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### Should the Horse Breeders' **Exhibition be Removed**

The signal success of the horse reeders' exhibition, held last week at the Union Stock Yards, Toronto West, has revived interest in the proposal to move the exhibition to Guelph and The science interest in the proposal to move the exhibition to Guelph and hold it there in connection with the Guelph Winter Fair. At the banquet given to the breeders by the manage-ment of the Union Stock Yards, in Toronto last week, Mr. W. L. Smith, editor of the Weekly Sun, stated that the success of the exhibition had been so great as to demonstrate that To-ronto is the best place for holding the show. He claimed that not only should the horse show be continued in Toronto, but that the Winter Fair should be moved from Guelph to To-ronto and arrangements be made for the holding with it of a big dairy show.

As the success of any exhibition de-As the success of any exhibition de-pends upon the support given it by the exhibitors of stock, Farm and Dairy last week, interviewed a num-ber of the leading exhibitors at the horse show as well as some of the judges and other prominent horsemen and farmers, to find their views. All were asked to give their views freely, whether they were favorable or op-posed to the proposal. One or two seemed diffident about giving an ex-mession of ominon. The governmet' seemed diffident about giving an ex-pression of opinion. The provided and a second gives a large grant to the horse bre-d-ers and as the government apparently intends to move the show to Guelph, they did not think it wise to say any-thing that might appear to conflict with the intentions of the government. No one seemed enthusiastic over the thought of having the show moved from Toronto. Only one man declined to be interviewed.

### WHAT THE BREEDERS THINK

What the REEDERS THINK It will be noticed in the following interviews, that practically all who were spoken to, were of the opinion that the show should be continued in Toronto. They seemed to think that the convenience of the public and of the exhibitors should be considered ahead of those of a smaller place ans-ious to hold the show. They were generally of the opinion that, even if the show was moved to funch, it the show was moved to Guelph, it would ultimately have to come back to Toronto. It was felt that the Union Stock Yards are destined to become the great horse breeding centre of Ontario and of Canada. It was point-od cut the the canada. It was pointed out that the show has already out-grown the arena accommodation at the shock yards and that a new arena would have to be creeted there short-ly. All were enthusiastic about the splendid stabiling accommodations and railway fuelilities at the Union Stock Yards this year. ed out that the show has already out-

The following are the views that ere expressed

Wm. Smith, Columbus, Ont.-"'I have been in favor of holding the horse show in Guelph, but the suc-cess of the show at the stock yards

horse show in Guelph, but the success of the show at the stock yards has been a surprise to me." B. Rothwell. Cummings' Bridge. Ont-"As railway communications grow there is a tendeney to concourtrate at central points. Toronto seems to be the natural center for Ontario. As the country grows the advantages of Toronto will become more and more marked. Toronto, also, has the wealth that will enable it to enlarge the facilities for the horse show as it

grows. Already it is evident that we will have to have a still larger arena

will have to nave a sum-next year." A. G. Gormley, Unionville.-"To-ronto is more of a center for the breeding interests of the province. The shipping facilities at the Union Stock Yards could not be improved. Breeders in the West who come to On-tario to see the show buy their tickets for Toronto. They generally have for Toronto. They generally have other business to do in Toronto beside attending the show. I am not in favor of having the show moved from Toronto.

Toronto, average me show moved from Wim, Graham, Claremont, Ont.— "The Union Stock Yards are the best place to hold the show They are central, they are the natural center for the horsemen and four times as many people should attend the show at the Stock Yords as would at a smaller outside point." Robert Graham, Bedford Park.— "Toronto is the natural center. I prefer it for a horse show of this kind. Even should the show to to Guelph I am inclined to think that it would outgrow it ultimately and come back

I am inclined to think that it would outgrow it ultimately and come back to Toronto, where the facilities of all kinds for holding a show of this kind are so much better." R. H. Taber, Hillerest Stock Farm. Condie, Sask....'I don't think Guelph crud. Thermodate a show of this round in the second state of the second international inv is going to become international inv is going to become international inv is going to become international inv is going to be the Chicago show, unless it is held in To-ronto which is the only ralace in Can-ton the state of the second state state of the second state state of the second state state of the second state of the seco Chicago show, unless it is held in To-ronto which is the only place in Can-ada that has the natural facilities. Toronto can handle the crowds in a way no small place can. Out in the west we look on Toronto as the natur-al live stock center. Many of our breeders never heard of Guelph." I. M. Holtby, Manchester, Ont.-"I favor Toronto because it is the rail-way center. From our part of the province we can visit Toronto and get back in one day. We could not do that if the show was at Guelph be-

province we can visit Toronto and get back in one day. We could not do that if the show was at Guelph be-cause the railways have far betrey connections with Toronto than they ever will have with Guelph." W. H. Gibson, Beaconsfield, Que..-"The success of the show this year proves that the Union Stock Yards is, the place for the holding of the horse show. The men who are behind the slock yards know how to manage an affair of this kind. It would be a shame to move the show to Guelph where the accommodation for both people and stock cannot be ecompared

where the accommodation for both people and stock cannot be compared to that available in Toronto." John Bright, Myrtle Station.—"This show has been a huge success; the best we have ever held. The people who have attended it have done so because they are lovers of horses. It ough difficult to surpass it even in Gualph difficult to surpass it even

John A. Boag, Ravenshoe .- "Toron-John A. Beag, Ravenshoe.—"Group-to is more convenient for most of the breeders and importers. It is the beat place for a show of this kind. It has better facilities than any other place. The show this year has been a great success. It demonstrates what can be done here." L. J. C. Bull, Brammton, Ont.— "Taronto is a far better place for held

De done here." L. J. C. Bull, Brampton, Ont.— "Toronto is a far better place for hold-ing the show than Guelph. In Toronto we do not have to fight for beds and food the way we do at Guelph. The show the show the sould attend in Guelph horsemu would attend john Gardhouse, Hinheld.—"The Union Stock Yards is the best place for the holding of a horse show be-cause of the splendid shipping facili-ties and the unexcelled siabling ac-commodation. There is no other place where sellers and buyers: can get to-gether to the same advantage. This year's exhibition shows that the crowd will attend the show in the afternoon year's exhibition shows that the crowd will attend the show in the afternoon leaving the mornings and evenings free for the holding of the numerous breeders' meetings that are held in connection with it.

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FORMERLY THE CANADIAN DAIRYMAN AND FARMING WORLD FOR WEEK ENDING JANUARY 21, 1909.

L HOME

FARMAND WAIRL

### THE ADULTERATION OF CATTLE FEEDS

## A Law Needed That Will Require the Sellers of Feeds to Show Their Composition

COME at least of the mill feeds, that are being 0 sold in large quantities are adulterated, and otherwise inferior in quality. This was shown last week by Prof. R. Harcourt, of the Ontario Agricultural College, Guelph, Ont., in an address delivered at the annual convention, held in Brantford, of the Western Ontario Dairymen's Association. Farm and Dairy has been asked to look into this matter by leading dairy farmers who have felt that the cattle feeds they were purchasing at high prices were adulterated. At the convention of the Eastern Ontario Dairymen's Association, held recently in Prescott, Ont., Mr. P. Clarke, proprietor of the Silver Spring Dairy Farm, Deschene, Que., informed us that as a result of information he had received from another leading dairy farmer he had discontinued feeding bran to his cattle and their milk yield had increased.

Professor Harcourt told the convention at Branuord, that not only is there a wide variation in the composition of the same kind, of by-products of the mills, but that there is a tendency to mix residues of one grain with another and sell them under'a trade name. In some cases lowgrade by-products are added to those with which the farmer is familiar. For instance, oat hulls are sometimes added to wheat bran. This makes it impossible for the purchaser to form a correct idea of the composition or value of a food from its name.

Professor Harcourt advocated the taking of steps to have concentrated feeds sold in such a manner that the percentage composition rather than their name will be the guide to their value.

He pointed out that laws have been passed in many states of the American Union making it compulsory for the seller of mill by-products to print on the bag the guaranteed maximum percentage of protein and fat and the minimum percentage of crude fibre and, also, the grains from which the feed was made. In this way the buyers are able to know exactly what they are buying. While much that Professor Harcourt said was rather technical his remarks were followed closely by the farmers present. At the close of his address a request was made that it should be published so that the facts might be laid before farmers at large.

### CATTLE FEEDING

"The study of the science of cattle feeding," said Professor Harcourt, "has received a great deal of attention during late years. Fortunately, while a knowledge of the results of the numerous investigations would be of great aid to the thorough understanding of the subject, it is not essential to success; for the practice of some experienced feeders leaves little to be desired. They have learned much from their forefathers, and, this, together with long experience with the same

kind of cattle and feeding stuffs, and the natural instincts of a feeder, has enabled them to become proficient in the art of feeding. There are, however, many farmers, both old and young, who have not been bequeathed any valuable experience, and, further, there are on the market today a great variety of new cattle foods about which very little is known. Consequently there are many reasons why we should look into the question of the composition of some of the cattle foods.

### COMPOSITION OF FOODS

The feeding value of a food is largely determined by two factors: (1) Its composition, (2) its digestibility. The first of these deals with richness of the food in protein, fat, carbohydrates, and ash materials. The second determines the extent to which these various constituents become available in the body. A knowledge of the composition of a food is important if it is to be used intelligently. Those foods which contain the largest amounts of the protein and fat and the smaller percentage of crude fibre are the most valuable. The following table gives the percentage amount of the various food constituents present in a number of the most common foods:

### COMPOSITION OF CATTLE FOODS

	Water	Crude Protein	Fat	Soluble Carbo- hydrates	Crude	Ash
Wheat Oats Barley Corn Peas.	$11.0 \\ 10.9 \\ 10.6$	$11.9 \\11.8 \\12.4 \\10.3 \\22.5$	$2.1 \\ 5.0 \\ 1.8 \\ 5.0 \\ 1.6$	71.9 59.7 69.9 70.4 53.7	$1.8 \\ 9.5 \\ 2.7 \\ 2.2 \\ 5.4$	$1.5 \\ 3.0 \\ 1.8 \\ 1.5 \\ 2.8$
Timothy Hay Clover Hay Alfalfa Hay Oat Straw Corn Silage Mangels Turnips	15.3 8.4 9.2 79.1 90.9	5.9 12.3 14.3 4.0 1.7 1.4 1.1	2.5 3.3 2.2 2.3 0.8 0.2 0.2	$\begin{array}{r} 4.50 \\ 38.1 \\ 42.7 \\ 42.4 \\ 11.1 \\ 5.5 \\ 6.2 \end{array}$	29.0 24.8 25.0 57.0 6.0 0.9 1.2	$\begin{array}{r} 4.4 \\ 6.2 \\ 7.4 \\ 5.1 \\ 1.4 \\ 1.1 \\ 0.8 \end{array}$
Wheat Middlings Wheat Bran Cotton Seed Meal Gluten Meal. Gluten Feed Brewer's Grains Oat Hulls Dried Beet Pulp	$10.4 \\ 5.9 \\ 9.1 \\ 7.1$	$15,5 \\ 15,0 \\ 44,2 \\ 30,4 \\ 38,8 \\ 25,0 \\ 14,6 \\ 2,2 \\ 8,5 \\ \end{cases}$	3.9 3.8 13.6 7.1 3.4 4.6 6.6 0.9 1.1	$\begin{array}{c} 62.5\\ 57.0\\ 24.6\\ 36.9\\ 47.6\\ 54.8\\ 58.1\\ 53.9\\ 65.9\end{array}$	4.3 8.7 4.8 10.6 2.0 5.9 12.8 2%.1 15.2	3.7 5.1 6.9 5.9 1.1 1.3 6.8 6.4

### FORAGE PLANTS

"The valuable forage plants of this country belong mostly to two families, the grasses and the legumes. June grass, red top, timothy, and the cereal grain plants are types of the former; and the clovers, alfalfa, and peas of the latter. The most essential difference between the members of the two families of plants when considered as feeding stuffs is in the larger proportion of the protein in the legumes. For this reason they are very justly regarded as the better foods for growing stock and for general use on dairy farms. "The composition of all dried fodders and roots,

foods that are fed in an immature state, is liable to considerable variation. The composition depends largely on the stage of maturity at which they are cut and also upon the character of the manuring. In general it may be said that as a plant matures the proportion of water, protein, and ash matter decreases, while the proportion of carbohydrates, especially of fibrous material, increases. As this latter substance is largely indigestible, fodder crops deteriorate towards maturity.

"Young grass is much richer in albuminoids and contains a smaller proportion of indigestible fibre than older grass, and is, consequently, more nourishing. The same comparison may be made between young clover and that which is allowed to mature for hay. It follows that fodder crops should be cut for hay before they reach maturity, and experimental work and general experience has fully demonstrated that these crops should be cut immediately after full bloom is reached. Alfalfa is an exception to this, because it very rapidly becomes fibrous and should be cut in the early blossoming stage to obtain the best results.

"Fodder crops deteriorate towards maturity, because of the conversion of soluble forms of carbohydrates into the insoluble and indigestible fibre. Root crops, such as mangels and potatoes, improve, owing to the carbohydrates produced in this case being sugar and starch, both of which are of great feeding value.

"The root crops do not contain a very large amount of the valuable food constituents, but when fed along with the dried fodders, they probably have a food value much greater than their composition indicates. This is due to the increased succulency which they impart to the ration.

### WHY GRAIN IS FED

"The place of grain in a ration is to increase the proportion of protein and other digestible materials, or in other words, to make the ration more concentrated. Cows of 1,000 lbs, weight need approximately 16 lbs. of total nutrients daily. Animals that are thin in flesh, especially when fresh in milk, can consume two or three pounds more to advantage. Of these 16 lbs., approximately 2.5 lbs. of protein is necessary, in order to enable the cow to produce large and continuous yields of milk.

"If a cow is fed all day, she cannot eat enough of the food to obtain the amount of the nutrients mentioned. Thus, suppose a cow should be fed all she can consume of any palatable, dry. coarse fodder, such as good hay, she would have at her disposal the following digestible nutrients, approximately: Protein 1.4 lbs.; fat 0.4 lbs.; carbohydrates 12.4; total 14.2. Such a ration lacks in protein, as well as in total digestible matter.

"In order to overcome these deficiencies, recourse is had to the concentrated feeds, rich in protein, and sufficient is added to increase the protein to the desired amount. This is the function of grains and concentrated by-produces of the ra-

### MILL FEEDS

"Pea meal, lineaed meal, gluten feed, wheat bran, and middlings are foods rich in protein and are, therefore, most valuable components for a ration intended for dairy cows. On the other hand, it is evident that out hulls, dried beet pulp, corn bran, and such low grade materials cannot build up the protein side of a ration. They are also entirely unfit to be used as substitutes for linseed meal, gluten meal, gluten feed and such nitrogenous materials.

### MUST HAVE PROTEIN

"When purchasing foods the percentage of protein they contain is of prime importance. The home-grown crops, especially the grasses and cereal grains, are more likely to be deficient in this than in any other constituent, but when clover or alfalfa hay are used as the coarse foods, the use of concentrates, especially rich in protein is not so necessary.

"The shortage of coarse foods and grains the last few years has been the means of causing many feeders of live stock, particularly dairymen, to consider the advisability of purchasing certain of these mill by-products for which, heretofore, they have had little or\_no use. Dairymen too are recognizing the fact that in order to secure the best results from their cows, they must feed a ration richer in protein than can, as a rule, be compounded from the grains, hay, and straw raised on the farm. The by-products best adapted to enrich the diet in protein are the residues from the manufacture of some specific product from the seed or grain, as, for example, oil from cotton seed and flax seed, starch and sugar from corn, beer from barley, and flour from wheat; rye, and buckwheat.

### ARE RICH IN PROTEIN

"All these by-products which include cotton seed meal, linseed meal, dried brewers' grains. gluten meal, gluten feeds, and the various kinds of bran, middlings, etc., are very much richer in protein than the original seeds or grains, because the substance extracted from them consists of fat, in the case of the first two, and of starch, or products rich in starch, in the case of the others. thus proportionately increasing the protein in the residues. All of these by-products have been found to serve an excellent purpose in the building up of rations. They are generally palatable and healthful and, if judiciously used, do not contribute any undesirable qualities to the products, beef or milk. They possess the further advantage in that, in many cases, the cost of the ration is reduced by their use. Their intelligent purchase and economical use, however, requires that the purchaser shall possess a definite knowledge of their composition. He should know, first, only how much protein and fat the genuine products cotton-seed meal, linseed meal, gluten meal, gluten feed, bran, and middlings contain. but also whether there is reasonable uniformity or wide variation in respect to these compounds in the composition of the products of the same kind or name; secondly, whether any of them are liable to be reduced in value by the addition of cheaper substances.

### FEEDS EXAMINED

"At the Guelph Agricultural College we have endeavored to collect some definite data regarding the character and composition of these by-products. We gathered a large number of samples and analyzed them, the results of which were published in Bulletin No. 138. Since this bulletin was published, we have analyzed many more FARM AND DAIRY (Formerly The Canadian Dairyman January 21, 1909. samples, and the results show that a large num-

ber of the various products offered for sale are of good quality, but that those of the same kind from different manufacturers vary quite widely in composition. In some cases there is a tendency to mix residues of one grain with another and sell them under a trade name, or to add low grade by-products to those with which the farmer is familiar, as, for example, oat hulls to wheat bran. The purchaser cannot form a correct idea of the composition or value of a food from the name given it.

### ACTION NEEDED

"Steps should be taken to have concentrated feeds sold in such a manner that the percentage composition rather than name will be the guide to their value. Laws have been passed in many of the states of the American Union making it compulsory for the seller of these mill by.

products to print on the bag the guaranteed maximum percentage of protein and fat and the minimum percentage of crude fibre, and, also, the grains from which the feed was made. In this way the farmer knows exactly what he is buying, and if he is familiar with the composition of his own feed stuffs and the requirements of the animals he is feeding, he can purchase his supply of concentrates intelligently and with every assurance that he is getting full value for his money.

"It will pay farmers in good hard cash to make a through study of the whole subject of cattle

feeding. They should make themselves familiar with the nature of the various feed stuffs now on the market in order that they may not only feed more economically, but that they may intelligently assist in the procuring of laws similar to those now in operation in the United States, which would make it possible to purchase feeds with a guarantee as to the amount they contain of the essential food constituents."

### Winter Care of the Colt

W. F. Kydd, Norfolk Co., Ont.

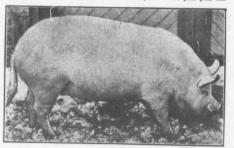
Those who desire to meet with success in raising horses, must be willing to go to some trouble to provide suitable places in which to raise the colts. Colts should have exercise every day throughout the winter, if the weather is not too cold. I prefer to have one or two small fields, of about one acre in extent, in connection with a small wooden building. The roof of this building should be weather proof and the sides sufficiently substantial to prevent the wind penetrating through the cracks. If possible, the door and window should open to the south. There are very few days in the winter, when the door should not be left open after nine or ten o'clock to permit the colts to go out and in as they feel inclined. Put in plenty of straw for bedding and feed oats and bran and as much bright clover hay as they will pick up clean. This, I consider, is an ideal way of wintering colts.

Do not put a yearling and a foal in the same place to feed unless the yearling is tied. Otherwise, the yearling, being older will consume the most of the grain. It is muc: more satisfactory to winter coils of the same age together. An outside shed such as I have suggested, is a better place in which to raise coils than a barn full of stock. If the coils are kept in the barn with other stock, they generally are kept so warm that they feel the coil to mouch when they are turned out to exercise and, therefore, do not do as well. I never allow my foals to follow the mother while at work. About a week after the mare has commenced work, it is well to permit the foal to nurse during the middle of the forenoon and of the afternoon.

Feed the foal well the first winter on oats and bran. They are the best bone and muscle producing feeds and they can be fed in larger quantities than any other feed. Most other feeds have a tendency to produce fat. It is very necessary that the foal shall have an opportunity of exercising every day of the winter if it is not too cold.

### Feeding Hogs Still Profitable

Geo. Martin, Mgr. House of Refuge. Waterloo Co. Ont. Following is a statement re the raising and fattening of hogs for market. We have been in the business for nine years. The past year has



A First Prize Yorkshire at Guelph Winter Fair Owned by J. E. Brethour, Brant Co., Ont. Note the trimness of the hog, its spring of rib, and its long, straight, even side.

> been the most expensive in our experience to feed hogs, the feed being so dear. Still, I am of the opinion that where there is proper accommodation, plenty of good water, hogs well fed and eared for, that even last year they could be handled at a profit. We do not think that we lost money in the business.

On the 1st of Dec., 1907, we had hogs		
to feed, valued at	\$ 450	00
From then to 1st Dec., 1908, it cost us	561	33
Total for hogs and feed	\$1,011	33
On 1st of Dec., 1908, we had hogs on		
hand, Fat hogs sold during the	\$ 417	00
year 1908, \$ 770 84		
Killed and used ourselves 170 20		
and the second sec	941	04
Total,	\$1,358	04
		-

Which left us a profit of ..... \$ 346 66

Naturally we had more milk and swill than any private farmer would have, but then we get between 40 and 50 loads of good manure, which will even up for milk and swill. Feeding hogs pays about as well as feeding oth r stock taking one year with another. Farmers should not quit the business; it enables us to feed at home all the grain that we grow and every month or two we dispose of porkers, and get the eash which in most cases comes in very handy.

We keep seven brood sows and a boar, purebred Yorkshires. I have thought sometimes it might be better to cross with some other breed, thinking perhaps we might be able to secure a class of pigs that would mature earlier—but I hesitate to drift off into mongrels.

It might be a good thing to send a commission to Denmark and learn how to carry on this pork business properly.

### **Better Cows Needed**

"Our Canadian farmers should endeavor to develop cows that will give greater results at the pail," said Mr. C. F. Whitley, of the Department of Agriculture, at a dairy meeting held recently in Peterboro county. "In Denmark, the Danish farmers in a few years, increased the milk produc-

### Push Cow Testing Associations

The following is a copy of the resolution relating to the work of the cow-testing associations that was passed at the recent convention of the Eastern Ontario Dairymens' Association :

Moved by Senator Derbyshire, seconded by Edward Kidd, and carried unanimously, 'That this association, recognizing the great value of the present campaign instituted by the Dominion Governmnt in favor of a large milk yield from better cows, urge upon the Dominion Minister of Agriculture the great need for a rapid extension of the work of the cow-testing associations."

tion of all their cows by 66 per cent. This means that all Ontario cows now giving 5,000 lbs. milk could be induced to give 8,300 lbs. a year.

"In Peterboro county alone, there are about 21,000 cows. Were the milk producing qualities of only half these cows increased, not by 66 per cent., but by only 50 per cent., it would mean that the Peterboro farmers would receive \$165,000 more for their milk than they did in 1908. This shows us what it would mean were the farmers throughout the dairy sections of Canada to increase the milk producing qualities of their cows in the same proportion. We must feed more corn and grain, and grow more soiling crops for summer feed. W must also use sires bred from cows having records as large milk producers.

"Our average Canadian dairy farmer with a herd of 20 cows has at least three in his herd that do not produce enough milk to pay for their keep. Were he to test his cows regularly, he would soon find which ones were not paying their way. By getting rid of them, he would make more profit from 17 cows than he now does from 20. This would save the labor that is now expended in looking after these three poor but costly cows, which would more than off-set the labor required to weigh the milk after each milking.

"One of our cow-testing associations showed that one man who had 28 cows, was keeping 11 that were not paying their way. After he got rid of these cows, his net receipts were larger from 17 than they had been from 28. That is why cowtesting associations are being formed in all parts of Canada, and why one should be formed in every section where there is none now."

### An Ice House and How to Fill It John Beemer, Brant Co. Ont.

An ice-house 12 x 12 ft. outside by eight ft. high would be ample for the needs of the average farmer. Such a house with a gable roof would require 2 x 4 scantling for studding. This should be boarded up both inside and outside with inch lumber, leaving an air space between the boards. The ice-house must have good drainage. To secure this necessary drainage raise the floor about six inches above the level of the surrounding ground with good gravel.

Before filling the house, place at least one foot of good saw-dust on the bottom, leave room for about ten or 12 inches of saw-dust between the ice and the boards at the side. This must be filled in as the ice is stored with either good sawdust or cut straw. I prefer good fresh caw-dust if it can be got. If straw is used it must be well packed. After the ice is in, cover it over with ten or twelve inches of dust.

Occasionally after storing and frequently

throughout the summer months, the saw-dust or straw, between the ice and the outside of the house, should be well tramped to prevent the air from circulating through and thus melting the ice. Where it is possible, I much prefer to have the ice-house on the north side of some other building, thus having it protected from the direct rays of the sun. The cost of the ice-house of the size described above, using all new lumber at \$30 a M. with shingle roof, and counting the labor and time of building should not exceed \$60.

Harvesting ice should be begun when it is from 12 to 14 inches thick. Cut it 18 x 24 inches square and put in the house in good cold weather. All ice should be well packed to keep the air from circulating through it and thus insure its keep ing. A small door should be placed in the gable of the house for ventilating.

For the average farmer it is much better and cheaper for him to buy his ice already cut than for him to cut it himself. I have proven from long experience that the best way to harvest the ice is to plow it one way and to saw it in the other, spliting off the blocks at the plow cut with a flat-pointed crow-bar. This is the only satisfactory way to get ice out and have it cut square. When cut by this method it will pack easily and at a minimum cost of labor.

### Sanitation in the Stable

Dr. H. G. Reed, V. S. Halton Co., Ont.

Next to the plentiful supply of good food there is no more potent factor toward the maintenance of good health in farm stock, while in winter quarters, than an abundant supply of light and plenty of fresh air.

Many barns-especially those erected in the side of a bank-have been constructed without any adequate precaution to insure either light or ventilation.

Some think that cows will thrive and do well in dark, poorly ventilated stables, but while they will withstand such conditions better than horses, yet it will pay the stockman well to see that even his cows are not deprived of those two very important adjuncts of good health.

It is well known that all forms of germ-life will thrive better in darkness, while sunlight will destroy many of them. Cattle consumption (tuberculosis), is a germ disease and consequently is contagious, but while it is contagious it is not

highly so. A consumptive cow might herd with healthy animals all summer while at pasture without much danger of the healthy animals becoming infected, but if kept tied up in a dark and poorly ventilated stable during the winter, some of the healthy animals would be in grave danger of contracting the disease. In fact, even a wellkept stable is a favorable medium for the propagation of germ-life and in the case of a dark and poorly ventilated one the danger is intensified to a very great extent.

While cattle will withstand unsanitary stable conditions but poorly, horses will do even worse. An ordinary attack of strangles or influenza among horses in such a stable often develops into serious complications. A veterinary surgeon called to treat any disease of the respiratory system of a horse confined in such quarters will always see that his patient is removed to some place where he can get an abundant supply of fresh air because he understands the difficulty of successful treatment without it. And if pure air is a necessity in restoring a sick animal to health it must also be very needful in maintaining healthy conditions in animals which are not sick

One of the strongest reasons for the fact that we have more serious cases of pulmonary diseases in the winter than in the summer is that the ordinary stable is very deficient in ventilation and the farm stock are compelled to breathe foul air altogether unfitted to maintain healthy conditions.

The question of light in a stable depends altogether on the window space and can easily be arranged, but in the matter of ventilation the remedy is much more difficult. Some sort of shaft or tube should extend from the stable to the external air, at least an opening should be made into the loft above and even this simple precaution is wanting in many barns. Ventilation, although a difficult problem is well worthy the attention of every stockman and the man who has mastered it has gone a long way toward the maintenance of good health in his barn.

When not working our horses we make it a practice to see that they are turned out each day for exercise. With colts it results in a better quality of bone, increases their lung capacity and keeps them in better condition .- A. G. McKenzie, Oxford Co., Ont.



A Familiar Winter Task on an Ontario Farm

In these later days of high-priced labor, all progressive farmers haultheir farm yard manure to the fields as soon as it is made, spreading it on the snow when practicable. Since the manure spreader has come into more common use it is popular to hand the manure to piles, from whence it can be really spread when the snow disappears. This illustration was taken on the farm of Mr. Kerwin, Huron Co., Ont.

### Horse Show a Success

large attendance of horsemen from all parts of Ontario, and many entries of horses, of high quality,



which taxed the capacity of the acwhich taxed the capacity of the ac-commodation provided, made the ex-hibition of the Ontario Horse Breed-ers' Association held last week in the Union Stock Yards, Toronto, a dis-tinct success. The seating capacity of the arena was taxed to its utmost; hundreds stood around the show ring. A larger building will be required next year. All present were enthus-instic as to the quality of the exhibi-tion. A large orchestra enlivened the proceedings throughout the show.



William Smith, Golumbus, OM. The members of the Ontario Horse Breeders' association, at their annual meeting in Toronto lard week, re-olected their president for 199, and to represent them on the board of the Toronto Indu-trial Exhibition. The success of the horse was due largely to the editors of Mr. Smith, who is one of the leading breeders and importers of horses in Ganada. Mr. Bar has a member of the well-known firm Ont.

while the tan-bark arena in which the horses were shown made a scene of much interest

The number of entries in the The number of entries in the various classes were as follows: Cly-desdales, 66; Canadian bred Clydes-dales and Shires, 34; Shires, 15; Hack-neys, 10; Standard-breds, 12; Thor-oughbreds, 12; Ponies, 9; Heavy Draughts, 20; total, 180.

### CLYDESDALE CLASSES

The show of Clydesdale stallions was perhaps one of the best ever seen in Canada. Many breeders not formin Canada. Many breeders not form-erly well-known over the province came out with stuff of extra good quality, while the amateur farmer felt that he stood a chance of competing as perhaps never before. One of the features of the show was the win-ning of the Clydesdale championship ning of the Clydesdale championship by Sir Marcus, now in the hands of Graham Bros., of Claremont, and the carrying off of the rist honors by Mograzia, the beautiful standard-bred stallion, owned by Miss Wilks, of Galt, and shown by her groom on horeback. T. H. Hassard's Hackney stallion, Atwick Astonishment and his pory, Royal Review, created much fasing magnificent types. Partionilar enthusiasm

Particular enthusiasm was exhibit-ed when the Clydesdales came into the ring. Especially was this the case when the four-year-old stallions were being judged. Fifteen magnificent horses lined up, and if ever judges

were taxed this was a case in point. Every animal was a most commend-able one, and the placing of the rib-bons took a long time. Finally the awards took place, when Smith and Richardson's fine black son of E er-lasting, Black Ivory, won first place. Next to him came John Boug's bay by the same size. Graham Bros. were taxed this was a case in point. Baron Laird was third and T. H. Has-sard's First Baron fourth.

sard's First Baron fourth. Other exhibitors in heavy hcrase were Hodgkinson and Tisdale, of lea-vorton; T. D. Elliott, of Bolton; Jchan Wiggin, Guthrie; A. G. Clarke, Alioa; Thos. Mercer, Markdale; Wm. Lak-ing, Hamilton; O. B. Gibson, Azhur; J. M. Gardhouse, Weston; Dalgetty Bros., London, and others. The strong competition in the Hackes strong competition in the Hackes atomic competition in the Barbar animals included a number of exceptional merit. The channics.

of exceptional merit. The champion-ship was won by Graham Bros., of Claremont. Graham & Renfrew, of Bedford Park, had some splendid in-dividuals and were prominent winners.

BUYDANIAS AND WERE PROMINENT WIN-ners, and there are shown by Miss EL. Wilks of Gaits, Cow & Murray, K forwarts, Hard Bart, Cow & Murray, K forwarts, Hard Bart, Cow & Murray, K there are a schildled by Doane Bros, of Toronto; W. J. Stin-son, of High Park; T. D. Elliott, Bol-ton; Patterson Bros, East Toronto; Jas. Bovaird, Brampton; Crow & Murray, Toronto; M. A. and J. G. Barber, and others. Hackneys were exhibited by Graham Bros, of Clare-mont; Hodgkinson & Tisdale; T. H. Hassard; Dalgetty Bros, Graham & Renfrew, of Bedford Park; G. H. Pickering, Brampton; John A. Boag, of Queensville, and others. A most happy method of fixing pub-

A most happy method of fixing pub-lic favor to the present show was in-troduced by the Union Stock Yards Co., when they decided to tender the horse breeders a banquet which was Co., when they decided to tender the horse br-seders a banquet which was successfully carried out in the big Horse Exchange Pavilion. President J. D. Allan, of the Bock Yards Asson the toast list ware: Prevident Allan, Senator Campbell, Hon, Jus. Duff, Supt. J. Lockle Wilson, Ex-Alderman Score, Mayor Baird, J. J. Graham. Andrew Smith, V. S., Pres. Wm. Smith, W. F. McLean, M.P., Dr. Grange, J. M. Gardhouse, W. L. Smith, W. J. Brown, W. W. Chap-man, and others. The enterprize of the Stock Yards' Co. was ecumended by the whole gathering as the creation of these yards saved the live stock trade to Ontario and gave the farmers a broader market for their produce.

### Shire Horsemen Meet

Shire Horsemen Meet It was decided upon last week at the meeting of the Shire Breeders' Association held in the King Edward Hotel. Toronto, that from July 1st, the cost of registration for Shire Horses up to three years old will be \$11 for the members of the Canadian Shire Association and \$2 for out-siders. For all animals over that age the cost will be, for members \$2 and for non-members \$4. This is calculated to put a stop to the practice of the farmers and breed-ers waiting till a horse has grown old before registering it. The old-dashion-ed constitution of the association was changed to the he same form used by all

changed to the same form used by all other breeders' associations in Canada.

### OFFICERS

OFFIGERS The officers for the ensuing year were elected, and are: President, Wm. Laking, Haliburton; 1st vice-presi-dent, John Breekon, Appleby: secre-tary-treasurer, G. de W. Green, Toron-to, Directors-Thomas Mercer, Mark-dale; J. M. Gardhouse, Weston; J. Dalgety, Glencon; O. E. Porter, Appleby: James Henderson, Bellon; O. K. Geary, St. Thomasy John Gard-house, Highfield J. M. Gardhouse was appointed delegate to the Industrial Fair.

**Clydesdale** Men Meet

Resolutions favoring the sending of a committee to Chicago to bring about some better regulations regarding the recording of Clydeadales in the Ameri-can books, was passed at a largely attended annual meeting of the Onnadian Clydeadale Association held in the King Edward Hotel last week. Henceforth persons making applica-temportation and the second second second second to the second tion for registration of four-cross Clydesdale mares must make a statu-



John Bright, myrite Station, Citt. The members of the Dominion Clydes-dale Breeders' Association, at their annual meeting in Toronto last week, reelected Mr. John Bright, of Myrtle Station, as one of the best known breeders of Clydes-dale horses and Shorthorn cattle in Can-dad. He farms on a large scale in Ontario County, and has at times managed three farms at once. Mr. Bright is a will known figure at the leading exhibitions and is generally popular.

tory declaration to accompany the

application. Much business of importance was done. Considerable feeling was expressed against fraudulent pedigrees and persons casting aspersions on the certificates of the board.

The election of officers took place

and resulted in the following: President, John Bright, Myrtle; vice-president, Robert Graham, Bed-ford Park; vice-president for Ontario, P. Christie, ex-M.P.; directors, Messrs. Wm. Smith, James Torrance, John Boag, Thomas Graham, James Henderson, A. G. Gormley and A. E.

Major. The treasurer's statement showed total receipts of \$11,056.37, and a ba-lance on hand of over \$3,000.

### **Annual Live Stock Meetings**

Dominion Cattle Breeders' Associa-

Jointhion Cattle breeders Associa-tion.-Temple Building, Toronto, Mon-day, February 1st, 2 p.m. Ontario Large Yorkshire Swine Breeders' Association.-Palmer House, Toronto, Tuesday, February 2nd,

7 p.m. Dominion Swine Breeders' Associa-tion-Temple Building, Toronto, Wed-nesday, February 3rd, 9:30 p.m. Ontario Berkshire Society,-Palmer House, Toronto, Wednesday, February

3rd, 1:30 p.m. Ontario Sheep

Ontario Sheep Breeders' Associa-tion.—Temple Building, Toronto, Fri-day, February 6tb, 930 a.m. Dominion Sheep Breeders' Associa-tion.—Temple Building, Friday, Feb-ruary 5th, 1:30 p. 1.

### **Ontario Horse Breeders** Association

The members of the Ontario Horse Breeders' Association, at their annual meeting last week in Toronto, decided meeting last week in Toronto, decided unanimously to have their officers press for legislation restricting the travelling of unsound stallions and ultimately, possibly, grade stallions as well. The association has had this matter under consideration for two matters of the presented is the state of the years and is supported in the stand it has taken by the report of the com-missioners that examined the stallions of the province two years ago.

OFFICERS ELECTED

appointed The following officers were elected : President, Wm. Smith, Columbus; Continued on page 19



YOUR STALLIONS Just as You Insure **Your Buildings** 

The loss of a stallion represents a certain capital, the reimbursement of which comes in handy to replace the lost animal whether death be due to accident or disease.

On payment of a small premium On payment of a small premium our Company will insure your Stal-lion, as well as your Horses, Mares, Colts, Fillies, Bulls, Cows, Calves, Hogs and Sheep against death by accident or disease. Booklet Sent Free on Demand

Agents wanted in unrepresented dis-tricts where resides a veterinary surgeon.

**GENERAL ANIMALS INSURANCE GO. OF CANADA** Dept. C., New York Life Building, Montreal DON'T FEED YOUR CALVES MILK

Blatchford's Calf Meal ,

IS BETTER, CHEAPER, MORE HEALTHFUL

It is conceded to be the only real milk substitute

in the world. Makes stronge: and healthier animals and sweeter, firmer, whiter yeal than any other known method of feeding. Prevents scouring. Costs half as much as milk and contains no mill feed or other by-products

Will 100M for our valuable free book. ' How to Raise Calves Cheaply and Successfully Without Milk. It contains the concentrated experience of the gener-ions which this firm has speed in learning to produce absolutely perfect calf food. The 50,000 farmer: who using Hatchford's Calf Meal today know its value. Your name on a postal will bring this book.

> Address : STEEL, BRIGGS SEED CO., Ltd., - - TORONTO, ONT.



## Resolutions favoring the sending of

The Feeders' Corner The Feeders' Corner is for the use of violation and seatons, or send items of interest. All questions will receive prompt attention.

# A Word About Corn

I have been following with much interest the various questions on feed-ing which come out in this Feeder's Corner from time to time. One pecu-liarity that has struck me is the comharing that has bruck me is the contained of the paratively small number of questions having to do with the food value and methods of feeding either corn silage or dry corn fodder. I am wondering whether this is due to the small number of persons using corn as feed for cattle or to such as do use it having fewer troubles and, therefore, needing less information than others. Let us less information than others. Let us hope as is probably the case that the latter is the true explanation Such accepted as the reason for fewer enquirles it would seem evident that corn is the right thing to feed. I, at least, am of the opinion that no better crop can be grown by our Canadian dairy farmers, that no better feed can be fed our Canadian dairy cows, be they scrubs, grades, Ayrshires, Brown Swiss, Canadians, Dutch Belted, Guernseys, Jerseys, Holsteins, or Shorthorns, than this same strong growing, nutritious and palatable crop, corn

NO CROP LIKE CORN

After 30 years' experience on dairy farms with from 20 to 150 cattle, I am also firmly convinced that no other crop will begin to approach corn as a crop will begin to approach corn as a crop to permit of carrying a large stock on a small area. My experience extends to its use in practically every way imaginable. I have fed it summer, anturn, winter and spring. I have fed it as green feed in summer and as allage in all seasons. I have used it, by first harvesting the grain, that bey fing the cover set the stat during the end and early winter. I have shocked the cover there it green and hauled it fails and early winter. I have shocked the scop where it grew and hauled it in from the frozen icy fields as needed through the live-long wearly winter. I have stocked it in long rows near the harms and wrestled with it day after day, foul or fair, getting for the cattle what little was lett from the mildew, the mice, the frost and the rain. I have stacked it in the barn. I have buried it in straw—then pre-cipitately dug it out again when things started to warm up. If there is any other way of using it any of you ever heard of, I guess I have tried it and tried it over again, only to come to the conclusion that while it is well worth while no matter how saved, to the conclusion that while it is well worth while. no matter how saved, so long as it is well saved, yet to get the most good it must be ensiloed. Corn well preserved in the silo is more palatable than when saved in any other way. It is always ready to feed, always at hand and always a welcome part of the ration to horses, eath a sheer or wrine cattle, sheep or swine

GROW CORN THIS YEAR

Now gentlemen, you, who grew no corn last year, let me urge upon you that you get to work and grow some this year. This is going to be a pretty good if not a remarkable good year

Seldom See ke this, but your horse bunch or bruise on his Stiffe, Knee or Throat. SORBINE will clean show off without laying the horas up. No blister, no hair gone. 200 per bottle delivid. Book 5 D free. Alt-SQL HIN K. J. M., for mankind, §J. Paunful Swellings, Scharzed Gianda, Warlong Veins, Varicosteose Veins, Varicos-in, Book free. ath St., Springtield, Mass.

seccesseccesseccess for corn. I know it, for in 30 years, for corn. I know it, for in 30 years, I have never seen it a complete fail-ure and I have often seen it a bumper crop. Yes, this is the right year to start. Do not think of growing less than one acre for every five or six cows in your herd. You will grow more after a while, but that is a pretty good start. And you, who are growing corn, but have no silo, get busy right now, and make prepar-tions for building one this year. If you have not got the money or mater-ial, why look them up. No live stock man who keeps more than 10 head of ial, why look them up. No live stock man who keeps more than 10 head of cattle should think of trying to get along without one. If will save its cost in-well I was going to say in one sea-son, but very certainly in two seasons and will last your life time. There are two kinds you can build, stave or cement. The former is more cheap-ly and more easily built. The latter is more durable and probably more economical in the long run. When you build, do it well, whether stave or cement. ent

If you are really interested in your business and can possibly raise the cash—a dollar and a half to two dollars a ton capacity, will do-you will follow the recommendations of yours truly, who like yourself is "After Results."

### **Dairy Herd Competition**

Dary Herd Competition The directors of the Western On-tario Dairymen's Association again promoted a dairy herd competition during 1908 donating \$100 in eash prizes for patrons of cheese factories and creameries in Western Ontario. Byrie Bros, of Toronto, again very kindly donated saliver and a bronze rules of the competition were µ-bilai-ed some months ago in these columns. The prizes were for patrons of cheese ed some months ago in these columns. The prizes were for patrons of cheese factories: 1st, a silver medal and \$15 in cash; 2nd, \$15; 3rd, \$10; 4th, \$6; 5th, \$4. The prizes for patrons of creameries were: 1st, a bronze-medal and \$15 in cash, and \$15, \$10, \$6 and \$4, in the order named as for patrons of cheese factories. No herds of fewer than eight cows

No herds of fewer than eight cows was allowed to compete. The figures upon which the awards were placed upon which the awards were placed were taken from the cheese factory or creamery books, the number of cows in the herds and the total and averag, amounts of milk or butter-fat pro-duced was certified to by the cheese duced was certified to by the chceas or butter maker and the secretary of the chcease factory or creamery. The average amount of milk or butter-fat per cow was calculated on the basis of the total number of cows from which milk or cream was sent to the basic or desired the secret of size which milk or cream was sent to the factory during the season of six months, from May lat to October 31st, 1998. No evibatiution of one cow for another was allowed. A director of the association or one of the instructors visited the farm of the winning computing.

of the instructors visited the farm of the winning competitors, examined the books of the secretary of the res-pective factories and satisfied them-selves so far as possible that each competitor has complied with the rules and regulations. The prizes were awarded as follows:

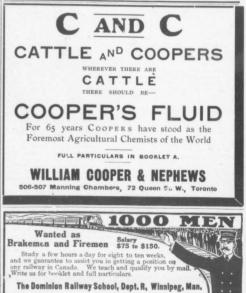
The prizes were awarded as follows: Class 1, Sec. 1, Cheese Factory -Class Patrons

Patrons. 1st.—Jno. W. Cornish, Sprucedal Farm, Harrietaville, 8 Holstein grade cows, 57,494 total pounds of milk, 7,343 Ibs. of milk per cow, \$484.02 total money, \$68.50 money per cow. 2nd.—Seymour Cuthbert, Aberdeen Farm, Sweaburg, 14 Holstein cows, 100,802 total pounds of milk, 7,200 Ibs. 00,002 total pounds of milk, 7,200 Ibs. 0,017 fibt. per own, etcaw.

of milk per cow, \$946.19 total money, \$76.58 money per cow. 3rd.-W. E. Thomson, Leslie Farm, Woodstock. 11 Holstein and Holstein grades, 77,066 total pounds of milk, 7,066 lbs. dn milk per cow, \$662.20 total money, \$50.44 money per cow, 4th.-Geo. W. Pearce, Hillside View, Tillsonburn 4 gras. 96,001 total pounds of milk, 6400 lbs. of milk per cow, \$939.52 total money, \$61.76

FARM AND DAIRY (Formerly The Canadian Dairyman and Farming World.)

noney per cow. 5th.—Mason Bros., The Maples, Turell. 20 Holstein and Holstein grades, 125,322 total pounds of milk, stein, 8 cows, 48,726 total pounds of 6,296 bbs. of milk per cow, \$1,607.00 milk, 6,690 bbs. of milk per cow,



# FENCE TALK No. 5

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

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.

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 have only "hard drawn" wire.

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

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

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 buy Ask for it (it's free) from Page Wire Fence Co., Ltd., Walkerville, Toronto, Montreal, St. John, Vancouver, Victoria.

# "PAGE FENCES WEAR

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

Cox, \$497.50 total money, \$43.50 money per cow. Alfred Thomas, The Maples, Gols-pic. 14 grade Durham, 55,673 total pounds of milk, 3,976 lbs. of milk per cow, \$586.45 total money. \$41.89 money per cow.

moncy per cow. Class I, Sec. 2, Creamery Patrons: 1st.-R. M. Bowie, Maple Lane, Beachville, 11 Common Grade cows. 2,1965.5 total pounds of fat, 199.6 lbs. of fat per cow. \$640.27 total money, total pounds of the common section section

S65.21 money per cov. 2nd.—Frank Wright, Kerwood, 14 Grade Durham. 1,779 total pounds of fat. 127 108. of fat per cov, \$429.81 total money, \$30.70 money per cow.

### Increased Make of Cheese and Butter

The production of cheese and butter The production of cheese and butter in Western Ontario has increased in yoite of the failing off in our exports of dairy products. This was pointed out by Mr. John Brodie, of Mapleton, the president of the Western Ontario Dairymen's Association when present-in the director's report to the conven-tion of the association held last week in Brantford.

in Brantlord. "According to the trade returns," wide Mr. Brodie, "it is shown that the amount of checks exported from the whole of Canada for the serson of 19%, is reduced about 140,000 boxes. This is probably due to the unfavora-ble elimatic conditions which prevail-ed in different parts of the checks producing section, both 1907 and 1908. Increased home consumption has had a marked effect on the exports, parti-cularly that of butter. The increased

through higher prices nearly as much total money. "From census Statistics Bulletin No. 7, we find that for the Province of Ontario from the year 1900 to the year 1907, there was a decrease of the total amount of cheess made in Ontario emounting to 1.337 tons, but while the alue of the large quantity in 1900 was \$13.400 S7, that of the smaller production in 1907 was \$15.106,080 or \$1.405,044 0S7, that of the smaller production in 1907 was \$15.106,080 or \$1.405,043 more owing to the larger price obtained per sound. In the manufacture of buttle ... & find that in the same period there was an increase of \$61 tons, with an increase in value of \$625,522. However, we wish to em-phasize the point that it is not so much an increased price that we should look to for furture increase in profits, but to find the prove the prove the sound of the indi-vidual cow. vidual cow.

A GAIN IN '7ESTERN ONTARIO

"In Western Interio, we find that in 1907 we produced 16,827 tons of cheese, and 2,332 tons of butter. From reports of the instructors and from other reliable information we find that other reliable information we find that although two more milk condenseries were established in our best dairy dis-tricts in 1006, still the production of cheese was maintained and in many sections increased, and the production of butter increased by 338 tons. Thus the production of cheese and butter in Western Ontario in 1909 shows an increase rather than a decrease. increase rather than a

SOME FACTORIES NOT NEEDED

Several new factories will be erectd before next season opens, some of these in sections where formerly the co-operative factory system had not to any extent been in vogue. We de

While scarcely over a year old, "Frost" Woven Pence holds the record for hig sales. Notwithstanding heavy production and almost constant operation of our big plant, we had less of these goods on hand at the our big end of our first year than we had at the end of the first week.

December, January and February usually are "lean" months in the fence business, but "Prost" factory is working overtime. We are busy making a fence that is generally acknowledged the most perfect "factory-make" (ence on the market. It enjoys the distinction of possessing the strongest and most server, binding charging more induced and workstore market. It enjoys the distinction or possessing the strongest and most secure binding (having more inches and weight of wire in the tie) on a "ready-made" fence. The horizontal and stay wires are made from the same grade of hard steel wire as 'Frost" Coiled Wire,

Ample provisions are made for expansion and contracti FROST WIRE FENCE CO., LIMITED, Hamilton, Ont.

\$440.83 total money, \$55.10 money per cow.
J. W. Earley, Pleasant View, Ker-J. W. Earley, Pleasant View, Ker-bounds of milk, 4730 Bos, of milk per in export state producers receive states of the producers receive through higher prices nearly as much where the fact that several of these already well served by existing fac-tories. We fear that the building of through higher prices nearly as much where the producers receive through higher prices nearly as much where the producers mail factories in districts through higher prices nearly as much total money. producers, manufacturers or of the trade in general.

### BACON HOGS PROFITABLE

BACON HOOS PROPITABLE. "Notwiths unding anything that may be said or written to the con-tary we believe that the raising of bacon hogs is a profitable adjunct to the cheese and butter m-king indus-try, and when combined as the most remunerative and state handh, of try, and when combined as the most remunerative and staple branch of agriculture in practice in Western Ontario at the present time. We therefore beg to point out to the pro-ducers of nilk that it would be well to think seriously and look into the matter closely before discarding the heaven her industry. bacon hog industry.

### SKIM MILK CHEESE

"It might be mentioned that some attempt has been made by a few facattempt has been made by a few fac-tory men during the past year to in-troduce a system of manufacturing skin-milk cheese. So far as we can learn the enterprise has not been au-elarn the enterprise has not been suc-either to prace an more strain strain We wish to place on record our during proval of such a system as it is only by the production of the highest qual-ity that we can hope to maintain our ty that here can hope to maintain our by the production of the highest qual-ity that we can hope to maintain our prestige as a cheese producing coun-try. The prospects for the future of the dairy business in Western Ontario are bright and so long as we can fur-nish goods of satisfactory quality our dairy products will continue to meet the approval of the consuming public bath at home and abroad both at home and abroad

Renew Your Subscription Now.

No. 9 wire.

It's all

No "Shoddy" There is no "shoddy" in this rep. It's lik "Frost" Fence in quality. Unlike the "shoddy" fence, there Here. It are no jointed or soft wire stays, no short kinked laterals, no has the A.1. locks with unsecured "Frost" Fence ends to loosen poorly galvanized wires, in the "Frost" Fence. It is "all wool" Quality in quality.

In fact,"Frost" Woven Fence has become a keen rival of fencing with Coiled Wire Laterals. is made in 37 different styles, giving a complete assortment in heights, different spacings of horizontal and stay wires

"Frost" Woven Fence is daily proving itself positively the best proposition for anyone who has some spare time which he can

some spare time which be can devote to the handling of its sale. If you would like to talk this matter over, we will be very glad to put our time against yours. We will send a traveller if you will give us the tip.

Now if you are engaged in wire fence business but want to enjoy the BIG trade, better get in touch with us at on are esta ishing new agencies in all unrepreted fields.



Inoculation of Seed

Inoculation of Seed The Ontario Agricultural College has in press a bulletin from the bac-teriological laboratory, giving the re-sults of work on the inoculation of seed with bacteria to increase the chances of the crop. This work has been in progress since 1966, and has increased in amount each year. It has been known for many years that has been known for many years that re inhabited by bacteria that have the power of taking mitrogen from the vast amount in the atmosphere. and vast amount in the atmosphere, and storing up this most valuable fertilis-ing element in the plants, thus en-riching the soil when these plants are plowed under. In the college laboratory these bac-tories are outlineted and and the data

piowea unor. In the college laboratory these bac-toria are cullivated under artificial conditions, their full power of nitro-gen accumulation being conserved, and these cultures, as they are called, may be avplied to the seed to be sown. On old established fields where clovers or alfalfa have been previous-Jy grown, the soil is avell supplied with these desirable bact-ria, and the use of artificial incomlation, would be of little benefit. On new ground, how-ever, or where the crop to be sown has not been successfully grown be-fore, the incoulation of the seed usually helps to secure a better stand. During 180, over 2,100 these cul-tures zere smit to farmers all over the Dominion and to five foreign comtures zere s.nt to farmers all over the Dominion and to five foreign coun-tries. The results as reported by the farmers, and compiled in the forth-coming bulletin showed that the ino-culation of the seed was beneficial in 63 per cent. of case tried. Many farmers tried the cultures on old es-tablished fields, and as was to be ex-pected the results here showed no in-refase in the crop from using the onicrease in the crop from using the oul-

Trease in the crop from using the out-tures. During the coming spring, the col-alization of the second similar cultures for utiliar and similar cultures for utiliar and similar cultures for each other from the second second charge of 25 cents for age in cornal charge of 25 cents for age in cornal charge of 25 cents for their use. Applications should be addressed to the second should be sent at once so that ample provision may be made by the college to supply all de-made by the college to supply all de- treated and approximate date of "secting should also be stated in the application.

### Treatise on Ventilation

Ifeatise on ventuation "Ventilation for Diversity is the title of Schools and Stables," ellips, Rural Prof. F. H. King's Issue book recent-ly to hand. The book is the book retailse which is in strended to brief parents, teachers and officers of rural and other elementary schools, and the owners and caretakers of all classes of live stock, and lay before them the foundation facts and prin-ciples underlying the growing and them the foundation facts and prin-ciples underlying the growing and imperative demand for a more nearly adequate supply of pure air than is being continuously maintained in the vast majority of homes, offices and stables to-day. Owners and caretakers of live stock

Owners and carculators of live stock will find the treatment of seventi-lation, in this work, sufficiently es-plicit and illustrative to child them to readily and effectively solve them to readily and effectively solve should be in the hands of all. It can be obtain-ed through Farm and Dairy at the regular retail price of 75 cents a copy postpaid.

If I were a Farmer I would rather be known as the man whose cows yielded more milk than the cows of any other patron sending milk to any other patron sending mile to my factory, than as reeve of the township or mayor of Toronto.—President G. C. Creelman, O. A. C., Guelph, Ont.

8

The short course in fruit growing The short course in fruit growing to b. held at the Ontario Agricultural College, Guelph, Jan. 26 to Feb. 5. promises to be of great interest and value. All persons interested should arrange to attend. The following is the program as arranged to date:

FIRST DAY-JANUARY 26

Locations, Sites and Soils for Fruit Growing.-Harold Jones, Maitland and J. L. Hilborn, Leamington, Drainage.-W. H. Day, O. A. C. Pre-paration of Land for Fruit.-Harold Jones and J. L. Hilborn.

SECOND DAY-JANUARY 27

Selection of Nursery Stock. J. W. Crow, O. A. C. Laying Out Planta-tions.—Harold Jones. Soil Moisture. -W. H. Day, O. A. C. Planting and Care of Young Orchards.—Harold Longe Jones.

THIRD DAY-JANUARY 28

Propagation of Fruit Trees and Plants.-W. T. Macoun, Horticultur-ist, Central Experimental Farm, Ottawa. Strawberries for the Canning Harbor, Judging Fruit, --W, T, Ma-tions, --R, Harcourt, O. A. C.

### FOURTH DAY-JANUARY 29

Pruning.--W. T. Macoun. Commer-cial Pear Culture.-J. E. Orr, Fruit-land, Ont. Top-working.--W. T. Maland, Ont. Top-working.-W. T. coun. Fertilizers.-R. Harcourt.

### FIFTH DAY-JANUARY 30

Management of Bearing Orchards.-H. S. Peart, Jordan Harbor, Ont. Question Box. Insects Injurious to Fruits.-T. D. Jarvis, O. A. C. Or-chard Diseases.-L. Caesar, O A. C. SIXTH DAY-FEBRUARY I

Apple growing in the Northwest acific States.-Prof. John Craig, Cor-Pac nell University.

### SEVENTH DAY-FEBRUARY 2

General conference on the prepara-tion and application of spraying ma-terials. The important fungicides and terials. The important rungicides and insecticides will be prepared on a commercial scale. Demonstrations will be conducted by experts and the best informed men in the province will contribute to the 'experience module. meeting

EIGHTH DAY-FEBRUARY 3

Conference on varieties worth grow-ag. The best information available ing. The best information available on this subject will be presented by men of experience. E-mit - J. Gilbertson,

Thinning Fruit. — J. Gilbertson, Simcoe; Wm. H. French, Oshawa, Conference on Box and Barrel Packing. Demonstrations of proper and improper methods of packing conduct-ed by A. McNeil, Chief, Fruit Divi-sion, Ottawa, with the assistance of other experts.

### NINTH DAY-FEBRUARY 4

The fruit crop of 1908: What became The fruit crop of 1908: What became of it, with practical observations by growers, shippers, dealers, and in-spectors regarding difficulties en-countered.

countered. Experiments with Long Distance Shipment of Tender Fruits.--J. B. Reynolds, O. A. C. Cold Storage for the Fruit Grower.--J. A. Ruddlek, Dairy and Cold Storage Commission-er, Ottawa.

### TENTH DAY-FEBRUARY 5

Conference on co-operation. A thor-ough discussion of the present status and future possibilities of co-opera-tive work in Ontario.

HORTICULTURE Short Course In Fruit Growing next step.

### EVENING MEETINGS

EVENING MEETINGS The evenings will be devoted to pecial discussions and to addresses by prominent speakers. Illustrated lectures on Home and Rural Improve-ment, "by H. L. Hutt; "Insect Enem-ies," by T. D. Jarvis, will be included. Other special addresses are "Com-mercial orcharding," by A. McNeil; "Apple Cankers," by R. M. Winslow, Pieton, Ont. An effort is being made to secure a geneker for an exercise of to secure a speaker for an evening of the second week who is well versed in

The second week who is well versed in western methods of growing and handling the apple crop. Reduced rallway fares—In buy-ing tickets ask for single fare first-class ticket and secure from the agent a standard certificate. This certifi-cate when signed at the college en-titles you to return trip at reduced rate. rate

\* POULTRY YARD

# A subscriber sends the Poultry De-A subscriber sends the Poultry De-partment the following clipping, which he would like to have publish-ed. It refers, as most of our readers will recognize, to systems which the inventors claim inventors claim are reliable in pick-ing out the good layers from the bad layers, or those pullets, or hens, which it will pay to keep, and those which should be destroyed.

which should be destroyed. The ollipping is taken from "Glean-ings in Hee Culture," published at Medina, Ohio, and, if there is as lit-tic in the system as the writer claims, it should save a good many poultry men, who anticipate purchasing, con-siderable money:

SECRET FOR SELECTING LAYING HENS SECRIF FOR SELECTING LAVING HERS I have succed in getting both the \$10.00 and the \$1.00 secrets for select-ing laying hens without signing any contract not to divulge, and without giving any promise whatever. It is true I did have some correspondence with Walter Hogan, and I sent him \$10.00; telling him I could not sign any contract. He returned the money, told me of his misfortunes in dispos-ing of his invention, etc., and said a would like to have me test his dis-covery. I then gave him my promise not to divulge anything he might subing of his invention, etc., and sad e would like to have me test his dis-covery. I then gave him my promise not to divulge anything he might sub-mit to me. He has, however, at this date, Dec. 18, never submitted any-thing; but one of our subscribers sent me some time ago Hogan's seven-page (410.00) pamphite which he pur-chased for one dollar, and that, too, without any promise to keep the se-cret. I have given you the above par-ticulars lest any one may accuse me of gotting the "secrets" by any dis-hand "Poet sevent of selecting the aying hem;" secret of selecting the aying hem;" secret of selecting the daying hem;" secret of selecting the 'divulge," but they contrast, not to 'divulge, but y contrast, not to 'divulge, but y contrast, not to 'divulge, 'but they contrast, not to 'divulge,' but they contrast, not to 'divulge,' but they contrast, not to 'divulge,' but thay contrast, not to 'divulge,' but dave been forgery. New, frienda, what do you think of

Now, friends, what do you think of this whole business-taking \$10.00 for a seven-page printed pamphlet, and \$1.00 for a 32-page printed pamphlet, and extorting a "promise not to tell?" According to their printed claims they have taken hundreds if not thousands of dollars from poor twe work in Ontario. Managers of co-operative associa-tions, including J. E. Johnson, Sim-women), for these celebrated secrets. coce, R. Thompson, St. Catharines; Is it honorable, and is it in keeping D. Johnson, Forest; Elmer Lick, with the spirit of the times, with the Oshawa; and J. G. Mitchell, Clarkse usual mode, let us say, of giving and burg; and A. W. Peart, Burlington, receiving knowledge?

### **Killing Birds**

1. Do you prefer delocation or sticking for killing fowl? 2. Is it best to draw the bird if it is to be kept for some time? 3. I am told that the head should he left on is that so-2. A white Co. be left on; is that so?-G. A., Halton Co., Ont.

1. If the bird is to be eaten at once I. If the bird is to be eaten at once, dislocation is easier, and cleaner. If the bird is to be kept or put in storage, the bleeding is more preferable. 2. Don't draw the bird until it has to be used, and the flesh will be sweeter and more juicy, and it is more samitary; keep the air and microbes out by making no incisions through which they can enter. It is taken for granted the bird has been thoroughly starved. 3. Yes. If the buyer wants to be sime the sing, the inters should remain. Disease can be detected by either the date or intestines. People wither the same reason, the intestines. People wither the same reason is not same reason. main. Disease can be detected by either the head or intestines. People buying birds with the heads off and drawn are never sure that the bird was healthy when killed.—F. C. E.

### **Poultry Convention**

Poultry Convention A poultry convention similar to the ones held in previous years is again slated for the poultrymen this year at the Ontario Agricultural College, Guelph. It will be held from February Sht to the lith, inclusive. The speak-ers for the occasion will be: Dr. G. B. Morse, Washington, D. C. U. S. A.; T. F. McGrew, Scranton, Pa., U. S. A.; C. K. Graham, Hampton College, Hauston, Va., U. S. A.; Victor For-tier. Zxperimental Farm, Ottawa, Ont; Miss Yates, Guelph, Ont.



Dr. Morse will talk on poultry dis-cases; Mr. McGrew on "Ho wto Suc-ceed in Foultry," with an illustrated address on types, etc., "Keeping Fowl art tempfor College," and an illus-trate tempfor College," and an illus-trate of the time of the temperature of the temperature of the temperature provide the temperature of the temperature part in the discuss on. Miss Yates part in the discuss on. Miss Yates on articles and substitute on "English Methods of Fattening."

Methods of Fattening." Those who have attended these con-ventions in former years need no fur-ther introduction to the good things which are to be had on this occasion. All who are interested in poultry who have never been privileged to attend these annual gatherings should strain a point to take it in this year.

Stimulants in Food .- There is Stimulants in Food—There is no advantage in stimulating hens to lay if the food is of a varied kind. The best stimulant is the food itself, not the quantity but the kind. A hen may be well fed and yet lack the ma-terials required to produce eggs. For this reason the food should be as varied as possible, one of the best he-ing plenty of green food, if hens are not on the range.—F. C. E.

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### FARM AND DAIRY AND RURAL HOME

Published by The Rural Publishing Com-pany, Limited.

al Par

FARM AND DARRY is published every Thursday. It is the official organ of the British Columbia, Manitoba, Eastern and Western Ontario, and Bedford District Quebeo Dairymen's Associations, and of the Chandian Bolstein, Ayrabire, and Jer-ory 1, 1990 (1990)

hanks.

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Sworn detailed statements of the circu-intion of the paper, showing its distribu-tion by countries and provinces, will be mailed free on request.

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OUR PROTECTIVE POLICY We have the readers of Parm and divertisers with our assurance of our advertisers with our assurance of our adver-ers of the second s FARM AND DAIRY

### PETERBORO, ONT.

### **TORONTO OFFICE:**

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

### ATTEND THE BREEDERS' MEETINGS

Members of the various breeders' associations, and others, will do well to keep in mind the annual meetings of their particular breeders' association which meets in Toronto next month. In the past these annual meetings have not been as well attended as their importance would warrant. Discussions of vital concern to all breeders of stock and to all interested in the different branches of live stock take place at these filled with well-fed steers. meetings.

Aside from the general business conducted at these meetings they have another value too frequently overlooked, especially by the smaller breeders and by younger men in the business, namely, the privilege of that our country affords. The information that one can pick up from these men old in the business, and the value of their personal acquaintance, cannot be lightly estimated. Time alone can tell what such may mean to you individually. We urge all who have an interest in live stock to attend the annual meeting of the association that has to do with their particular breed.

### DAIRY HERD COMPETITION

Not only the possibilities of what average cows can do but the actual returns of what cows have done are brought out in the results of the dairy herd competition as carried on by the Western Dairymen's Association during the season of 1908. The results of the competition are published elsewhere in this issue.

Factory returns per cow of 7,243 lbs. of milk, having a money value of \$68.50, for a period of only six months in a herd of eight cows should start many cow-owners thinking seriously of the returns they are getting. Those patrons who have furnished only from 2,500 to 3,000 lbs. of milk per cow to their factory in the past season, should sit up and take notice. The Western Dairymen's Association have acted wisely in conducting this dairy herd competition and thus bringing before the public the actual returns of some of our better herds.

There is no reason why others cannot obtain as good results as were secured by Mr. J. W. Cornish, of Harrietsville. The thing is to have good cows and then to give them good feed and plenty of it-in addition to good care. The Dominion Government has provided a means, in the cow-testing associations, whereby we may find out the good cows that are capable of paying their way throughout the year. The machinery thus provided is of little use unless we take advantage of it. It behooves us to adopt cowtesting and start in to make our herds equal to the best.

### **PROFITABLE CO-OPERATION**

Not in all sections of our country has the principle of co-operation in connection with the breed of stock kept been considered. In most every locality are to be found representatives of many breeds of cattle. Practically every well-known breed of dairy cattle and several of the beef breeds as well are represented in most districts. Ask a man, in one of these communities, why this condition of affairs exists and we are told at once that he likes his particular breed of cattle. His next neighbor informs us that his preferences are for his special breed. These two have dairy cattle. The man on the next farm adjoining pins his faith to a beef breed giving as his reason, that he likes his stable

Why do we like any particular breed of stock? It is not because of their particular color but in most cases for the money that we see represented in the breed which we have adopted. The man, instanced above, who feeds the steers would not think best and most successful breeders sinking him \$5. If they carried this ers' Institute Club.

on long enough, he would soon change his preference for a more profitable line of the live stock industry. The, same principle applies with the dairy cattle. A man chooses a particular breed, not so much for their color or for their fine looks as for the money which he is convinced they will produce for him.

The principle is well known and is supported by our best breeders that the more one's neighbors engage in the same line of breeding, the more profitable this whole business becomes to all. It is well enough in choosing a particular breed to suit one's fancy. One should, however, make sure first of all, that the conditions in his neighborhood will allow him to do so. If a particular breed of cattle predominates in your locality, and, provided they are a profita; ble breed, that is the breed for you to adopt.

Co-operation of this kind should be more largely practised. By having a large number of representatives of a particular breed in a neighborhood, it becomes known as a centre, where such can be obtained. As a result, buyers will flock there, knowing that they can satisfy their wants with a minimum outlay for travelling and other expenses. Give heed to this principle of co-operation if you are about to adopt a new breed.

### FARMERS' INSTITUTE CLUBS

Some general particulars as to the organization of Farmers' Institute Clubs and suggestions as to the work to be taken up are outlined in an appendix to the annual report of the Farmers' Institutes for Ontario. When we consider the great movement which is taking place towards organization among farmers, this treatise is particularly timely, as it deals with all questions pertaining to the successful organization and the running of Farmers' Institute Clubs,

The bulletin gives brief statements as to the benefits to be derived from the establishments of local clubs. A number of these clubs have already been formed. To meet the needs of those enquiring for information as to the methods of organization, lines of work to be taken up, etc., this bulletin has been especially prepared. It is believed that the work of the Farmers' Institute Clubs will appeal very strongly to the farmers of Ontario and that they shall prove a strong adjunct to the regular work of the Farmers' Institutes. Such cannot but result in much benefit to those who take an active interest in this work.

We commend the Farmers' Institute Clubs to our readers. If you are interested obtain a copy of this bulletin which may be had free from the Department of Agriculture at Toronto. place the matter before your neighbor farmers and if thought desirable, plan to organize a club at the next meeting of your Farmers' Institute, or at a specially called meeting. Those men who are desirous of doing a real service to their community, both from a financial and social standpoint, cannot do better than organize a Farm-

### \$50 LYING IN THE ROAD

An American exchange features an article in a recent issue under the above caption. It says:

"We were a little surprised a few days ago to find \$50 lying in the road beside the hedge at the corner of one of our prominent business farmer's homes, and the more so to find that it had lain there several months unmolested, but beginning to look much the worse for the exposure. The money was in the shape of a corn planter that will have to be replaced by a new one before many years, unless cared for better than that."

Unfortunately, for their owners, . many such finds as this are not uncommon on many of our farms. It is not always a corn planter, but often machinery and implements of a more expensive nature. Since winter has set in we have noticed much machinery that has been neglected and left out of doors. Such must surely bring joy to the heart of the implement agent as he contemplates a sale, if not this year, then surely the year following.

While perhaps the entire value of the implement is not lost through being exposed for one season, it is only the matter of a very few years. at best until it is necessary to replace the neglected tool with a new one. Tools cared for in this way represent the loss of good, hard earned money. It is difficult to understand why people will continue to allow such serious leaks in their business. No other industry would stand such. How can the farmer afford them?

The question of sending a commission of leading farmers to the old land to investigate the bacon industry as it is carried on in Great Britain and in Denmark is of paramount importance. Danish farmers are beating us in the production of bacon for the English market, and it is said that they are doing this with feed that we have produced and which we think unprofitable to feed to our hogs. A commission to investigate this matter at first hand would be quite in keeping with the importance of the bacon industry to this country. If you are in favor of this suggestion, say so by writing us to that effect. Let us have your views upon this subject of vital concern to all dairymen and hog raisers

The accommodation furnished for the desittle at the recent Winter h, was so poor that the man of the exhibition have no reason to wonder at the fact that the breeders of dairy cattle are thoroughly dissatisfied with the treatment that they have received at the fair. The buildings at Guelph should be enlarged, if only to provide larger and better accommodation for the cattle in the dairy test.

Avail yourself of the benefits of our protective policy as published on another column of this page. In writing to advertisers always mention the fact that you saw their advertisement in Farm and Dairy. Reliable advertisers only, are admitted to our columns so you need have no hesitation in dealing with them.

# FARM AND DAIRY (Formerly The Canadian Dairyman January 21, 1909.

Butter Makers are invited to seed contributions to this department, to ask questions or the department of the depart partm atting to bu objects for dis rs to the Crea ng and to sugery Des

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### The Dairy Exhibit at Brantford

The exhibition of cheese and butter, that was held last week at Brantford, in connection with the Western On-tario Dairymen's Association, was unusually meritorious. Not only was there a large exhibit but the quality of the prize winning exhibits was so

of the prize winning exhibits was so close it was no easy matter for the judges to make their decisions. President John Brodie, stated in his annual address that the directors of the Mestern Dairymer's Association consider this annual exhibition one of the most valuable fastures of their beneficial influence in infrom had a beneficial influence in infrom had a beneficial influence in infrom had a butter made in Western Ontario.

### CHEESE AWARDS

CHRESS AWARDS The prize winners were as follows: September White Cheese.—I. Juo. Cuthbertson, Sebringville, 65.32 points; 2. Mary Morrison, Newry, 95.15; 3. G. R. Stone, Curries, 94.98; 4. A. W. Dar-roch, Zenda, 94.82; September Colored Cheese.—I. J. T., Donnelly, Scottsville, 85.62; 3. Mary Morrison, Newry, 95.15; 4. Harry Morrison, Mary, Mary,

Donnelly, Scottsville, 65.32; 3, Mary Morrison, Newry, 65.15; 4. Harry Donnelly, Union, 64.50. October White Cheese.—Tie for 1st and 2nd prize, J. T. Donnelly, Union, and Mary Morrison, Newry, 94.82; ite for 3rd and 4th prize, Jos. Skelton, Thorndal-, and C. A. Barber, Hick, son 94.49. son, 94.49.

October Colored Cheese,-1. Stedelbauer, Listowel, 94.99; 2. J. B. Doan, Birnam, 94.16; tie for 3rd, W. J. Goodwin, Ripley, and C. Donnelly, Scottsville, 94.15.

### BUTTER EXHIBITS

56-lb. Box Creamery Butter.--1 Do-10. Box Creamery Butter.—1.
 Juo. Cuthbertson, Sebringville, 94.96;
 R. Johnston, Bright, 94.65;
 A. G. Patterson, St. Thomas, 94.; tie for 4th,
 D. A. Thomason Attack and Actional A

Patterson, St. Thomas, 94,; tie for 4th, R. A. Thompson, Atwood, and J. B. Doan, Birnam, 83-48. 20 One-pound Prints, Creamery But-ter-1. Jno. Cuthbertson, Schring-ville, 94.66; a. R. A. Thompson, At-wood, 93.99; S. A. G. Patterson, St. Thomas, 93.82; 4. E. M. Johnston, Innarkip, 93.65. Sellb. Buy October Concensus Data.

Finiterap, 30.35. 56-1b. Box, October Creamery But-ter.—1. A. G. Patterson, St. Thomas, 95.65; 2. W. G. Meed, Winchelsea, 93.99; 3. J. R. Almont, Welland, 93.48; 4. F. J. Sleightholm, Strathroy, or co. 92.99

### SPECIAL PRIZES

By the Ballantyne Dairy Supply Co., Stratford, Ont.—One case of Han-sen's Remut Extract-to the cheese-maker securing the highest score on September White Cheese, Class I, Sec. I.—J. Cuthbertson. One one of Honsevie Cheese Coles

Sec. 1.--J. Cuthbertson. One case of Hansen's Cheese Color --To the cheesemaker securing the highest score on October Colored Cheese, Class II, Sec. 2.--J. E. Stedelhighest bauer

A Medal-To the cheesemaker se

A Medal-To the cheesemaker se-curing the highest score on cheese ex-hibited in any class.—J. T. Donnelly. Cheese Buyers' Trophy-Challenge Cup, valued at \$150.—to become the property of the exhibitor of cheese at the Winter Dairy Exhibition who shall receive the highest score three times, or twice in succession.—J. T. Won 1909 he Farsh \*

Won 1903 by Frank Boyes; won 1904 by R. H. Green; won 1905 by O. Schweitzer; won 1906 by J. Patton; won 1907 by J. E. Stedelbauer; won 1908 by Mary Morrison.

### Instructions at Creameries

Seventy-seven creameries operated a Western Ontario during the past ear, four more than last year. Nine in year, four more than last year. Nine of these made both cheese and butter Patrons to the number of 14,145 sent milk and cream to these creameries, only 2,150 patrons less than are sending milk to the 217 cheese factories. This makes a total of 30,440 patrons engaged in producing milk and cream for the factories of Western Ontario. In 1907 there was produced in West-

ern Ontario 2,932 tons of butter. 1908, 3,270 tons, a gain of 338 tons. There were 184 patrons on the average to the creamery, 45 tons of butter average to the creamery, 462 lbs. of butter average to the patron. This does not include the dairy butter made or the milk and cream supplied to the different cities

There were 218 full day visits and 93 call visits made, making a total of 311 visits. There were 405 patrons visited, 248 more than last year. Sixty-eight creameries arc cream gathered, 9 both cream gathered and separator. There are no entirely whole milk creameries in operation. of paying patrons will soon be entirely a method of the past. Seven creameries are using the scale for sampling cream for testing, 3 more than last year. Seventy-two creameries are using the combined churn, the box year. churn has practically gone out of use, 14 creameries are using a pasteurizer, 7 more than last year. Thirteen creameries are using large cans for collecting cream, 12 are using indi-vidual cans, 6 are using jacketed cans, 15 ordinary cans, and only 18 are now using cream tanks.

### INFLUENCE OF CREAM HAULERS

Thirty-eight creameries have firstclass cream haulers, 36 only have fair class haulers, 16 of which have a very poor class of cream haulers. The cream hauler has a wide influence among the patrons, since on him depends to some extent at least the res-ponsibility of getting the patrons to handle the cream in better condition and he should be well informed on Cheese, Class II, Sec. 2.-J. E. Stedet-bauer. By the J. B. Ford Co., Wyandotto, Mich.-One Three-piece Carving Set. with stag. Horn Handles, Sterling Sit. Weith I control and the storages, this is having the best finished and most stylish looking cheese on exhibition. -J. T. Dönnelly. One Three-piece Carving Set with Stag Horn Handles, Sterling Sitver Mountings-to the butternaker who is a segular user of Wyandotte Dairy men's Cleaner and Cleanser, having the new C. and most attractive est. by of a cardian G. Retterwin, Stag. Horn Handles, Startagtive est. Mord at and most attractive est. Mord at a segular mer of Wyandotte Dairy of a cardian G. Mangers, Stag. Horn Handles, Startagtive est. Mord at a segular motor and the startagtive est. Mord at the startagtive est. Mord at the startagtive est. Market and most attractive est. Market attracti creamery conditions, and other prac-tical points in order to give the pa-trons necessary information for im-



### UNIFORM METHODS NEEDED

More uniform methods should be adopted by the creamery men. would be well to cut out measuring the cream in inches and adopt the plan of weighing. Decide on a uniform system of paying patrons with butter-fat or pounds of butter. Do away with the oil test, and all adopt the Bab-cock test. Have a system as nearly alike as possible in charges for manufacture. Then the patrons would know that every creamery was trying to

to do a good straight business. There were 648 tests made by the Beaker method for moisture in the butter, the average per cent. of moist-ure for the season was 14.33 per cent. There were 61 samples with over 16 per cent. of moisture, these 61 sam-ples, however, came from 19 creamer-ies, 6 in the Northern Group, and 13 in the Southern Group.

Further improvements are reported in the quality of the cream, in the quality of the butter, and in the gen-eral equipment of the factory. The total amount of money expended in greamery improvements was \$\$,240. I wish to also thank the creamery men and instructors for their kind The instructors have worked hard to improve the quality of the butter and did everything they could to make the season a such Herns, Chief Instructor. Frank 188.-

### **Convention Notes**

Mr. J.H. Singleton, of Smith's Falls, who has attended the convention of the Eastern Ontario Dairymen's As the Eastern Ontario Dairymen's Asso-ciation for many years, said that the address of Mr. George H. Barr was the best of the kind he had ever heard at a convention of the association. Dairy Commissioner Ruddick was re-quested to have copies of Mr. Barr's address printed for distribution.

resolution was passed expressing satisfaction with the work of the spec-ial officers who had been appointed to take charge of the prosecutions against farmers detected watering their milk and recommended to the board of directors for 1909, that the services of the prosecutors should be continued.

×.

Mr. G. A. Putnam expressed the belief that the time has come when legislation should be adopted in Ontario, somewhat similar to that now in force in Saskatchewan, by means of which restrictions will be placed upon the erection of new factories in sections already well supplied with good buildings. Mr. Putnam stated that we will never make the progress that we should until action of this kind has been taken.



FARM AND DAIRY (Formerty The Canadian Dairyman January 21, 1909. and Farming World.) January 21, 1909.

\* **Cheese Department** epartment to send contributions to sk questions on matters ing and to surgest sub-Address your letters to Department. Makers are in jects for The Che discussion. A Reseaseseseseseseseseseseses

### Western Dairymen Meet

The annual meeting of the Dairy-men's Association of Western Ontario held at Brantford on January 13th and 14th was a very successful one. There were no frills and furbelows. about it. It was a business conven-tion from beginning to end. The at-tendance was good, though we have seen a larger attendance of farmers

seen a larger attendance at previous conventions. Mr. John Brodie, President, com-bined his address with that of the bined his address with that of the director's report. This report review-ed the work the association had accomplished during the year in the interest of better dairying. There were several cheese factories in course of erection in districts where they of erection in districts where they were not needed. The report urged factorymen to beware of introducing the same conditions that exist in some parts of Eastern Ontario, where a factory at every crossroad has about ruined the business. Reference was in producing achieven the last ease on the same set of the last ease of the same set of the same set of the last ease of the same set of the last of the last ease of the last ease of the last ease of the last of the last ease of the last ease of the last ease of the last of the last ease of the las in producing skim-milk cheese. The and perhaps would not be repeated. The directors warned dairymen in regard to this matter as being likely to injure the reputation of Canadian cheese. The report strongly advised farmers to stick to the bacon hog and especially those engaged in dairying. While the make of cheese in all Canada last season was short, Western Ontario had about held its own.

Ontario had about held its own. Secretary Herns read the financial statement which showed a balance on the right side of \$867.34. Many of the addresses delivered at Brantford were the same as those given at Prescott. Some of the ad-dresses appear elsewhere in this issue; others will be published later.

### MILL FEEDS FOR CATTLE

In the absence of Ex-Governor Hoard, Professor Harcourt, of Guelph, was asked to give another address. His excellent paper upon mill by-products and their importance in cow-feeding will be found on page 3 of this issue. These products are rich in proteids, and are therefore very suitable for feeding with coarse dry feeds, such as hay and straw for milk pro-duction. Many of these products vary considerably in the amount of proteids they contain and consequently the buyer is not always able to tell what he is getting. Professor Harthe buyer is not always able to the what he is getting. Professor Har-court stated that legislation was need-ed compelling the vendor to put on each package of mill by-products sold its exact composition.

Mr. Geo. A. Putnam, director of dairy instruction for the province re-viewed briefly the work of the past

# 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 LAND for SETTLEMENT

Lands are offered for settlement in some cases FREE, in others at 50 CENTS per acre, in various districts in NORTHERN ONTARIO.

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THOS. SOUTHWORTH, Director of Colonization, Toronto HON. JAMES S. DUFF,

Minister of Agriculture

eenson. More progress had been made during the past two years in improv-ing the quality of the product than during the ten yearly product along are only making a start in improved dairy methods yet and much needs to be done. There were too many fac-tories in the castern part of the pro-vince. Legislation may be necessary to regulate the number of factories that should be erected. In regard to whey butter he was afraid that its manufacture would put a premium on carelesances on the part of the cheese season. More progress had been made carelessness on the part of the cheese maker.

Professor Dean also stated that ex-Professor Dean also stated that ex-periments conducted at the college showed that whey lost 25 per cent. in feeding value when the fat was re-moved. Dairymen should take this into account when contemplating into account when making whey butter.

### GOOD BUTTER A NECESSITY

Dealing further with the outlook for the creamery, Professor Dean said it was very hopeful. Good butter had become a necessity on the consumer's table and its demand was bound to increase. The need of the hour was to bring home truths to the man on the farm and the maker in the fac on the farm and the maker in the ne-tory. There was a need for more milk and cream produced more cheaply. Too much tainted thin cream was being produced. Cream is not hauled often enough. At the O. A. C. cream-ery it cost last year 2c a lb. to haul the cream. More education was need-ed in creamery work and better dairy legislation. The evening sessions of the conven-

The evening sessions of the conven-tion were given up to addresses of a less practical nature. These were in-terspersed with music. Hon. J. S. Duff, C. C. James, President Creel-man and Dairy Commissioner Rud-dick were encourse the man and Dairy Commissioner Rud-dick were among the speakers. Miss Laura Rose gave a valuable illus-trated address on the good and bad in dairying that was much appreciated. The convention was held in the new opera house, where there was ample accommodation for the dele-gates. The cheese and butter exhibit

was in a room adjoining, which made it convenient for all concerned.

# OFFICERS FOR 1909

The following are the officers for 1909; J. J. Parsons, Jarvis, Simcoe Group,

1900: J. J. Parsons, Jarvis, Simcoe Group, president; Jno. H. Scott, Excter, Western and Southern Creamery Group, lat vice-president; Wm. Wad-dell, Kerwood, London Group, 2nd vice-president; D. A. Dempsey, Strat-ford, Stratford Group, Stat-ford, Stratford Group; Sec. Kenzie, Ingersoll, Stratford Group; S. E. Facey, Harritaville, Woodstock and Ingersol Group; S. R. Wallace, Burgesville, Woodstock and Ingersol Group; J. B. Smith, Alton, Eastern and Northern Creameries Group; W. S. Shocks, Britton, Listowel Group, M. G. Begler, Ingersoll; I. W. Bein-ton, Fair, Yod. Representative West-on Fair, Yod. Representative West-on Fair, Yod. Representative West-on Fair, Yod. Representative West-on Fair, Fair, Robb, Johnston, Woodstock, Repres, Robb, Johnston, Woodstock, Repres, Robb, Johnston, Woodstock, Repres, Robb, Johnston, Woodstock, Repres, Robb, Johnston, Woodstock, Representative West-na National Exhibition, Toronto.

RESOLUTIONS PASSED

The following resolutions were pass d: 1 Whereas the success and educ ed: 1. Whereas the success and cand ational value of this convention and the interest taken therein is due in a marked degree to the presence of the speakers, who have kindly addressed our meetings, we desire to express our sincere thanks for their assistance and presence throughout the various

2. That we the members of this as-2. That we the members of this as-sociation desire to express our appre-ciation of the kindness of the Mayor, Board of Trade, and citizens of Bran-ford in furnishing the use of the opera house, together with the excellent musical part of the program free of charge for the convention and dairy exhibition



through their general manager, Mr. E. G. Henderson for the very hand-some badges presented by the com-pany to the association. pany

pany to tue assume that an embers of the members of this association be and are hereby tendered to the Heller & Mert Co., New York; The R. M. Ballantyne, Lid., Stratford; C. H. Slawson & Co., Ingersoll; J. B. Ford Co., Wyandotte, Mich.; The Canadian Sait Co., Wind, sor; The Western Sait Co., Woortown; Ryrie Bros., Toronto, for the vascial prizes kindly donated for our

dairy exhibition. 5. That we feel as dairymen we are under great obligations to the Ontario under great obligations to the Ontario Department of Agriculture for the as-sistance they have rendered the dairy industry, through the system of instruction that has been given and also in providing speakers to attend annual meetings of cheese factories and accounts of the state of the state of the state of the state and accounts of the state of the st

annual meetings of cheese factories and creameries. 6. That we wish to express our ap-preciation of the work of Mr. Nelson Monteith, while Minister of Agricul-ture for Ontaxio, and extend to him our best wishes for the future. 7. That we as dairpmen believing that the work of cow-testing associa-tions is conjudive to increased pro-

that the work of cow-testing associa-tions is conducive to increased pro-duction, we wish to express to tha Hon. Sydney Fisher, Minister of Agri-culture for Canada, our apreciation of this work, and would humbly sug-gest that it be continued. IN MEMORIAM

8. That this association in annual 8. That this association in annual convention assembled, desire to place upon record their sincere appreciation of the services which the late Hon. Thos. Ballantyne, former President of the Association, has rendered to bis country, and more particularly for the efforts which he put forth to promote the interests of the dairy industry. industry.

9. That this association desire to place on record their sincere apprecia-tion of the services which the late Harold Eagle, former President of this Association has rendered to the dairy industry in the territory under juris-diction of this association, and also that copies of these memorial resolu-tions be made and forwarded to families of deceased.

### Dairy Questions Answered

The following questions were asked and answered at one of the sessions of the convention of the Eastern On-tario Dairymen's Association held

of the convention of the Lastern on-tario Dairymen's Association held recently in Prescott. Question.—What size should a cheese factory be before it installs a butter plant for the manufacture of whey butter? Mr. Publow.—It should receive an

average of 10,000 lbs. of milk a day. A good maker is required to run such

# a factory and he should be paid a

a factory and he should be paid a good salary. Question.-Do you believe in paying for milk by the test? Data of the one of the second second into the test of the second second second time of payment by the test had better be extended alowly. Question.-Would you advise paying by the straight test or by adding 2 per cent? (Laughter). Question.-Why are the makers not qualifying to do this work? Senator 0. Derbyslite.-Because we of the pay them enough. This year optime to the second second second second pay the straight for the makers not qualifying to do this work? Senator 0. Derbyslite.-Because we do the pay them enough. This year optime test for the second second second second second competent maker for mine year had be competent maker for mine year had be competent maker for mine year had be joint stock factory which had had a competent maker for nine years, let him go and hired an incompetent man because he was willing to work for a quarter of a mill a pound less. As long as we treat our best makers in this way we cannot expect them to go to the much trouble or expression. this way we cannot expect them to go to too much trouble or expense im-proving themselves. They now have no protection against the competition of incompetent makers who are will-ing to work for low wages. Factories -bould ing to work for low wages. Factories before engaging new makers should find, through Chief Instructor Publow, if the new men understand their busi-ness. He knows the record of every maker and factories should take ad-vantage of his knowledge. (Applause).

### Have Saved \$1,000

It is estimated by Mr. J. A. Hol-gate, of Foxboro, Ont., that the cool curing room that the patrons of his cheese factory erected some two years ago, has netted them already about \$1000 through the saving of the shrinkage of be cheese, and the in-creased value of the cheese manufac-tured. "Dairymen who continue to make cheese without having a proper cool curing room," said Mr. Holgate, at the annual banquet of the Belle-ville cheese board, "are making a great mistake. Since we have had a cool curing room in our factory we have had no trouble in selling our cheese, as it has been in great de-mand among the buyers.

"Where factories have a good cheese maker," continued Mr. Hol-gate, "they should keep him, even if he should want nine mills. A careless cheese maker, who lets the rust from cheese maker, who lets the rust from his hoops remain, on his cheese, should be got rid of. The dairy in-structors have done much to help the factory men. They should now go on the farms and show the farmers how to cool and care for their milk, and how to keep their yards and stables clean."





COLD and reserved natures should remember that though not infrequently flowers may be found beneath the snow, it is chilly work to dig for them and few care to take the trouble.

# The Domestic Adventures

By Joshua Daskam Bacon

W "HAT nonsense," said I. "Heaven knows I argue love with him? She is paying so make Mr. Van Ness jealous. The irl is a box coupter."

ish as basice-ball, or ste anything so hygienic as ice-cream soda, you don't know her. You'd better joldy her along yourself-you seem to understand the process!" They have been wrangling like this continually of late, and Sabina anys it is only a question of time now. She expects them to announce it very soon. I cannot understand why, in "If that is the case I should say she has failed conspicuously," Sabina returned, "for I have never seen a person who exhibited fewer signs of jealousy She expects them to announce it very soon. I cannot understand why, in that case, Mr. Van Ness spends the summer with his sister instead of at his Adirondack Club or abroad, which

realousy." "In this connection it seems to me that you, too. lack perspective!" I said snappishly. Sabina and I were quarrelling! And meanwhile, in the living room, Chice, with bursts and gurgles, and all those little nods and gestures that make liatening to her so pleasant, was describing May's hygienic room, and Mary, eating in the dining room, heard every word. You see Editha and Mary, easing in the dising room, heard every word. You see Edihar Evans had suggested that perchains would be easier for Mary to take her meals at the table after we had left it, and though Sabina folt from the beginning that any departure from the ordinary course was unwise, and that Mary had better conform to the general name, she admitted that there that Mary had better conform to the general usage, she admitted that there was no serious harm in it, and so Mary used to draw the portiere eere-monially as we left the room, and for some time afterward we would hear the subdued elink of her solitary feeding. If it is true that Mr. Glad-tions was assurtant to decrete blict stone was accustomed to devote thirty-two bites to each mouthful, it would

FARM AND DAIRY (Formerly The Canadian Dairyman and Farming World.)

board and lodging you make more than that and have far lighter ex-penses. Even with the hundred a year that I have of my own, you are really better off than 1." I saw Mr. Ogden's eyes rest on Oiloe's changing face with something more than mere pity. "Do you mean to say that's all they pay you?" he demanded. "Its a rotten shame!

shame!

pay your he demanded. "Its a rotten barnet?" "Oh. I don't know." ahe said iightly. "U's probably all I'm worth. But that waan't Mary's view of it, Mr. Ogden. She feels that if I had qualified myself by severe study at college, instead of confing myself to-to being popular, I could be earn-ing a thousand dollars in a city frivolous odds and ends in a fashion-able private one. It shows that my public school instead of teaching ideals are low." "By George," Mr. Ogden remarked, looking apprehensively towards the dining room.

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is his usual custom, and directs her, as he evidently does, to invite us at least once a fortnight to her yacht or his steam launch. If Mr. Ogden and Chloe have come to any under-standing, why does he allow this? And if he cannot prevent it, how can there be any understanding? And I have never thought that Mr. Van Neas' sister carse very much for Chloe; she would never invite her of her own accord. It must be admitted

"Exactly," said Chloe. "And now let's talk about something else." But she was very subdued all that evening, and I wished so much that Mr. Van Ness might have seen her: air, van Avess migne nave seen nor, there is a great charm for me in those shadowed moods of hers. I think he has never happened on one, she is so gay and effervescent with him, and I have caught ihm once or twice locking at her in a puzzled uncertain and the second stand of devote thirty, it would be the second standard of the second standard standard

A week ago, to be sure, I thought we should not wait very long. For Mr. Van Ness did a most unheard-of thing: he invited himself to dinner. "It has not been so long since the "It has not been so long since the

"It has not been so long since the privilege was extended to me," he said, deliberately coming over by me; "and since I have been admitted to this charming intimacy. I venture to hope for a little more!" (Continued next week.)

\* The Upward Look 

But bey doers of the word and not hearers only, deceiving your own selves.-James 1.22. What does that command mean? That if we are Christians we must strive to live as followers of Christ should. There are many of us who deceive ourselves. We are apt to think that if we do not commit any of the acts that the world commonly looks on as sin we are doing all that of the acts that the world commonly looks on as in we are doing all that can be expected of us. We set our standards of living by the standards of the people with whom we associato. This is the explanation of the low plane of living of so many professing Christiana. Christians

Christians. There is only one standard for us to strive to equal. That is the standard that was set by Christ when He was on earth. It is high but the nearer on earth. It is high but the nearer we can come to it the happier wh shall be. It is not enough that we shall refrain from committing acts of sin. We must strive to do good unto others. The mere lack of effort to help others is a sin. In James 4, 17 we read: "To him that knoweth to do good, and doeth it not, to him it is sin." sin

sin." The first great commandment is that we shall love the Lord our God with all our heart, with all our soul, and with all our mind and the second is like unto it, that we shall love our neighbor as ourselves. If we will fulfil these two commands, as they should be fulfilled, we will fulfil all the other commands contain-ed in the scriptures. The place to start is no ur bornes

ed in the scriptures. The place to start is in our homes, We must strive to be like Christ in our home life. Until we can be good Christians at home we cannot hope to be consistent Christians in the church, or elsewhere. We must be loving and kind and anxious to help those around us. We cannot all fight "weat hatting in the open for our Lord." clinical, or enswards. We must be living and kind and anxious to help those around us. We cannot all fight great buttles in the open for our Lord. We will not be competent to do so until we can gain the smaller battles that confront us every day over the little confront us every day over the little confront us every day over the state of the state of the state of the ambition our lack of faith. We must a do unto a the state of the state will be to un faits. In this way we will be to un faits. In this way we will be to un faits. In this way we will be to un faither which is in Heaven. We will all our faither which is a promised to all who love His appearing. If N. . . .

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### A Plea for the Women

Mrs. R. A. Ragan, Brant Co., Ont. In a recent issue of Farm and Dairy there appeared an article entitled, "A Wife's Allowance."

Judging from my own observation the average countryman's wife has the free use of the pocket book and in most cases is more anxious to sacher own personal rifice comfort in order to make a home than is her husband. She is generally the harder worker of the two. I called at a neighbor's the other

about eight o'clock, expecting night to find them looking over the week's papers or talking of the morrow. Inpapers of taiking of the morrow. In-stead the young mother and daugh-ter were out milking cows, and after-wards did a big ironing, so that the four little girls could go decently to Sunday school. So it is all over the country

I have just received a card from a end announcing the burial of his e, whose girlhood days in Engfrie wife. land had been spent in comparative land had been spent in comparative ease and comfort. She came to On-tario twenty years ago to marry the man she loved. She had put in eighteen years of hard work, caring for her little ones, with never a holi-day, and with little hone of seeing the old home, or parents, again.

ANOTHER PHASE OF THE OUESTION

Many are going to the lonely west, there to spend years in a little shack, with but few of the comforts of life. In many cases the husband is not in a position to furnish any luxuries whatever. The furniture must be plain, and gifts small indeed.

A young mother said to me the other day, (and their savings bank account would average about \$1000 a year), "See what my hi brought me from Brantford. husband

know he always tells me to get what I want, but it was so thoughtful of him to remember me by bringing home these flowers."

I was dining with an acquaintance in the city not long ago whose whole possessions would amount to but a few hundred dollars. He complimented the wife upon preparing the meal, and actually gave her a kiss when parting. Theirs was a happy home. But he was an Englishman. Whoever heard of a Canadian kissing Wheever heard of a Canadian kissing his wife a year after marriage? I have seen apparently happy wives weep because of the lack of the little attentions which they had a right to expect from their husbands. Surely it would be well for the hus-

band to give his wife a part of the allowance he promised her during his courtship days.

Let him remember how he always wished for her company at entertain-Wished for her company at entertain-ments or outings. How careful he was to clean his clothing or shoes before entering her home, and let him plan ahead so that she may go and see her parents and friends once in a while. Last, but not least, though the wife may be the mother, she is still pleased to hear a word of Draise, or how a bics are and these praise, or have a kiss now and then.

\* Talks with Mothers Talks with Mothers What mode of treatment would you

The recommend for a child of passionate temper? First, be very sure that a what large part of the temper is not ner-plain, vousness, pure and simple. Many children of nervous temperaments are a the blamed for what they cannot help. A bank slender, precocious child who speaks \$1000 quickly, is quick in his movementa, you ness and given to reading, is almost

invariably easily irritated and is often iortized by things that do not trou-ble child will entry constituted. Such a child will entry constituted. Such a child will entry constituted this? But you will find such a child especially loving and kind usually, generous and unselfish and the first of all the little wrong doers to ac-meter the little wrong the set of the permanently injured by wrong treat-ence will turn what is at most only an uncontrollable impulse into a cruel act to the strict attention to the the should eight set of the set of the to the

and frightful habit. As to mode of treatment, etc., I should give strict attention to the child's physical well-being; see to it that he did not study too hard in school or read too much at home; send him to bed early, let him aleep alone, under light but warm blankeds, not too many of them, and always in a well-venilitated room. Then I should look after his dict; eliminate tea and coffee and give him healtbut leasify. coffee and give him healthful, easily-digested food.

digested food. Then nurse his self-respect. I be-lieve this is very important, for a child with a fiery temper feels degrad-ed by it; partly because it is a fault so apparent to every observer and partly because he says or does some-thing ridiumous when in a constance. partly because he says or does some-thing ridiculous when in a passion. The child who"files mad"sees the sel-fish child or the untruthful on able to hide his fault and escape censure. while fits of temper bring disgrace and reproof. So I would give him all the "backing" I possible could and, if he is generous, truthful and kind, let him understand that these virtuee were at least equal to keeping his temper. temper

temper. Do not let the other denizens of the nursery know that you consider this child's fault as greater than another might be. Allow not nagging. When in spite of all, a fit of passion comes, do not treat it as a big thing but en-courage him to forget it and try again. courage him to forget it and try agam. If, however, toys or other property is destroyed, require him to replace it if is belongs to another, or to feel the loss of it if is his own. When it is possible, arrange matters so that the particular things that upset the tem-per shall be avoided. Teach him to out along at least to nay along at least per shall be avoided. Teach him to work alone and to play alone at least part of the time. If he is alone much of the time, he will be less likely to become angry when allowed to play in Another help is to oversee the read

ing a little. A goody-goody book only excites contempt if offered as an ex-

excites contempt if offered as an ex-ample, but one which relates the struggles and triumphs of some child afflicted with a temper like his own, will give untold help and encourage-ment. Miss Cummins" Gerty in "The Lamplighter" is a case in point. To be brief, do the things that in-crease his generosity, his conscien-tionsness and kindly feelings; build up his body and muscles as against his nerves and temper and look con-didently forward for a blesing on your efforts. efforts

### . . . **Postal Motto Contest**

What is the most helpful and in-What is the most helpful and in-spiring motto that you have ever read or heard of, or if you were asked to compose such a motto, what would it he? If you will pass it along, for the benefit of others, you will be do-ing a good deed. Let us have some helpful motioes in every issue of Farm and Dairy. For each one we can use we will estend your sub three monitors. A Biltor, Farm and Dairy, Peterbaroueh Ont.

Have you joined our "Big Four" offer. It is one of the best clubbing offers yet. Take advantage of it dur-ing January.

### A New Use for Bandannas

A Montreal friend admired very much the pillows I had on my lounge. When I told her they were lounge. When I told her the bandanna handkerchiefs she could hardly believe it. Secure the ones having the palm leaf pattern; they are not exactly square, but I made are not exactly square, but I made the pillow the same shape as the handerchief. Make a full ruffle; al-low twice the difference around your low twice the difference around your pillow, and make very full at the cor-ners. This ruffle I made of turkey red calico. I used the same kind for a high back rocking chair. Make for the seat the same as for the sofa pil-low, and if it is too large, make a tuck on the wrong side of the hand-kerchief, lawing the border so it will border to be a solution of the solution of the solution for the back I troke cone bandlers.

snow all around the edge. For the back I took one handker-chief. This was the right length but too wide, so I narrowed it by a wide tuck, leaving it just the right width to have the border show all around Put a padding back of this. For the head rest take another

Put a padding back of this. For the head rest take another handkerchief; buy a very soft roll of cotton, taking off the border, but leaving the ends long enough to gather inside of the border. Now, you have a handsome cover, and one that is easy to launder when soiled.— A Countre Gid A Country Girl.

### . . .

I received the alarm clock for se-I received the alarm clock for se-curing one new subscription to Farm and Dairy, and am very much pleased with it. It gives perfect satisfaction in every way. It did not take me long to secure the subscription and I think my boy can secure a few subscriptions and receive premiums without trouble. Cecil Bert, Elgin Co., Ont.



DON'T HAVE IT Gray hair is entirely a matter of choice to-day. Princess's Hair Rejuvenator will take from five to ten pears from the age of any one whose hair is turning gray. It is easy for any man or woman to apply the Rejuv-enator themselves. It is unfailing, and hardless as water. It is not groapy nor sticky and restores the hair in ten days. 81.00 express paid.

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# Resectessessessessesses **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, as soon as possible after receipt of same. Our Cook Book sent free for two new yearly subscrip-tions at 31.00 each. Address, House-hold Editor, this paper \*\*\*\*\*\*\*\*\* hola Ranor, uns pape.
 Reservessessessessessessesses

CELERY SOUP

CREART SOLF Take 3 cups celery in half inch pieces, 1 pt boiling water, 2% cups milk, 1 slice onion, 3 tablespoons butter, ½ cup flour, salt and pepper. Wash and scrape the celery before cutting in pieces, cook in boiling water unit soft and with through the cutting in pieces, cook in boiling water until soft, and rub through the sieve. Scald milk with the onion, sieve. Scare mik with the onion, remove onion and add mik to celery. Bind with butter and flour cooked together. Scason with salt and pepper. The outer and old stalks of celery may be used for soups

### GINGER COOKIES

Put into a bowl a cup of butter and a pt. of molasses and set aside on stove until the butter is soft enough to cream with the molasses. Beat very light, add a teaspoon of allspice and a hint, and a teaspoon of alispice and a tablespoon of ground ginger. Now stir in a teaspoonful of baking soda, dissolved in a tablespoon of hot water, add enough flour to make a soft dough. Mould with floured hands into cakes. Handle very lightly. Bake enickly. quickly.

### POTATO PUFFS

Two cupfuls of mashed potatoes put into a saucepan. Add the yolks of 2 eggs, ½ cup of cream, I tablespoon-ful of butter and season to taste. Stir Iul of butter and season to taste. Stir constantly over the fire until the pota-toes are very light and hot. Remove from the fire, and stir in, carefully, the well beaten whites of the eggs. Put the potatoes into greased gem pans and bake in an oven until brown.

### BRAISED BREAST OF VEAL

BRAISED REEAST OF VEAL Take from 4 to 5 lbs, of breast of veal, and with a sharp knife cut a pocket in it. Make a dressing of 2 large cups stale breadcrumbs, 2 tea-spoons summer savory, the rind of a lemon, grated, 1 tablespoon butter, and pepper and sait to taste. Mix these ingredients together with 1 well-beaten egg, fill the pocket three-que trims full, and secure with a piece que trims full, and secure with a piece of string or a skewer. Blend 1 table-spoon beef dripping with 1 tablespoon flour in a saucepan, dust the meat spoon bed dripping with 1 tablespoon four in a saucepan, dust the meat with flour, and brown in the fat, turn-ing around often, so that it does not burn. When browned all over pour in about 1 pt. boiling water, or enough to barely cover the meat, then cover down close and let simmer gen-tly 2 hours. Then take out the meat carefully and place on a hot dish. Skim off the fat from the gravy left in the saucepan, let it boil up again, and pour over the meat. This dish is nice garnished with alices of boiled salt pork, but that is a matter of taske. Serve with carrots and mashed taste. Serve with carrots and mashed potatoes. The carrots can be boiled with the pork.

with the pork. Fut the water that the pork is boiled in on one side until cold, skim off the fat, add more water and a piece of lean beef and the bones of the veal, a little rice, a few pepper-coras, and there will be good soup for another day.--I.A. G., Man.

### OATMEAL CRACKERS

Thoroughly mix % cup lard with 2 cups sugar, add % teaspoon soda dis-solwed in % cup hot water, 3 cups outmeal, and four enough to stiffen. Roll thin and bake in quick oven.

LEARN DANCING -- AT HOME altzing gives control, poise, elegance to the dy's carriage. With Prof, de Tournez's combody carriage. with rrot or courses some plet course anyone can learn in a short time without aid of instructor. Hundreds have learnt so can you. Book of minute instructions fully illustrating each step and figure soc. Hundreds sold. Send money to-day. INTERNATIONAL TRADING CO., Postal Station C., Box as, Montreal

# The Fireless Cooker

Miss M. C. Belle

"What is a hay box cooker?" "What is meant by fireless cookery?" Such is meant by nreless cookery?" Such questions are constantly being asked of our Culinary Editor. From time to time Farm and Dairy has had ar-ticles about the hay box and fireless cookery, but perhaps these inquirers missed them.



This is just the time to make or This is just the time to make or purchase a fireless cooker, which will do the breakfast cooking over night and require no attention, keep baby's bottle hot, or hot water for the in-valid, and do a number of other use-ful "tricks" too numerous to numerion here. Ady housewife houseming here. Any housewife who has once tried it will consider the fireless cooker indispensable summer and winter —in fact, all the year around. "There's no time like the present" do it now.

### IT'S GOOD POINTS

The fireless cooker is a device that does more to solve one of the most vital problems of the people-the fuel question—than any other one thing question—than any other one thing yet invented. It is the greatest boon to the housewife that has ever been discovered by modern science.

There is no doubt about this. The time that the housewife must spend over the hot cook stove—the trips back and forth—the care and attenback and form-the care and atten-tion required in the preparation of three meals a day, year in and year out-makes the daily cooking a dreary round-a job that ninety-nine men out of a hundred wouldn't stick to a

The Fireless Cooker does away with all that drudgery. It does more than a that drudgery is the strong it cuts The Fifeless cooker does away with all that drudgery. It does more than lighten the work of cooking—it cuts out the greater part of it—the most tedious, bothersome part—and so, tak-ing it all the fireless cooker is one of the most impariant impariance of the the most important inventions of the age

After personally watching the fire After personally watching the fire-less cooker at work in many ways, I find it has proved itself to be not only a fuel saver and a labor saver, but a fuel saver and a labor saver, but the best cooker for a great many of the staple foods used by every fam-ily. It far surpasses the old method of cooking many of these foods, inas-much as all of the savet juices—all the fragrance that makes things taste so good, are retained, and not boiled away in stem.

Ask any woman who has used a fireless cooker in her home, and she'll tell you that she doesn't know how

1:11 you that she doesn't know how she ever got along without it. - And when she tells you that, she's thinking not only of the bother it saves her in the preparation of the family meals, but she's also thinking of the immense improvement it makes in the tasts of the food.

### A CANADIAN WOMAN'S VIEWS

A CANADIAN WORATS UNITS Personal experience from those we know counts for much. We are glad to hear that one of our good Ontario housewives, Mrs. F. W. Hodson, wisce husband is so well known in agricultural circles in Canada, has reagricultural circles in Canada, has re-cently found that a hot stove is not the soil. Trained as to hide them. Observe the effect carefully. It will be necessary heard much about "Fireless Cookers" to make the holes larger if not en .egh Mrs. Hodson decided to try one of those manufactured by Manson Camp-bell Co., Ltd., of Chatham, Ont. The cooker, Mrs. Hodson asya, does every. In the window garden, it is a good thing claimed for it, the food retains

FARM . AND . DAIRY (Formeriy The Canadian Dairyman and Farming World.)

its natural flavor, it is cooked just its natural flavor, it is cooked just right and with a large saving of fuel and labor. Mrs. Hodson is of the opinion, that if the women on the farm only knew how much a "Fireless Gooker" would help them in their work, they would not basitate to have one sent on free trial. We would auggest writing the above do nations as shop of their illustrat-ed catalogues as hop of their illustrat-ed catalogues as hop of their illustrate-do rate from the same free, if Farm and Dairy basis from .

writing this firm.

### ... Window Plants

Window Flants Not all plants do well in north or northesat windows. Forns and begon-ins, callas, *Primula obconica*, Chinese primroses and asparagas will faint. The Pierson form is another excellent subject. If you want some vines to train about the upper portion of the window, use one of the ivies. Plants having richly colored flowers require more sunshine than such a location affords.

In a window of this kind Asparagus plumosus nanus can be grown to per-fection. It will furnish charming mapremotes the second sec pose. Its camty, dencate roltage and its exceedingly graceful habit of growth make it an ideal table plant. It is ornamental in itself, but if a touch of bright color is desired, it can be supplied by thrusting the stems of faw carries and the stems of be supplied by thrusting the stems of a few carnations or reasons and the stems of a few carnet of airy foliage. Granoing the wealth of airy foliage. Granoing the sould be so

### REX BEGONIAS

Among the many excellent subjects for window garding are Rex begonias. There are way of growing and handling them. If advanting soil of leaf mould and asfirther and drainage, if watered moderately and kept somewhat back from the light, they will do well. Plants that do not have good drainage are almost certain to lose their foliage. The important point is to lei them alone after they are started. Do not experiment with them. They will take care of them-selves when kept moist—and moist solly—at the roots. It is important solly—at the roots. It is important selves when kept moist-and moist only-at the roots. It is important to see that the soil never gets really dry. It is advisable, also, never, allow any water to get on the leaves. When sweeping or dusting it is well to throw a thin cloth over the plant. WATERING PLANTS

WATERING PLANTS At this season of the year, care should be taken not to over-water plants of any kind. Give enough to saturate the soil throughout. Wait saturate the soil throughout. Wait until the surface appears dry before applying more. An over-supply has a tendency to sour the soil, thus bringing about a diseased condition of the rote.

a tendency to sour the soil, thus bringing about a disease condition of the roots. Plants in hanging pots and baskets should get all the water they need and no more. They will dry out much near quickly than ordinary plants, where the transmission of the source of the source of the soil of the source than at the windows is much higher than at the windows is the proper-being exposed on all sides. Therefore baskets may be watered by the mus of a scientification of the soil of the baskets may be watered by the mus of a simple device. Take a small can or cup and punch holes small at first. Fill the can and place it on the sur-face of the soil. Vines can be so trained as to hide them. Observe the effect earthuly. It will be necessary to make the holes larger if not an of the makes the holes larger if not en of most.



### Finest Pianos in Canada sold on such purchase terms that every home may own one

W<sup>E</sup> want you to know more about the New Scale Williams Pianos—what magnificent instruments they are—and WHY. Our free booklets give these facts-tell what for up pianice to the term what famous pianists, teachers, what famous planists, teachers, singers, colleges and schools think of these faultless planos. And they are FACTS that you should know about the

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# "Black Knight" **Stove Polish**

does away with all the dirty work of keeping stoves clean. Nomixing-no hard rubbing, "Black Knight" is always ready to use-shines quick as a wink-and puts on a bright, black polish that delights every voman's heart. Equally good for Stoves, Pipes, Grates and Ironwork.

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front near the glass, and the larger front near the glass, and the larger ones at the sides and rear. This ena-bles all of them to get the benefit of the light. Do not allow the plants to become one-sided by being drawn to-wards the light. Turn them at least once a week, so that all sides may have a chance at-the sunlight.

### USE OF FERTILIZERS

Fertilizers should be used with care. Because a plant is not growing, many amateurs will feed it with rich man-ure or fertilizers. This is a mistake, ure or fertuineus. When a plant is not growing, it measures condition to make use of it. Forti-condition to make use of it. Forti-ize only those plants that are already in or have begun active growth. When a plant begins to growt, weak applica-tions are in order. Increase the blant develops. Forcing rapid growth means weakness, from which there is almost sure to be a re-action sooner or later.

### ...

### A Girl's Duties in the Home Mrs. Nixon Craig

A very young girl's duties are soon stated: to attend school regularly, do her best to master her lessons during school hours and evenings; obey ing school hours and evenings; obey, without question, her parents and teachers; move lovingly among her schoolfellows; and be always abso-lutely silent at home as to what passes at-school except when speaking is a clear duty. She can also save is a clear duty. She can also save her mother and sisters many a weary step in doing little errands and the like during her spare mo-ments. This is part of her duty, and will gradually train her for weight-ier tasks later on. given the should

Even as a little girl, she should even as a nucle gril, she should learn self-control, curbing her tem-per, resisisting sloth, cultivating a loving, unselfish disposition; wearing always a cheerful countenance, ready and willing ever to lend a helping hand; never murmuring, sullen or wayward, and so conducting herself generally as to win the love of all, both at home and at school. The cultivation of unselfishness,

gracious manners, and generous sympathies in early childhood, is an all-important duty; is for the best future interests of every girl, and cannot begin too early or continue too long

Bad tempers, envy, jealousy and the whole brood of falsities in a child should be nipped in the bud and her duty is to aid in the nipping. Let grow now, they will corrupt the heart, and disfigure the face. Yes, the face

Dulas

Wonderful how these faces of ours respond to the inner workings of the soul, making them lovely or repel-lent. Many a homely face has grown beautiful from the hidden operations of a noble nature within, and many plain face is a magnet in spite of

RASY

WASHING

tick washi That's the kind of washing you do with the

"New Century"

**Washing Machine** 

Ball-baring means easy running. Forward Spring that reverse the motion, make quick work and little effort. New Wringer Atlachment allows water to drain right into the tub. Only 50,00-ellivered at any railway failon in Onlario or Quebec.

DOWSWELL MANUFACTURING CO. LAN

HAMILTON, ONT.

86

FARM AND DAIRY (Formariy The Canadian Dairyman January 14, 1909. its plainness. It is the pure soul behind that draws and captivates. And this fascinating power is within the reach of the humblest who will strive to cultivate beauty of mind and heart the manifest interest and the boundern the mannest interest and the bounden duty of every girl, be her features what they may. Indeed, I know of no higher duty for every girl than to set diligently to work at once to hoe out all weeds and sow the seeds goodness, that is Beauty. Easier now, than when years have given them deep root and a solid lodgment, given and repulsiveness is stamped for life on form, features and deportment. As the little girl grows up her du-

ties increase and multiply. She can be helpful in the home in a hundred be herein in the nome in a hundred ways, even before her school days are over. It will be her duty cour-ageously to gird herself for her full shares of the cares and toils of the boundary and and this mill do the shares of the cares and toils of the household, and this will do her no harm. On the contrary it will do her a world of good. I pity those girls in what is called "fashionable socie-ty," who neither use their hands mor their brains. Noble lords cross "the nond." marry the dauchters of will. pond. pond," marry the daughters of mill-ionaires, and then divorce.

The poor girls were bred for pleas-ure, sodden with idleness, fed on frivolity, and neglected all mental thronty, and neglected an mental culture, except what is needed to fan themselves or ride in an "auto," and now their "lords and masters" find them mere toys, empty shells.

### BE BUSY

No idle person was ever yet hap-py. Work is God's chief specific for the enjoyment of life. True, many a girl in this new land has had many a giri in this new land has had too much of it, but in moderation it is a choice blessing. It is her ap-prenticeship to qualify her for a home of her home, and what that home she has spent the years of her girl-uil her will heread enough on how will be will largely depend on how hood, whether she has a quired hab-its of indusrty, economy, cheerful-ness and amiability, and not neglected the culture of her mind, or is the reverse of this. I pity the man who is tied for life to an idle, useless, wasteful or uncultured woman. Add a cutting tongue, and the home is to be shund, instead of looked up to. But it is no part of a girl's duty in the home to have it ALL work and play.

Everybody needs relaxation, leis ure or amusement now and then. Incessant toil and care is as bad as un-broken idleness. Mind and body broken idleness. Mind and body need rest, quietness, peace, as well as work. A mero change of occupa-tion is often a rest. If a girl has a taste for painting let her paint. If she likes music let her play, or sing. Let her have, in her choice, friends of either sex, of an evening, and let

Get to work am

her feel it to be her duty to receive entertain them to the best of her ability, and yet without the faintest tincture of insincerity. In all civilized society no one can

dispense with the conventionalities, and these too often degenerate into and these to be a structure theory of the hollow hypocrisy, or an empty show, but the woman of cultured head and honest heart will have the tact to pass unscathed society's keenest scrutiny without recourse to aught that savors of the unreal or untrue. True politeness has its seat in the heart. If this be in a bad state the finest manners are but veneer.

### READING FOR GIRLS

It is also a girl's duty to keep on mproving her mind after school or college days are over. So far at least as her leisure moments will admit of the reading of good books. Some girls read only the papers, some only novels, and others noth-ing at all. I will not presume to dictate as to choice of authors, but this I will say—a book should be this I will say-in book should be worth reading, or your time is lost. Novels are the general favorites. Some deem it wrong to read fiction, and no doubt much of it is vile and and no doubt much of it is vile and poisonous. But there are good, wholesome novels, and the evil lies not in the book, but in excessive reading, which tends towards a fig-urative softening of the brain. One now and again is unobjectionable.

now and again is unobjectionable. A good story is a good thing taken in moderation. It is one of the best specifics for melancholy, or on one of those gray days when life has lost its relish, and all the world is dis-mal. No cure for the "blues" can math a vising story that transports match a rousing story that transports you to other scenes. It lifts the mind out of the rut that is wearing too deep, and is a better remedy than the razor or pistol. But what a vast amount of trash and poison goes under the name of "light reading." Light? Why most of it is as heavy Light' why most of it is as neavy as lead, and some of it a virulent poison. To shun it as one would adder, is the plain duty of every girl who would keep herself from all taint of evil.

### (Concluded next week) . . .

A piece of dried orange peel, burnt on a shovel or a tin plate in a close, stuffy room, will immediately sweeten the air, and leave a pleasant odor

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mong your neighbors; set the children at work, and you will not have much ring only Nime New Yearly Subscriptions for Farm and Dairy, at \$1.00 a oples on request. Write Circulation Department:

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The Sewing Room

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



width of skirt at lower edge is  $3t_2'$  yds. The pattern is cut for a 22, 24, 26, 28 and 30 in waist and will be mailed on receipt of 10 cents.

MILITARY COAT 6215



with the fronts, back and side backs, and includes regulation 2-piece sleeves

Material required for medium size is 4<sup>3</sup>/<sub>4</sub> yds 27, 2<sup>3</sup>/<sub>2</sub> yds 44 or 2 yds 52 in wide, with 3<sup>3</sup>/<sub>2</sub> yds of braid. The pattern is cut sizes for a 34, 36, 40 and 42 in bust, in 38 and will be mailed on receipt of ten cents.

COMBINATION UNDER GARMENT 6210



In the illustration are shown two styles, the corst cover without sleves and the drawers with frills over without sleves the corst cover with motion of the strength sleves set in the arm holes, the drawers with sites of drawers and corset cover. Material required for medium sites is  $2^{12}_{4}$  yds 36 or 44 in wide with  $2^{12}_{4}$  yds of embroider 35', in wide, 440 of beading and 35', yds of edging to make with straight frills as illustrated, 35', yds or 44, 25', yds of insertion and  $2^{12}_{4}$  yds of beading to make with circular frills, as shown in the back view. The pattern is cut in sizes for 34, 36, In the illustration are shown two styles, The pattern is cut in sizes for 34, 36, 38, 40, 42 and 44 inch bust, and will be mailed for 10 cents.



STATES A

The traditional blue blue jean, brown denim, galatea and similar sturdy matersuch garments as these. There are inserted pockets in the fronts and there is a tch pocket on the back

Material required for medium size is 4% yds 24 or 27, 3% yds 36 in wide. The pattern is cut

in in sizes for a 32, 34, 36, 38, 40, 42, 44, and 46 in waist, and will be mailed on receipt of 10 cents.



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ALL CADINEDS' CI IID Vorr, John Dark, Wicklow, \$62 last **OUR FARMERS' CLUB** Contributions Invited 

### NOVA SCOTIA

NOVA SCOTIA HINGS CO. NOVA SCOTIA. WATEBYILLE—With the advent of the new renewall we women students have been prepared and the state of the particultural college for the other of the particultural college for the they not only eurolled again, but induced others to go with them, so that it is expected that there will be many more students than last year, not only men but women. The winter has been unusually mild, with plen-ty of rain followed by freese, which has made plenty of work for the blacksmiths, and the dottors. On January 5th the bees ty of rain followed by freezes, which has made plenty of work for the blacksmiths, and the doctors. On January 5th the bees were flying as on a spring day, but many were chilled before returning. Manure and wood are being hauled, and preparations are being mailed, and prepara-tions are being made for root grafting. Feed and all farm produce is high. Ap-ples are going up. Hay is reported scarce. Calf hides. 10c a 1b.-Eunice Watts.

### QUEBEC

QUEBEC MATTON CO., QUE. Which we wither certainly does not lacked which we wither certainly does not lack and the sentence of the search of the search of this search on the search particular of this search of the search particular of the search of the se

### RICHMOND CO., OUE.

BURMACH Co. QUE. DANYILLE.-January came in with its usual bits. It has done good instead of harm thus. It has done good instead flow of water in trees and brooks, and where the piper with the start of the flow of water in the start of the start in the springs and with the start of so to the houses and with as begun to flow to the houses and with as begun to flow to the houses and with as begun to flow to the houses and with as begun to flow to the houses and with a seven. This is selling at \$450 a cord; pulb wood brings \$6 a cord, and cord wood \$25.0. Cattle are looking very well, although many farmers have to drive their cattle to water every day. Meal is high in price and as little as possible is bught by the amony larmers have to drive their eastlong to water every day. Meal is high in price and as little as possible is high in price werage farmer, but those who have a milk supply to keep up buy in the a-milk supply to keep up buy in drop has year and was preserved in good corp last year and was preserved in good corp last year and was preserved in good corp last gear that is it a ton. Turrings were an excellent crop on most farms and are be-ing fed quite freely to stock; they soll well at 26 ca bush. Potatoes were a fairly good crop on some farms and very small on others.—M. D. B. ONTARY

### ONTARIO

### FRONTENAC CO., ONT.

FERNLEIGH .- Owing to the dry weather PERMILEIGH-Owing to the dry weather inst fall, many farmers have been short of water for their stock. The recent rains have filled the wells, and water is plenti-ful. We have splendid sleighing and farm-ers are budy drawing hay, wood, etc. The American Lumber Company have decided to move their mill from Ompah to Ar-dock, where the timber is more plentiful, which will help the farmers of this neigh-borhood that have timber to dispose of. —D. T. who borhood T

NORTHUMBERLAND CO., ONT. WICKLOW. The heat cow in the neigh-borhood is a grade farsey. She made for

her owner, John Dark, Wicklow, 862 last year. The Wicklow cheese factory is sit-nated in the Township, Malfmand. Our tario. The first factory was built in On-tario. The first factory was built in the year 187. The output of this factory is from 85,060 to 85,060 worth of goods in the season. The cheese are sold on the Belleville Board of Trade. The factory runs shout seven months in the year, and the season append 30 years in the buil-ness.-R. B. H. PETERBORD CO., ONT.

### PETERBORO CO., ONT.

PETERBORO CO., 0XT. AF3EET.—The water problem has been pretty well settled by the recent rains, as the wells, as a rule, are shallow, and do not requir: as much rain to help them as deep one do. The rain and soft weather has been a great blessing. It was follow-ed by hard frozen over, and have left the da p and frozen over, and have left the da p and frozen over, and have left and frozen and the formation bering and the hol have marsh hav to haul.—A. G. B.

### HALIBURTON CO., ONT.

HALBURTON CO., ONT. KINMOUNT-The sharp thas which set in on the 5th was a great benefit by less-in on the 5th was a great benefit by less-already blocked of the snow, which had already blocked of the snow which had already blocked of the snow which had come on the 6th, when it turned hittery cold. 34 degrees below zero. It was wei-comed by those who wanted to use swamp and already blocked on some snow and the snow the snow snow and snow and begin to show the effects of the short their cashift shift. Too many aftermes laves and shived utring the day, without fail or what little they can pick from the mature has physical sources and and shived utring the day, without fail or what little they can pick from the mature heap, which certainly is a very bad practice.-J. S. T. VICORIA CO., ONT. KINMOUNT .- The sharp thaw which set

### VICTORIA CO., ONT.

VICTORIA CO., ONT. MARIPOSA. — The recent snowfails have made the roads in excellent condition, and farmers are teaming out their grain, The comparative searcity of fodder has had the effect of lowering the price of exitie considerably. As many do not wish to run short of feed in the latter part of the winter, they prefer to sell their stock.— A. T. H.

# WELLINGTON CO., ONT. WELLINGTON CO., ONI. FERGUS.-Elections are over for anoth-er year and everyone is settled down for work once more. The greater quantity of er year and everyone is settled down for work once more. The greater quantity of our hay, grain and turnings is fed to the stock, but the number of cattle feeding this winter is below the of cattle feeding this winter is below the setting at 89 a ton; turning, 16e; outs, 30e; harves, 50e; bas, 80e a bush; butter, 30e a lb; eggs, 37e a dox.-W, B.

### BRANT CO., ONT.

BRANT CO., ONT. BRANT CO., ONT. FALKLAND.-The market for poultry for the Christman and New Year's trade was good and most of the stuff offered was in good hape. Tarkeys sold from 10e to and gene chickens, 10e to 12e; and ducks and genes and the solution of the solution and genes and the solution of the and genes and the solution of the and genes and the solution of the rest of the solution of the solution of args that now, as the heas do solution to have begin laying since moulting the solution. Water is low in a few wells builtion. Water is low in a few mode of solighting, then a shaw came; now we have more more aleighting. It has been have more more aleighting. It has been the solid to a few day. Fresh millers

good steigning, then a chaw came; now we have more more sleighing. It has been very cold for a few days. Fresh milkers are very dear, and feed of all kinds is





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### THIS WEEK'S PRICES FOR HOGS DELIVERED AT FACTORY \$6.50 a Cwt. R HOGS WEIGHING 160 TO 220 LBS. THE GEO. MATTHEWS CO., LIMITED PETERBOROUGH, -HULL. . BRANTFORD

ry expensive. Beef cattle are also high. ber of silos have been built this year, We suppose the set of the set of

### MIDDLESEX CO., ONT.

MIDDLESEX CO., ONT. TEMPO. The winter so far has been beautifyl. — The winter so far has been time just and the weather difficulty has been overcovery. The water difficulty has been overcovery difficulty has are good for all farm commodities and expecially so for turkeys, butter, eggs, ap-les and oats. This is the farmers' vis-iting season and they're ousy at it.-J. E. O.

### BRUCE CO., ONT.

BRUCE CO., ONT. CLURNEX --There is hardly enough snow for slighting, if heavy loads were to be drawn. Feed is plentitud was well saved on account of the light mainfall. Peas and oats were a good heavy as was also barley. Root crops were light, the turnings being a complete fail-ure in some parts. The growing of corn has been resorted to and proves a great asbilitute for other cereal crops. A num-

earlier.

will go up. THUNDER BAY DISTRICT

17

J.M. THUNDER BAY DISTRICT BLATE RIVER VALLEY.-Municipal poli-beet for investigation of the principal sub-beet for investigation of the principal in has been quite fortunate in part principal in has been quite fortunate in part principal in has been quite fortunate in part of the principal in the constant of the council who have given much attention to the improvement of the book highways. It is very doubtful if for the principality that can boast of much box municipality that can boast of much box municipality that can boast of much box municipality that we have have favored attention of the principal the principal in the principal the of or years ago the municipality purchased a road grader, which by the commis manipulation of experienced road commission of statute labor and the old system levy and exper-tenced road commissioners.-J. H. H.

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mention the name of this publication when writing to adv desirable

## MARKET REVIEW AND FORECAST

Toronto, Monday, Jan. 19, 1909.-General changed at \$7.50 to \$11 at on in car lost trade continues to show signs of improve- on track there as to quality. Car loss ment. There seems to be more money in jot baled hay on track Toronto rule at the contry and retailers are more prompt \$11 for timothy and \$9 to \$10 at more in meeting paper. Orders for spiring de-indegrades. There are more prompt \$12 for timothy and \$9 to \$10 at no for in meeting paper. Orders bright \$7 to \$1.50 in car lots on track here. On for the spring trade generally. We bright \$7 to \$1.50 in car lots on track here. On for the spring trade generally. We bright the general rate for call more. Discounts bundles at \$12 to \$14, and lose at \$7 to rule at \$6 to 7 per cent. as to account. [8 a ton. rule at 6 to 7 per cent. as to account. \$8 a ton. Loans on real estate rule at 5½ to 6 per cent

Loans on real estate fue at  $5\%_5$  to 5 per ent. WHEAT Although there is a strong ball move general situation is not as strong as dustrial there at first Montreal at 75 a bag for Quebece in ar lots. The market and Australian wheat in Export have a estate and australiant of Argentize and Australian wheat in Expore have eause the strong have and the superior mar-strenuous efforts to sustain prices have without avail, as there was a hereak of one cent at the end of the week. The visible a week ago and taking into account the weaker the model house construction of the sector the super-treal, where new-laid are guoted at 35 equipping the visible account the how some falling off as compared with weaker the middle of the week brought shows some failing off as compared with a week ago and taking into account the condition of winter wheat and the extent of the 1906 crop, no serious break is look-ed for. But this continent is not every-thing just yet in controlling the wheat situation, Other countries have to be recksituation. Other countries have to be recei-oued-with as to the supply and buying power. It is safe to predict that the very high prices forecasted for wheat in some centres will not materialize, though they may go higher than at present before the new crop is ready. Locally trade is quiet with prices strong. Red winter wheat is a stimulation of the strong of the state strong of the strong of the strong of the strong of the state strong of the s amount sampped to that country from Can-ada since the duty was lowered is estimat-ed at 120,000 bush. Dealers here quote On-tarlo wheat at 94% to 96c outside, which is an advance on last week. On Toronto farmers' market fall wheat sells at 95c to 95% and goose at 91c to 32c a bush.

### COARSE GRAINS

The oat market rules steady. At Mon-treal Ontario oats are quoted at 43% to to 45%. Dealers here quote them at 38% to to 46 outside and 44 to 45 on the local farmers' market here. The barley market

### SEEDS

The seed trade is quiet which is a lit-tle unusual for this season of the year. Prices show po change.

### HAV AND STRAW

The hay market holds steady, though on the local market here at the end of the week the market was strong on fairly heavy deliveries. Receipts of baled hay at Montreal rule light but enough to meet the demand. Quotations here are un-



### POTATOES AND BEANS

EGGS AND POULTRY. The egg market rules strong at Mon-treal, where new-laid are quoted at 36 to 40c; selects at 27% to 25c, and No I at 24% to 25c a dox, in case lots. The mild weather the middle of the week brought out a few more new-laid and the market had a uniter feeling towards the end of out a few more new-laid and the market had a quiter feeling towards the end of the week here. But this is likely to dis-appear with the advent of cold weather again. Dealers here quote eggs in case lots as follows: New-laid, Soc: storage, 250, 105 and pickled at 286 to 256 a dos. On the to 506 are so market new laid sell at the to 506 are so. 40c to 50c and fresh and stored stock at 30c to 35c a doz.

. The poultry market is strong, and high prices rule; so high are they that the demand has fallen off considerably. Redemand has fallen off considerably. Be-ceipts at Montreal rule very light and are quickly bought up. Fresh killed turkeys sell there at life to 19s: rozen stock at 17% to 18c: greese. 13% to 13c: durks. Me to 14% c: plump chickens, life to 15c, and fowl at 18c to 12c at h in a jobhing way. Receipts of chickens have ruled larger here during the week and the market is here during the week and the market is uncertain and prices are mraser. Export-ensite, as the demand has fallen off. Deal. evers sold late week at \$37.5 to \$4.25; light ers' quotations are as follows: Ohickens, butchers' pearing evers at \$4.50; rams at choice. He to 16e; common. It to 10e; \$4.5 fowl, be to 16e; turkeys, He to 17e ducks, Even to \$4.5 to \$4.5 to \$4.5 to \$4.5 to \$4.5 to \$4.5 to 12e to \$42; and genes, He to 12e a h. On Toronto farmers' market prices rule at from one to verso meabow these furures.

## EXCHANGE

Increased activity in the horse market is reported for last week. The offerings were large at the Horse Exchange. West Toronto, and considerable business was done. Last week's unovations news1. Two

INCORPORATED 188 The TRADERS BAN of Canada Capital Total and Surplus Assets \$34,000,000 \$6,350,000 Now is the time to open a Savings Account. Make

a good beginning, add to it as the proceeds of the year's work come in, and you will have a comfortable reserve, ready for likely-looking investments or unexpected expenses. \$I opens an account.

THE BANK FOR THE PEOPLE

One of the 80 Branches of this Bank is convenient to you. Your account is invited.

good butchers' cattle sold at \$4.50 to \$4.80; good butchers' catile sold at \$4.50 to \$4.80; medium to good at \$4 to \$4.40; common, \$4.50 to \$5.30; cows at \$2.50 to \$4.40; non canners at \$1.50 to \$3.2 or \$1.00; hold of catile was shipped from the Union Stock Yards carly in the week to dowgands, the new mining camp in New Ontario. A good market for mark is looked at the min-ing district from this on for in the min-ing district from this on the tack and the source of the product sources and stock and the source of the source of the source of the stock and the source of the source of the source of the stock and the source of the source of the source of the stock and the source of the source of the source of the source of the stock and the source of the source of the source of the stock and the source of the s

Trade in feeders and stockers was fair, with prices higher. Feeders, 950 to 1100 lbs each. sold at \$3.90 to \$4: feeders 800 to 950

\*ash. sold at \$3.90 to \$4: feeders 800 to \$90 the each, at \$5.00 to \$3.90; tockers, 600 to \$00 the each, at \$5.25 to \$5.50 a exet. There was a lar delivery of milkers and apringers during the week. There are a few choice cowe offering, the bulk being of medium quality. Prices ranged for the bulk from \$45 to \$55 each; a few sold at \$60 with one or two choice one spoing at \$70 each. at \$70 each

Receipts of sheep and lambs have ruled moderate and prices are firmer. Export ewes sold last week at \$3.75 to \$4.25; light

 definition of the set of the se \$3.50 a cwt. Hogs are quoted at t cwt., fed and watered here.-J. W

### THIS WEEK'S HOG PRICES

The William Davies Company. Toronto, will pay \$6.25 f.o.b. at country points for hogs this week, an advance over their last week's quotations. While the English <text><text><text><text><text><text><text><text><text><text><text><text><text>

EXPORT BUTTER AND CHEESE Montreal, Saturday, Jan. 16.-There is not so much doing in the cheese trade hot so much doing in the cheese trade this week. The demand from the other side seems to have fallen off, and there is by no means the same quantity of goods moving as last week. The slight advance in price seems to have been sufficient to stop the British importers from buying in any further quantity. It may be that as the buying during the past few that as the onlying during the past rew days was not all general, the few houses that were short of supplies have been filled up, and we are in for another quiet spell. If this is the case, the prospect is not at all bright, as there are quite a few cheese left here unsold, and holders are cacese left here unsold, and holders are not endowed with an unlimited amount of patience and may be inclined to cut prices a bit in order to bring on the demaad again from the other side. There was a little more inquiry towards the weekend, and it is hoped that this indicates a re-newal of activity for next week. Prices newal of activity for next week. Prices are unchanged from last week, and range from 12c to 12 34c, according to quality, although the quantity available at the lower figure is almost exhausted. The higher figure is the general asking price ance has although with an order in hand a few quot-could be picked up at less money.

could be picked up at less money. The butter market is quite and steady, with prices unchanged. A few lots of creamery come in every day from fac-tories here and there throughout the protories here and there throughout the pro-vince of Quebec, and these are being bought up at 24c. The quality, however, is poor, being folder made, of course. The trade, however, is largely in held goods and for these prices range up to Zo and Z% o for choice lots.



### **TO LET--ANNANDALE FARM**

January 21, 1900



### **Ontario Horse Breeders'** Association

(Continued from page 6) (Continue Arrow page 6) vice-president, John A. Boag, Raven-shoe; secretary-treasurer, A. P. West-ervelt, Toronto; executive committee, John Bright, Myrtle Station; J. M. Gardhouze, Weston; Jas. Henderson, Belton; John A. Boag, Wm. Smith, A. P. Westervelt.

trems or interest The annual meeting of the Cana-dian Jersey Cattle Club will be held on Thursday, Feb, 4th, at 10:30 a.m., at the Walker House, Toronto. All those attending should secure stand-ard cortificates from the railway agent, which will entitle them to re-duction on the astrone increase. A. P. Westerven, This year the various affiliated as-sociations will be represented on the directorate of the Horse Breeders' As-sociation as follows: Clydesdales, 8 sociation as follows: Clydesdales, 8 directors; Shire, 2; Hackney, 2; Thor-ough-bred, 2.

Mr. Wm. Smith was appointed as the representative of the association to the Canadian National Exhibition for 1909

Last June the railways gave notice the withdrawal of the privileges of of of the withdrawal of the privileges of unloading out of cars shipped to the western provinces of pure-bred breed-ing stock consigned to different points along the direct route to the destina-tion. This privilege had previously been allowed upon payment of a would materially affect of the shipped of stock to the west except when sold in ear-loads, representatives of the or stock to the west except when sold in car-loads, representatives of the association waited on the railways and succeeded in getting the regula-tion reconsidered.

FINANCIAL STATEMENT

The financial statement showed total receipts of \$5,830.10 and total 101al receipts of \$5.830.10 and total expenditures \$5,855.5, leaving a behave due to the treasurer of \$25.45. The chief receipts were \$2,800 legislative grant, \$1,300 grant from the Clyledala Associa-tion; \$562.40 entry fees and \$787.50 gate receipts. The main expenditures is \$100 to \$100

.....

FARM AND DAIRY (Pormerly The Canadian Dairyman and Farming World.)

were \$3,049 prize money; \$713.00 printing and advertising; \$500.00 rent of show building. The Pony Society was admitted to membership in the association. ELECTION OF OFFICIERS The printing of the Holstein Prinsian Association of the

Holstein News Keep in mind the 26th annual meeting of the Holstein-Friedman Association of Ganda, which will be held in Association of Control and McGill stretch, To Honto, and McGill stretch, To o'clock am. The executive committie at meet on Wednesday, Feb. 3rd, at 10 o'clock am. in the Iroquois Hotel. To secure re-duced rates, purchase a single ticket to Toronto and procume a standard certific 1999 is due on Fob. Jut.

GEO. JACKSON, Auctioneer. Live stock a specialty. Address Port Perry. 'Phone



Bull Calves dropped this spring. By im-ported Bull. First prize Toronto, Ottawa, and Halifax. Long distance phone e-3.25-09 W.W. BALLANTYNE, Stratford, Ont.

### SPRINCBROOK AYRSHIRES

are large producer of milk, testing high in butter fat. Young stock for sale A few choice bull calves of 1908 ready to ship. Prices right. Write or call on e-4-1-09 W.F. Stephen, Huntingdon, Que.

SPRINGHILL AYRSHIRES Imported and home bred stock of al ages for sale. See our stock at the lead-ing shows this fall. Write for prices.

ROBT. HUNTER & SONS Maxville, Ont E 6-23-09

Long distance phone.

2

## BURNSIDE YRSHIRES

BURNAIDL TRANNESS Are is such demand 1 will make another important Will attend great disprints alle of the world re-normed like-backsie lifted of Mr. And, Mitchel et Argentin, Soutiant, where some poor the choic-ent Argentin, Soutiant, where some poor the choic-ent Argenting of the carrily attended to. Tak-advantage of this great sale and replenish with a five good once. Correspondence solicited and the good once. Correspondence solicited and R. R. MESS, E-9-15-00

STONEYCROFT STOCK FARM Harold M. Morgan, prop. Ste. Anna de Bellevue. Choice young Ayrshire Bulls and heifers for sale. Yorkshire pige from Imported Sires and Dams, Festers and March litters. Largest selection. High-est quality. Write for prices. E 5-26-09 E. W. BJORKELAND, Manager



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. es, by a Toronto and L ces low, considering qu ag

J. W. TODD, E-2 17-09 Maple Leaf Stock Farm Corinth, Ont.

### YORKSHIRES

A number of young bases from 4 to 6 months old from imported large English stock. These are an exceptionally good to 67 young pips and will be sold right. Full particulars on request. Write for prices delivered at your station. Also 3 AYRSHIRE BULLS rising 2 years.

Apply Manager, FAIRVIEW FARM 0.9-1-09 LUMSDEN'S MILLS, QUE

PINE GROVE BERKSHIRES



For Sale are my winners at the late Winter Pairs Greph, Sows breed and for service, Youngeron the for service, Youngeron the for service, Youngeron the tend as represente. Write your wanta,

19

Georgetown, G.T.R., Milton, C.P.R., Halton Co. 0-6-9-09 W. W. BROWNRIDGE, Ashgro rove

## HOLSTEINS

FOR SALE.--One Holstein bull, two years old; one cow, 6 years old; two yearing heifers and bull calf.--SAMUEL LEMON, Lynden, Ont

BERTRAM HOSKIN

Mount Pleasant Farm, The Gully, Ont Breeder of Holstein Cattle, Tamworth Swine. High-Class young stock for sale Long Distance Phone 01-1-01-1-1-09

FOR SALE-30 HEAD of HOLSTEINS If you are wanting a choice young cow or heifer it will pay you to write me before making your selection, or better come and pick them out.

GORDON H. MANHARD E-55-09 Manhard P.O., Leeds Co., Ont. 7 mites serth of Brockville on C.P.R. (Clark's Grosslag)

HILTON STOCK FARM B. O. MORROW & SON, HILTON, Ont. Breeders of Holsteins, Tamwortha, and Cotawolds. Present offerings, 3 young bulls, boars R1 for arryice, sows bred. Also bulls, boars R1 for arryice, sows bred. Also Display to the state of the state of the state of the constitution of the state of the state of the state relephone connection. Brighton, G. T. R.

### SPRINGBROOK HOLSTEINS AND TAMWORTHS

32 Choice Young Tanworths, from im-ported sows and sired by imported Knowel King David. A few rich bred Holstein bulls and several females. Bargains to quick buyers. A. C. HALLMAN,



ORAL VOID TLAN ORATOWN, QUE Four bull calves, 6 to 10 months one from a 2 year old for it do a record of performance. The STS8 Ibs. of milk in a year. The STS8 Ibs. of milk in a year. The dot of the state of the for prices. O4-28-09

### SUNNYDALE HOLSTEINS

SUBRTDALE . HOLS IERS For Rale, first prise built 9 months old, prior \$80; also a few good cowe in cash son of Pictaerin Hangevick Mapheroft, a con of Pictaerin Hangevick mapheroft Kol, champion buil of the breed, the only first of two daughters that have made over 30 has officially in seven days. Prices Pickston Pickston Pickston Pickston

A. D. FOSTER, Bloomfield, Ont. Mention Farm and Dairy when writing.

HOME-BRED AND IMPORTED HOLSTEINS

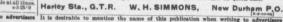
We must sell at least as cows and heifers at ences to make room for the heifers at ences to make room for the heifers at ences to make room for the heifers at ences to the sell the heifer at the sell the heifer at t

sire, head of herd.

H. E. GEORGE, CRAMPTON, ONT. offes-C. P. R. 848.09

IMPERIAL STOCK FARM Sires dam, Mercean Ard, 27:65 lbs. Butter in 7 days. Bires dam, Mercean Ard, 27:65 lbs. Butter in 7 days. Butter in 7 days.





The following directors were elected

**Hackney Horse Association** 

tration of horses over 14 hands high. **Items of Interest** 

duction on the return journey. The Ontario Motor League at their

annual meeting recently pointed out that out of a total of 857 accidental deaths in the past 10 years that have taken place in Toronto, only three

have been caused by automobiles. This was advanced to show that the

dangerous feature of automobile driv.

Nitrate of Soda

NITRATE SOLD IN ORIGINAL BAGS

The Nitrate Agencies

Company

Toronto, Canada

Orders for All Quantities Promptly

FARM AND DAIRY (Formerly The Canadian Dairyman and Farming World.) January 21, 1909.

Lightning

Shingles.

We give it to you without any con-ditions whatsoever, except that you roof with Safe Lock Shingles.

Such an offer is unprecedented, but we can afford to make it because we know absolutely that Safe Lock Shingles will insure safety from lightning.

It is absolutely free. You do not have to pay one cent for this protec-tion, either directly or indirectly. Insurance records show that nearly one-half the fire losses on barns in Canada result form that.

Canada result from lightning. This loss, running into the hundreds of thousands of dollars, can be entirely prevented if Safe Lock Shingles are

We know this, and we back up our statement with a Free Insurance Policy payable under its terms in cash. Safe Lock Shingles are sold at the

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

We have been manufacturing Safe We have been manufacturing size 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.

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 Boofing** has ever been destroyed by lightning.

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 illustrate.

Every farmer knows from experience Every farmer knows from experience that ordinary galvanized foucing 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

FE LOCK S

B VERY Canadian farmer who ex-bouse or barn should or re-roof his today for details of our Free Lighting Insurance Policy in Iningles. We give it to you without any con-mantetic with Safe Lock Matai Biggies and the statement, but of with Base Lock Matai Such an offer Lock Shingles. Such an offer Lock Sh

aving them raw and exposed to In Fig. 1 the solid black line e decaying action of moisture. shows the top lock, the shaded line We want you to remember the the bottom lock. Notice that a the decaying action of moisture.

> SAFE LOCK SHINGLES are the only shingles that-

> 1. Give you a positive guaranty against Lightning, backed up

by a policy signed and guar-

anteed by the manufacturers. 2. Meet fully the rigid require-

ments of the British Government for Public work.

3. Lock on four sides, and cannot

4. Have three (3) thicknesses of metal along upper edge at

Completely protect nails from

Have edges galvanized after

point of greatest strain.

being cut to exact size.

be pulled apart.

weather.

6.

With Every Roo Covered With



F10. 3 No. 3 is the old-fashioned cleat 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 senson or two.

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

contraction due to heat and cold. They cannot

unlock.

Send for our Free Book

about Roofing"

G

w the



Fig. 4 Note in No. 4 that the null is only about half way driven into the sheet-ing, leaving a harge surface exposed to the weather. This makes a very insecure fastening for a roof, and this insecure fastening for a roof, and this insecure fastening for a roof, and this insecure fastening for a loose, leaky, ratifing roof. F10. 5

No. 5 is a side slip pattern, similar to many now on the market. The one shingle alips 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. 9. Z

our Safe Lock Shingles, as should be for a start of the 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 Locker out construction, with our printed in a start of the shingles are haid in the contance with our printed instructions.

# The Metal Shingle

and Siding Co. Limited Re ofers to the Farmers Re ofers to the Farmers Dever Har e Canada Dever Har Cover St. Factory Please and may Freston, Ont. Branch Factory Texpection build an units Montreal State Cover State Cover State Texpect to build an units Dover Street Factor PRESTON, ONTARIO

Province

galvanizing insisted upon. Safe Lock Shingle: are galvanized shingles being cuircly unroofed in the same as Government wire, and a stiff breeze. Another objection is florefore may be depended upon to that these shingles are apt to spread give long service. We really do not apart owing to the warping of the the deep firm grip which allows know how long they will last. Safe sheeting to which they are nailed, ample room for expansion and willing The second and and the most the sound the

Shingle.

name Safe Lock. No other shingle double fold forms the top lock inhas that name. No other shingle is a Safe Lock Safe Lock Shingles lock positively on all four sides. Other shingles grip only on two sides. This is not enough for a permanent, durable root. We know of many instances of buildings covered with these of buildings entitle unproded is

double fold forms the top lock in-stend of a single fold, thus giving twice the strength at the point where the greatest strain comes. With Safe Lock Shingles the mails are driven full length into the sheeting, and are protected by the peculiar lock construction from any possibility of water backing up and safring rant. up and starting rust.

..... F. Williaman of F.O.



20