fit in snugly and just seeape touching the ceiling.

The leg may be held in an upright position, when the board is not in use, by a spring at the bottom, which pushes out and forms a support when the beated is in year.

the board is in use.

The women of to-day are beginning to realize the importance of the kitchen and its appointments, and, in the course of a few years, doubtless many more improvements will be noted and put into effect. It is an apartment that should be designed with as much that should be designed with as much care as any room in the house. It is not a place where practical devices can be aimlessly thrust; it is not a left-over space, unworthy of thought and consideration; it is the spot where the mistress of the home spends many hours each day, and it should, therefore, be pleasantly and commodiously arranged.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* The Upward Look

"Whoso trusteth in the Lord, happy

"Whose trusteth in the Lord, happy is he"—Prov. 16-20.

How often we hear people say that they cannot be a Christian, nor can they accept Jesus into their hearts, because they cannot give up all their happiness, nor all their joys. How mistaken these people are. How little they realize the true meaning of happiness, in its best and highest meaninstend of giving up their joys and happines, they are losing the best that the world and life has in it for them. In the wish for happiness, all them. In the wish for happiness, all men are strangely alike. In their men are strangely alike. In their explanations of it and their ways of seeking it, they are all different. Is the wish to be happy, a right or wrong one? There would seem to be two questions regarding the wish happiness.

happiness.

The desire for happiness is beyond doubt a natural one. It is a law of life, that every one seeks and strives towards perfection and a true harmony with their environment. This conscious form is happiness—the satisfaction of the second of the isfaction of our upward impulses. In striving to realize the true aim of our being, we find the wish for happiness is instilled into our every effort. Christ does not say this desire is not right. Such a notion is far from the spirit of Jesus. There is nothing of hardness or coldness in Christ's teaching. It is humane, sympathetic and restful. Take the Sermon on the Mount. It begins with the word restrul. Take the Sermon on the Mount. It begins with the word "Blessed." It might be almost translated "Happy." Nine times Christuses this word on the mountain side,



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If everything else in the bouse did its share of the work as well as

### "Black Knight" Stove Polish

very few women would complain of the housework. "Black Knight" does away with the everlasting rubbing and polishing. It shines quickly and produces a result that satisfies the most particular.

Always ready for use for Stoves, Grates and other Ironwork.

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The F. F. DALLEY CO. LIMITED, HAMILTON, Out,

calling all who long for happiness, to

calling all who long for happiness, to come unto Him and rest.

Christ never asks us to give up something merely for the sake of giving up. It is always to give place to something better. If we accept the teachings of Christ, we must believe that men are not wrong in wishing for happiness, but only wrong in their ways of seeking after it.

Four things have been truly said of handiness. It is inward, and not out-handiness. It is inward, and not out-

happiness. It is inward, and not out-

happiness. It is inward, and not out-ward; and so it does not depend on what we have, but on what we are. It cannot be found by direct seek-ing, but by putting our faces toward the things from which it flows; and so we must climb the mount if we would see the vision; we must tune the instrument if we would hear the

It is not solitary, but social; and so we can never have it without sharing it with others.

is the result of God's will for us. and not of our will for us, and not of our will for us, and so we can only find it by giving our lives up, in submission and obedience to the control of God.

We should truly accept the teaching of God in regard to the possibility and the district of the possibility and the district of the control of God.

ing of God in regard to the possibility and the duty of happiness. The atmosphere of the New Testament is not gloominess, but gladness; not despondency but hope. The man who is not glad to be a Christian, is not the right kind of a Christian. The first thing that commended the Church of Christ to the weary and disheartened world in the early years of her triumph, was her power to make her children happy—happy in the midst of their affilictions, happy in the release from the burden of guilt, and happy in the assurance of an endless happy in the assurance of an endless happy in the assurance of an endless the surface of the happy in the assurance of an endless life. Was not St. Paul a happier man than Herod? Did not St. Peter have more joy in his life than Nero? If we want the Church to be a mighty power to with the contract of the contract o want the Church to be a mighty power to win men, and to be a source of light in darkness, we must remember that to each one of us as individual members of that Church, we must live in the spirit of Christ, and show the true relation of the true religion to human happiness.—M. C. B.

### Women's Work in the Institute Mrs. Frank Webster, District President West Victoria Women's Institute

The institute is an organization in

which all women may meet on a common level, undenominational, to study the very best methods of doing their work and teaching their children.

It also teaches us, that to make a uccess of our lives, we must live for others, and by our own teaching and influence make the lives of those around us brighter because we have lived. What would this world be to any of us if it were not for little words and age of hinder the total the state of and acts of kindness that we receive from others?

part faithfully.

It is said that there are four things that bind men together; a common hope, a common work, deliverance from a common peril, and loyalty to a common friend. Mrs. Hunter in her reply to the address of welcome at the last convention at Guelph, asked these contents.

What have these years brought to

Have we received any benefit from the institute?

Are we more efficient home makers?
Better wives? Better mothers? More kind to each other? Are we any more loyal to our homes?

homes?
Are we more helptul to our husbands? Better teachers and compan.

Cold Meat Fork
They will interest you
Berry Speen

ions to our children? And all together more necessary to every person knows

She also said, "Future Canada is rocking in the cradles of our homes." What an undertaking for the mothers of this present Canada. What a ers of this present Canada. What a very great responsibility is resting upon the mothers of to-day. Napoleon upon the mothers of to-day. Napoleon cherished a very high conception of a mother's ability and influence when he said, "that the great need of France was mothers."

he said, that the great need of the property o

There is great need that honesty acould be taught to our growing

Canadians Who can do this work better than

the mother who teaches the baby lips to lisp their first little words. But for us to accomplish this work we need all the good influence, and sympathy, that fathers can lend us.

the fathers can lend us.

It is necessary for us to be very patient. Let us remember that the characters of good men and women were not formed in a day. We must teach the very best we know how to teach, and continue doing this, just as long as we are sha

Then let us live in the bright hope having our labor rewarded some

day.

We must live for the people, for our weighbors, sons, our daughters, our neighbors, our friends "and our enemies, too," if we are to be useful in this world.

We must not give so much thought to the things that to-day are "and," o-morrow are not.

Money would be very little use to my of us if we were sick and had no

friends. We cannot live successfully without our friends. I think that there is a very great missionary or for to be done, right here in orderio, and when we start out to do, let us look well into our own homes first. friends

Perhaps we will be surprised when we really look for such work at home. I would say to each member of the institute, let us all join hearts and hands for this good work; always remember to teach right at home first, and then what time we have to spare, let us help others along the pathway of life.

of life.

If we can only give a smile or a word of comfort and cheer it is not lost. Through co-peration with Our Maker and the institute we will accomplish at least, some of the good word of living for others.

compils at least, some of the good work of living for others.

The satisfaction we will take in doing this, will more than repay us for all the trouble this labor of love has cost us.

Hang Clothes Well

Hang Clothes Well

Many clothes are ruined from being hung wrong on the line to dry. If hemsitiehed pillow-slips are hung with the hem folded over the line, the hem the hem folded over the line, the hem to the

articles.

If drawn-work searfs and tray-cloths
and similar articles are hung over
sheets or pillow-slips, or even folded
between them, they will last much
longer than if they are hung in direct
contact with the wind. Fancy silkembroidered pieces can be hung between any thin fabric and their colors.

chrondered pieces can be nung be-tween any thin fabric and their colors as well as the muterial preserved. A little care will give a double lease of life to many delicate pieces, as well as to those of heavier fiber.

...

To Protect Washstands

A house Keeper may protect wash-stands from ugly rings and searfs by pads made of common outing flannel of delicate hue and pattern. Double a yard of the material; spread several layers of paper between the folds and then buttonhole the edges with pretty silk thread. When it becomes soiled, clip the stitches. silk thread. Wh

. .

Some claim that swallowing the white of a raw egg will immediately dislodge a fishbone in the throat though a better and quicker method is to break off a piece of dry bread and swallow it without chewing. No difficulty is found in this simple method. It usually removes bone.

### TRACTIVE USEFUL PREMIUMS FREE



An Elegant Silver-Plated Cold Meat Fork Given for securing only Two New Yearly Subscriptions to our paper at \$1.00 each.

This Silver-Plated Berry Spoon Given for securing Three New Subscriptions to our paper at \$1.00

Each of these Premiums is nicely packed in a good case and well worth the trouble of working for.

These premiums WILL NOT BE SOLD separately. You can secure them only on the conditions outlined above. outlined above

Write direct to Household Editor, Farm and Dairy, Peterboro, Ont., for sample copies.



### \*\*\*\*\*\*\*\*\* THE COOK'S CORNER

Send in your favorite recipes, for publication in this column. Inquiries pertaining to cooking are solicited, and will be replied to, and see possible after receipt of same. One Book sent free for two new yearle outserfulness at \$1.00 each. Address, Household Editor, this paper hold Editor, this paper

#### COCOANUT MACAROONS

One-half lb. cocoanut, 1 tablespoon flour, ½ cup white sugar, yolks of 3 eggs beaten, white of 3 eggs beaten. These are better than boughten macaroons.

GINGER BREAD

Scant cup brown sugar, % cup butter, % cup sour milk, % cup molasses, 1% cups flour, 2 eggs, % teaspoon soda. Preserved ginger.

OATMEAL BREAD

Cok 2½ cups and meal until done, then add ½ cup sugar or syrup, I tablespoon salt, and when lukewarm add 1 pt. light bread sponge. Mix well, then knead in enough flour to make stiff. Mold into loaves, let rise until light, and bake about 1½ hours. This bread is very nice for school children's lunches. children's lunch

ECONOMICAL BROWN BREAD

ECONOMICAL BROWN BREAT SOAK 1/5 (ups stale bread in 2 cups water over night. Next morning add & cup molasses or brown sugar, 1½ cups each white flour, corn meal and graham flour, 1¾ cups cold water in which dissolve 2 teaspoons soda and 1½ teaspoons salt. Steam 3½ hours. COEN BREAD WITH "CRACKLINGS"

Thto 1 qt corn meal sir 1 table-spoon salt and 1 cup fine "crack-lings." Mix well and then pour in boiling water, stirring constantly until the consistency of soft mush. Spread in a warm ungreased pan and bake not too fast—about 1/2 hour.



NOTE.—"Cracklings" are the residue of the leaf lard, after being rendered. The leaf lard should be cut very fine, then tried out, and the "cracklings" the crisp and brown.—House-hold Editor.

HOT WATER GINGERBREAD, NO 1 HOT WATER GINGERBEAD, NO 1 One-half cup of sugar, % of molas-sos, % cup of flour, I teaspoon of cin namon, % teaspoon each of ginger, and sait, % teaspoon of nutmeg, 1 teaspoon of soda, % cup of boiling water. Bake in moderate oven.

HOT WATER GINGERBREAD NO. 2

One-half cup of molasses, % cup of shortening, one level teaspoon of soda, one cup of flour, spices as in No. 1, and a seant half cup of boiling water. Bake in a moderate oven. PRINE SOUPPLE

PRUNE SOUFFLE

Bake in a moderate oven.

PRUNE SOUFFLE

For prune souffle, wash and pick over % of a cuful of prunes. Put in a sauce par over with cold water, and let soak 2 hours. Cook in the same water until sold, by which time the water should be nearly evaporated. Remove the short, by which time the water should be nearly evaporated. Remove the short, and the prunes in small pieces; then sprinkle with % cupful pieces; then short had and add a degree with the company of the prunes gradually. Pour link of a bake in a moderate oven until furn. Chill and serve with custard sacce. Beat the yolks of eggs slightly, and add 3 tablespoons of sugar and a few grains of salt; then add gradually, while stirring constantly, 1% cupfuls of scalded milk. Cook in a double of scalded milk. Cook in a double of scalded milk. Strain, chill, and flavor with vanilla.

EMERGENOY PIE GRUST

EMERGENCY PIE CRUST

I make an excellent pie crust by
chopping-2 cups lard into 4 cups flour,
with sait to the saic, and cold water to
mix to the faste, and cold water to
mix to the faste, and cold water to
mix to the faste of the couply chopped
through the flour-I was the compact
flow and in the flour and flour and lard than I need for immediate use, and set the rest away in
a cool place. Neither lard nor flour
will spoil, and when I must make pie
on short notice, I only have to mix
up a little water to this flour and
lard.

#### HAM CAKES

Take remnants of cold boiled ham, M part lean and M part fat, chop fine, and add an equal quantity of bread crumbs, 1 beaten egg, 2 table spoons water, 1 onion chopped fine, and, peper and sage to taste, and flour enough to mold into flat little cakes, using no more flour than necessary. Fry a nice brown in hot drippings.

... Do you want to have your own sub-scription to Farm and Dairy renewed free? Then send us 2 new subscrip-tions at \$1 each and we will renew your own subscription free for one

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## proceedateseseseses percessessessesses

ART EMBROIDERY

If we do not publish designs you design, writed would like. This disk for the kind you would like. This design, Address, Art Editor, Faram and Dairy, Peterboro, Ont.

### An Attractive Pillow Top

This pretty pillow top design, showing the old home surrounded by a ribbon and violets is very pretty when bon and violets is very pretty when tinted in colors on ecru art cloth. The design should be heavily outlined with colored cotton. When finished this pillow top makes a most welcome Easter gift.



Sofa Pillow No. 101

Perforated pattern, which can be used an unlimited number of times, and all necessary materials for stamp ng is 25c. Hot Iron Transfer Pattern, (the sim-

Hot fron Transfer Pattern, (the simplest transfer pattern out) is 10e.
The design stamped in natural colors on Art Cloth is 30e.
Fourteen skeins of Utopia Colored Silky Cotton to outline 30e extra.
All above prices include postage.



Braid Center-Piece No. 103

The graceful braided center-piece No. 103, shown here is particularly popular on account of the simplicity of the work and because it is quickly made and is very attractive and showy when finished.

show when finished.

The price of the perforated pattern, size 18 x 18 inches, which can be used an unlimited number of times, including the stamping preparation is 35 cts. The Ideal Transfer Pattern, (the simplest hot-iron transfer out) is 10 cents. Design stamped on Imported Linen 18 x 18 inches is 35c. Coronation Cord (white or red.), and 6 skeins of Utopia Silky Cotton for working, is 60 cents extra 60 cents extra.

All above prices include mailing

If your hands become stained or rough, rub them thoroughly in a mix-ture of corn meal and vineoar. If the vinegar is very strong, dilute it slightly with water.

A good tooth powder is made of two parts precipitate chalk, one part baking soda, and half part powdered orris root. This will clean and whit-ten the teeth, prevent decay, and sweeten the breath.

When using flour for thickening, if you will first mix it thoroughly with the sugar, the sauce or filling will never become lumpy.

The Sewing Room

Patterns if each. Order by number and size. If for children, give mades, and water measure for water, and water measure for water, and water measure for kirrs.

Department orders to the Fattern.

### PLAIN AND TUCKED ONE-PIECE SLEEVES 6224.



Long rapidly becoming more and more gen eral. The plain sleeves can be utiliz sleeves can be utilized for heavy materials or for the ready tucked thinner ones, while the tucked sleeve is suited to thin materials that are to be tucked as illustrated.

The stop of the st

#### NIGHT DRAWERS 6236



No sleeping garment suits the young child better than this one. In the illustration it is finished with the suits of the sui ished with feet, but ished with feet, but this is optional and the leg portions can be cut off at the ankles if preferred. Material required for the medium size (6 years) is 4 yds 27 or 3 yds 36 in wide.

The pattern is cut for children 2, 4, 6 and 8 years, and will be mailed on receipt of 10 cents.

#### BLOUSE OR SHIRT WAIST 6235



HIRT WAIST 6235
The shirt waist
made with tucks
over the shoulders is
very generally becoming. It can be
utilized for the heavier ones, and is made
in shirt waist style,
with regulation
sleeves, and it can be
utilized for more
dainty materials of a utilized for more dainty materials of a made with the plain, one piece sleeves that make the latest decree of fashion

weeree of fashion.

For the medium size will be required 45, yds of material 21 or 24, 23, yds of 25 or 2 yds 44 inches wide.

The materia is

The pattern is cut for a 32, 34, 36, 38, 40 and 42 in bust, and will be mailed on receipt of ten cents.

#### GIRL'S SAILOR COSTUME 6237



Sailor costumes continue to be fav-orites for girls. The orites for girls. The costume consists of skirt and body linskirt and body lining, the blouse and the shield. The blouse is quity sepblouse is quity separate and is drawn on over the head.

Material required for medium size (idfor medium size (idfor years) is 6% yards 24 6% yads 32 or 4 yds 44 6% yds 32 or 4 yds 44 in wide: %yds 36 in wide: %yds 36

in wide: %yds 36 in wide for the body lining, 5¼ yds of braid. The pattern is cut

The pattern is out for girls of 6, 8, 10 and 12 yrs of age, and will be mailed on receipt of ten

Renew Your Subscription Now.

### HOW ON EARTH CAN SHE HAVE TIME

to do so many other things and still keep her dishes, clothes and everything in her house so sweet and clean?

IT IS EASY BECAUSE SHE USES



It thoroughly and harmlessly loosens and dissolves all dirt and gree -rinses easily-and leaves everything sweet and clean enough please your mother-in-law. It saves time and money. Sold in sacks by your dealer under a guarantee of

SATISFACTION OR YOUR MONEY BACK THE J. B. FORD COMPANY, Sole WYANDOTTE, MICH., U.S.A.

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### **DEERING DRILLS** FOR LARGE CROPS

O much depends on the condition of the soil and the way seed is put into the ground that drills are among the most important machines on the farm.

The Deering line, consisting of disk and hoe drills, have long been popular with Eastern Canadian farmers. They are prized for the excellent work they do. Each is admittedly a leader in its class

Choice between these two machines depends in a large degree upon soil conditions. The hoe drill is better for sandy soil and rooty and

Soil Conditions. I are not than is detter for sating soil and rooty and stony ground.

Both have a double run force feed which insures an even distribution of seed. The amount of seed being sown can be accurately regulated and just the right amount will be deposited.

Both the disks and hose cut into the soil to the proper depth. The seed is deposited at the bottom of the furrow and it is always covered the children of the furrow and it is always covered the

right depth.

Each drill is equipped with grass seeding attachment. Each has strong wheels
and staunch frame which cannot be wrenched out of line to cause poor working of
the feeds. Each has ample clearance for trash.

The Deering one-horse broadcast seeder, with 50-inch, broad tired wheels,
force feed and safety grain spout, sows dependably any quantity of seed desired
ner acre.

per acre.

The Deering line of spring tooth, disk and smoothing harrows, scufflers, cultivators and land rollers are all deserving of a place on the rightly equipped farm.

Lived by thoughout Eastern Canada will gladly supply all needed information on one geoling machines and tillage implements. Call on them or
write nearest branch house for catalog.

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THE BOOK DEPARTMENT

THE RURAL PUBLISHING CO., LTD., PETERBORO, ONT.

Bedford District, Que., Dairymen rom page 11)

in 1905, had with 20 cows in 1908 reached the average of 6,000 lbs., the income from each cow being on an average in 1905, \$52, and in 1908, \$77, gain of \$25 a cow

AERATION OF MILK

Mr. George H. Barr, Assistant Dairy Commissioner, gave his popular illus-trated lecture on "The Care of Milk for Cheese-making" which address for Cheese-making which address given at Prescott was fully reported in our issue of January 14th. Some ex-ception was taken to Mr. Barr's de-ductions by President Foster and by Mr. Robt. Wherry, formerly cheese inspector in this district who pointed Mr. Robi. wherry, formerly cheese inspector in this district who, pointed out that prize winning cheese from Bedford district had all been made from aerated milk He, Mr. Wherry had introduced aeration of milk into the district and it had done away with floating currol. Mr. Barr in reply stated that he had approached these series of experiments with an open mind and had simply followed out the results of them and given them to the public. He was himself a cheesemaker of long experience. He had had to contend against gassy cards and all the rest of the evils. He had found that the shutting up of the made of the state of the blowing in the opposite direction, but blowing in the opposite direction, but the spot where the aertaion was car-ried on would need to be altered every time the wind changed, but aeration did no good and laid open the danger of great harm. Mr. A. J. Stevens of Bedford gave a deal of practical light on the subject by giv-ing testimony that he had owned a factory whose output was spoiled by the milk of one dairy. On investi-gating it was found that this milk we. gating it was found that this milk was garing it was found that this milk was averated on a nice green lawn away from the barri; that the milk was always all right when the wind blew from the lawn to the barnyard, and the milk was always all wrong when the wind blew in the opposite direc-tion. Speaking upon the theme "Problems

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townships. Now, if you have a desire to "Hitch Up" to the

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get in line for a more permanent,

larger and better local fence trade,

you will have to act quickly. Good

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hurry. Someone will be appointed

to our "success-winning" Agency

in your locality in a very short

time. Get your letter to us by next

mail. Simply say : "Send Catalog

and full particulars regarding the

of Agriculture." Prof. Arkell of Mac-donald College stated that the time had gone by when any sort of man can be a farmer. The farm neede trained men to-day. We are wasteful of our land-and do not farm nearly, as much of it as we might and ought. The science of farming is much more developed in Europe. The Pro-fessor pointed out that the profit in farming comes from the margin at the lessor pointed out that the profit in tarming comes from the margin at the top. Farmers are not loyal to them-selves, they do not combine or organ-ize as do any other class of business men. Physical energy is not the whole of farming to-day. Fore-sight and calculation are better. It is better to till 10 acres well than 20 acres poorly.

George H. Clarke, Seed Commissioner, talked about the best methods of exterminating weeds. He illustrate the commission of the commission ed his remarks by means of a multi-tude of lantern slides projected on to a curtain. The seed control act has tude of langers was a curtain. The seed control act has done something towards the elimination of weed evils. The worst of all was not in the seed-grains but in the feed-grains. These carried with them, even grains. These carried with them, even the seed of the seed seed to the seed of the seed seed to the seed of the seed seed to the seed of the seed grains. These carried with them, even in the mixed-ground-feeds large quantities of weed seeds which were another than the mixed pround finely enough to prevent their regerminating. These seeds were consumed by the cattle and passed through in the manure, and then made their appearance in our fields just as they had done in the Great Canadian West. Mill men should be required by law to grind these seeds there. Mr. Clarke stated that mustard seed could be killed by leaving it to remain dormant for 15 years while oats would lose their vitality in seven years.

The problem "How to get more protuce from the farm and how to keep
more cows and how to make see
give more milk," was handled by Mr.
Ayer. He spoke in favor of underdraining much of the land. He deprecated the habit of planting small
potatoes and the sowing of oats and
other grains without sifting. At the
end of his discourse, he stated that
the inspector should leave factories
alone for one year, at least, and go afalone for one year, at least, and go af-The problem "How to get more proalone for one year, at least, and go af-ter the dirty dairies and get them cleaned up, and thus clean up much of the trouble at its origin.

SWINE FEEDING

Mr. J. H. Grisdale spoke about the best methods of feeding swine. The feed of swine is generally a breeder and that is the best way as they can be fed much more cheaply than Mr. J. H. Grisdale spoke about the and that is the best way as they can be fed much more cheaply than bought. Mr. Grisdale told about how he had kept brood sows right out of doors in the snow all winter. The slept in small cabins built like chick-slept in small cabins built like chick-en coops large enough to contain six or seven. Last year Mr. Grisdale had or seven. Last year Mr. Grisdale had built left a margin. a margin.

that left a margin.

A resolution was passed by the convention recommending the minister of agriculture for the province to arrange for the cheese and butter inspectors to spend most of their time during this complex season of 1999 in vision this complex season of 1999 in vision that of the complex season of 1999 in vision that of the complex season of 1999 in vision that of the complex season of 1999 in vision that of the complex season of 1999 in vision that of the complex season of the complex seas ing this coming season of 1909 in vis-iting the dairies that supply milk and iting the dairies that supply milk and creame to the factories and creameries, for the purpose of seeing the cows milked and that the milk is handled in the best sanitary manner, and further that such necessary additional laws be enacted as will make the milking and handling and delivery of milk generally in a sanitary mappe. milk generally in a sanitary manner.

OFFICERS The following directors were ap-

ointed:
Missisquoi County, Messrs. E.
I. Morgan, Stanbridge Station; A. J.
tevens, Bedford, and John Butler, Sweetsburg.

Sweetsburg.

For Brome County, H. S. Foster,
Knowlton; J. E. Millar, Sweetsburg,
and William Curley, of Sucressburg,
For Shefford County, H. L. Lawrence, Wat Shefford, M. Bullar,
Lawrence, Wat Shefford, and J. Augustus
Hayes, of Sheffington,
At the directors' meeting, held later,
Mr. H. S. Foster was appointed press,
and Mr. P. C. Duboyce, sec.-treas.

"Hitch up" to "Frost" Fence "Tandem." It will pull Big Business your way. And you desire more money.

Every ambitious man desires to earn more money. If you are in that class, here is your golden opportunity. "Hitch Up" to the "FROST" Fence "TANDEM." It

will "Pull" big sales your way. The leading horse represents "FROST" WOVEN FENCE. The New Fence that holds the record for big sales. That created such a big sensation last year. The fence with the greatly improved and absolutely secure tie. The ONLY Woven Fence with necessary provision for expansion and contraction.

The second horse represents

FENCE-the "old reliable" that was the choice of those who indulged in the use of Wire Fence eleven years ago. It has been their choice every year since. Built with Coiled Wire Horizontals, No. 7 Hard Steel Uprights and secured with "FROST" Galvanized Metal Binding. Fences built eleven years ago are still the pride of the farm.

We are largely increasing our manufacturing capacity and new

FROST WIRE FENCE Co., LIMITED, Hamilton, Ont.

Agency.



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The in the Chicag cendar during 81.13 shipme The Assend f tries w olders farmer market demand been ve above overy he not proout if t

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### MARKET REVIEW AND FORECAST

Toronto, Mouday, Feb. 18, 1999. — The secureral feeling among many wholesalers seems to beling among many wholesalers seems to beat the trade of the countries of the country is in health of the country is in health of the countries of the feeling of the set of the feeling of to, Monday, Feb. 15, 1909.

sper cent. on real estat.

WHEAT

The "bulls" are having their innings
in the apsculative market just now. At
Chicago the Patten crowd are in the ascendant and prices are gradually mounting upward. Prices advanced is or 4c
estate of the secondant and prices are gradually
mounting upward. Prices advanced is or 4c
wheat. The
strength of the market is only weekly
shipments show a considerable increase.
The Argentine and Australia continue to
send forward large quantities though it
send for the send forward large
send for the send for the send for the send for the
send for the send for the

Ontario wheat is strong and the advance salers in price has hid the effect of increasing in price has hid the effect of increasing the sale of the sal

COARSE GRAINS

The oat market is firmer and higher owing to light receipts. At Montreal a good demand is reported from country towns and prices are higher at 486 to 476 for Ornario and 40% to 40% for Western towns and prices are higher at 486 to 476 for Ornario and 40% to 40% for Western towns and the country of the cou FEEDS

Mill feeds are scarce and the market Mill feeds are scarce and the market is very firm at quotations. At Montreal Manitoba bran is quoted at \$21 to \$22 and shorts at \$24 at on in bage in ear lots, and Ontario bran at \$22 to \$22.59; shorts at \$24 to \$24.50, and middlings at \$24.50 to \$25 at on in bage in ear lots on track there. Dealers here quote bran at \$22, and shorts at \$23 to \$24 at on in bage in ear lots of the ear lots outside. Amprison over is nated as and aborts at \$25 to \$24 a ton in bags in car lots outside. American corn is quoted at Montreal at 70c to 72½c a bush in car lots and here at 70½c to 72c for American, and 65½c to 66c for Canadian in car lots Toronto freights.

SEEDS

There are no new features in the seed situation and it looks now as if no better prices than those now ruing in better prices than those now ruing at this season. The demand at the comment is quiet. Dealers here quot as follows in store: Alsike, \$7.75 to \$8.25; red clover, \$8 to \$6; and timothy, \$1.75 to \$2.25 for good clean seed. The quotations at country points rule at \$8.75 to \$7.75 for alsike, a little higher for fancy lots; \$4.50 to \$7.50 for red clover, and \$1.50 to \$3.10 for timothy, as to quality.

HAY AND STRAW

S2.19 for timothy, as to quality.

HAY AND STAAW

The hay market STAAW

The hay market STAAW

The hay market STAAW

The hay market state of the stat

POTATOES AND BEANS
An advance of from 2c to 5c a bag is re
ported at Montreal for potaces. There is
no change reported here and the market
rules steady at 60c to 6c a bag in any
times on track Toronto. On the farmers'
the contract potatoes sell at 75c to 90c a
bag to the contract of th

The bean market is stronger and prices re higher. Western Ontario beans are The Bean market is scrought and pitted are higher. Western Ontario beans are quoted at Montreal at \$1.85 a bush for three pound pickers in car lots on track there. Dealers here quote beans at \$1.70 INCORPORATED 1888

## DERS BA

of Canada and Surplus \$6,350,000

Assets \$34,000,000

Commercial and savings accounts solicited and best terms offered.

### THE BANK FOR THE PEOPLE One of the 80 Branches of this Bank is convenient to you. Your account is invited.

to \$1.80 for primes and \$1.90 to \$2 a bush for hand-picked.

EGGS AND POULTRY Supplies of held eggs are getting scarce and trade is mostly in new-laid, which are coming in more freely. New-laid are are coming in more freely. New-laid are quoted at Montreal at 32 for straight receipts and 35 to 36c a doz. for selected in the mew-laid. Receipts of new-laid are increasing here and sell at 28c to 29c in creasing here and sell at 28c to 29c and oz.

On Toronal storage at 28c to 29c a doz.

On Toronal storage at 28c to 29c a doz.

On Toronal storage at 18c to 29c and 20c at 28c to 38c a doz.

at 26 to 36 a fee.

Poultry receipts are light and quotations
are largely nominal. There is a demand
at Montreal for poultry for carrival week
and any skipments sent there will realize
good prices. The market here is quiet at
steady prices. Dealers quote chickens at
steady prices. Dealers quote chickens at
steady prices. Dealers quote chickens at
total prices. Dealers quote chickens at
total prices. Dealers quote chickens at
steady prices. Dealers quote chickens at
the prices of the prices of the chickens
and turkeys at 19c to 25c a lb.

And turkeys at 19c to 25c a lb.

DAIRY PRODUCTS

The cheese market continues firm with stocks light and the continues from with stocks light continues from the continues from the continues of the continues with the continues white is quoted at 3.5. It is firm at unchanged prices. Dealers quote large at 15c to 15% and twins at 15% to 15% and 15% and

large at the control of late, though at the end of the week Toronto dealers reported a falling off. There is a wide range of prices quoted at Montreal, some quoting fresh ereamery at 25c and others at 25c, and held fall stock at 25c, and others at 27c. This is due to the variation in quality. Whole-due to the variation in quality. Whole-ty prints are to the property of the report of the property prints (25c; and 15c) and 15c of 25c and solids at 26c to 25c a lb.

UNION STOCK YARDS HORSE EXCHANGE

The horse market is considerably brisk-The horse market is considerably brisk-er and business is more active. Prices, however, rule about the same, with high-er quotations for choice quality, At the Horse Exchange, West Toronto, about 100 horses were sold last week. Two car-loads were shipped to Brandon, and an-other carload to points in the west. One car load went to Burford, one to Peterboro, and others to various points in On-tario. Heavy draft horses sold at \$46 to \$190; general purpose horses and farm chunks at \$46 to \$190; wagon horses at \$280 to \$210; drivers at \$50 to \$160, and \$40 to \$200 drivers at \$50 to \$160, and \$40 to \$400 drivers at \$50 to \$160, and \$40 to \$400 drivers at \$40 to \$400 drivers at \$40 to \$400 drivers at \$400 drivers at

LIVE STOCK

Receipts at the cattle market fell off somewhat during the week and trade ruled firm and brisk at the closing mar-kets, especially for choice cattle. There

ruled frm and brisk at the closing mar-kets, especially for choice cattle. There were some good cattle on the market which were quickly picked up at high prices. The percentage of common and market was a little higher at the cattle of the was a little higher at the end of the was a little higher at the end of the was a little higher at the end of the was a little higher at the end of the was a little higher at the end of the was a little higher at the end of the was a little higher at the end of the was a little higher at the end of the was a little higher at the reservant of the was a little higher or two of better quality, selling at \$4.75 a cwt. On Thursday one load of good exporters brought in by Alfred Speers, Agincourt, averaging 1200 [bs. each, sold at \$4.55 a cwt. These cattle were bought at the load of the was a little was a little was a proper of the was a little was a little was a little bas each. London cables quote cattle seady at 125,0 to 125,0 a lit. lbs. each. London cal steady at 12½c to 12¾c a quote cattle ste dressed weight.

quote cattle steer seach. London cables quote cattle steer seach. London cables dressed weight.

Choice butchers' cattle are in demand. Several light exporters were bought for the butchers' trade at \$5.25 to \$5.50 a cwt.

State of the seach of butchers' cattle sold at \$4.75 to \$5.40 c cwt.

At \$1.00 to \$4.50 c cwt.

Trade in stockers and feeders ruled slow Trade in stockers and feeders ruled slow. At \$1.00 to \$1.00 c cwt.

Trade in stockers and feeders ruled slow. Trade in stockers at \$1.50 to \$2.50 a cwt.

Trade in stockers at \$1.50 to \$4.35 c cwt.

Trade in stockers, \$3.50 to \$4; and into \$4.75 to \$4.35 c cwt.

Export the stockers, \$3.50 to \$4; and into \$4.75 to \$4.55 c cwt.

There was for feeders to handle.

There was for feeders to handle.

There was for feeders for good pringers of the year for mills strongest markets of the year for mills the properties of the year for mills at \$1.00 c cwt.

There was for feeders to handle.

Under moderate receipts the price of calves remains unchanged at \$3 to \$6.50 a cwt. Veals are quoted at Buffalo at \$7 to \$9.50 s cwt.

carrer remains uncnanged at 85 to 86.50 a cwt. Veals are quoted at Buffalo at 87 to 85.50 a cwt.

Owing to light receipts the price of sheep and lambs ruled higher. Export owes sold at 84 to 84.50; rame, at 85 to 85.60; grain fed lambs at 86 to 85.66, and

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Holstein bull, two years old, dam gave 70 lbs of milk a day testing 3.6 per cent. fat. Bull calf, dam gave 63 lbs. testing 3.8 per cent fat in Record of Performance tests.

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Head your Head with a son o Sara Hengerveid Korndyke whose dam was recently sold for \$2,000 his 3 nearest dams average 22.1 lbs. butter each in 7 days. Only of his sons left. We still have few sons of Count DeKol Petertji BROWN BROS, LYN, ONT.

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#### E-5-11-09 Breston NEIL SANGSTER



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Book yout order now for grandsons and daughters of Petertje Hengerveld's Count D Kol, champion Maphecroft heads our herd, and also thengerveld Maphecroft heads our herd, and the Starla lewel Hengerveld, who with her daughter Sarah lewel Hengerveld, who with the daughter Sarah lewel Hengerveld, who with the daughter Sarah lewel Hengerveld, who with the daughter and the starlar level for the same of t A. D. FOSTER, Bloomfield, Ont.

#### HOME-BRED AND IMPORTED HOLSTEINS



We must sell at least 25 cows and heifers at once, to make roum for the natural increase of our herd. This is a chance of a lifetime to get a good bargain; we also have a few young bulls. Pontiac Hermes, Imp, son of Henderveld DeKot, world's greatest herd. Come and see them. ire, head of herd. Co.

H. E. GEORGE, CRAMPTON, ONT.

Putnam Stn., 11/2 miles-C. P. R. H-4-8-09

JAS. MCDONALD, J. W. DAVEY, H. B. DOEHRING,

common at \$5 to \$5.50 a cwt. The Buf-falo market is active and higher. Lambs are quoted at \$5 to \$6; wethers, \$5 to \$5.85; ewes, \$5 to \$5.25, and mixed sheep,

50.50; swes, 50 to 50.25, and mixed sneep, at \$5.20 to \$5.25 a cwt.
The hog market firmed up considerably during the week, though quotations on the market here remained steady at \$6.75 for selects, fed and watered. This price means \$6.50 f.o.b. at country points.

### SHEEP AND SWINE

BERKSHIRES AND TAMWORTHS Choice Berkshire Boars fit for service and sows ready to breed, by imported sire. Choice Tamworths, all ages, by a Toronto and London prize winning boar. Prices low, considering quality.

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A number of young boars from 4 to 6 months old from imported large English stock. These are an exceptionally good lot of young pigs and will be sold right. Full particulars on request. Write for prices delivered at your station. Also 3 AVRSHIRE BULLE rising 2 years.

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For Sale are my winners at the late Winter Fair, Guelph. Sows bred and ready to breed; boars fit for service, Younger ones of both sexes. Guaran-

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### NEIDPATH AYRSHIRES

Bull Calves dropped this spring. By imported Buil. First prize Toronto, Ottawa and Halifax. Long distance phone e-3-25-09 W. W BALLANTYNE, Stratford, Ont.

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large producer of milk, testing high in butter fat-ing stock for sale A few choice bull calves of 8 ready to ship. Prices right. Write or call or e-4-1-09 W. F. Stephen, Huntingdon, Que.

#### SPRINGHILL AYRSHIRES

Imported and home bred stock of a ages for sale. See our stock at the lead ing shows this fall. Write for prices, ROBT. HUNTER & SONS Maxville, Ont E 6-23-0

Long distance phone,

BURNSIDE AYRSHIRES

Are in such demand I will make another importati Will attend great dispersion sale of the world nowned Barcheskie Herd of Mr. And. Mitch trusted to me will be car advantage of this great few good ones. Corre satisfaction guaranteed, E-9-15-09

STONEYCROFT STOCK FARM Harold M. Morgan, prop., Sts. Anna d Bellevue. Cholce young Ayrabire Bull and helfers for sale. Yorkshire pigs from Imported Sires and Dame, February and March litters. Largest selection. High est quality. Write for prices. E 5-26-09 E. W. BJORKELAND, Manager.

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On hand young bulls for service. Several very choice August, 1906, also helfers in calf, young cows, and cows any desired age. Family cows a specialty. Orders age. Family cows a specialty. Orders porting. All orders for importing a form of the provided of the service of the s

R. REID.

Proprietor.

ALEX. HUME & CO., Menie P.O.

Drovers reported, however, that \$6.60 and \$6.65 were the ruling prices at f.o.b points in the country during the week the scarcity of hogs and the desire of the packers to get hogs to keep their cestablishments running forces them to put the the rule. keep their up the price. The Trade Bulletin's Lon-don eable of Feb. 11th re bacon reads thus: "The market is quiet at a further advance of 6d. Imports from Denmark are still liberal. Canadian bacon, 53s to 57s."

UNION STOCK YARDS PRICES

West Toronto, Monday, Feb. 15.—There ere 50 cars at the Union Stock Yards were S0 cars at the Union Stock Yards this morning comprising 110° cattle, 13° sheep, 41 hogs and 10 calves. The market ruled steady at about last week's quota-tions. Choice export steers sold at \$5 to \$5.50 and buils at \$4 to \$4.50. Choice butchers' cattle sold at \$4.75 to \$5; good cattle, \$4.40 to \$4.75; medium, \$4 to \$4.69, coows, \$5.50 to \$4.50 acts. atompt at \$2.50 cooks. coves, \$3.50 to \$4.00 a cwt. Veni carrell at \$3 to \$6.50 a cwt: export ewes sold at \$3.75 to \$4.55; rams at \$3 to \$5.50 at \$8.57 to \$6.50, with choice ones selling at \$8.50 to \$5.50, with choice ones selling at \$4.55 a cwt. Hogs are lower at \$6.35 and \$4.55 a cwt. \$6.50 a cwt. Hogs are lower at \$6.35 and \$6.40 f.o.b. at country points.—J. W. W.

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The best and later mill for Classis and Grading a kinds of Seed on Grain. THE TEMPLIN MFG. GO., FERGUS, ONTARIO

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#### SOUTH DEVON CATTLE

The annual sale of this wonderful milk and beef producing breed will be held at Tottees, South Deven, England, on April Tottees, South Deven, England, on Captil of the best strains will be golden built of the best strains will be golden built of the best strains will be golden built of the world do well to send or personally attend this sale and procure some of this unrivalled breed of cattle. South Devons are shapularly exempt from tuberculosis and America. A chanda and the U. S. of America. do well America

ALFRED MICHELMORE, Secretary, TOTNES.

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ork. \$2.00 per bottle, de vered. Book 3 D free. ABSORBINE, JR., fo

W. F. YCUNG, P.B.F., 123 Monmouth St., Springfield, Mass. LYBAN, SONS & CO., Montreal, Canadian Agents.

#### PETERBORO HOG MARKET

Peterboro, Monday, Feb. 15.—The delivery of hogs on the local market is very light. The demand for bacon in England lights, The demand for bacon in England is very poor. The delivery of Danish hogs on English markets last week was 42,000. The deerge Matthews Company, Peterboro, quote the following prices for this week: f.o.b. country points, 86.40; weighed off cars, 86.65; delivered at abattotir, 86.60.

MONTREAL HOG MARKET

MONTREAL HOG MARKET
Montreal, Saturday, Feb. 13.—Live hogs
are still further advanced. The supply
are still further advanced. The supply
of live hogs on this market has been limited during the past two or three weeks,
and as there has been a good demand and as strong
and as the market has had a strong
the story of the strong the story of the undertone which has been manifested in the slight increases in current prices from week to week. Prices ranged from \$7.55 to \$7.75 for selected lots weighed off cars, with an occasional extra choice lot mak-

ing as high as \$7.85 a cwt.

Dressed hogs are meeting with a fairly active demand in spite of the advance in prices, and dealers are making \$10 to \$10.50 a cwt. for fresh killed abattoir stock. Manitoba dressed are quoted at \$9.50 to \$9.75 a cwt., and country dressed at \$8.50 to \$9.50 a cwt.

### EXPORT BUTTER AND CHEESE

Montreal, Saturday, February 13. — The rade in cheese is still very dull. There is no demand from Great Britain whatever, trade in ch is the defined from Great Britain whatever, no demand from Great Britain whatever, less there is a speedy from the demand. There is considered from the demand. There is still a fair quantity of unsold chees onnewhat to bring on the demand. There is still a fair quantity of unsold chees in stock, but it is in strong hands, and it is not likely to be sacrified. The bulk of the stock, but it is in strong hands, and it is not likely to be sacrified. The bulk of the stock here however consists of cheese is stock, but it is not likely to be actified. The bulk of the stock here however consists of cheese however consists of cheese however consists of the stock has not been determined by the stock of the stock has not been determined by the stock of the sto

ome factories still running in the coun-

The drop in the price of butter is still the feature of the trade. There is a business of the property of the trade that the feature of the trade that the feature of the trade that the trade trade that the trade trad The drop in the price of butter is still the country towns and villages going without drawing upon the stocks in Montreal as in other years

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#### SHEEP

ABRAM EASTON, Appleby, Ont., Leicester sheep. Show ring and breeding stock for sale. 0-8-25-09 R. H. HARDING, Mapleview Farm, Thorndale, Ont. Dorset Sheep a specialty. Telephone. E-3-17-09

#### SWINE

JOS. PEATHERSTONE & SON, Streetsville, Ont. Large Yorkshirk Hogs for sale. E-11-09 Large resuma requirements the name of this publication when writing to advertise

### CATTLE

JAS. BEGG, ST. THOMAS, AYRSHIRES, Standard for this herd is 40 lbs. milk per day. No culls, e-5-19-09 J. A. 60YENLOCK, Forest, Ont. Herefords. Canada's greatest winners. Toronto and London, 1909-1908. Stock, all ages, for sale.

HARRISON BROS., Mr. Albert.—Hereford cattle. Ox ford Down sheep. Stock for sale at all times

-OUR .....

Februa

WATERV remem Since Jan. thaws whi and stoppe but it has ine. The destruction damage in mers have ed. The pr mains about a doz.; but a doz.; but

CHA

HOWICK. has been storms, no try roads There is ve ish lots a farmers by thick dairying p daily winte realize 22c to the 1st of gallon, while milk. This does not pa when the p more plenti half its predrought for been below specially h as extra a great ma creameries a cwt. for mand high. and high. at 5c a lb. hay have from \$11 fe to \$13 for

CANNAMO ing and cut putting in etc. Water heavy rain. good condit mers in the feed until t selling from

MERIVAL

something shipped out at \$6 to \$6

The popula

equally divi

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though th rather thin pastures las well taken and are not the exception Beef hind of cwt, accord \$5; butter, doz.; hay, \$ to \$1 a bas peas, \$1 a l It has been

> Expens for Inocu SUC

NIT Has no preparat everywh America

D Dept. 1

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DISPERSION SALE

OF 31 HEAD OF REGISTERED and 19 HEAD OF HIGH GRADE

JERSEY CATTLE

Also 11 HORSES, 6 of them brood mares in foal, 16 Pure-bred YORKSHIRE HOGS, at

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Terms -All sums of \$10 and under cash, over that amount 6 months credit on approved security. 3 Per cent. off for Cash.

ements, Dairy Utensils, etc., sold in the forencon. Sale of Cattle commences at 1 ck. Lunch at noon. Electric cars from Berlin every hour.

#### **OUR FARMERS' CLUB** Contributions Invited.

QUEBEC

COMPTON CO., QUE. WATERVILLE.—The winter of 1909 will be remembered as one of many thaws. Since Jan. 1st there have been three big thaws which have taken the snow away and stopped the lumbering for a time, but it has put an end to the water fambut it has put an end to the water fam-ine. The ice storms which caused much destruction in the west did very little damage in these parts. Although the snow has nearly all disappeared the far-mers have their season's wood all haul-ed. The price of feed and provisions re-mains about the same. Eggs are 30 to 50 cc. a doz.; butter is 20c to 30c a lb.; and pork 89 to 89.50 a cwt.-J. M.

CHATEAUGUAY CO., OUF.

HOWICK.—Although the weather here has been cold, we have had no severe storms, nor any late trains. The coun-try roads have been fine for teaming. try roass may been me for teaming. There is very little wood hauling, as the bush lots are about used up; most of the farmers burn coal. Farmers are busy drawing ice, which is about 22 inches craving for, which is about 22 inches thick. A great quantity is stored for dairying purposes, as from this station alone over 500 (4 gallon) cans are shipped daily winter and summer to Montreal. We realize 22e a gallon from the 1st of Oct. to the 1st of May. The freight costs 2c a gallon, which note us 25c a gallon for the milk. This price may seem high, but it when the price was lower and feed was more plentiful, and could be got at about half its present price. On account of the when the price was lower and feed was more plentiful, and could be got at about half its present price. On account of the drought for the last two years crops have a considerable to the last way are repeated as a considerable with the last way and the wind the wind the wind the wind the last way as extra good last year which will bely a great many to pull through the winter without buying much rough feed. Our creameries closed in Jan. They paid \$1.10 a cwt. for milk. Fresh milkers are scarce and high. Good beef is scarce: a few sold at 5c a b. live weight. A few cars of lay have been brought in. It sells at 56 a b. live weight. A few cars of lay have been brought in. It sells at 58 for things, the weight of the work of \$1.25 and the wind with the weight of the work of \$1.25 and \$1.25 a

ONTARIO STORMONT CO., ONT.

CANNAMORE—Farmers are busy hauling and outting their supply of firewood, putting in a supply of ite for summer, etc. Water is plentiful since the recent heavy rain. Stock is wintering in fairly good condition. The majority of the farmers in this locality will have sufficient cled until the grass comes. Good hay is selling from \$10 to \$12\$ in -E. L. M.

CARLETON CO., ONT.

MERIVALE—Cattle are wintering well, although they went into winter quarters rather thin in flesh, owing to the poor pastures last fall. There is going to be enough feed for all stock as it has been well taken care of. Prices remain steady and are not so high as last winter, with the exemption of pork. It is \$10 a cet. the control of the prices of the neer nind quarters sell from \$6 to \$8 act. according to quality; fronts, \$4 to \$5; butter, 26c to 30c; eggs, 30c to 40c ado.; hay, \$14 to \$17 a ton; potatoes, 90c to \$1 a bag; barley, 60c to 70c a bush.; peas, \$1 a bush; oats, 45c to 48c a bush. It has been a very fine winter for haul-

Expenses \$2, Profit \$100 per acre.

#### NITRAGIN inoculating Alfalfa, Clover and all Legs

SUCCESS GUARANTEED IF ITRAGIN PROPERLY USED

Dr. Reiche Nitragin Co. Dept. 108, Milwaukee, Wis. ing wood, ice, etc., on account of the good

GRENVILLE CO., ONT.

GRENVILLE CO., ONT.
PRESCOTT—There seems to be a sli-tht scarcity of fodder but farmers are trying to make it do. As a consequence farmers are coming out on the thin side already. Timothy hay sells for \$15 a. ton; clover. Timothy hay sells for \$15 a. ton; clover, the constant of the co dos.; creamery butter, 28c a lb.; potatoes, 69c a bush.; springers, 830 to 835 each; calves, 81.50 to 83; beef, 4c to 4\forallec a lb.; hogs, 7c to 7\forallec a lb; hides, 9c to 9\forall a

HASTINGS CO., ONT.

HASTINGS CO., ONT.
TURRIFF.—We hear of no scarcity of fodder, but oats, peas and potatoes are scarce. As this country suffers every dry season from forest fires, some people are declaring their intention of putting out free before all the snow is gone, when the scarce of the state of the st This clearing of the woods would be the salvation of much timber later on. It is one kind of forestry that would not cost much.—W. R.

HASTINGS .- The weather so far HASTINGS.—The weather so far has been really fine; enough snow for good sleighing, with no severe frost. Some farmers are still in need of rain to raise the water in the wells, but the majority have enough Dairy cows sold by auction have enough from \$50 to \$50 a piece. There are no statement of the property of the pr

NORTHUMBERLAND CO., ONT

EDVILLE—The farmers are having trouble with their turnips. They are rotting badly: from what cause it is hard to say for the winter has been of about the usual temperature. Some attribute the usual temperature. Some attribute it to their not maturing well, owing to the dry season last fall. It seems a pity that this should happen in this year of short crops when otherwise they would be of material assistance in wintering the

VICTORIA CO., ONT.

WOODVILLE.-The market for hogs WOODVILLE.—The market for hogs is steadily improving: farmers unloaded their hogs this week for \$8.50. Feed is not very plentiful but on the whole cattle are looking extra well. There is not a great deal of grain being marketed, probably on account of the condition of the roads. Wheat is selling from \$65 to \$1 a hush; barley, 55c; oats, 45c.—J. R. \$1 a bush.; barley, 55c; oats, 45c.—J. B.
OAKWOOD.—Farmers are taking advantage of the good condition of the roads
to haul their wood. Those who are fortunate enough to possess an ice house are profiting by the recent cold snap to secure a supply of ice for next summer's use. Feed is holding out better than was expected at the beginning of the winter, although some have barely enough to winter their stock, particularly with regard to roots. Hogs are selling well.-

HALIBURTON CO., ONT.

IRONDALE. - Cattle are looking fine. The feed seems to hold out well; if cold weather does not stay too long, there will be plenty. There was a fall of snow on Candlemas morning, then the sun came out bright and clear. Bruin could see his shadow most of the day.-J. P. H.

HIGHLAND GROVE.—Farmers fear that the lack of snow will bring disappoint-ment to the hay crop next year. It is liament to the hay crop next year. It is lia-ble to freeze out the new seeding. The lumber men have had to stop teaming. It is not to be quite ploritiful as yet, and cattle look be quite ploritiful as yet, other years. Hay and straw are no high-er in price than in the fall. Potatoes are very scarce. Oats are somewhat the same for I hear a great many farmers talking of buying already. They will need to of the price of the property of the people are prophesying an active of the people are prophesying an active or buyer more soil next year. Some of the people are prophesying an early spring, but we will likely know more about that by the first of May, or later on.—F. N. R.

WELLINGTON CO., ONT.

WELLINGTON CO., ONT.
BELWOOD.—The farmers are busy getting their supply of wood out. A few are
hauling manure but this not done extensively on account of the teaviness of
the soil. The prices offered have and
cattle are more encouraging the soil of
than they were last. Hogs sell for 6x5 and
cattle from \$5\$ to \$5.50. Some have
even been offered \$6\$ for May delivery.
Hay is selling for \$9\$ a ton; cats, 38e to
48e a bush; wheat, \$4e a bush. Horses,
except good ones, are rather dull.—R.H.S.

### IVE HOGS

We are buyers each week of Live Hogs at market prices. I For delivery at our Packing House in Peterborough, we will pay equal to Toronto market prices. If you cannot deliver to our Packing House, kindly write us and we will instruct our buyer at your nearest railroad station, to call on you.

THIS WEEK'S PRICES FOR HOGS DELIVERED AT FACTORY

\$6.60 a Cwt.

THE GEO. MATTHEWS CO., LIMITED

PETERBOROUGH.

HULL, - BRANTFED

LAMBTON CO., ONT.

LAMBTON CO., ONT.

WYOMING.—Although we have a mild winter, it will be well to be careful of the feed. No one can predict at what time spring will come. It is a better policy to keep feed now than have to buy long to the feed now than have to buy a final to the seed rain to be fanning mill. Now is the time to clean it, and clean it well. It should be run through two or three times. The stock will take care of all the screenings. If if you want a good crop take no chances with poor seed, but more the good plump and clean grain. Parmers were plowing here on Saturday, Feb. 6th. Many got two weeks' plowing done in Jan.—J. H. WIGN CO., ONT. HURON CO., ONT.

BLYTH.-We are having very pleasant

ised by those who are disposing of their animals. The Farmers' Institute meetings are being held throughout the country, and are fairly well attended; consequently the topics are well discussed. More of the property of the topics are well discussed. More of the topic of the top

BRUCE CO., ONT.

WALKERTON.—Fodder is plentiful; the great bulk of it is fed to stock for spring shipment. Hogs are selling for \$8.59; butter, Elc: eggs. 26: potates, \$9c a bag; hay, \$10 a ton; oats, \$0c: wheat, \$9c a bush. Stock of all kinds is deing well Hauling manure to the fields is the order of the Aav with most farmers. Some are BLYTH.—We are having very pleasant it. er. : Lie eggs. Se: potators. So a bag; winter weather, but no snow of any ac but so to cate, 8de.; what. 9de a count, which is very unusual. Horse fatrs are being held in many of the towns and bush. Stock of all kinds is future to the field in the state of the stock of all kinds is future to the field in the state of the day with most farmers. Some are streaming that the state of the day with most farmers. Some are all ages but attended by a such horse of spreading it; others are putting it in the state of the state of

Write for our illustrated booklet giving all the information useful and necessary to Syrup makers. It tells you how to get more dollars out of your maple gr.-ve.

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# Lightning E LOCK S

VERY Canadian farmer who expects to build or re-roof his ten years show no signs of wear, house or barn should write us tro-day for detfills of our Prees in their construction than every. Lightning Insurance Policy in the steel is of higher grade, and the status with Safe Lock Metal galvanizing is heavier. We have Lightning Insurance Policy in onnection with Safe Lock Metal Shingles.

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Safe Lock Shingles are sold at the same price as shingles known to be inferior in quality of steel, galvanizing and construction.

We have been manufacturing Safe We have been manufacturing Sale Lock Shingles for over ten years, and roofs laid when we started in business are still "as good as new," to quote from hundreds of letters we have on file in our office from our pleased and satisfied customers.

In all this time these roofs have not cost one cent for repairs of any sort. In all these years no building cov-ered with Safe Lock Roofing has ever been destroyed by lightning

know that Safe Lock Do you know that Safe Lock Shingles fully meet the rigid require-ments of the British Government for Admiralty and other public service, Think what that means. Let us illus-

Every farmer knows from experien Every farmer knows from experience that ordinary galvanized frening sel-dom lasts longer than two or three years without showing signs of rust. On the other hand, galvanized wire for Government use gives years and years of service, owing to the splendid galvanizing insisted upon. Safe Lock Shingles are galvanized the same as Government wire, and

willing The walle with "apprinted "the . . word "the

galvanizing is heavier. We have also made several improvements in manufacturing. For instance, every shingle is cut accurately to size before it is galvanized, thus protecting the edges of the shingles instead of leaving them raw and exposed to the decaying action of moisture.

us causing a leaky roof. Safe Lock Shingles cannot Safe Lock Shingles cannot be blown off, nor can they be pulled apart by warping of the sheeting, or any other cause. Study the small illustrations on

this page, and you will be convinced of the truth of this statement.

aving them raw and exposed to In Fig. 1 the solid black line as the decaying action of moisture. Shows the top lock, the shaded line the bottom lock. Notice that a

SAFE LOCK SHINGLES are the only shingles that-

- 1. Give you a positive guaranty against Lightning, backed up by a policy signed and guaranteed by the manufacturers.
- Meet fully the rigid requirements of the British Government for Public work.
- Lock on four sides, and cannot be pulled apart.
- 4. Have three (3) thicknesses of metal along upper edge at point of greatest strain.
- Completely protect nails from weather.

Have edges galvanized after being cut to exact size.

name Safe Lock. No other shingle double fold forms the top lock in has that name.

No other shingle is a Safe Lock to strength at the point Shingle.

Safe Lock Shingles lock positively with greatest strain comes. Safe Lock Shingles lock on the strain strain and the safe strain stra of buildings covered with these Safe Lock Shingles are galvanized shingles teng entirely unroofed in the same as Government wire, and a stiff breeze. Another objection is therefore may be depended upon to give long service. We really do not apart owing to the warping of the through the companion of the warping of the warping of the deep firm grip which allows sheeting to which they are nailed, ample room for expansion and

and the war worth the star wall and

Free Book about Roofing due to heat and cold. They cannot unlock

Illustrations 3, 4 and 5 show the construction of other metal shingles. 4

F10. 3

No. 3 is the old-fashioned cleat No. 3 is the old-tashnoned clear shingle now almost entirely driven from the market by the Safe Lock. These do not always shed water, and it is almost impossible to keep them from leaking after they have been on for a season or two. for a season or two.

F10. 4 Fig. 4.

Note in No. 4 that the mail is only about half way driven into the sheeting, leaving a large surface exposed to the weather. This makes a very assecure fastening for a roof, and this is still further weakened by the springiness of the steel, which has a tendency to pull out the mails, causing a loose, leaky, rattling roof.

F10. 5

No. 5 is a side slip pattern, similar to many now on the market. The one shingle slips into the other, but does not lock. Shingles constructed in this way pull apart easily and must not be confused with the positive lock in our Safe Lock Shingles, as shown in Fig. 2.

Fig. 2. Safe Lock Shingles are absolutely Safe Lock Shingles are absolutely uniform. We have spent time and money to perfect their construction, which is fully protected by patent. They are now easier than ever to lay, and a Safe Lock roof cannot leak, if the shingles are laid in accordance with our printed instructions. instructions.

The	Metal S	hine	rle
	Siding (		4

Rrofers to the Farmer Canada Lover St. Factory Preston, Ont. Branch Factory Out

d' P. O ....

Size of Roof, other Metal I