Issued Each Week-only One Dollar a Year

VOL. XXIX.

NUMBER 3

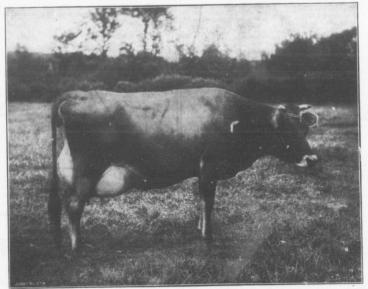
CARM AND DAIR

RURALHOME

PETERBORO, ONT.

JANUARY 20,

1910.



A PRIME SPECIMEN OF A DAIRY BREED THAT SHOULD BE REPRESENTED AT THE C. E. F., OTTAWA.

Jerseys have well demonstrated themselves to be in the foremost ranks of dairy cattle as producers. Their champions claim that as producers of the most milk and butter for the least amount of foodconsumed, Jerseys stand at the top. The individual illustrated is one from the well-known Brampton herd, owned by B. H. Bull & Sons.

DEVOTED TO

BETTER FARMING AND
GANADIAN GOUNTRY LIFE

W. O. D. A. Dairy Herd Competition

petition
The directors of the Western Ontario Dairymen's Association again carried on a dairy herd competition in 1999, donating \$100.00 in cash prizes to patrons of cheese factories and creameries in Western Ontario. Ryrie Bros. again very kindly donated a silver and bronze medal. The competition covered the season from May 1 to October 31, 1909. No herd of fewer than eight con's was allowed to compete. The prize winners are as follows:

CLASS 1. CHEESE FACTORY PATRONS

CLASS 1. CHESSE PACTORY PATRONS.

1st. Jno. W. Cornish. Sprucedale
Farm, Harrietsville, Ont. 50 acres in
farm, 9 Holstein grade cows, 59,727
total pounds of milk, 6,636 pounds of
milk per cow, \$550.99 total money,
\$61.22 money per cow, 1,194.5 pounds
of milk produced per acre.
2nd. Jno. VaslSyke, Dunboyne,
Ont. 109 acres in farm, 11 Holstein
Ont. 109 acres in farm, 11 Holstein
milk, 6,229 pounds of milk modes, 60,
868.36 total money, \$62.14 money per
cow, 718.28 pounds milk produced per
acre.

ore. 3rd. Mason Bros., The Maples, yrell, Ont. 280 acres in farm, 21 folstein and Holstein grade cows. Tyrell, Ont. Holstein an Holstein and Hoistein grade cows, 132,127 total pounds of milk, 6,291.76 pounds of milk per cow, \$1,098.49 to-tal money, \$52.31 money per cow, 471.8 pounds of milk produced per

A. E. Hulet, Evergreen Stock 4th. A. E. Hulet, Evergreen Stock Farm, Norwich, Ont. 120 acres in farm, 8 pure bred Holstein cows, 48,-295 total pounds of milk, 6.052 pounds of milk per cow, \$429.72 total money, \$54.15 money per cow, 402.7 pounds of milk produced per acre.

CLASS 2. CREAMERY PATRONS.
1st. R. M. Bowie, Maple Lane,
Beachville, Ont. 50 acres in farm, 11 grade Holstein cows, 2.472.4 total bounds butter fat, 224.7 pounds of butter fat per cow, \$706.08 total money, \$64.19 money per cow, 49.4 pounds of butter fat produced per

acre.
2nd. E. W. Lick, Beachville, Ont.,
100 acres in farm, 13 Holstein grade
cows, 2,546.2 total pounds butter fat,
195.8 nounds of butter fat per cow,
\$696.50 total money, \$53.58 money per
cow, 25.4 pounds of butter fat pro-

\$696.50 total money, \$53.58 money per cow, 25.4 pounds of butter fat produced per acre.

3rd. Wm. Hutchison, Pleasant Grove, Princeton, Ont. 200 acres in farm, 21 Durham cows, 3.738 total nounds butter fat produced per acre.

4th. Courtney Carr, Ingleside, Beachville, Ont. 100 acres in farm, 20 Avrsbire and Jersey grade cows, 3.120.7 total pounds of butter fat per cow, \$893.08 total money, \$40.00 total money, \$40.00 total money, \$40.00 total pounds of butter fat, 156 pounds of butter fat per cow, \$80.95 total money, \$43.10 money per cow, 31.2 pounds of butter fat produced per acre.

per acre.
5th. Geo. Bourchier, Echo Farm,
Washington, Ont. 25 acres in farm,
9 Jersey grade cows, 1,184 total
pounds of butter fat, 131.5 pounds of butter fat per cow, \$261.62 total money, \$29.06 money per cow, 47.3 pounds of butter fat produced per

Albert Goettling, Pine Grove, Bad-Albert Goettling, Pine Grove, Baden, Ont. 100 acres in farm, 10 Holstein and Jersey grade cows, 984 total pounds of butter fat, 98.4 pounds of butter fat per cow, \$213.48 total money, \$21.34 money per cow, 9.84 pounds of butter fat produced over acres.

Dairy Breeders' Annual Meetings

The annual meeting of the Canadian Ayrshire Breeders' Association will be held in the parlor of the Walk. er House, Toronto, Ont., on Wednesday, January 26, at 10 a. m.

The annual meeting of the Canacirows,

dian Jersey Cattle Club will be held in the Board Room of the Street Rail-

in the Board Room of the Street Railway Company, corner King and Church street, Toronto, on February 2, 1910, at 10 o'clock a. m.

The annual meeting of the Canadian Hotslein-Friesian Association will be held in the Temple Building, Toronto, on Thursday, February 10, 1910, at 9 o'clock a. m.

Live Stock Annual Meetings

Annual meeting Ontario Horse Breeders' Association, Walker House, Toronto, February 1, 7:30 p. m. Annual meeting Dominion Cattle Breeders' Association, Walker House, Toronto, February 2, 7:30 p. m. Directors' meeting Dominion Swine Breeders' Association, Walker Horse

Directors' meeting Dominion Swine Breeders' Association, Walker House, Toronto, February 3, 9:30 a. m. Annual meeting Dominion Swine Breeders' Association, Temple: Build-ing, Toronto, Room 1, 4th floor, Feb-

ing, Toronto, Room 1, 4th floor, February 3, 2 p. eming Dominion Sheep Breeders' Association, Walker House, Toronto, February 3, 7:30 p.m.
Annual meeting Dominion Sheep Breeders' Association, Temple Building, Toronto, Room 1, 4th floor, Feb.
4th, 9:30 p.m.
Annual meeting Ontario Sheep

Annual meeting Ontario Sheep Breeders' Association, Temple Build-ing Room 1, 4th floor, February 4,

ing Room I, 4th floor, February 4, p.m. Arrangements have been made with the railroad companies for single railroad fare on the Standard Convention Certificate plan from points east of Port Arrhur. A single ticket will be convention extended a standard convention extended a standard that the single ticket is prepared to the railroad agent at the time tricket is purchased. This certificate will require to be signed by the Secretary of the Live Stock Convention, and will then be vised by the joint agent of the railroad companies, who will be in attendance at the meetings a fee of 25 cents being charged by him for this service. This certificate when completed in this way will entitle the person named on the certificate to obtain a ticket to the starting point, free of charge, at the strength of the proof of the proo

Items of Interest

The 6th Annual Convention of the Canadian Seed Growers' Associaton will be held in Ottawa Feb. 10th and 11th, 1910.

It is expected that the prize winners in the special good Farms Competition for Durham Co., Ont., will be announced next week.

The second annual Ontario Corn Exhibition will be held under the management of the Corn Growers' Association. Instead of ten classes and \$100 in premiums as in 1909, there are 75 separate classes and over \$800 in premiums for 1910.

Sheep produce the best meat product that we have. It is acknowledged by all to be the most healthy and nourishing of any food, and the farmer who keeps a few sneep is well supplied during the fall and winter months with this food at a very small cost. Geo. L. Talfar, Brant C. cost.Geo. L. Telfer, Brant Co., Ont.

Large flocks of crows are doing damage to the corn fields in Kent Co., Ont. In one small district, the farmers have lost fully 300 or 400 bushess of corn already and the trouble is getting worse. Much of the corn crop of the season is still standing in shocks. Since the snow has come, the only way that the crows can live is to steal corn. Mr. C. W. Nash, director of the Biological Department of Ontario has visited the county to investigate the matter of fighting the crows. Large flocks of crows are doing dam-

CONSIDER ALL THE POINTS

Why is it that the manufacturers of some makes of separators have so much to say about some one good point about their machines? It is because this is the only strong feature that their particular machine possesses. A machine that has One good point and a number of weak points is no better than its weakest feature. It cannot stand the test of long, hard use. When you want a machine that is strong in every point, buy a

SIMPLEX

Here are a few reasons why you should buy this make of separator:

- 1. It is simple in construction. Nothing to get out of order.
- 2. It is efficient. A "Simplex" with a small bowl will do the work of other machines with a larger, heavier bowl.
- 3. It is easy to turn, as it does not require the high speed of other machines.
- 4. It is fitted with the link-blade separating device. This explains why it is more efficient than other makes, and separates at a lower speed.
- 5. It is easy to take apart and wash. Ask your wife if this counts for anything.
- 6. It has a self-balancing bowl. Will always run smooth and true.
- 7. It gives satisfaction. Not for a short time when the machine is new, but always.

Write for illustrated Booklet,

D. Derbyshire & Company

Head Office and Works: BROCKVILLE, ONT.

Branches: PETERBOROUGH, ONT. MONTREAL and QUEREC. P. O.

WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

A BT Litter Carrier and BT Feed Carrier



1st Because they will save you more hard and disagreeable work than any other machine you can invest your money in. 2nd Because the yare the best mach nade for handling Litter and Feed.

Let us tell you what they will do and thy they are better. We also build Cow tanchions, Steel Stalls, Hay Carriers

BEATTY BROS., ONT.

Iss Each

..... >

matic o ern On Dane : prices Canadi er wan much b the rou The

a feebl they g We gr The er ously v and wit cheaply forage

but we

not go

produc So n speak. enough sadly l in dair at thei least v dollars produc

Easter In th Every high w tain pe mine i seemed on a li the

> As I Easter ture g has no it is e extrava all use favor. Leavin not on makes pastur

only \$1.00 a Year

I. XXIX.

FOR WEEK ENDING JANUARY 20, 1910.

No. 3

ROUGH FORAGE FOR THE DAIRY COW*

J. H. Grisdale, Agriculturist, C. E. F., Ottawa.

How and What to Grow and How to Use It—Specific Information About Crops of Vital Importance to Every Dairyman.

UR keenest rivals in dairying are Holland and Denmark. These two small corners of Europe are blessed with soil and climatic conditions no better than maintain in Eastern Ontario. When it comes to buying feed the Dane and Dutchman must come to us, pay our prices and then transport 4000 or 5000 miles. We, Canadians, are usually satisfied with 20 to 25 cattle to the 100 acres. The Danish and Dutch farmer wants from 75 to 100 head. They feed all these much letter than we do our few. They grow all the roughage. We naturally ask how they do it.

The answer is simple. In the first place these men cultivate their farms. We usually make but a feeble protence thereat. In the second place they grow the right crops and grow them well. We grow similar crops but handle them badly. The crops these men can grow most advantageously we can produce in even greater abundance and with greater certainty. Besides, we can grow cheaply, easily, a crop that never fails, corn.

We could grow clovers, grasses and all other forage crops as well as any Dane or Dutchman, but we don't. We should. Until we do we are not going to make the mark we might in milk production.

SADLY LACKING IN CULTIVATION.

So much for crops. Of cultivation I may not speak. One would think that we would all know enough to do that well. Well, we don't. We are sadly lacking. Every Canadian farmer interested in dairying should for patriotic reasons, if for none other, try to beat these Danes and Dutch at their own game. This would be one case at least where patriotism would pay dividends in dollars and cents. Let us consider the matter of producing better forage and more of it on our Eastern Ontario farms.

In the first place, we must do our work better. Every extra hours work spent upon the field pays high wages. This is true of course up to a certain point. I have never yet been able to determine just where that point was. It has always seemed to me that I might profitably have gone on a little longer. I believe the last extra hours in the most profitable hours spent on the field.

AN EXTRAVAGANY METHOD OF PERBING.

As probably the most important crop for the Eastern Ontario dairyman stands pasture. Pasture grass at the right stage and in abundance has no superior as a dairy ration. But at best, it is expensive, while generally it is a ruinously extravagant method of feeding. However, we all use it more or less and much may be said in its favor, so what we cannot stop let us try to mend. Leaving rough lands or permanent pastures aside, not one farmer in a hundred in my experience makes the least effort at special preparation for pasture. The results are quite up to the pre-

paration, the cows starve, and the farmers blame the weather.

Permanent pastures on arable land are not practicable, much less profitable. Hence a combination of meadow and pasture preparation seems really the thing. Good meadows and rich pastures are not spontaneous. Besides, the good meadow does not necessarily lapse into the good pasture in a year or two.

A great variety of grasses might be used for either hay or pasture. I have noticed that the more complicated is any plan offered for improvement the fewer farmers pay any attention to it. I personally have the same disinclination to follow any scheme that looks complicated, and I don't do it if anything simpler can be devised. Let me give you my plan for securing a good meadow, and later a first class pasture.

HOW TO SECURE A GOOD MEADOW.

Prepare the land. Begin to prepare the land the year before seeding down. That is, manure

Should be in Every Home

I am pleased with Farm and Dairy. It is improving every year. Its editorials are fearless and to the point. Farm and Dairy is a journal that should be in every farmer's home.—A. Hector Cutten, Inglewood Farm, Colchester Co., N.B.

and grow a hoed crop if possible. If a hoed crop is out of the question and manure is scarce, then plow from sod with a shallow furrow in late July or early August. Work well with roller, disc harrow and cutivator. Do not hesitate to work it often. Do not forget to work it well. Do not fail to work it at frequent intervals all autumn. Replow with a slightly deeper furrow, or better still, ridge up with double mould board plow in October after sod is well broken down or rotted. Leave thus all winter.

Prepare for seeding by levelling with spring tooth, stiff tooth or disk harrow. Smooth-harrow and roll. Sow two bushels oats, one and a half bushels barley or one and a quarter bushels wheat per acre. Sow grass and clover seed at the same time or the same day. If land is very dry harrow grass seed in with very light harrow and roll. If land is moderately dry roll only after seeding. If land is moderately moist neither roll nor harrow at the time of seeding but leave till grain covers the ground, then roll in fairly dry time.

DON'T FORGET.

A very important consideration is not to forget to sow the grass and clover seed. Very few of us forget entirely. The great majority of us forget about half or more and very many of us forget very nearly the whole thing. It costs quite a bit to remember in this case. I have a suspicion that this is why we so frequently and so easily forget. Forgetting is really more expensive if we would only stop to think or watch results.

The common grasses and clovers are the best to sow. Timothy, brome grass, cocks foot or orchard grass, rey grass, mammoth clover, red western clover, alsike clover and alfalfa are all suitable. The soil, the field and the purpose in view should influence the choice. Thus little use sowing cocks foot on light soil, no use trying alfalfa on badly drained land, and mammoth clover is rather unsatisfactory for late summer and fall pasturing. For average conditions, timothy, red western and alsike clovers will give best results.

Sow enough seed. Sow 12 to 20 lbs. timothy, three to five lbs. asiske and eight to 12 lbs. red clover an acre. If you heistate about lbs. red clover an acre. If you heistate about sowing so much sow a little more. If your soil is fairly rich and well drained add a few pounds of alfalfa per acre, say five or six pounds. A couple of pounds of mammoth in place of as much of red clover might be advantageous. In heavy clay soil four or five pounds orchard grass would do good.

THE MEANS OF SOWING.

The average seed frill grass seeding attachment won't sow this much seed. Sow it by hand or by means of special grass seeder. Divide the grass seed mixture into two equal parts. Sow each part to entirely cover the field. Sow the first half of the seed lengthwise, then, sow the second half crosswise, the field. The first half might be sown from the grass seed attachment on the grain drill, the second half by hand across the seeder rows.

The expense may seem prohibitive and does, I know, usually deter from this style of seeding. Such a seeding, leaving out the alfalfa, might cost from \$2 to \$3 an acre. The returns will be from \$10 to \$20 an acre in hay or in pasture each year better than from the average seeding. I have tried both ways for many years. I know. Try it. Then, when you have the pasture, use it wisely. Pasture down fairly well but not close. Give it a chance, either by having enough pasture for the whole herd, or divide the herd, or else divide their attention by giving the pasture a few days off now and again as needed.

So long as we continue to practice summer dairying almost exclusively as we do at present in Eastern Ontario, methods of summer feeding must be more important than methods of winter feeding. Good pastures are of value, but even the very best of pastures run short in times of drought. Then how shall we supplement? First and best, by the summer silo. Cows always welcome good ensilage. Or, next best, by various soiling crops.

AN ECONOMICAL FORAGE CROP.

The summer silo means corn for ensilage. Corn for forage is easily the most dependable, the most profitable and the most economical forage crop in Eastern Ontario. Growing much corn means good farming. Good farmers are sure to grow corn abundantly.

Growing corn well means a number of things. Foremost, a well drained field is necessary. This field is likely to give best results if it was in

"An address given before the recent E. O. D. A. convention at Belleville.

clover hay or pasture the previous year. An application of barnyard manure is almost an essential. It should be so applied as to be very near the surface when the corn is planted. The cern should be planted only when the land is in perfect tilth and warm.

To get best results, right varieties properly sown is the word. Longfellow, White Cap Yellow Dent and Leaming may be safely counted on all over Eastern Ontario. About equal areas of each will give good results. Sow thinly in rows 42 to 48 inches apart or in hills 42 inches apart. Keep well cultivated and free from weeds from start to finish. Ensilo when in dough stage. Feed when necessary.

To feed add cut straw and a bite of long hay. Suitable meal to feed along with it would be bran, oil-cake meal, corn and barley equal parts. Cotton-seed meal, gluten meal, pea meal or distillers' grains might replace the oil cake meal.

SOILING CROPS.

After corn comes the soiling crops. As king of soiling crops where it can be grown stands alfalfa. If your corn field was kept clean, is in good heart and lies gently sloping or is fairly rolling sow the alfalfa there. Sow a small area to begin with. Sow a goodly amount of seed, 20 to 25 pounds per acre. Inoculate the soil or the seed if possible. Every ton of green feed from the alfalfa field is worth half a ton of milk, every ton of hay is worth a ton of bran or thereabout. As an inspiration to milk production on the part of the cow consuming, it is a marvel. Feed some dry forage along with the green alfalfa.

Clovers, mixed or separate, in value, follow alfalfa fairly closely and are somewhat more easily grown on the average farm. They, like alfalfa, only in a lesser degree, inspire the cow to renewed effort at the pail. Feed some dry forage along with clover just as with ensilage and alfalfa. As make-shifts and good old standbys, come our friend the mixed crops. Peas and oats; oats and vetches; peas, oats and vetches; peas, oats and barley; peas, oats, vetches and millet; peas, oats, vetches and Hungarian grass; and peas, oats, vetches, millet and sorghum, to say nothing of innumerable other possible and commendable conbinations. Their great value lies in their certainty. Sow thickly, three to four bushels an acre. Feed when just beyond the milk stage. Too early means a loss of food value, too late means incomplete consumption. As an early ready soiling crop fall rye is of value. Another advantage is it does well on lands so poor other crops will scarcely grow. Sow one bushel per acre in early September. Feed moderately for fear of

WINTER ROUGHAGE.

As roughage for winter use, corn ensilage stands first. The addition of roots makes matters still better. For milk production, everything considered, mangels are probably the best.,

To grow mangels necessitates suitable soil, well fertilized and well tilled. Plow in August with shallow furrow, work at intervals, manure, replow with shallow furrow and subsoil hook. Sow early, as early as ever you can. Sow on the flat or on ridges 30 inches apart. If on ridges pack well before seeding. Sow plenty of seed, seven to mine pounds an acre. Mammoth, Long Red or Gate Post varieties are best. Keep clean, cultivate frequently. Harvest before heavy frost. Feed along with ensilage or alone if preferred. Best if fed along with corn ensilage.

As to clover hay, alfalfa and mixed crops for hay for winter feeding, remarks on these crops for soiling will apply.

There remains millet and Hungarian grass to complete the list of the more common and the more advantageous crops for winter forage. These are of value first because in case of adverse weather conditions preventing other crops being grown they may be sown even as late as early July and still give satisfactory results. The soil must be worked well before seeding. It should

be very mellow, very fine and yet very firm under foot. Sow 30 to 40 pounds an acre. Roll the land after seeding. Cut when in blossom or shortly after. As a feed for milk production it ranks very high, being about equal to clover ton for ton.

A Combined Ice House and Refrigerator

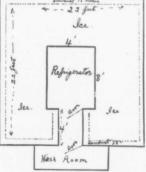
John Fixter, Supt. Macdonald College Farm.
An ice house and refrigerator combined is a necessity on the farm. At this season of the year farmers usually have time to think of plans to better their condition. The ice house is one that should be given careful consideration. It is not necessary to have an expensive building for

that should be given careful consideration. It is not necessary to have an expensive building for the purpose. Most farmers have sufficient material on the farm with which to build an ice house. Small poles may be used for all of the inside work. The outside would be better if sheeted with lumber. The roof should be shingled.

In selecting the site for the ice house it is well to have it as near the dwelling as possible. This naturally will be convenient to the well where fresh water can be secured for the tank or for washing pails.

DETAILS OF CONSTRUCTION

For the average farmer I would advise a building 22 feet square, as the larger body of ice the



A Refrigerator and Ice House Combined

better will be the results. Drainage is first to be considered. This is to keep the bettom of the ice house thoroughly dry, and to take the surplus water from the tank. It would be best to put in a stone or a concrete foundation, and to have it high enough so that the wood will not come in contact with the earth. Pine, hemlock or spruce may be used for the sills, studding and rafters, and even for the outside sheeting, although pine may be found best for the outside. A height of 12 feet is usually sufficient. It is well to have the door for filling, if possible, in a convenient place, so that the ice can be hoisted the full 12 feet.

The refrigerator is to be built directly in the center of the building, as shown in the diagram, and be four feet wide, eight feet long and seven feet high. The frame of this division should be made very strong, so as to carry tons of ice on top of it. The ice will be placed around the sides and at one end of this compartment as well. The other end is for the door. The refrigerator should be sheeted on the outside only, and have small openings at the top and bottom of both sides to admit of the cool air from the ice.

The doors of the refrigerator should be of double material. Have a space of four feet from the outside to the inside one. A large porch over the outside refrigerator door would be a benefit, also a convenience for washing pails. Should the doors of the refrigerator open inside of another building the porch will not be necessary. Ventilation, both in the refrigerator and in the ice house is a necessity. The ventilator for the refrigerator should be at least 8 x 8 inches inside, and be made double, allowing 2 inches of an air space between each board, and be arranged with a good slide so as to shut off the air or draught if necessary. The ventilator should extend direct through the top of the refrigerator and through the ice house roof, and have a suitable cap for a covering.

FILLING THE ICE HOUSE.

When ready to fill the ice house, cover the floor with not less than 12 inches of sawdust. Pack the ice directly on the sawdust. Leave a space of 12 inches between the walls and the ice. Plate cakes as close together as possible, and fill all spaces between the blocks with crushed ice. Fill in the 12 inch space between the ice and the walls with dry clean sawdust. Be careful that the sawdust does not contain any snow or ice chips. Cover the ice on the top with sawdust to a depth of two feet at least. This will leave sufficent to fill in the sides in the spring when the sawdust all ready in has settled.

For ventilation in the ice compartment, I would advise a shaft 18 x 18 inches square, fitted with a slide, and to extend well above the center of the roof, and also an opening at each end of the gable, fitted with slats, to admit the air. This should create a thorough circulation of air and thus prevent accumulation of heat under the roof.

A milk cooling box may be made 3 x 4 feet and three feet deep, to be made water tight; this box to be placed in one end of the refrigerator where drainage can be secured.

Creamery Patrons Losing Money Fred Dean, Creamery Instructor, Guelph.

There are a few patrons in districts under my instruction who put in a supply of ice each year for cooling their cream in summer. I have al-ways found their cream to be in excellent condition. On the other hand, a large number of patrons, to their loss, seem to think that so long as they can get the cream off their hands with as little trouble as possible, it is all that is necessary.

We are living in hopes that the time will soon come when patrons will awaken and take the best care possible of their cream and then look to the maker or proprietor to pay them as much as can be paid by any other creamery. Then there will not be such a wide variation in the prices paid for fat. We have found during the past season that for one month, the price paid the patrons for their butter fat varied from 17 to 25 cents a pound. Someone was certainly losing a lot of money. Who was it? Who was responsible?

Sheep at Agricultural College

Prof. H. S. Arkell, Macdonald College, Que. Mr. Harding's article in Farm and Dairy, January 13, brings up a point in connection with our live stock work which is well worth considering. Personally, I should much prefer to handle a single breed of sheep on the College farm that three, as we are now attempting to do. The farmers of Quebec do not evidence much interest in sheep husbandry though they might well do so with advantage to themselves. It is very certain that the maintenance of one good flock would stimulate more interest than the mixing together of a few representatives of two or three different breeds. The College would further be able to reach a much higher standard of excellencee in the flock than could possibly be attained under present conditions. The purchase of a small number of ewe or wether lambs of the other breeds, should represent no great loss if the breeders were not too exorbitant in their prices and should furnish excellent material for work in the various classes. If the members of the Sheep Breeders' Association should take it upon themselves to recommend this policy, the Department here would be very glad to adopt it.

I take it that Mr. Harding recognizes the value of having one breeding flock maintained at a College, though he does not explicitly say so. Breeding work is the one thing that gives stimulus to the live stock industry whether amongst farmers or students, and the College would suffer a distinct loss if such were given up altogether. In my opinion the policy would not prove satisfactory unless undertaken in the way suggested. It might be an advantage for each of the associations to choose the breeder who would furnish the sheep of its own particular breed for the year. In this way the difficulty of selection would be lessened and any unpleasantness avoided if claschance the College might be charged of giving a favor too often in one direction. It should be understood that a certain sum was available for the purpose and a fixed charge could be arranged for all occasions.

Live Cattle Trade Must be Continued

Dr. J. G. Rutherford, Veterinary Director General and Live Stock Commissioner.

It must not be forgotten that there is a constant paying demand in Britain for home killed dressed beef. This demand is certain to continue and as it can never, under existing conditions, be fully met by the British feeder, it is likely to remain profitable to those countries which, owing to their freedom from disease, are permitted to land live cattle in Great Britain. and are at the same time so situated geographically as to be able to transport such cattle at a reasonable cost and with not too great a risk

In these two respects Canada occupies, and will probably continue to occupy, a most favorable position. Many countries which, under other circumstances, would be our keenest competitors, have been compelled, for one reason or another, to abandon then export trade in live stock for that in chilled or frozen meat. As they are year by year improving their facilities for the carrying on of this trade, the supply of dead meat in the British markets, is likely, in the near future, to exceed the demand. In the United States, the only country at present in a position to compete with Canada in the live cattle trade, the home consumption of meat is increasing so rapidly, that the surplus for export is likely soon to be a negligible quantity.

It would thus appear that while the establishment of a chilled meat trade is necessary and advisable, it would be a short-sighted policy to contemplate the complete abandonment of our present export business in live stock. It should therefore, in my opinion, be not only continued, but fostered and encouraged, by making the conditions surrounding it as nearly perfect as possible. This can test be done by the maintenance of strict government supervision, involving full control of the methods adopted in transportation and the establishment of some comprehensive system of inspection, which, in addition to the present examination for health, would include the rejection of any animal of inferior quality or condition.

at is somewhat doubtful, whether it would ever be possible, in the face of the keen competition of an honestly conducted dead meat trade, to profitably ship grass fed cattle on the hoof from western Canada to the British market. There is, however, no question that, given better transportation facilities than at present exist, a profitable business could be done in grain fed western steers, as well as in the stall-finished cattle from Ontario and other eastern provinces.

In any event it is well to have two strings to one's bow and as each line of trade would steady and balance the other, it is to be hoped that, in the near future, we shall see both firmly established on a solid and paying basis.

Fleshing Horses for Market

Since every 100 pounds over 1,600 pounds in a draught horse means an additional value of from \$25 to \$50, or from 25 cents to 50 cents a pound; it is evident that it pays to fit heavy borses, even better than to feed hogs or cattle. That the farmer should never sell a draught horse while thin in flesh, was pointed out by Mr. T. Baker,



Before Feeding

Durham County, Ont., in Farm and Dairy, January 6th. The marked difference between the fitted and the unfitted horse is well shown in the two illustrations on this page, which picture the same horse before and after fitting.

The fleshing of horses for market is a subject that has received but little consideration from investigators. Recently, however, experiments have been conducted at the Illinois Experiment Station, by R. C. Obrecht, Assistant Chief in Horse Husbandry, on the relative efficiency of different rations for fleshing horses for market. The main object of these experiments was to secure data for a comparison of rations for feeding horses, as per the following: Corn and oil meal; corn, bran and oil meal; corn, oats, bran, and oil meal; when fed in connection with clover hay, or with timothy hay, with respect to the following points: 1. The rapidity and extent of gains. 2. The economy of gains as measured by feed consumed. 3. The nature of the gains as affecting conformation and ultimate-



After Feeding

Two illustrations of the same horse which go to show that it pays to fit horses before marketing them. The ad-joining article gives the results of some experiments on fleshing horses for market.

ly the commercial value. 4. The relative profit to the feeder after considering all items of expense and income. Another object was to secure data upon the influence of exercise on horses in taking on flesh together with methods of stabling.

Observations were also made in regard to the individuality of the horses used in the different lots in order to determine, if possible, the type and conformation best suited for feeding purposes; those making the largest gains as well as finishing into the most desirable market animals.

The conclusions arrived at from these experiments are:

1. A mixed grain ration of corn and oats, when fed with clover hay, is more efficient than a single

grain ration of corn for producing large gains in an 84 day feeding period.

2. While a ration of corn, oats and clover hay is more expensive with prices of feeds as stated. than one of corn and clover hay, the gains are

such as to make its use more economical. 3. Clover hay when fed with a mixed grain ration of corn and oats is more efficient for producing gains than timothy hay. In this test clover hay produced 58 per cent. more gains than timothy.

4. A ration of corn, oats and timothy is not satisfactory for producing finish in fleshing horses for market, but may be materially improved by the addition of oil meal.

5. One experiment showed but little difference in the efficiency of a ration of corn and oats where the oats fed equalled only one fourth the amount of corn and where the oats and corn were fed in equal quantities by weight, with clover hay as roughage in each ration.

6. A ration of one-fourth oats and threefourths corn proved more economical than one of half oats and half corn.

7. A ration of corn and bran fed in proportions of one part tran to four parts corn by weight is superior to an all-corn ration for producing gains when fed in conjunction with clover hay.

8. This test seemed to indicate that there is danger of feeding too much bran for best results when clover hay furnishes the roughage part of the ration. The bran and clover combined produced a too laxative condition.

9. A ration with a nutritive ratio of 1:10 is too wide for best results in fleshing horses. In these tests the narrower the nutritive ratio the larger the gains. Best results were secured with a nutritive ratio of 1:8.

10. Exercise has a retarding effect upon taking on of flesh. In this test the horses receiving no exercise made 24 per cent. more gains than those having a daily walk of 2.8 miles.

11. While box stalls are safer than single stalls for stabling horses, they are also more expensive, and do not offer merits not possessed by single stalls so far as they may influence the horse in taking on flesh. The horses stabled in single stalls made 16 pounds, or 8 per cent. more gains in 84 days than those in box stalls.

12. Thin horses of some market classes will not return as large a profit in feeding as those of other classes. The kind of horses it will pay best to feed depends partially upon the season of the year when marketed. All heavy horses will pay better than light horses, and good and choice animals better than those of the lower grades.

Weed Seed in Alfalfa Seed Geo. Martin, Waterloo Co., Ont.

Two years ago we sowed four acres of good clean land to alfalfa clover. We got an excellent catch and with it came up a great variety of weeds. The weeds were so thick and tall that we had to cut the oats to keep the land from being re-seeded with a larger quantity of seed weeds.

Last spring we sowed five acres more to alfalfa. in the meantime having changed our seedsman, hoping to get cleaner seed, but with no better results. Here again the land was absolutely clean from weeds previous to sowing the alfalfa; the oats sown in both cases were what we had grown on the farm for the two previous years and were also clean.

It strikes me that there is something seriously wrong with the seed business of our county. There was pulled out of the last year's sowing of alfalfa an armful of different varieties of weeds. I am sure that passers-by would say our farming is not of the best and yet we did our part as well as could be done.

We all like Farm and Dairy and would not like to lose a single copy.-Geo. Brett, Simcoe Co., Ont.

The Dairymen's Convention at St. Thomas

There were a number of features of outstanding interest connected with the annual convention of the Dairymen's Association of Western

creameries as well as cheese and but-ter makers that the government intends to require them to make certain needed improvements. As a re-

Mr. G. A. Putnam of Toronto, the director of dairy instruction warned the proprietors of cheese factories and Ontaric, held last week in St. Thomas. | sult of legislation enacted at the last

session of the Ontario Legislature, the proprietors of factories now have to secure certificates from the govern ment and after this year cheese and butter makers will either have to hold permits from the department of Ag-riculture, or certificates showing them to be competent to be in charge of a factory. Mr. Putnam announced that while the D. a factory. Mr. Putnam announced that while the Department does not intend to be unduly severe in the in-terpretation of the law, it purposes drawing the lines a little more tightly drawing the lines a little more tightly than they have been in the past with the object of still further improving the standards of dairy practice in the province. The Department has found that the legislation calling for better sanitary conditions in the factory and on the farm, which was enacted a few years ago, is being appreciated and that any resentment against it which existed at first, has practically disappeared. This legislation has been productive of much good. That the dairymen of Ontario are taking a greater interest in dairying is shown by the fact that during the past year. by the fact that during the past year they erected over 1,500 new silos.

they erected over 1,500 new silos.

THE WHEY BUTTER QUESTION
Mr. Geo. H. Barr, Chief of the
Dairy Division, Ottawa, in the course
of his excellent address on the care of
milk, which is being published in full
in Farm and Dairy, took a hard crack
at the practice of making whey butter. He stated that if factories
would take agents. would take greater care in the hand-ling of milk for the manufacture of ling of milk for the manufacture of cheese there would not be the over-run which has resulted in the manufacture of whey butter. Factories which have installed expensive machinery for this purpose ret trying to save losses of butter fat in the whey which need never have taken place had the milk been properly handled in the first place. This stand was born out by Chief Instructor G. G. Publow of Kingston at the Belleviii. Convention when he said that the manufacture of whey butter simply puts a premium on carelessness in the manufacture of cheese by the cheese nanufacture of cheese by the cheese maker.

LEGISLATION EXPECTED

Mr. F. G. MacDiarmid, M.L.A., a member of the Milk Commission appointed last year by the Ontario government, warned the dairymen, as Mr. J. R. Dargavel, another member of the Commission had done at Belleville, that as a result of the investigation.

tigations made by the commission in both Canada and the United States, some rather advanced legislation may be expected to follow the report of the Commission after it is presented to the House. The report is likely to deal with both the question of tub-erculosis as well as with the need for greater care in the handling of milk on the farm.

PRIZE FARMS COMPETITION

One of the features of the conven tion was the presentation of the prizes tion was the presentation of the prizes to the three dairy farmers who won first, second and third places in District No. 4 in the Dairy Farms Competition conducted last year by Farm and Dairy. The winners were Messrs. J. W. Richardson, of Caledonia. J. Penhale of St. Thomas and J. Penhale of J. Penh at one time after his father started work on their farm they were several thousand dollars in debt. Dairying had practically proved the salvation of their farm. All three competitors

thousand dollars in debt. Dairying had practically proved the salvation of their farm. All three competitors stated that the growing of affalfa had materially increased the profits of their farms. Mr. Richardson did not consider that Prof. Dean was correct in his contention that farmers do not make more than a living selling milk at \$1.00 a 100 lbs. The prizes were presented to the winners by Dairy Commssioner J. A. Ruddickellent addresses were delivered by Messrs, N. P. Hull of Michigan; by C. C. James of Toronto; J. R. Dargared of Elgin; by Prof. R. Harcourt of Guelph on "Cattle Feeds;" by C. F. Whitley of Ottawa, on "What Dairy Records Suggest. Suggestions for Improvement." by George H. Barr, on "Purther Experiments in the Care of Milk," and by Dairy Commssianer J. A. Ruddick. These addresses for the most part are either published in full in this issue or will be in following issues. ing issues.

OFFICERS ELECTED

OFFICERS ELECTED

The following officers were elected: Pres. Jno. H. Scott, Exeter; 1st vice-pres., Wm. Waddell, Kerwood; 2nd vice-pres., D. A. Dempsey, Stratford, 3rd vee-pres., S. R. Wallace, Burgessville; sec.-treas. Frank Herns, London; directors W. S. Stoes, Brittor, J. B. Smith, Alton; Geo. M. McKennie, Ingersoll; S. E. Facey, Harkenie, Ingersoll; S. E. Facey, Harfell, Condon, I. W. Steinhoff, Stratford: representative to Toronto Exhibition, Robt. Johnson, Woodstock.

FINANCIAL STATEMENT

FINANCIAL STATEMENT	
Cash from 1908 \$ 867.84 Members' fees 334.00 Gov't grant 1666.00 Money received from proseutions 912.50	
Money borrowed 590.00	
Sale of dairy exhibits 1596.89	
Advertising in program 120.00	
\$6087.23	
EXPENDITURES.	
Cash paid for prizes cheese and butter \$300.00 Cash paid for prizes dairy herd 170.09 Stenographer salary 440.00 Directors fees and expenses 1977-8 Pestage, stationery, printing 313.23 Judges and lecturers' ex-	
perses245.35	
Prosecutor's salary and ex-	
penses 617.8)	
Periodicals for members 214.41	
Cost of reporting	
Paid loan and interest 603.12	
Purchase of dairy exhibits 1616.0)	
Office rent, furniture, etc 237.91	

316.33 \$6087.23

456.25

Renew your subscription now.

Half of fines paid factories...

Balance



"Mr. Farmer, if some steel shingles are as leaky as the guarantee behind them, they're not worth the cost of labor in laying them. Stick to 'The Eastlake'. The Philosepher of Metal Town.

You can build cheaper than ever before - you can make your farm buildings weather proof for all time with -

Lumber is of inferior quality now-a-days. Why pay high prices for it when you can cover your buildings with "Metallic Galvanized sheet steel is the most desirable building material known, and "Metallic" is the heaviest and toughest made. By actual test "Metallic" has proved itself the best material for roofing and siding. Roofs covered with "Eastlake Metallic Shingles 25 years ago are in perfect condition to-day -absolutely lightning, wind, rain, snow and rust proof.

Look over this list, check the items that interest you, clip list and mail, with your name and address to us. We will give you valuable information that will save you money.

"EASTLAKE" METALLIC SHINGLES—for all buildings.
"METALLIC" ROCK FACED STONE OR BRICK SIDING—makes an artistic house.
"METALLIC" CEILINGS AND WALLS—most sanitary interior

"MANITOBA" STEEL SIDING—for grain elevators.

CORRUGATED IRON—for barns, implement sheds and stock

"METALLIC" GRANARY LINING-Easy to lay. Protects

the grain from rats, mice and other vermin. ipt of your name we will mail you our interesting illustrated booklets, "Eastlake Metallic Shingles" and "Interior Decoration in Metal." Write to-day. MANUFACTURERS

Agents Wanted in Some Sections.



Resessessessessessesses Feeds for Fattening Hogs

Extensive experiments in feeding hogs have been carried on by the Ohio experiment station. A summary of the results of these experiments as follows:

Corn alone at prices approximatin those that now prevail, 's not a profitable ration to use in pork production. edes richer in protein and mineral castituents should be supplied to expelient corn in a way to provide for the growth of muscle and bone as

ell as for the production of fat. The use of supplement feeds of the character mentioned in the preceding paragraph has given good results for

paragraph has given good results for feeding in ordinary dry lots, in cattle feed-lots and on pasture. Skim milk, tankage, middlings and pasture grass all proved valuable feeds for use in connection with corn. The supplemental feed to use will depend very largely upon market prices

The Feeders' Corner

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

Our Veterinary Adviser

RINGBONE.-Mare has a ringb mindpost.—Mare has a ringbone on hind pastern. It has been fired and blis-tered, but she is still lame. 2 I am told that coal oil applied in small quantities will cure it. Is that so?—W. R. L., Frontenae Co., Ont.

1. In some cases a second firing will fect a cure. If this fails, all that effect a cure. If this fails, all that can be done is to get a veterinarian to perform neurotomy, which consists

to perform neurotomy, which consists in removing the nerve supply of the foot. This operation usually gives good results in case of ringbone. 2. I have never known a cure to take place as a result of this treat-ment, but it will not cost much to ex-

ABORTION.—My cows are turned out every day for water. One heifer aborted. Would it be wise to breed her again?



A Winter Fair Prize Winning Berkshire Sow

The Berkshire illustrated, owned by J. Lawrence, Oxford Co., Ont., in class for sow under nine months last year won first prize. She weighs 361 lbs.

In the comparison of light and heavy grain rations for dry lot feeding, no marked advantage of either was evident so far as economy of gains was concerned. As would be expected, the heavy grain ration produced more rapid gains than did the

light grain rations.

Marked economy in cost of gains resulted from the use of a light grain ration in place of a heavy grain ration for swine on pasture. If a cheapion for swine on pasture. If a cheap-er feed may be used in place of the er feed may be used in place of the grain, it is often possible to lessen very materially the cost of pork production by feeding a light grain ration. If concentrates are to be used exclusively, the use of a heavy grain ration would be advisable, unless the aim of the feeder is to hold the stock in a low or moderate condition in order to secure cheaper feeds for fatten-

der to secure cheaper fee.ds for fatening later.

It is important for feeders to understand market conditions as well as efficiency of feeds. The rations that produce the most rapid gains are not necessarily the most profitable feeds te use. On the other hand, rations that produce cheap gains may produce the gains of slowly that the profits will be very small.

Either home grown or commercial supplemental feeds may be seen in connection with carn to save a supplemental feeds may be seen in connection with carn to save a supplemental feeds may be seen in connection with carn to save a supplemental feeds may be seen in connection with carn to save a save a supplemental feeds may be seen in connection with carn to save a sa

connection with corn to award advanuse whichever will be able. It will often pay farm grown feeds for able. It will often pas farm grown feeds for cial feeds. On the other hand of aften true that the use of feeds arm on the farm will prove more profitable than the use of commercial feeds. Feeds other than those discussed in this bulletin have given good re-sults when used to supplement corn. Buttermilk, preat meal, Inseed oil.

How can I prevent other cows aborting?— D. B., Essex Co., Ont.

The heifer slipped and fell or met The heifer slipped and fell or met with an accident in some way and this caused her to abort. It is quite pro-bable that she will breed all right next time. Avoid all accidents if pos-sible, and it is not probable you will have further trouble. There is noth-

Opportunity for an Energetic Young Man

We have a good opening for an energetic young man—a practical farmer with a scientific knowledge of feeds—to travel for us among stockmen throughout Canada, east of Toronto, in the interests of our feeding stuffs. One who has had training at an Agricultural College preferred. A speaking knowledge of French an advantage. Immediate engagement. Permanent position for the right man the right man. Apply to:

The Quaker Oats Company PETERBORO, ONT.

improvement of the tawa, Ont

ing in the case to indicate infectious dairy herd cannot be made until records form the starting point.—C. F.
Whitley, in charge of Records, O.

You can Know how a Wire Fence Will Wear **Before You Buy It**

There is no reason why you should take anybody's "say-so" about a wire fence.

You can test it before you buy it

We have a simple formula for testing wire which we will be glad to send you along with samples of our fence wire. You can compare it with any fence that is made.

Our Peerless Fence made from all No. 9 English wire, is equal to all emergencies. It has more than double the strength required. On account of the superior galvanizing on this wire, it should last more than twice as long as ordinary gal-

loggy climate of England for many years where ordinary galvanized vire rusts in as many months.

The Peerless Lock at each intersection of the crossbars is the most perfect device for the purpose yet

This can't-slip lock grips the two wires firmly, yet permits the fence to adjust itself to any surface.

The Peerless Fence never sags nor is it affected by changes of temperature. Its spring coil formation allows for all contraction and expansion, the wires always remaining perfectly taut.

Don't buy a fence till you know it will last and give satisfaction.

Write to-day for our formula and test samples of all makes of fence. Compare them with Peerless-we're not afraid.

THE BANWELL-HOXIE WIRE FENCE CO., LTD. Makers of Farm, Lawn and Poultry Fer and Gates. Dept. H, Hamilton, Ont. Winnipeg, Mun.

The Fence that



ABSOLUTELY FREE TOSTOCKOWNERS



TUSTOCKOWNERS

It is a few invention that you can carry in, your pocket and show your friends instantly a few invention that you can carry in, your pocket and show your friends instantly a few inventions of the few successful moving picture over taken of a World Champion Horse in his wonder! Jurk of speed.

A silk OF 240 N: YHR GADES CONTINUES OF ANY ATCH 1955

A SILK OF 240 N: YHR GADES CONTINUES OF ANY ATCH 1955

A SILK OF 240 N: YHR GADES CONTINUES OF ANY ATCH 1955

A SILK OF 240 N: YHR GADES CONTINUES OF ANY ATCH 1955

A SILK OF 240 N: YHR GADES CONTINUES OF ANY ATCH 1955

A SILK OF 240 N: YHR GADES CONTINUES OF ANY ATCH 1955

A SILK OF 240 N: YHR GADES CONTINUES OF ANY ATCH 1955

A SILK OF 240 N: YHR GADES CONTINUES OF ANY ATCH 1955

A SILK OF 240 N: YHR GADES CONTINUES OF ANY ATCH 1955

A SILK OF 240 N: YHR GADES CONTINUES OF ANY ATCH 1955

A SILK OF 240 N: YHR GADES CONTINUES OF ANY ATCH 1955

A SILK OF 240 N: YHR GADES CONTINUES OF ANY ATCH 1955

A SILK OF 240 N: YHR GADES CONTINUES OF ANY ATCH 1955

A SILK OF ANY ATCH 195

MY NEW MOVING PICTURES MAILED FREE TO STOCKMAN, postage prepaid, IF YOU ANSWER THESE THREE QUESTIONS

Ist. Is what paper did you see my Moving Picture Offer? 2nd. How many head Each of Horses, Cattle. Sheep, Hogs and Poultry do you own brow many series of land do you ern! 18. In what apper did you see my Moving Picture offer? Inc. How many head Each of Horses, Cattle, Sheep, Hogs and Poultry do you own the How many acres of the How acres





HORTICULTURE

Resessors Niagara Fruit Growers Meet

At the annual meeting of the Ni-agara Peninsula Fruit Growers As-sociation held at St. Catharines last week, much important business was transacted. A resolution was adopted setting forth that "in view of the rapidly increasing output of tender fruits from the Niagara peninsula, and from the fact that under the present methods and conditions, the distribution of ous and conductons, the distribution of these fruits is not satisfactorily nor systemateally conducted, a situation which results in dissatisfaction to the consumer and often in loss and disas-ter to the shipper, we would urge that a committee of prominent growers, selected from the members of this as-sociation, located at different shipping sociation, located at different shipping points in the district, be appointed to take the matter under considera-tion, to secure data, and, if possible, to formulate a plan whereby the pre-sent unsatisfactory conditions may be if not wholly eliminated, at least to a large degree remedied."

Another resolution was passed as dlows: "In view of the amalgamafollows: tion and merging of the various can-ning factories of the country into one or more large holding companies, it is the interests of the fruit and vegotable growers that a committee of growers be appointed by this associa-tion, who shall have authority and whose duty shall be to treat with these companies duty snall be to treat with these companies with the object of arriving at fair and equitable uniform prices for the various fruits and vegetables produced in this district, and used by the canning factories in their busi-ness."

The special spraying committee reported that after experimenting the had found that curl leaf on peach trees had found thus currices on peace with lime can be prevented if sprayed with lime and sulphur previous to the time the buds begin to grow. If the leaves buds begin to grow. If the leaves start and curl while the leaf season the pest cannot well be checkon one orchard by spraying all but five trees in the manner advised. In ev-ery case, save those of the five trees, the crop averaged ten baskets. The other five lost all their foliage and fruit

Officers were elected for the various districts and a series of meetings were arranged for the coming spring. Further reference to this convention will appear in next issue.

Brown-Tail Moth on Imported Nursery Stock

To Nurserymen and Others:-We are again confronted with the possi-ble introduction of the brown-tail moth into the Dominion in the shape of the winter nests on nursery stock imported from abroad, especially from certain regions in France where nursery stock has sometimes been found growing in fields bounded by hedges infested with the brown-tail moth

Last year nurserymen and other imco-operated with this diviporters porters co-operated with this divi-sion in the work of preventing the in-troduction of this insect by notify-ing us of the arrival and expected ar-rival of consignments of nursery division to inspect the stock and to tact with the root of the tree in plant deartoy any of the winter nests that ing.

were found. Over a million and a so better investment can be made half plants were examined and near on a farm just now to enhance its ly 200 nests were found on seedlings value than a good large apple orchard and stocks of pear, apple, plum, on proper soil. Trees grow into value of the fact that each nest con- One thing that has hurt the apple growers, borriculturists and others are too small and contain too many growers, borriculturists and others were varieties. There are not enough large sulting from the work of last season orchards together to form a co-operance readily be understood. In the six of the succession and do a practical business.

recessessessessessesses are being spent annually by the var- The Cost of Producing Grapes ious authorities in their efforts to control and prevent the spread of this insect which has established itself in those regions since its intro-duction into Massachusetts on imported stock about the year 1980. It is of the utmost importance that all steps possible shall be taken to pre-vent its introduction and establishment in those regions of Canada now free from its attack, and its further spreading in these places in Nova Scotia and New Brunswick where it en introduced accidentally. Its establishment in Canada would be most serious to the nurserymen and fruit growers of this country, and every precaution possible must be taken to avert such a calamity. Will you kindly inform me, there-

fore, if you are importing or have already imported nursery stock this season from abroad, and the place from which the stock is being or has been imported. been imported.

As nests have been found on stock imported during the present season, I should be pleased if you would send me this information at once in order that your stock may be inspected, if necessary. If the stock has not arrived already would you please send me notice as to the time of its arrival in order that it may be inspect at the time of unpacking, thus the least inconvenience will be

has been found that fumigation is of no avail against this insect and destruction burning of the by winter nests is the only safe remedy.

I feel sure that all to whom this letter

is addressed will be alive to the seriousness of the danger which is mminent, and will co-operate with the division and other authorities in the efforts being taken to prevent the introduction and spread of the browntail moth. I shall be pleased to supply further information or reply to ply further information or reply to communications on the subject and shall be grateful for any assistance which you are able to give to me.—C. Gordon Hewitt, Dominion Entomol-ogist, Ottawa.

Orchards in Halton County

R. J. Hare, Milton, Ont.
Nursery men are again getting
ready to send out large quantities of ready to send out large quantities of nursery stock for spring planting. The apple orchards are taking the lead, and as there has been a very heavy run on apple trees in all the nur-series, the prices of trees for the fu-ture are liable to be higher. Some nursery men have already advanced

The farmers of Halton County and especially the Townships of Tra-falgar and Nelson, are waking up to realize the good money there is in the apple business. This is brought about largely by the opening we have now in the Northwast Provinces, that will be continually wanting more and more of our good highly flavor-ed apples, which no other country is able to compete with for quality. Th we have an advantage in shipping to that territory over British Columbia in the matter of distance. After all that we have the Old Country market, as good or better than it ever was before. We would advise men that are going into this grand enterprise to fit the ground well before planting. ing us of the arrival and expected are to us the ground well occurs, in the ground will be a consignments of nursery Cultivate not less than nine inches, stock from abroad. This enabled the and allow no manure to come in condivision to inspect the stock and to tact with the root of the tree in plant.

In the issue of Farm and Dairy In the issue of Farm and Dairy for December 30, an article appeared on this page entitled: "In Grape Growing Profitable?" This was the subject of an address at the Ontario Fruit Growers' Convention in Toronto last November by Mr. Murray Petit of Winona, Ont., who answered the question in the negative.

An interesting discussion followed Mr. Petiti's address, most of the

An interesting discussion followed Mr. Pettit's address, most of the growers stating that Mr. Pettit's esgrowers stating that Mr. Pettii's es-timated cost of production was a little high. Mr. Fred Goring, St. David's, who has earlier soil and an earlier location said that he finds the cost of production much less than the figures given by Mr. Pettit and that his prices are better. Mr. Robt. Thomp-conditional data grames can be grown son claimed that grapes can be grown for one-half the cost mentioned. Mr. for one-and the cost mentioned. Mr.

E. D. Smith also thought that Mr.
Pettit's figures were a little high.
He said the growers should not be
discouraged because grapes sold at a
loss towards the end of !ast season.
Wine men have been off the markets Wine men new unformented wine win for two years. Unformented wine win be made in the near future in this province, and will take one-half of the crop. Mr. Smith expressed the

opinion that co-operation in itself opinion that co-operation in itself will not raise prices. He stated that there are no middlemen in the busi-ness to-lay except those absolutely necessary to the collection, distribu-tion and sale of the cop-The premature marketing of grapes came in for a considerable discussion.

n for a considerable discussion. Robt. would work its own cure. The man who cuts early will get less money than if he had waited a little while. Prices will drop in two or three days and stay down. Mr. M. Pettit than it is near Prices will drop in two or three days and stay down. Mr. M. Pettit thought that it required more than education. He believed that legislation is necessary to prevent this cind of fraud. Mr. C. E. Bassett, a large fruit grower in Michigan, said that the matter is within the control of co-operative associations as kny their members are concerned. their members are concerned. Sales associations find that it does not pay and they will not open their cars early enough in the season for the reception of green grapes. Immature reception of green grapes. Immature grapes at all seasons should be re-

Farm and Dairy is a good farmers' paper and should be in every home.—S. Macklin, York Co., Ont.



Champion Evaporators



Make better syrup. Do not delay! any longer. Now is the proper time to give your Maple Syrup business a little thought. By placing your orders early you can have your Evaporator all set up before cold weather reaches you. This insures taking care of the first runs of sap, which are the most profitable. All underdades your makes were the profitable. up-to-date syrup makers use Champion Evaporator.

Make better syrup. Do not delay

THE GRIMM MFG. CO. 58 Wellington St., MONTREAL

to mention the name of this publication when writing to adver

POULTRY YARD

Essassassassassassassass Rations for Winter Lavers

S. Short, Carleton Co., Ont.
The scarcity of fresh eggs at this
season, which is the rule with few exceptions amongst poultry keepers,
brings up the question of ratiors. The
general opinion, from the discussion the subject by the members of the Ottawa fraternity, seems to be that mixed grain is better than one variety. that it should be fed in clean litter, such as forest leaves or straw to prosuch as forest leaves or straw to pro-mate exercise and vigor, and that the grabould be plenty of vegetables— numbules preferred—or beets, cablage, turnips, small potatoes or carrots. Also some animal food should be giv-en in the shape of ground bone of home cooked meat from the stock pot. Some few did not feed soft feed but Some few did not reed so to leed our the majority were in favor of feeding sufficient to about half satisfy the fowl at mid day. My own opinion about soft feed is that it is a good ration for fowls in a warm house, and for active fowls like Leghorns, and for active lows like Leghorns, Minorcas and birds of that type. For heavy fowl in a cold house 1 think whole grain is better, and that soft feed should be fed sparingly to lay-

To summarize, the following rations and equipment are recommended and if fed intelligently and systemat-ically should produce good results if the fowl are of the proper age and the house at all comfortable. Mix grain in the following proportions: 40 per cent. wheat (good); 20 per cent. oats; 20 per cent. barley; 20 per cent. corn (whole).

Give one pound of this to every six Give one pound of this to every six birds in the morning, throw into fresh litter, a sparing feed of ground meal (soft food) at noon, and the same quantity of grain as the morning fed in the evening. Add to the above once or twice a week, an ounce of ground bone for each fowl, or meat supplied in any convenient way. Give

fresh water daily.

Some discretion must be used as to the quantity of food supplied. The

ABSORBINE

the nair, or anying the naive way, resource to use, \$47.5 per bottle at dealers or delivered. Horse Book 5 D free.

Also Bished, \$18., (mankind.st.00 bottle, 15 or Stratana, Gont, Varieous Veins, Var. of the high stratana, Sont, Varieous Veins, Var. or Stratana, Cont. Varieous Veins, Var. or Veins, Var. 1, 123 femble 81. Springlieti, Mass. 1, 124.8 kd., Neutral, Causalda Agran, C

ELM GROVE POULTRY FARM ELM GHOVE POULTRY FARM
Rose Cond Brown Leghorn, Silver Grey
Mammoth Bronne Furkeys, Embden Geese
Some splendid byrgsins in R. C. Brown
Leghorn Cockerols and Pullets; also in
Leghorn Cockerols and Pullets; also
Leghorn Cockerols and Fullets also
J. H. RUTHERFORD, Set St Caledes East, Ost
Member of the Leghorn Club of Canada
Telephone 7 on R. Rollon

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD CASH WITH ORDER

BACED ROCKS.—Winners at the leading shows of Canada. High grade stock at bargain prices. Write your wants.—Leslie Kerns, Freeman, Ont.

POLITOV VADD a count for the should go to roost with their crops full and yet not leave food around for rats or mice. If their around for rats or mice. If their crops are felt just after they have gone to roost the fullness or otherwise will indicate whether to increase or decrease the rations.

Buying Supplies

Is the Producers' Association go-ing to help the producer in buying sup-plies? Has anything been done in this matter?

matter?
2. Is this association going to have special egg crates or boxes, or are we to ship in humpty dumptys?
5. As I am in the market for grit, shell, hone and meat, would you advise buying dried meat, instead of beef, liver and heads at fave cents each?—A. S. Chateaugnay Co., Que.

1. Nothing definite has been done in the co-operative buying of supplies.
It will take considerable organization before we can do much in this and we thought best not to touch it until we were sure of our ground.

2. The association have not decided

2. The association have not decided that it will have any special egg crates or Loxes. I think, however, it would be a good plan. Humpty dumpty are not the best shipping boxes for eggs. This matter however, can be taken up at our next annual meeting in February.
3. Grit and shell can be supplied to the hens by small, fine gravel and lime in any other form, but usually this is so inconvenient and hard to

inconvenient and hard to get that the commercial shell comes cheaper. The dry, ground bone is just as nutritious as the green bone, but may not give such good results because the hens do not like it as like it as because the nens do not like it as well as the other. If you have a bone mill, and it is not too much trouble to turn it, beef heads at five cents are cheap. Even at that price, are cheap. Even at that price, heads halved or quartered, make nice picking for the hens if hung up in the pen. Liver also make a good change given so more than they eat much of the head lost if it is not cound that it may be a question worth considering as to whether a lone mill would pay.—F.C. Elford, Macdonadt College, Que.

Farmers' Clubs and Poultry Co-operation

The writer is organizing in this village a farmers' club, and one of the industries that we shall follow up closely is that of poultry raising and marketing. The writer intends to make the club a central eriter intends to make the club a central station for poultry and eggs, as he is anxious to make the best showing possible at the carliest possible date, in order to show the members that they can by working on right lines make those clubs and associations of prectical work and couraged to continue into other lines which are open for them, the growing of special crops, etc., etc. Kindly advise as to how they run the work. If you please forward me one, and should you can get, please to mention the same.—A. W. S., Ont.

We are sending you what printed.

We are sending you what printed information we have in reference to the C.P.A. You will notice by looking over this matter that the associa-tion was organized to assist the producer to market his stuff to the best advantage. We have had more or advantage. less assistance along the production end, but nothing has ever been done to make it easier for the producer to

placing seed in good pea-growing sections free from Weevil' or "Pea Bus."

I supply the seed and contract with farmers for the product, deducting the seed supplied when crop is delivered. Prefer growing in places where a car-load of seed could be placed. For particulars, address:

W. P. NILES, Wellington, Ont.

It is with this object in view that the association was formed. It does not actually buy and sell, but it endeavors to keep its members in touch with the best markets, and vice sa. We have been operating one two circles and they have given d satisfaction. The question has versa. good satisfaction. The question has been taken up more and more by just such organizations as you expect to have. We will be very glad to hear from you as to what you are doing and if there is anything else we can do for you along this line let us hear from you.—F.C.E.

The book Poultry Feeding and Fat-The book Poultry Feeding and Faitening which I received as a premium from Farm and Dairy for one new subscription pleased ane much. It is far better than I had thought I would receive. Farm and Dairy is splendid.—A. G. Hodson, New

itrate of Soda

Nitrate Sold in Original Bags NITRATE AGENCIES CO.

California 321 Stimson Block, Los Angeles 520 Bank San Jose Blidg., San Jose Georgia 36 Bay Street, East, Savannah Illinois 1204 Hardrord Building, Chicago Louisiana 366 Baronno St., New Orleans New York 52 Stone Street, New York Uriginia Gitteens Bank Blidg. Norfolk Virginia.... Washington Canada..... Cuba 603 Oriental Block, Seattle1103 Temple Bldg., Toronte

Addres: Office Nearest You Wette for Quotations

CRUMB'S IMPROVED STANCHION



Write LEARN TO for FREE MOUNT

RIG PROFITS

FREE Elegant new catalog and Taxidermy Ma NORTHWESTERN SCHOOL OF TAXIDERMY

WINDMILLS **Towers Girted**

every five feet apart and double braced Grain Grinders Pumps Tanks Gas and Gasoline Engines

> Concrete Mixers Write for Catalogues

GOOLD, SHAPLEY & MUIR CO., LIMITED BRANTFORD, - CANADA

Dr. Bell's Veterinary Medical Wonder cures kidneys. The auth century wonder. Agents wanted in every county. Write for a tree trial \$1 bottle. This

offer only go WALLACE B. CRUMB, Box Do, Forestville, Conn. DR. BELL, V.S., Kingston, Ont. Just sit down and write us for full particulars of the best business proposition you are likely to hear this year. Let us tell you, in plain words, how very little money will start you in the profitable business of poultry-

profit you speedily.

Let us ship you this and trust you for it. We pay freight and give you a 10-year guarantee

T

raising The Peerless Way. Let us show you why it will pay you well to One PEERLESS adopt the Peerless methors. PEERLESS users

Poultry ought to be a side-line on every farm -

every farm—

The moltry resp is the one rept that were take. Every farmer corrisiny ought in the respect to the The poslity-crop is the one crop that never fails. Every farmer certainly ought to make poslity a "side line, at least—it have fails and the series of the control of the c

Vour cuttle in pretter post with any Voye can equip periter but for the vote can equip periter but point in the vote can equip periter but point pretter but periter but pretter but

user will sell 200000 fowl this year erise pay you well, and Britis fails a large free Secural health in thousand service free Free pay you well, and Britis fails a large free Free pay you well, and Britis fails a large free party or a control of the party of the party

Besides finding a buyer for our customs poultry-products (which we do free

More than 10,000 **PEERLESS** users are successful -

Poultry-raising with the difficulties taken out of it—that is the reason why The Peerlees Way has proved profitable for over ten thousand people, scattered all over Canada. There is not a reason on earth why it would not do as much for you as it has for the most successful of them. No matter where your farm is

Send right away for FREE very valuable information.



FARM AND DAIRY

AND RURAL HOME

Published by The Rural Publishing Company, Limited.

FARM AND DARRY is published every Thurwisy. It is the official organ of the British Columbia, Manitoba. Enatern and Western Ontar'o, and Bedford District, the Canadian Holstein, Arrhive, and Jersey Quatie Breeders' Associations.

SUBSCRIPTION FRICE, 1907 (2014), 820 a year, SUBSCRIPTION FRICE, 1904 (2014), 820 a year, For all countries, except Onnada and Great Britain, add 50 for postage. A year's subscription free for a club of 1.8 REMITTANCES should be made by Post Office or Money Order, or Registered Letter. Foreign 81.50 on all cheeks add 30 cents for exchange fee required at the basiles. OF PARTY

add 30 cents for exchange ree requires the banks. G. ADDRESS. — When a 4. CLBA and the second of the CIRCULATION STATEMENT

CIRCULATION STATEMENT
The paid subscriptions to Farm and
Dairy exceed 7,825. The actual circulation
of each issue, including opples of the paper
sent subscribers who are but with the subscribers who are but with the subscribers who are but with the subscribers who could be subscription are accepted at less than the full subscription area. Thus our mailing lists do not constant the subscription area. Thus our mailing lists do not constant the subscription area. Thus our mailing lists do not constant the subscription area. Sworn detailed statements of the circulation of the paper, showing its distribution by countries and provinces, will be mailed of the paper scription and the subscription area of the subscription and the subscription area.

When the readers of Farm and Day want to be a second of the control of t OUR PROTECTIVE POLICY

FARM AND DAIRY PETERROPO, ONT.

DISCOURAGE THE BARTERING SYSTEM

Thanks to the general prosperity that has been enjoyed in the older and better settled districts where farmers have been enabled to do a cash business, the old system of bartering country produce at the corner store for dry goods, groceries and other trade, while still practised more or less, has given place to a straight cash business. This is as it should be. The benefits of the change are many and most marked.

In the newer districts, the old system of bartering still prevails. Throughout Muskoka, Parry Sound and some of the districts of New Ontario, cash transactions are almost unheard of. Many firms are carrying on an enormous business in farm produce, tan-bark and lumber and they obtain these commodities for the most part without paying a dollar in cash. They give goods in for any one field to be in pasture are exchange.

This bartering system is good for

business is transacted on a cash basis.

Throughout Muskoka and Parry Sound, large quantities of dairy butter are manufactured. While through these districts last fall, an editor of Farm and Dairy learned, and viewed the matter with much concern, that practically all this butter was handled by local stores and that goods were exchanged for it, a very moderate valuation being given to the butter. A ray of hope sprang up, however, when it was found that here and there an occasional farmer had broken away from this bartering system and had sought a market for his produce in the larger and more distant towns where he was realizing a greatly increased price and was receiving spot cash for his produce.

This business of bartering farm produce for goods, together with the credit system is the curse of many of these more sparcely settled districts The same is true in other parts. We should realize that there is a great and growing cash market for all kinds of farm produce in more distant centres, if not at home, and we should aim to place our goods upon these markets and wipe out this business of bartering. In order that greater quantities of a given commodity may be had, such as will command the attention of distant buyers and on which favorable transportation rates can be obtained, we should co-operate with neighbors in marketing our produce.

PRACTICE A CROP ROTATION

A crop rotation planned to suit the location and carried on with a fair understanding of natural conditions, may be made to give the land greater productive power. The convenience and probable immediate profit of farm work are involved in a suitable rotation. But, notwithstanding the well known benefits of intelligent crop rotation systematically carried on, many continue year after year to give very little attention to this important matter.

The low average vield of many farms, their depleted fertility, the prevalence of weeds and the inferiority of pastures are largely owing to this disregard of the principles and practice of crop rotation. This same disregard of suitable crops and rotations is responsible for what might be termed the special drudgery of some farms. A variety of crops properly rotated better distibutes the work of the year and enables one better to provide for live stock; besides, one crop may more profitably follow another than itself from its leaving the soil in better condition.

The practice of cropping continuously so long as such seems profitable and then seeding down to grasses needs to be discouraged. Long terms also far from being in the best in terests of the land or of its owner; the dealer. It is severe on the farmer, yet scores and scores of farmers take At times it is most unfair and rarely hay from a field so long as it will is it conducive to the high average give a fair return and then use it

of prices that are possible where all many years for pasture. The sod, excuse that can be given for the mewhile it is not favorable to weeds, harbors insect pests and is responsible for the depredations of wire worms and white grubs when such land again is brought under cultiva-

The short rotations, three-year or four year, have everything to commend them. These naturally cannot be applied universally. But while they are adapted only to certain conditions, longer and shorter ones under other circumstances may be made to unlock fertility and to yield satisfactory results if intelligently planned and persistently pursued.

If for any reason, we have failed to give crop rotation its due consideration in the past, it will be well to do some solid thinking on and planning rotations that can be put in working order at the commencement of the growing season of 1910.

GRASP THE POSSIBLE

This season of mid-winter with its long evenings and their accompaniment of more or less leisure hours furnishes ample opportunity for reflection on the business of the year now past and for making plans for the forth-coming season. It is a time when we may well seek to discover wherein methods of farm management can be improved, wherein we can increase the production of stock, of crops and of the farm at large. The matter of varieties of crops

merits special consideration. We ought to determine whether or not the crops grown last year have been the most profitable crops to grow. The findings of the Ontario Agricultural and Experimental Union through its thousands of experimenters will serve as a valuable guide. We quote a few examples to illustrate this point of the difference in productiveness of different varieties of grain. The Siberian oats stood at the top of the list with 1,414 pounds of grain to the acre; the common Mandscheuri barley, 1,578 pounds; the O.A.C. No. 21 barley, 1,649 pounds-a marked difference in favor of this special strain. In actual pounds of grain produced, common emmer had 1,815 pounds per acre to its credit. The mixture of Daubeny oats (34 lbs.) and Mandscheuri barley (38 lbs.) has to its credit a yield of 1,518 pounds per acre. Thus a great difference in yielding power was noted among the different classes of grain. A wide variation in productiveness was noticed in addition between different varieties of the same class of grain.

. These are things that should receive our earnest consideration. Reports of our various experimental stations, the Ontario Agricultural College, the Experimental Union and our Dominion Experimental Farms. all can be had for the asking and contain valuable information which needs only to be studied and practised to be appreciated.

Other things in great numbers pertaining to the farm likewise will bear mature reflection. We need to think. The lack of this exercise is the only

diocrity of success wherewith in the past we have been satisfied. The possible is within reach. Grasp it!

CATTLE BREEDING SYNDICATES

It is about time that we were getting down to doing something definite in the matter of increasing the production of our dairy herds. Phenomenal records of individual cows we have in numbers. Many cows have qualified in the Record of Merit and Record of Performance tests, but what of the average dairy herd? There still continues to be much in-difference as to the whole matere any progress that has been mad falls far short of what it might be.

We are inclined to think this question of increasing the milk production of dairy herds as being a long winded business, that cow improvement requires years of persistent effort to accomplish. Records of herds recently published ought to dispel this idea forever. The history of the herd owned by Mr. Arnold J. Davis, Oxford Co., Ont., published in Farm and Dairy, December 30th, gives a fair instance of how quickly improvement can be accomplished. That he should have doubled the production of his herd in only five years' time is most encouraging. Special note should be taken of the fact that the average production from the heifers of a good sire, in Mr. Davis' herd, was for their first period of lactation 2,000 pounds per heifer more than the average production of their mothers that were matured cows. The value of good sires needs no further argument.

These good sires cost good money, however, but they are worth it. In order to overcome this point, the suggestion thrown out by Mr. C. F. Whitley, at the recent convention of the Eastern Ontario Dairymen's Association regarding the formation of breeding syndicates for the purchase and exchange of bulls, is worthy of our best consideration. Mr. Whitley's scheme is that 15 or 20 men should club together under a six-year agreement and purchase three good bulls, the herd to be divided into three groups, each group to have one bull three years and at the end of each three-year period, there should be a redistribution and thus each member of the group would have the use of three good sires for three years each and at a cost far lower than if each member bought separately.

Let us hope that at least a few of such organizations will be organized shortly. They would work untold improvement in the dairy cattle of his

The short courses in stock and seed judging that are being put on in several centres by the district representatives of the Ontario Department of Agriculture deserve most hearty support. Those counties wherein these courses are held are most fortunate in having such valuable instruction brought to their very doors. A large attendance at these events is the most tangible way of showing the Department that this work is appreciated.

Creamery Department

Butter makers are invited to send con-tributions to this department, to ask ques tions on matters relating to butter making and to suggest subjects for discussion. Address ictions to Creamery Department.

Going to Use the Scales

Wm. Newman, Victoria County, Ont. Creamerymen have continued using the pipette for measuring the cream samples because they did not realize that they could weigh the samples quickly and correctly. Scales were questy and correctly. Scales were somewhat expensive, and were not known to any extent. These reasons coupled with the fact that it is hard to get away from the old way of doing things has hed us back from making the a vance that we might have made.

I have realized for some time that I have realized for some time that we should change our method and use the scales rather than the pipette as urged in an editorial in Farm and Dairy Jan. 12; thinking that it might remove much of the dissatisfaction among patrons; also because I have found it hard to take a sample with out incorporating more or less air with the sample. Then I knew that the the sample. Then I knew that the man senting rich cream was hard-ly getting a fair deal. After study-ing the principle for some time I have decided to weigh all samples for cream testing. I do not think that by doing this all our troubles will be stopped, for most of the dissattlafaction that creamery men have is from the patron sending poor or thin cream. But I will know that at least no air will be measured with the sample, and I will be satisfied that the

reading is more nearly correct.

The man who takes this stand is at a great disadvantage because weighed samples, compared with measured samples, mean a lower overrun and lower price for butter fat. This may go well for a time, but at the end of the year patrons are apt to forget and are inclined to compare their returns with the average price their neighbor received who sends to the opposition creamery. So scales may mean that we shall have a hard time to hold our patrons. I move that all creamery men adopt the use of the scales for weighing samples of cream instead of measuring with the pipette. Will some one second my

Creamery Problems

Prof. H. H. Dean, O.A.C., Guelph What we shall have to say about creamery problems will centre about creamery problems will centre about three words, which are associated with progress. These words are, more, better, brighter. We prefer these words rather than most, best, brightest, because the latter indicate the highest possible achievement and when man has reached this stage there is nothing further to be done. He may as well quit this place of ex-istence. Progressive, improving, do-better dairymen are what is needed nery and all other branches of the dairy.

MORE CREAM PER COW AND PER ACRE. Larger dairy farms are not needed in Western Ontario. Because cream is a more or less indefinite commodity it will suit our purpose better if we use the term, milk-fat. Some recent investigations in Ontario would indicate that the amount of milk fat supplied to creameries is less than one-half pound per cow daily. If the average 100 acres carry 10 cows, and the cows milk 250 days in a year, we have 1250 lbs. milk fat produced on 100 acres—an average of 12½ lbs. per acre. If we spread 12 ½ lbs. fat over one acre of land we shall have a very thin coating, so thin that it could not

*An address delivered at the Western Ontario Dairymen's Convention in St. Thomas, last week.

be seen with the naked eye. If we can increase the milk fat production to 390 lbs. per cow and the under the comment of the co receeseseseseses be seen with the naked eye.

MORE BUTTER PER GALLON OF CREAM.

A great deal of loss to the farm and extra expense to the creameryman re-sults from what is commonly known as 'thin' cream, i.e., cream containing too small a proportion of fat and too large an amount of skim milk. Man-ufacturers and agents of cream separators can do a great deal to assi on this point. With average milk t separator ought to be so regulated that not more than 12 per cent. of the whole milk is taken as cream. This whole milk is taken as cream. This will give a cream testing about 30 per cent. fat. The advantage to the farmer in having cream which tests about 30 per cent, is that he thereby has more valuable food for stock and more fertility for the farm. The creameryman obtains more butter from a given volume of cream which is likely to be of better quality as it is the skim milk in cream which is the cause of sou of sourness and most of the

MORE MONEY PER POUND OF BUTTER What is a pound of butter worth as human food? It would be difficult to give a direct answer to the question because the value of foods is always comparative. A food has a certain value compared with something else. Generally speaking, we believe that butter is worth not less than 25 cents a pound. If there was less poor, pound. If there was less poor, eap, dairy butter put on the market cheap, dary butter but on the market it would tend to increase consump-tion and price. If farmers would patronize creameries, instead of mak-ing the butter at home and selling it, or "trading it out" at stores, and ing the butter at home and selling it, or "trading it out" at stores, and allow the expert salesman of the creamery to sell the butter, the price of butter could be advanced at least five cents a pound. We know of a creamery that practically controls the butter market of a certain city and the process of the form of the former program of the former p butter market of a certain city and as a result of the farmers having pat-ronized this creamery, the prices ob-tained for their butter are fully five cents a pound more than they form-erly received after paying the cost of manufacturing, and they are sav-ed the labor and expense of making the butter at home. BETTER CREAM.

Stronger efforts are needed towards the improving of cream, the raw material for buttermaking. Ideal cream is that which is not over 24 hours old, sweet and clean in appearance and sweet and clean in appearance and flavor, and tests an average of about 30 per cent fat. Where pasteuriza-tion is practised sweet cream is very important in order to reduce the loss of fat in the buttermilk. Experiments conducted at the O. A. College during 1909 gave the following losses of fat in the buttermilk when cream of fat in the buttermilk of existing the cream of the conductive way. various percentages of acidity were

Cream containing less than 35 pent. acid-buttermilk contained per cent. fat.

cream containing less than .35 to 4 per cent. acid-buttermilk contained .2 per cent. fat. Cream containing less than .4 to .5 per cent. acid-buttermilk contained

.34 per cent. fat.

Cream containing over .5 per cent.
acid-buttermilk contained .52 per cent.

butter fat. These results indicate the importance of sweet cream where pasteurization is followed.

Cream containing a relatively high percentage of fat, kept at a low tem-perature (50 deg. F. or under) and delivered frequently (at least three

The Cows on a Thousand Hills

> Get Full Credit When the

De Laval Cream Separator

SKIMS THEIR MILK

FREE BOOK

THE DE LAVAL SEPARATOR CO.

173-177 William St. MONTREAL

WINNIPEG

VANCOUVER

a week) are favorable condi- my tions for obtaining better cream at creameries

Better butter means butter of clean-Better butter means butter of clean-er, sweeter flavor, uniform in color, properly salted and put up in packag-es suitable for the market to which it is sent, and shipped to the consum-er while in a fresh condition. Where butter is to be kept for any length of time or where uniform quality is de-sired pasteurization of the creem is one of the greatest aids in making better butter. The markets of the world are asking for more butter and better butter. It is the business of the creamery managers to supply this demand and exact the price. In the words of a somewhat slang phrase: 'Plan your work, then work your

This leads to the central thought of

address. One of the biggest creamery problems is how to obtain

BETTER MANAGED CREAMERIES.
To obtain this it is necessary to have: A good manager, a tactful, good business man.

2. Loyal patrons, those who stay with the creamery, through good re-port and ill so long as the business

is well managed.
3. Quick, safe sales, with prompt returns are necessary.
4. Prompt monthly or bi-monthly

settlement with patrons.

5. A proper system of book-keeping and clear, concise monthly statements

Careful, honest drivers.

DON'T PUT OFF Seeing your friends and having them Farm and Dairy.

PIGS GIVEN AWAY

Have you won any pure bred pigs the past year, for the securing of new subscriptions to FARM AND DAIRY? If not you can easily do so now. Read our offer below.

We will give a pure bred pig, of any of the standard breeds, from six to eight weeks old, with pedigree for registration, for only seven new subscriptions to FARM AND DAIRY at \$1 a year each.

Secure pure bred stock and weed out your old scrubs. Send for sample copies at once.

Circulation Department, FARM AND DAIRY, Peterboro, Ontario

Resessessessessesses

Cheese Department
Maker-are invited to send contributions to this department, to ask questions on matters relating to cheesemaking and to suggest amblects for discussion. Address lettered The Cheese Maker's Department.

******** W.O.D. A. Directors' Report

The Directors of the Western Ontario Dairymen's Association, report that throughout the entire work of the Association for the season just closed, progress may justly be claimed in all the different lines of work connected with dairying

The total exports of Canadian cheese The total exports of Camadian cheese from May 1st, to Dec. 30th, 1909, are reported as 1,216,667 boxes, an in-crease over 1908 of 41,339 boxes. The value of the cheese at the average price received during 1909 (115 cts.) would be about \$17,633,336. Butter.—The total exports of but-ter for the same period are reported av 39,505 neckares a decrease of 53.

as 39,505 packages, a decrease of 53,-11 packages. The value of this but-ter would be about \$508,025. This makes a total value of the cheese and butter exports of approximately \$18,-+1.361

A development of the season been some shipment of cream by Can-adian factories to the United States since the new American tariff was put into force. These shipments of cream have been variously estimated as Miss Morrison was within equal to 15 to 20 thousand packages of a point of winning it.

QUALITY MUST BE MAINTAINED.

We wish however to strongly point out that in our estimation never in the history of the Canadian cheese industry have we more reasons to put forth strenuous efforts to maintain and improve the quality of our cheese the future. Other countries are making rapid strides in the way of production and quality, and we must see that the quality of Canadian cheese stands second to none if we intend to maintain our superior po-sition as the foremost cheese export

WESTERN ONTARIO OUTPUT.
Coming to Western Outario we find that we produced in 1908, 17,211 tons of cheese, or about 459,227 boxes, which is 394 tons or 10,507 boxes WESTERN ONTARIO OUTPUT of cheese, or about 459,227 Loxes, which is 394 tons or 10,507 boxes more than in 1907. The exact returns for 1909 are not yet in, dications point to a larger make than in 1908, as we find that out of our 211 cheese factories, 64 will make more cheese, 59 about the same more cheese, 59 about the same amount, and 70 factories a little less than in 1908.

Butter.—Our creamery butter put in 1909, was ten tons greater than in 1908, so that we have no great cause for complaint in so far as the total output and the prices received in Western Ontario are concerned.

Splendid Dairy Exhibit

The remarkably fine exhibit of cheese and butter was an outstanding feature of the convention of the West-ern Ontario Dairymen's Association, held last week in St. Thomas. It was not only the largest exhibit but the quality was the best on record. The cheese and butter were shown in a

> Black Watch

> > Chewing Tobacco

The big black plug.

vacant store near the convention hall. It filled a tier of three shelves run-ning on both sides for the full length of the store. As the store was nicely lecorated the appearance of the whole of the store. exhibit was most attractive. The feature the most enjoyable connected with the convention. Could such an exhibit be held in connection with the feature the most enjoyable with the convention. Coul annual convention of the Eastern On-tario Dairymen's Association, it would prove an interesting and valuable

feature.

Mr. George Travis, the superintendent of the exhibit, and Mr. James Bristow, one of the judges of cheese, both agreed that the exhibit was the best ever made at a convention. "The cheese," said Mr. Bristow, are the next stylish in appearance and united the quality, as regards both flavor and texture are equally fine. The and texture are equally fine. cheese shown by Miss Mary Morrison, which won the buyers' challenge cup, as well as those shown by Mir. J. E. Stedelbauer, which won two firsts and the cup offered by the Imperial Bank for the highest average score for one September and one October cheese, either white or colored, were excep-tionally fine in texture and flavor."

Miss Morrison is the only cheese maker who has succeeded in winning the buyers' challenge cup twice the buyers' challenge cup twice Should she win it again, it will become her property permanently. Last year Miss Morrison was within a fraction

THE BUTTER EXHIBIT. "The exhibit of butter," said Mr.
T. W. Steinhoff, of Stratford, "was
the largest and the quality was the best I have ever seen at any of our conventions. This year is the first occasion on which I have been satis-fied with the exhibit of October

cheese. There among them. There was not a poor cheese

mnong them."
The prize winners were as follows:
PRIZE LIST:
SEPTEMBER WHITE CHEESE
1st-Mary Morrison, Newry, 96.66 points.
2nd-B. F. Howes, Atwood, 96.57 points.
5rd-J. E. Stedelbauer, Listowel, (prefrence for flavor), 96.49 points. 4th—C. J. Donnelly, Scottsville, 96.49

SEPTEMBER COLORED CHEESE 1st-Donald Menzies, Molesworth, 95.15 points. 2nd-A. M. Herries, Lakeview, 95.93

3rd-B. F. Howes, Atwood, 95.82 points 4th—Fred Cornell, Hawtrey, 95.65 points. OCTOBER WHITE CHEESE 1st—J. E. Stedelbauer, Listowel, 96.49

2nd-C. J. Donnelly, Scottsville, 96.41

es. —J. H. Williams, Embro, (preference flavor,) 96.33. h-R. A. T 4th-R. Thompson, Atwood, 95.33

OCTOBER COLORED CHEESE 1st-J. E. Stedelbauer, Listowel, 95.99 2nd-A. E. Shapland, White Oak, (pref-

2nd—A. E. Shapland. rence for flavor), 95.66 points. 3rd—W. A. Bell, Pine River, 55.66 points. 4th—C. M. Firby, Paynes' Mills, 55.65

points.
56 LB. BOX, WINTER CREAMERY
BUTTER
95 98 point 1st-J. A. Waddell, Kerwood, 95.98 points 2nd-A. G. Patterson, St. Thomas, 95.1

points. 3rd—R. A. Thompson, Atwood, 94.98 4th-T. J. Humphrey, Avonbank, 94.73

20 ONE LB. PRINTS, CREAMERY BUTTER 1st-R. A. Thompson, Atwood, 95.32 points. 2nd-E. M. Johnston, Innerlip, 9599

oints.
3rd-R. Johnston, Bright, 95 93 pcints
55 LB. BOX, OCTOBER CREAMERY
BUTTER

points

1st-Wm. Brown, St. George, 96 55 points 2nd-H. B. Lowe, New Dundee, 95.1 points. 3rd-J. A. Waddell, Kerwood, 95 93 -W. A. McKay, Scotsburn, N. S.

4th-W. A. McKay, Scotsburn, N. S., 95.23 points.

SPECIAL PRIZES

By the J. B. Ford Co., Wyandotte, Mich.,
a handsome gold watch, Elgin or Waltham movement, 20 years guarantee, val-

ue \$30, to the cheesemaker who is a reg-ular user of Wyandotte Dairymen's Clean-er and Cleanser, having the best finished and most stylish looking cheese on ex-hibition—J. T. Donnelly, Union. A handsome gold watch, Elgin or Wal-tham movement, 30 years' guarantee, val-ue 52, to the buttermaker who is a reg-lection of the company of the com-traction of the company of the com-traction of the company of the com-traction of the com-pany of the com-pany of the com-traction of the com-pany of the com-traction of the com-

Cleaner and Cleanser, having the neatest and most attractive exhibit of butter.—
R. A. Thompson, Atwood.
Sor. Ont. E. G. Henderson, panels, Windsor, Ont. E. G. Henderson, manager, 839 in cash to the buttermaker securing the highest score on butter exhibited in any class.—Wm. Brown, St. George.

850 in cash by the same firm to the

class.—Wm. mrown, st. teorge.

\$30 in each by the same firm to the
\$30 in cash by the same firm to the
\$30 in cash by the same firm to the
score on the event of the score of

Instruction in Western Ontario, 1909

Frank Herns, Chief Dairy Instructor and Sanitary Inspector, London, Ont.

The last year has been a profitable one, particularly for the patrons. We have received the past season high prices for cheese. The work of inprices for cheese. The work of in-struction was carried on along practically the same lines as a year ago. Six instructors were employed for cheese factories, and two for creamery work. Before beginning the w the season the instructors spent a

w days at the O. A. C., Guelph. We made in Western Ontario 390 tons more cheese in 1908 than in 1907, or a total of 17,221 tons. The returns for 1909 are not yet in.

QUALITY OF THE CHEESE. The quality was kept up and in many cases improved, particularly at factories where bitter or yeasty flavor formerly prevailed. During the hot weather some open cheese were reported but not so many as last year. We are endeavoring to overcome this defect so far as possible. A few complaints were made reserved.

Some buyers object to cheese with the some buyers object to cheese with the some buyers object to cheese with the some buyers. plaints were made regarding mould to cheese which are very mouldy. Where mould is prevalent I would suggest a thorough washing of the shelves, woodwork and floors of the curing room with a solu-tion of corrosive sublimate in the

ic. Quotations and shipping tag

JOHN HALLAM, TORONTO

NEEL To Be Fooled



Choosing the best cream separator is easy. The simplest is the best. No need to be fooled by claims that complicated machines are modern. Those who are misled by such are misled by such claims are not satisfied until they discard their complicated machines for simple, sanitary. Sharples Dairy Tubulars. Tubulars

probably replace more common separa tors every year than any one maker of such machines sells. Disks and other contraptions cause work and trouble and are ot needed in properly built separators

This is the Proof!

s are different. Tubular, if not all, others comes Best. The manufacture of Canada's leading in



Write for No. 253

43

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

proportion of one of corrosive sublimate to 1000 parts of water; -seven and one half grains to one pint of and one half grains to one pint of water—and then burn sulphur about once a week in the curing room with if possible considerable moisture present. This will very materially help to keep down the mould. The cheese from some individual factories (Continued on page 16)

urity Salt

is the best on the market. Why? RECAUSE

It makes richer and tastier butter.

It does not cake or harden, being in perfect crystal form.

It dissolves quickly. It works in evenly, needs less, and draws a larger margin of profit for the

dairyman. THE WESTERN SALT CO., LIMITED 'DEPT. A." MOORETOWN, ONTARIO



PERFECT STEEL CHEESE VAT

Our 1910 Steel Vat is going to be just a little better than ever before Can't improve much over last year Cao't improve much over last year twas a dandy. The tin llining in this year's vat will be 20 gauge—the heavlest ever used—4 gauge beavler than your local tinsmith write for new catalogue with prices reluced. It will interest you.

THE STEEL TROUGH AND MACHINE CO., Limited TWEED, ONT.

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





TRUE woman never frets about her status in society, nor her place in the world, but just glides into it by the gravitation of her nature, swinging there as easily as a star.



SOME NEIGHBORS

The Extravagantly Careful Martins

By Marion Hill

Just as one forgets to hear energy; somebody ought to worry over a clock which is ticking all the time, moving to pause and line time, moving to pause and line going, so one is very apt to is still going, so one is very apt to is instill going, so one is very apt to have in the proper average of worry.

Mrs. Trent spoke to Mrs. Martin new, is sometimes terribly remiss about detecting the untidy effect produced by articles out of place, providing the misplacement has been long lasting.

Now, the Martins really do not see the empty flowerpots which litter their otherwise trim little garden. They let toff seeing them about a year ago, seeing them so often, while we of the neighbourhood, bereft of the soothing apathy which by now lulls the Martins, are so nervously conscious of those empty, yellow eyesores that we cannot past he house Martin, Sho 44d are "queried Mrs. conscious of those empty, yellow eyes-sores that we cannot pass the house without experiencing a distress as if our temperatures had risen or fallen a few degrees wde of the normal. And surely our worry is not a waste of i and her placket together at the back

25 70

rest of us are inclined to consider the term synonymous with "poking into other people's business," especially when Mrs. Trent gets after us, but it

fact.
"Why, those garbage-y set-outs!"
pointing to the articles. If current
English failed to provide Mrs. Trent
with the proper words to "speak her
mind," she was always capable of a timely invention.
"Oh, those!" Mrs. Martin beamed

"Oh, those!" Mrs. Martin beamed at them fondly, as if she saw them but newly, which was practically so. "They may come in so useful at a pinch; it would be shockingly waste-ful to throw them away, my dear." "Haven't you had them there some two years?" demanded Mrs. Trent.

two years?" demanded Mrs. Trent. getting judiciary in tone.
"'Keep a thing for seven years," quoted Mrs. Martin, chuckling amiably and holding herself tighter, neck and gap, to stand the strain.
"Pool! Proverb wisdom is mightly poor stuff to steer by," sternly commented Mrs. Trent. "Every proverb you can give me I can contradict by another proverb!" "Wilful waste makes woful want." "Wilful waste makes woful want."

another proverb!"
"Wifful waste makes woful want,""
tendered Mrs. Martin cheerily.
"Save at the spigot and leak at
the bung!" fired Mrs. Trent holty.
"Mony a mickle make a muckle,"
murmured Mrs. Martin, losing heart,
but feeling that courtesy required her
to continue.

or continue.

"Spoil your ship for a penn'orth o'
tar!" boomed Mrs. Trent.

"Never put off till to-morrow what
ean be done to-day." observed Mrs.
Martin, with meek dignity, feeling that she had her opponent in a tight

'Haste makes waste!' " countered Mrs. Trent, with a general air of 'Come on, fellows.'"

"A soft answer turneth away wrath," ventured Mrs. Martin, feel-ing frightened and vaguely apologe-Won't you come in and sit down?"

with the other hand, ever does take offense easily,—has not the time, in indeed! Why, it cost me a dollar last fact.

Just because Mrs. Martin wears a badly-hung skirt and a dressing-sack, Just because Mrs. Matthr wears is hadly-hung skirt and a dressing-sack as alovenly and careless, the trath of the matter being that she is so tidy and careful that she is never fit to be seen. She likes to keep her skirts immaculate, and therefore, she seldom takes them down from the cupboard hooks; and when she once gets a drawerful of exquisitely laundered shirt-waists she would just as soon pull a tool. As put on the sack is always just a year behind the prevailing fashion when on the street never seems to worry Mrs. Martin in the least. Securely comfortable in the the least. Securely comfortable in the knowledge that her stylish new gown knowledge that her stylish new gown is safe on its hanger, she wears her last year's gown with a commendable sense of thrift; and it is elways well along towards winter before she gets on speaking terms—so to put it—with her spring outfit. They are an economical lot, the Martins.

Mr. Martin has the clipping habit.

Mr. Martin has the clipping habit, and the horde of newspapers he lays by from year to year would fill in a water-front. He says that it is a waste of the best brains of the country to destroy a newspaper, and that by exercising proper care in regard to a scrap-album one may become pos-sessed of a mine of information. Therefore he spends a small fortune Increase in Spenda a small fortune on gine, brushes, albums, shears, and bindings; yet, when all is said and done, his "mine of information" is neither as varied nor as get-atable, as it would be were he to invest in an encyclopedia. But once let the clipencyclopedia. But once les the chip-ping habit attack a man and it means disaster all around; he'll clip the wings from the dove of peace, give him half a chance. His desk resemhim half a chance. His dosk resembles a city dump; all his pockets are wadded out with printed matter; he overflows up to the attic, down to the basement, and out into the barn. He is always employing a carpenter to down?"

"Answer not a fool according to his folly," hurled the intrepid Mrs.
Tront. "No, thank you, Mrs. Martin.
I must be going. But mark my words.
—to save a possible expenditure of make him some boxes, put him up rive cents for a flower-pot, you'll be giving fifty pretty soon to have your garden cleared of truck. Good-by."

"Good-by." called Mrs. Martin after the retrecting figure. "What a hard-scaking creature she is' And she doesn't know as much as she thinks ways several centuries in arrears of



Women's Institute Convention at Guelph

The above illustration shows only one of the many interesting sessions held in Guapha at the recent Annual Convention of the Women's Institutes of Ontario. Note article in this issue by Mr., Putnam, Supt. of Women's Institutes in Ontario. If there is no Institute in your vicinity, way not form one at once! Full information regarding Ontario Institutes can be obtained by large to the Superintendent at the Parliament Buddings, Foreout

himself regarding the matter of classi- she wanted kindly comment for the many of the kings of the ancient Ishimself regarding the matter of classi-fication and selection. He has a heap of envelopes labeled: Art, Books, Crockery, Drumsticks, Eggs, Flamin-goes, Ghosts,—and so on, through the alphabet, and some day he hopes to get his clippings assorted into the trives, and the flaming on accessing on the eggs still. And when the Mar-tins move, you just ought to hear the tins move, you just ought to hear the movers! The number of names they can invent for Mr. Martin's fad is astonishing. Boxes of newspapers are

So heavy!
Good little Mrs. Martin says nothing, but thinks mighty little of the collecting habit when it is confined to newspaper scraps, but mention "rags" and she is promptly on the defensive. Martin's rag-bags take up every inch of space not occupied by news-papers. She has a trifling advantage over him, inasmuch as she can hang her plunder from nails in the ceiling. whereas he can't very well. The name of her bags is legion—and it ought to be Gehenna. They are sup-posed, though, to be a monument to her domestic thrift.

We never throw anything away, she says pleasantly, and looks as if

The Upward Look

Believe

All things whatsoever ye pray and ask for, believe that ye have received them and ye shall have them.—Mark 11. 24. R.V.

During the past few weeks an effort During the past few weeks an effort has been made to show that the greatest blessing any of us can receive is to be filled with God's Holy Spirit. "With God all things are possible." (Mark 10, 27). "I can do all things through Christ which strengtheneth me." (Phillippians 4, 13.) Once we have been baptized with God's Holy Spirit we will have power both to lead others to Christ and to gain all good things in this world that will be good things in this world that will be helpful to us. Just as God poured blessings on the ancient Israelites, when they did as he commanded when they did as he commanded them, so He will on us if we will do His will in all things and have faith. But He has commanded us to seek first the Kingdom of God and His righteousness. It is after we have done this that all these things shall be

added unto us. (Matt. 6, 33).

It has been shown that God is even more willing to give us His Holy Spirit than our earthly parents are to give us good gifts. (Luke 11, 13). That before God can give it to us, however, we must remove all sin, every sin, we must remove all sin, every sin, from our lives; we must hate sin and long after righteousness; we must confess Christ as our Saviour; we must be willing, if He asks us, to give up everything for Him; we must desire His glory above everything else; we must be sure that the motives which lead us to ask Him for His Holy Spirit are such as will be pleasing to Him, and we must ask Him for it definitely.

even after we have complied But, even after we have complied with all these conditions, there is still another step that we must take. Our text tells us what it is. We must be-lieve that God will keep His word and give us what we ask for. The reason that many earnest Christians lack the power in their lives for which they long is because they lack the faith that is necessary before it can be obtained.

John 5, 14, and 15, we are told that if we ask for anything ac-cording to God's will He heareth us. and that if we know that He heareth us, whatsoever we ask, we know that us, whatsoever we ask, we know that we have the petitions that we desire of Him. When we pray for the gift of God's Holy Spirit we know that we are praying for something that is according to His will. and that it is something that he is anxious to give us. We should then when our prayer has gone up, and the other conditions mentioned have been fully complied with, believe that we have God's Holy

Do not expect that there must nec bo one expect that there must necessarily be some great and sudden manifestation of God's power in your life. There will be a manifestation, and you will see it in good time, but do not be disappointed if it does not come at once. God wants you to have faith and to show it. He wants you to take Him at His word and to be-lieve that you actually have what you lieve that you actually have what you have asked for. Believe God's word before your own feelings. Once you have complied with all the conditions that have been mentioned God will do His part. He will baptize you with nower from on high, and you will be able to accomplish wonders, both in your own life and in the lives of others, in Histonian. God and the state of the condition of the control of the control

terrible admission! (Concluded next week.) realites. Sins against which we must be on our guard, will be described in next week's and succeeding issues.—

1. H. N.

Women's Institutes

Annual Address by Supt. G. A. Putnam, Toronto
We are pleased to be able to publish in this issue a part of the annual address of Mr. G. A. Putnam, Supt. of Women's Institute, for Ontario, which address was read at Guelph the annual convention last month. The remainder of Mr. Putnam's able and most interesting address will be published at a later date.

We should consider ourselves well repaid for the effort put forth and repaid for the effort put forth and the money expended even though we could look to results in only isolated sections of the Province. The ex-pressions of appreciation on the part of the members of the Women's In-stitutes in Manitoulin, the Soo and Thunder Bay districts upon the oc-casion of my visit to those districts last fall, more than repaid me for the efforts I have put forth in be-half of Institutes. When we find women driving 30 and 35 miles in order to get something to assist them women driving 30 and 35 miles in order to get something to assist them in making the local society a success, we cannot be conclude that there is an earnestness in this work which must result in universal benefit. We are pleased to report that the work has extended considerably throughout the past year, and the day is not far distant when the girls, and women throughout the whole Province will enjoy the advantage. will enjoy the advantages of a local Women's Institute.

Women's Institute.

There has been a general extension of the work in many of the old income and has been the source of a constant supridunce, 88 new branches having been castablished during the past year. We now have 620 branches which are doing active work and a few more which are carrying on the work in a more the family is accomplishing more—the family is accomplishing more—the family is accomplishing more—

or less indifferent manner, probably doing better than we know of, but astisfactory reports have not yet reached the Department. Four societes which had dropped the work for a time have re-organized and not more than 3 or 4 per cent. of the so-Four so cietes which were active a year have discontinued the work. Th have discontinued the work. This is a most creditable record. Our mem-bership last year was 13,841 and this year, beginning with June last, the records are considerably in excess of ny previous year at a corresponding ate, the membership thus far being 11,500.

The total attendance at Women's Institute meetings this year was 119, 363 within two or three thousand of the attendance at our regular and supplementary Farmers' Institute meetings. It is a close race now distween the two societies. Who will be ahead in the records for 1909-10?

BENEFITS THE WHOLE FAMILY We have evidence from the husband, the son, the daughter, and the neighbor, that the Institute has been an uplifting force in the life of the home and the community.

occi an uplitting force in the life of the home and the community. The husband notices that the mother performs her work in a more systematic manner with less labor, while before the model of the labor, while before the model of the labor, while before the model of the labor, while house during the winter, while the garden contains a judicious selection of vegetables and small fruits and a sprinkling of flowers. More attention is paid to the selection and care of the fowl, with the result that this part of the farming operations has produced an increased income and has been the source of a constant supply of fresh eggs and poultry for the farmer's table.



Mention Farm and Dairy when writing





There is hardly a farmer's daughter in Canada who does not know Windsor Salt.

It has been the universal standby for years.

Practically all the prize winners at the fairs have used Windsor Saltlast year, 95% of those winning cash, medals and premiums, made their prize butter with Windsor Salt.

If you have not been using Windsor Salt for butter making, get a sack and try it. You will then see why the prize butter makers use it.

Designs illustrated in this column will be furnished for 10 cents each. Readers desiring any special pattern will confer a favor by writing Household Editor, asking for same. They will be published as soon as possible after request is received. Beesessessessessessessessesses



430 Design for Braiding a Panel and Bodice Front.

Transfer patterns for a shirt panel and small bodice garniture are given. Sou-tache braid (silk, mohair and cotton) and rat-tail cord are appropriate.



401 Design for Embroidering a Blouse or Shirt Walst.
Patterns for stamping front, back, col-

Patterns for stamping front, back, collar and sleeves are given.
The flowers and leaves are designed to be perked in solid or sain stitch and the stems to be outlined. The ribbon effect may be done either in solid embroidery or outlined.

............

987 Design for Half-Inch Scallops.
Both scallops are suitable for edging,
rufflings, aprons, collars, cuffs and such
decorative objects as cushion covers, etc.
Five yards of scallops and five corners
are given with each pattern. The scallops are to be heavily padded and buttonholed closely.

Send us one new subscription and cure one of our new Musical Folios. They are well worth the trouble.

Embroidery Designs

Designs Illustrated in this column will be turnshed for locust each, will only a selected and properly prepared food and are appreciating the advantages of rural life under modern conditions.

The boy notices that mother has more time to read than formerly and that she has a definite purpose in her reading and study. Her atten-tion is directed to reports or bulletins tion is directed to reports or ouncums bearing directly upon her everyday responsibilities, or she is reading some aldies' journal, or it may be the most instructive and entertaining home magazine department in some other leading periodical. Much of what heading periodical. Much of what she reads applies to the topics which are to be taken up or have already been considered by the local Insti-

She talks to the boys and the girls and the father, about the topic which she is announced for at the next monthly meeting; and it may be that the other members of the family will have suggestions to offer in the preparation of her paper or address or refer mother to literature bearing upon the topic which she is studying.
The growing interest of each in the
work of the other members of the
family is apparent; and soon the
boy begins to ask father and mother what opportunities there are to gain knowledge which will be of assistance to him in the practical assistance to him in the practical everyday life of later years, and the reply comes "Take the short course at the Agricultural College or the two or four year course at that Institution," or it may be he is encouraged to take a course under the Representative of the Department of Agricultural Properties of Agricultu

(Continued next week.)

********* OUR HOME CLUB น้อยอออออออออออออออออออออ

"THE FARMER'S WIFE."

Some time ago I read a few replies to Roosevelt's enquiry concerning the surroundings of "The Farmer's Wife," and turned away in disgust at the picture some of these wives gave of their environment. It seemed to me then and even now, were those women placed in the position of bankwomen placed in the position of bank-ers', doctors', or even ministers' wives, their cry would be the same. There are some people in this world who think their lot the very worst under the sun. They like to complain about it, not to secure sympathy but just for the sake of talking.

In our fair Canada, it is difficult to picture such depths of despair. It is also difficult to connect it with the lives of our farming sisters across the border. I have been fortunate enough to have entertained a farmer's wife from Michigan and judging from her remarks the farmer's wife has a happy life. A few weeks after leaving me received a paper, giving an account f an 8.30 breakfast given by herself and husband to a few of their many town friends. The breakfast seemed quite an ordinary but pleasant way to entertain in Michigan on farm

The article published in Farm and airy "The Tragedy of the Farmers" The article Tagedy of the Farmers Wife," seems to me the poor work of an imaginative mind. The author seems to weaken near the end, and draws a dim picture of what a wife should expect and demand. It seems the writer sent out to discover draws a dim picture of want a write should expect and demand. It seems to me the writer sent out to discover the conditions of the farmer's wife, knew, or at least thought he knew what was expected of him and wrote accordingly. The base insimutions thrown in between the lines make we Canadian farm wives fairly boil. True we have our work. Work makes us we have our work. Work makes us men and women. We have our diffi-culties, difficulties broaden our minds and hearts, but we have what few of our dear town sisters cannot claim to

have, a full share of our husbands' He is his own manager, and can, and ninety-nine times out of a hundred, does help his wife in many ways and ways which would open the eyes of the author of the "Tragedy" and

of the author of the "Tragedy" and set him thinking some. I am very sorry that the story was so misleading to those who know little of Canadian farm life, but pleased to know it did not picture life on our dear old Canadian farms.—"Mother."

"SISTER'S" VIEWS.

One is more likely to be amused than concerned by the article from the "Delineator," depicting a typi-cal (?) farmer's wife, which appeared in Farm and Dairy Household De-partment, Dec. 9th.

There is no doubt that manydeed, most—farmers' wives lead ex-tremely busy, and often monotonous, lives. Nevertheless, we do not often see one resembling the abnormal besee one resembling the abnormal being, "without an ounce of flesh on
her stooped and wiry frame," who
(instead of joining a travelling circus,
as one would naturally expect) performs irksome household duties from 4
a.m. to 10 p.m., 365 days in the year,
"in the midst of doors from decaying
i'm the midst of doors from decaying
in the reves hanging on the words" of
in her eves hanging on the words" of in her eyes hanging on the words" of the inevitable machine agent (who as usual stays for dinner), nor is it characteristic of the type of farmer's wife we have met, to dispense with the services of a servant girl, on the grounds that the affections-save the mark !-

of her husband might be alienated. THE "SON" SPEAKS AGAIN.

Readers of the Home Club Department were recently treated to a dis-sertation on the question of the girls sharing equally with the boys when it came to dividing up the farm, and any other real and personal property of an estate. This is a debatable pro-blem and naturally the views of "The Son" would in any event be consid-Son" would in any event be considered one sided. But while on the question of equal rights, let us dig up up another point which for the most

part is altogether overlooked.

How is it that the poorest room in the house is usually allotted to, and is thought to be good enough for the boys. Are the boys not capable of appreciating a good room, as well as their more favored sisters? It must their more favored sisters? It must be admitted that they are. The crude quarters, with their lack of those things that would interest any human heing, so commonly provided for the boys, is responsible for their general ack of tidiness their uncouth nature, their discontent with home, and their ever increasing unwillingness to stay with the farm. Is it any wonder that the city looks so attractive to many of our farm boys? —"The Son."

. .

Renew your subscription and send for one of our Musical Folios. They are sure to please you.

FREE TRIP TO EUROPE

Seen from our new premium, a set of 50 beautifully illustrated post cards, describing every country in Europe. Better than ever. Surpasses our Trip Around the World. Free for One New Subscription. No renewals for this set. Supply limited. Send New Subscription at once.

FARM AND DAIRY PETERBORO, ONT.

Messessessessessessesses

The Sewing Room

Patterns 10 each, Order by number and size, if for children, give age; for adults, give buts measure for white, and wist measure for extra. I have been consistent of the pattern between the control of the pattern between the pattern between

GIRL'S DRESS 6547



Girl's dresses made in jersey style are becoming and well

The dress consists The dress consists of the jersey portion and the skirt. The jersey portion is cut in tabs at the lower edge which are faced and turned over to form the triming. The skirt is straight and plaited.

Material required for medium size is 5½ yds 24 or 27, 4½ yds 32 or 3½ yds 44 in wide with ¼ yd of ali over lace, ½ yd of siik for piping and

of slik for piping and trimming.
The pattern is cut for girls of 6, 8, 19 and 12 yrs of age and will be mailed on receipt of 10 cts.

PLAITED PRINCESS GOWN 6536



The princess gown with plaits in the skirt portion to provide flare and fullness is one of the prettiest and preceded the prettiest and preceded the preceden the precedent the prece most This one includes novel

includes novel and attractive sleeves, and a chemisette. The dress is made in sections that ex-tend to the shoulders and there are exten-sions below the sions below the stitchings which are folded under to form plaits. The closing is made invisibly at the back.

Material required for medium size is 18 yds 21, 24 or 27, 8%

yds 21, 24 or 27, 8% yds 44 in wile, with 1% yds for chemisette. The pattern is cut

for a 34, 36, 38, 40 and 42 in bust and receipt of 10 cts.

EIGHT GORED SKIRT 6544



The skirt that is made in sections, or to give a panel ef-fect, is exceedingly smart, and is c stantly growing

favor. The skirt is made in in eight gores and each alternate gore is made in two sections, the lower be-ing plaited and joined to the upper, which is shaped at its lower edge. The closing is made be-neath the box plait at the back.

at the back.

Material required for medium size is 8½ yds 24 or 27, 5 yds 44 or 52 in wide.

The pattern is cut for a 22, 24, 26, 28, 30 and 32 in waist, and will be mailed to any address on receipt of 10 cts.

FANCY YOKE NIGHT GOWN 6546



The simple night made gown made with square yoke is al-ways desirable, and this model suits all the materials that are used for under-

Material required for medium size is 7% yds 27, 5 yds 36 or 4% yds 44 in wide 1% yds of banding, and 2% yds of edg-

The pattern is cut for a 34, 36, 38, 40 42 and 44 in bust and

any address on will be

contend with is off flavors. Very few acidy cheese were reported. During

Instruction in Western Ontario

(Continued from page 12)

milk to the cheese factories during floop. This is 690 patrons more than were reported as going off flavor with age, due no doubt to several causes.

age, due no doubt to several causes.

In average per cent. (In 1998 it fart three months. The greater loss from later on.

In average not believe that one of the greater defects we still have to contend with is off flavors. Very few long and per cent.; August, 3.48 per cent.

Contend with is off flavors. Very few long are continued with is off flavors. Very few long and per cent.; October, add yet long are continued with soft flavors. Very few long and per cent. (October, and yet long are continued with soft flavors. Very few long and yet long are continued with soft flavors. Very few long and yet long are continued with soft flavors. Very few long and yet long are continued with soft flavors. Very few long are continued with soft flavors very flavors.

The pasteurization of whey has got the continued with soft flavors. Very few long are continued with soft flavors very flavors. Very flavors was 3.5 per cent. (In 1998 it were goes of fat in the whey for the deverge loss of fat in the whey for the average loss of fat in the whey for the deverge loss of fat in the whey fo per cent.

acidy cheese were reported. During 1.59 per cent. The average loss of fat in the whey beyond the experimental stage; it cheese were noticed due to over ripe and tainted milk and in a few cases and tainted milk and in a few cases 1.008 it was 2.39 per cent.) For May, berly done excellent results where contributed to the cheese is improving and less complaint was heard this year in the matter of boxing.

There were 16.586 patrons who sent lept cent. It will be noticed that the cost of pasteurizing whey, the The pasteurization of whey has got

tario made butter from whey the past

Considerable work was done by the Instructors relating to the efficiency and strength of the different brands of rennet extract in use during the past year. The results of this work will probably be made known later

on.

WHEY TANKS.

Our whey tanks are in much better shape this year, many new ones having been put in particularly elevated tanks, which have replaced the old worn out ground tanks. The few steel tanks in use are giving the of satisfaction, are easily kept clean, and give every evidence of lasting for years. Cement tanks are not in the majority of cases giving good satisfac-tion, and I do not think it advisable to put in these tanks, as the whey seems to dissolve the cement face, and as soon as the rough sur-face is exposed all kinds of trouble begins. There are however some whey tanks not kept clean. This is to be regretted for there is no doubt that tanks not kept clean. unclean whey tanks have a detrimen-tal effect on the flavor of the cheese. We trust that next season a special effort will be put forth to keep these tanks in good condition.

SANITATION AND IMPROVEMENTS.

A sum of \$30,448 was spent this A sum or cootyse was a year by the factorymen in putting their plants and equipment in better condition; eight new factories were built at a cost of about \$18,200, making a total of \$49,748 spent on our factories this year, 61 of which are concernative factories, the state of the second properties of the second properti oint stock or co-operative factories, and 144 owned by private individuals. The sanitary conditions of our are steadily improving as fast as the owners can afford to spend money for these improvements. Most factories now have Many are attending to the drainage Many are attending to the drainage and general surroundings. Some, however, are not in as good condition nor kept as clean and tidy as they should be. They lack that system in the daily work and the neat appear-ance that makes the patron, the mak-er, and everyone else proud of the factory. Some factories will need factory. Some factories with a considerable repair in the matter of floors, equipment, and several other ways before opening up next season.

MEETINGS. District meetings were held during November and December in the differ-ent groups where many points of interest to the industry were discussed. Some of these meetings were well at-tended; others were not. Since Jan. tended; others were not. Since Jan. lst, 1909, to Oct. 31st, 1909, 145 annual and district meetings were attended by the instructors or myself, with a total attendance of 10,087. The with a total attendance of 10,057. The 16 district meetings held during the month of February attended by Mr. Geo. H. Barr, who gave his illustrated address on the care of milk, and Mr. Jos. Burgess, who spoke on cow testing associations, were very well attended, and did a great deal of

There are 205 cheese factories the six the six groups, five more than last year, with six outside factories, makyear, with six outside factories, making a total of 211 cheese factories. There were 602 full day visits, 565 call visits, making a total of 1,173 total visits to the factories. There were 934 curd tests made, and 522 of these samples were tainted; 310 patrons were visited; 2,441 new milk cans bought; 35,494 lactometer tests were made; 101 sections. 500gm; 35,434 natometer tests were made; 1,101 Babcock tests were made other than for adulteration; 1,176 Babcock tests were made other than for adulteration; 636 Babcock tests were made for loss of fat in the whey; 23 factories are paying by the test—the same numter as last year.

They Pass the British Government's Acid Test for Galvanizing

Do you know that PRESTON Safe-ock Shingles are the ONLY kind you can buy that are made according to Brit-ish Government Specifications for Galvan-Ized Sheet Metal?

The British Government is the most particular buyer in the world. The sheet metal it buys for public works must be made and galvanized far better than or dinary sheet metal.

Each sheet must be carefully sheared to exact dimensions, thoroughly cleaned, and afterwards galvanized with best Virgin Spetter, which must consist of not less than 98 per cent, pure zinc-Extract from British Government Specifications,

Each steel sheet is cut to the exact size of a PRESTON Shingle before it is galvanized with 98 per cent, pure zinc. In this way even the edges are thoroughly

The sheets must be heavily and uniformly coated with zinc .- Ex. from B. G. S.

Ordinary galvanized sheets are not Ordinary garvanized success and success are success an Government Specifications. To secure a thin coating the spelter is heated to a very high temperature. When the steel sheets are dipped into it only a small portion adheres to the surface.

Your eye cannot tell a thinly coated sheet from one heavily coated. That is why there are such a lot of cheap steel sheets on the market. They are considered good enough for ordinary shingles. But they couldn't pass the rigid specifications required of the steel sheets we use for PRESTON Shingles.

The steel sheets for PRESTON Safe-Lock Shingles are dipped into spelter kept at a lower and correct temperature. The thus become very heavily coated And, the coating is made perfectly smooth and even.

The sheets must stand bending without cracking the galvanizing .- Ex. from B

Unless the steel sheets for PRESTON Shingles were of perfect quality and galvanized according to British Government Specifications not only would the galvanizing crack, but the metal also, where top lock is folded to produce three thicknesses of metal. Look at a PRES-TON Safe-Lock Shingle and you'll find the steel and the galvanizing perfect at our top lock as well as everywhere else on the shingle.

THE ACID TEST The galvanizing must be

able to stand the test of dibbing the sheet into a solution of sulphate of copper at a temperature of 60 degrees Fahrenheit, allowing it to remain in the solution for the space of one minute, and then withdrawing it and wiping it clean. The galvanizing must allow of this being done FOUR times without



showing signs of a reddish deposit of Copper. - Ext. from B

The reddish deposit shows up the thinly galgalvanized sheets, treated thickly spotted with reddish deposits. Yet you are asked to pay the same prices for shingles that cannot pass this test as you are for PRESTON shingles, which will easily do so.

This Acid Test is more severe on the advanizing than twenty years or can-adian weather. You see, sheet steel gal-vanized according to British Government Specifications is galvanized to last. PRES-TON Shingles are good for twice the service of ordinary galvanized shingles.

The construction of PRESTON Safe-Lock Shingles is far ahead of all others.

Other shingles merely slip or slide together at the sides and are easily pulled apart. PRESTON Shingles are securely locked together at the sides on the principle of the "sailor's grip." The heavier the strain, the firmer the grip. You cannot pull them apart

The top lock of PRESTON Shingles is TWICE as strong as our wonderfully secure side lock.

The top of the shingle is where the strain falls. PRESTON Safe-Lock Shingles have a top lock consisting three thicknesses of sheet steel, so that they can easily withstand the strain due to shrinking of sheeting or settling of building

No other shingles can have such a top lock, because this feature is patented by us. The top lock of most shingles isn't as strong as the side lock of ours.

Lightning causes the loss of thousands of dollars each year to Canadian farmers. every PRESTON roof you get a FREE Lightning Guarantee which secures you against this terrible destroyer.

You do not get a Free Lightning Guarantee with other shingles. Neither do you get shingles safe-locked on all four sides. Nor shingles with the nailing fully protected against the weather. Nor shingles made according to British Government Specifications. Nor shingles so easy to lay.

We have just issued a new booklet "Truth About Roofing." We should charge something for this, as it con-tains information of real value to anyone who has a building to roof. But we will send it FREE as a reward to all who cut out, fill in and mail the coupon to us. Just you send it to-day

METAL SHINGLE AND SIDING CO., LIMITED

Head Office, Dover Street Factory. PRESTON, ONT. Branch Office and Factory, Montreal, Que.

R	ase send me your new booklet, "Truth About cofing." I am interested in roofing and would
// \	like complete information about PRESTON Shingles.
\	ouingles.
Name!	
0 411	
O.Addr	ess
ounty	Prott

************************* **OUR FARMERS' CLUB**

Contributions Invited.

PRINCE EDWARD ISLAND

KING'S CO., P .E. I. CARDIGAN BRIDGE. - Far CARDIGAN BRIDGE. Farmers are not doing much work at present except attending to stock. The stock is wintering well. Heavy snow falls and drifts have blocked the roads up badly, the trains having been stalled for a couple of days in the past two weeks. The winter steamfairly well on the Charlotteown-Pietou route. But, to have uninterrupted connection with the maintain during the wight we need a tunnel and will have it yell the property of the Farmers for our soil. Dressed beer is cheap, selling at 4½c to 6c a lb. by the carcass; hides, 9c to 10c a lb. Pork is bringing from 9½c to 10½c a lb. by the carcass, or more properly speaking dressed.—H. W. P.

QUEBEC

MISSISQUOI CO., QUE, FRELIGHSBURG.—Good roads and fine weather made the holiday season pleasant weather made the holiday season pleasant and a considerable amount of visiting was done at that time. Winter work is progressing as the weather has been mild, except for a few days when the meroury fell some degrees below zero, and there is sufficient snow to provide good orods for lumbering and faw wt, and the traction for lumbering and farm work. Hens are not laying very freely yet and the price of eggs keeps high, local prices be-ing from 36 to 46c a dox. The hog mar-ket is firm and supplies small with prices at \$0.0 845. a cet. alive, and 17 from 5 to 56 for front and 6c to 7c a 1h for hind quarters. Butter is selling at around 25c for creamery. Quite a num-ber of farmers are selling their milk to a condensed milk company across the at their door. A considerable quantity at receiving \$1.70 a cwt. for the milk at their door. A considerable quantity of hay has been brought in here already at from \$4 to \$4.50 a ton for \$0. Bran has been selling at \$22; shorts at \$24 to \$55, and oil cake meal at \$37 a ton. C. A. W.

ONTARIO

ONTARIO
ONTARIO
PRITERBORO CO., ONT.
Iumbering going on this winter and as a result butter and beef are very high in price. Eggs are quoted are repeated by the control of The farmers of Peterboro County are to

mild with an occasional cold snap—C.E.D.
The farmers of Peterboro County are to
be congratulated on the fact of having
located in their midst a branch office of
located in their midstance of located in having a three days' stock and seed judging
course which is to be held in Peterboro
January 34, 55 and 26, 8bort courses of a
located of located in their midstance of located in seed to located
or of located in their midstances has over taxed the accommodation provided. Mr. H. C. Duf,
located in the located in

forth in our bebalf.

WELLINGTON CO., ONT
MUUNT FOREST. — Parmer' Institute
meetings are now engaring our attention.
Very successful meetings have been held
in East Wellington. Judging demonstrations in draught horses proved to be
very interesting and profitable and attracted much attention. Mr. L. E. Annis of Searbor gave very able addresses
on the draft horse. The Women's Institute is flourishing here. There is now a
branch at each both the first head of the services
in the department of the services of the services.

Manual Manual Manual Manual Manual Manual Manual
Manual Manual Manual Manual Manual
Manual Manual Manual Manual
Manual Manual Manual Manual
Manual Manual Manual
Manual Manual Manual
Manual Manual
Manual Manual
Manual Manual
Manual Manual
Manual Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual
Manual

MIDDLESEX CO., ONT.

LITTLEWOOD.—May are inquiring about cows. During late years the cow question is nearly always a live one, and at all sales they go with a vim. The farmers are making good use of the snow to do are maxing good use of the snow to do much teaming. Some are drawing logs, others gravel; others again are storing ice, which is now about 15 inches thick, and of a No. 1 quality. This will be used next summer for cooling their milk.— J. E. O.

ELGIN CO., ONT.

SHEDDEN.—This is a good farming dis-trict, splendid land for hay and grass. The farmers are wintering large herds of eattle, but are not fattening as many as usual; the grain is too scarce for that. "Our only grain crop was wheat, and it "Our only grain crop was wheat, and it was extra good in everyway, and is worth \$1.55 at present," said a resident to the writer. More own are kept since the resident to the writer. More own are kept since the tion last spring. The farmers have found this a great benefit to them, and are going more and more into the production of milk. The factory is now making butter: some of the milk is separated at home, and those who have no separator the skim milk for use at home.—J. E. O. HURON CO. ONL.

GODERICH.— Although the crops were only average ones during the year just closed, the stockman selling his finished closed, the stockman selling his finished closed, the stockman selling his finished and the stockman selling his finished degree of satisfaction on the returns and progress made during the year. Good prices have been obtained for all classes of the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the stockman selling at from \$200 to \$300, finished bulled the selling at \$200 to \$300, finished bulled the sel

HURON CO., ONT.

BRUCE CO., ONT.

BRUCE CO, ONT.

HEPWORTH.— So far we have had a very fine winter for those that are taking out logs and wood. The sawmills had more logs in on the first of the year than they have had for a number of years at the same date. All kinds of logs are in good demand but wood is very flat. Fat cattle are getting save and high in price. Very few are feeding any this winter as hay and grain around here. We farmers do not know the value of them as yet—J. K. L.

MUSSORA DISPECT. ONT.

MUSKOKA DISTRICT, ONT.

MUSKOKA DISTRICT, ONT.

GRAVENIURST.—Winter has been very fine so far; not enough frost for bush work. Cattle are wintering well. Feed is a bush; flour, 275 to \$3.25 a cwt.; chop, mixed, \$1.60, bran, \$1.40; butter, 26 a b; eggs, 35c a doz.; beef, per carcass, \$7 to \$8.50 a cwt. a bto of farm teams are drawing supplies to the latency of the per carcass, \$8.50 a cwt. a bto of farm teams are drawing supplies to the latency of the per carcass.

ALGOMA DISTRICT, ONT.

LIVINGSTONIC CREEK--We had a very late fall. Some plowing was done as late as Dec. 8th, and it has been snowing nearly every day since. We have had some very cold weather. It is a hard winter on a good many farmers, as feed has been very searce. A good many have had to buy hay at \$50 and straw at \$10 has been very searce. As good many have had to buy hay at \$50 and straw at \$10 high layer. On the property of the propert ALGOMA DISTRICT., ONT.

MANITOBA MARQUETTE CO., MAN.

MARQUETTE CO., MAN.
KKLLOB. — Genutine Manitoba winter
weather has been with us for a month.
New Year's week was very rold, the thermometer recording on one morning as
low as —4 deg. Cream from this district
is shipped to the Shoal Lake creamery.
The price last month was See a lb. for
butter fat. Distemper has been very common among the horses. It seems to be
mor among the horses. It seems to be
have died. The water question in Manitoba is getting to be a problem, and many
have been hauling water in tanks all
winter for their cattle. If any one should
wish to see snow, they should take a
jaunt up this way. It is about \$f. theger
jaunt up this way. It is about \$f. theger
ment are coing to take over the elevators.—L. J. N.

LIVE HOGS

We are buyers each week of Live Hogs at market prices. 9 For delivery at our Packing House in Peterborough, we will pay equal to Toronto market prices. If you cannot deliver to our Packing House, kindly write us and we will instruct our buyer at your nearest railroad station, to call on you.

THIS WEEK'S PRICES FOR HOGS DELIVERED AT FACTORY

\$8.60 a Cwt.

THE GEO. MATTHEWS CO., LIMITED

PETERBOROUGH. HULL. -BRANTFORD

Ask your Dealer LIST Price

\$6.00

FAVORITE RIFLE A beautiful example of careful accurate workmanship

The Only Boys' Rifle Used by MEN Pavorite barrels are rifled more accurately than many rifles selling as high 600. For this one reason alone more Stevens' Favorites are sold than any other odel in this country. This is because Stevens' careful, accurate rifling combination of the country of the country of the country of the country of the country. This is because Stevens' careful, accurate rifling combinations of the country of the country

Practice NOW & Exterminate Farm Pests in the Spring

Points for the Sharpshooter & Hunter

If you want expert information on Sharpshooting, Hunting or Trap Shooting, write us a postal telling which subject interests you the most.

By return mail comes our letter giving you this valuable in formation besides the big Stevens' Gun Book—259 illustrations and 150 pages about Riffes, Shotguns, Pistois and Riffe Tele scopes. Write to-day.

J. STEVENS ARMS & TOOL COMPANY, DEPT. 561, CHICOPEE FALLS Makers of Rifles, Shotguns, Pistols & Rifle Telescope having an accuracy unparalleled in the world

RIGHT NEXT SPRING

USE THE HAMILTON



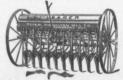
Elastic Cultivator

The easiest working, most satisfactory and successful Cultivator

Leader Drill

The strongest and lightest Drill built, an accurate sower and good crop getter. Hoe or Disc.

See Nearest Agent



THE PETER HAMILTON CO., Limited PETERBOROUGH, ONT.

able to mention the name of this publication when writing to advertise

MARKET REVIEW AND FORECAST

Toronto, January 17th. — Wonderful prosperity exists on all sides. The banks in their annual statements, show most encouraging figures. The only element to cause uneasiness is uncertainty as to the outcome of the English elections. Investors and monied interests are afraid to do anything till the result is definite on the trend of affairs. A certain measure of uneasiness is evident in some classes of stocks.

measure of uneasiness is evident in some classes of stocks.

Bond issues in Canada in 1909, amounted to no less than \$240,000,000, as against \$196,555,500 in 1908: 70 per cent. of this vast amount was invested by British capitalists. There seems to be every prospect of continued investments of British cap.

WHEAT

WHEAT

The market on this side of the water was slightly unsteady the latter part of a side of the water was slightly unsteady the latter part of the part of the

COARSE GRAINS

Canadian western oats, No. 2, are quoted here at 42c; No. 3, 4tc, on track; all rail, January shipment, No. 2, 46c; No. 3, 45c; No. 2, 56c to 37c outside: No. 3 white, Se to 39c, acording to quality, on track. On the farmers' market oats are quoted at 4cc a bush. In Montreal the market at 4tc a bush. In Montreal the market is firm and sales range from 4tc to 44/cc on track. No. 2 are quoted at 45c, and No. 3 from 4tc to 44 in store. On the local market barley is quoted as follows: No. 2, 58tc; No. 3, 50 to 55t; feed barley, 45c outsides: Manitoha barley, 5tc to 55c outrack, according to quality. On the farmer, and the sales of the feed of the fe

AVRSHIRE BULLS

Prom qualines recover to cover the cover of From qualified Record of Perform

W. W. BALLANTYNE, Stratford, Ont.

DISPERSION SALE-HOLSTEINS

We will sell by public auction at farm, 2% miles east of Tyrell, on WEDNESDAY, JANUARY 26,

Our herd of 17 grade Holstein cows and 10 spring calves. Winner of 3rd prize in dairy herd competition. Records of cows given at sale.

met at Villa Nova and Jarvis Trains me

Welby Almas, Auctioneer.

MASON BROS., Tyrell, Ont.

HILL CREST HOLSTEINS

HAV AND STRAW

Hay and straw are still commanding
the same good prices that have prevailed
for some weeks past. On the farmers'
market the price for good timothy hay
is \$17 to \$81. clover and mixed hay, \$9
to \$14: loose straw, \$8 to \$19: and straw
in bundles, \$17 a ton.

In Montreal prices are fully maintained, there being an excellent demand from
western houses. Timothy hay is quoted
at \$90 to \$18.0, according to quality; clover mixed at \$250 to \$10, and straw in
bales at \$5.0 to \$5.0, not track.

POTATOES AND BEANS

Potatoes still remain low in price, quo-tations being 45c to 50 a bag on track Toronto and 66c a bag out of store. On the farmers' market potatoes are quoted at 70c a bag. In Montreal the price seems even lower than in Toronto, one dealer having made a purchase at the rate of 50c a bag. Quebecs are quoted at 40c to 50c a bag; Ontarios at 50c a bag; Green Mountains at 62c. Beans remain stationary at former quo-

tations, viz., primes at \$1.00 to \$1.90 a bush. and hand picked at \$1.90. Three pound pickers in car lots have sold in The market there is nominal at \$1.90 to

EGGS AND POULTRY

EGGS AND POULINY
There has not been as great a drop in eggs as seemed likely last week, the steady cold weather having had a good deal in all probability to do with the smallness of the supply. The market is steady at 35c a dozen for new laid and 25c to 35c a dozen for mer laid and 25c to 35c a dozen for mer laid and 25c to 35c a for set laid and 35c to 35c a dozen for mer laid and 35c to 35c a dozen for mer laid and 35c to 35c for storage.

In Montreal the market is very light, se-lects selling for 28c to 29c in round lots, and 30c to 31c in jobbing way. There is a and 30c to 31c in joining way, here is a great demand for new laid but the supply is by no means adequate; prices for these range from 40c to 42c a dozen. Poultry are still at a high figure in Tor-

Poultry are still at a high figure in Tor-onto; wholesale quotations are as follows: Turkeys, dressed, 16c to 17c a bl; geese, 9c to 16c. On the farmers' market tur-keys are quoted at 20c to 21c; geese and fowl; 15c to 16c; chickens, 15c to 17c, and fowl at 9c to 10c a bl. In Montreal tur-keys are quoted at 20c to 21c; geese, 14c neys are quoted at so, to lie; goese, the of 15c; thucks, 17c to 18c; chickens, 15c to 16c; and fowl, 10c to 11c a lb. The receipts there continue to be very light and the demand heavy.

APPLES

Periodicals still continue to voice the complaints of English importers in regard complaints of English importers in regard to the disgraceful quality of many of the shipments, many of which, they say, have refuse heap. It is to be hoped that this sustained agitation will have the effect of rendering packers more careful in the en-suing season. English importers do not growl unless there is good causes for it. and much as one patriotism rebels at the and much as one patriotism rebels at the thought of condemning one's own countrymen, the fact remains that an evil in order to be remedied, must be exposed, so that the many may not be punished for the backlidings of the few.

The prices on the local farmers' market are unchanged from those current for the last few weeks, via., \$1.50 to \$4, and \$4.50 a barrel. Wholesale prototations also

are about the same.

In Montreal also about the same prices prevail as were current last week.

DAIRY PRODUCTS

Morwood, Ont. (Peterborough Co.)

From locky marked 10 Service Bulls for switch exceptions level replaced to the control of th

rn cheese is quoted at 11%c and west-

SEED PRICES

Seed prices are as follows: No. 1 alsike is quoted at 86.15 to 86.35; No. 2, 85.60 to 85.65; No. 3, 85.25 to 85.50 a bus. Red clover No. 1, 87.75 to 88.40, and timothy, 1st quality, at 81.40 to 81.60 a bus. PEEDS.

FEEDS, Bran is quoted as follows: \$22 in car lots on track; shorts, \$24, bags included in both cases. In Montreal the prices are \$21 to \$22 for Ontario bran and \$21 for Manitoba. Manitoba shorts are quot-ed at \$22 to \$25. HORSE MARKET There is very little local demand for horses, most of the demand, which is brisk, being for animals for outside points. Heavy draft horses rule at \$176. points. Heavy draft horses rule at \$17 to \$200; express horses, \$175 to \$200; driv ers, \$95 to \$140, and serviceably sound horses at \$20 to \$75.

LIVE STOCK

There is great activity in the cattle trade and excellent prices are being re-alized. On Thursday and Friday of last week there was a run of 142 cars at the trade and excellent prices are being realized. On Thursday and Priday of last week there was a run of 142 cars at the 8t. Lawrence market, which contained 1946 cattle, 1992 sheep and lambs, 1700 hogs the state of the state of

choice stockers, \$3.75 to \$4.59; light stockers, \$2 to \$3.25; canners, \$1.50 to \$2.59; milkers, \$45 to \$65 ; ordinary milkers, \$30 to \$40; springers, do; calves, \$5 to \$7.25; ewes, \$4.25 to \$4.75; lambs, \$6.50 to \$7.10; bucks, \$3 to \$3.50; hogs, fo.b., \$8.45; hogs, feed and watered, \$8.26;

MONTREAL HOG MARKET.

MONTREAL HOG MARKET.

Montreal, Saturday, Jan. 15th. — The
supply of live hogs on this market was
rather light this week, and as there was
a keen demand from all sources, prices
made freely this week at 89.25 to 89.50 a
cwt. for selected lots weighted off cars.
The demand for dressed hogs is very
good, and prices are firm at 813 to 813.25
a cwt for fresh killed abstoir stock.

PETERBORO HOG MARKET

PETERBORO HOG MARKET
Peterboro, Jan, 17. — Danish hogs de-livered in England last week totalled 28.

00. The demand for bacon in the Old
Country is only fair. Deliveries on the local market are very light. The George Matthews Co. quote the following prices for this week's shipments. Lob. country points. 840 å ewi. weighted off cars, 83.95 a ewt. delivered at abattoir, 83.06 a ewt.

EXPORT BUTTER AND CHEESE Montreal, Saturday, Jan. 15.—The im-proved demand for cheese noted last week has continued this week, and prices have been marked up all around about %c lb. over those current last week. Fines tient marked up all around about ye a control of the control of th

the ent of January.

The market for butter is steady with prices unchanged from last week. There is a good demand from the local trade, and also from outside points but the demand from the United States has stopped completely owing to the drop in the butter market across the line, where prices have receded about 3e a lb. during the post few days. The past few days the past few days the past few days the past few days. The past few days the

Warranted to Giv a Satisfaction Gombault's **Gaustic Balsam** Has Imitators But No Competitors. Safe, Speedy and Positive Sate, speedy and Postavo Curo ; Curb, Splint, Sweeny, Cappe Hock, Strained Tendons, Founder, Wind Fuffs, and all lameness from Spavin, Ringbone and other bony tumoris. Cures all skin diseases or Parasite, Thrush, Diphtheria. Removes all Bunches from Horses or Cattle. sumenes rrom Morses or Cattle.

As a Human Remedy for Rheumatism,
Sprains, Sore Throat, etc., it is invaisable.
Every bottle of Gaustle Balaam sold is
Warranted to give suite action. Price \$1,50
press, charges paid, with full directions for
its use. EF Send for descriptive circulars,
testimonias, etc. Address.

prints being quoted at γ_{ac} e a lb. more. October butter can be picked up in small quantities at about 25c a lb., with winter creamery quoted at 24c to 24 γ_{ac} 0.

The Lawrence-Williams Co., Toronto, Ont.

GOSSIP

The annual meeting of the Canadian Shire Horse Association will be held on Tuesday, Feb. ist, at 4 p.m., in Room G. King Edward Hotel, Toronto.

A branch of the Traders' Bank of Can-ada has just been established at the Union Stock Yards, Toronto, and will be open for business on market days. Drov-ers may exchange their cheques at this branch for safety cheques payable at their home towns.

Some exceptionally fine calendars and posters were recently received from the International Harvester Company of Chicago. Farm and Dairy readers withing to secure some of these, or copies of the interesting little book, "Glimpses of to secure some or these, or copies or interesting little book, "Glimpass of Thriftland," can secure same by writing to the nearest Canadian agency of the above company, and mentioning the paper when writing. See elsewhere is this issue for list of Canadian agencies. writing

The hulls offered by Mr. G. A. Brethen are sired by "Butter Boy Calamity Imp," son "De Kol 2nd's Butter Boy Std." one of the best sons of "De Kol 2nd." (Queen of the Breed).) His dam is by "Calamity Jane Paul." (greatest A. R. O. son of Calamity Jane, Famous Ontario Dairy Calamity Jane, Famous Ontario Dairy Test winner).) Their dams are good cows

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

OR SALE.—Up-to-date cheese factory plant in first-class condition. Capacity twenty cheese daily. or full particulars address Box 55. Farm and Dairy.

WANTED — CREAMERY — An experienced creamery man of good financial standing seeks information regarding a community that might prove a solution field for a creamery. Address, Bot 1 Farm and Dairy.

FOR SALE—Creamery for \$2500. Good building. increasing business. Good light opposition; money maker. West-ern Ontario. About 200 patrons. Don't write unless you want to buy. Box D, Farm & Dairy, Peterboro. Ont.

WANTED.—Sickness in the family having forced the writer to sell his farm, of which he had made a great success, he is open to accept a position as Farm Manager. Best of references. Box 25, Farm and Dairy, Peterboro, Ont.

AGENTS make big money selling "Vol-Peek" Granite Cement. Mends holes in Graniteware, Iron, Agato, Tinware, etc. Mends a hole in one minuts. Every housewife buys. Greatest seller on the market. Agents make over 20 per cent. profits.—M. Nagis, Westmount, Que.

\$532,992,100!!

That's the Value of Farm Products for Canada 1909 Isn't It Great?

Inst It Great?

OTTAWA, ONT—An increase of \$100-000000 in the value of Canadian crops is shown in the final estimates of the 1909 production just issued by the Dominion Census Department. An area of 30,005.500 acres of field crops has yielded a harvest which comp 583,000 final state of the 100 acres of the 100 acres of 100 acres

acres and \$121,884,000 in 1008.

Rye, peas, buckwheat, mixed grains and flax, grown on 1,487,311 acres have a value of \$80,707,000, as compared with 1,805,700.

The total value of wheat harvested in the Northwest provinces is \$121,000,000 and in the rest of the Dominion \$81,700,000 ac compared with \$72,480,000 and \$18,000 and \$18,000 last year.

or not we did our share toward making this showing possible.

We ought to stop and think of what has made the gains of former years possible. Me ought to stop the stop of the

sosz,m.z.,tu0-crop would be entirely out of the question.

And yet there is room for progress—the rules of 1090 farming are not the rules for 1910. New machines mean new advances and new wealth, Do you keep abreast—are you posted about these things?

you posted about these things?
About traction plowing—how to plow more acres, in less time, with less expense, for better, bigger returns:
How a good disk harrow will enable you to make better seed beds:

Why it's to your advantage to spread ma-nure the right way—as soon as you get it— instead of spreading it after half its value is gone.

instead of spreading it after nat its value is gone.

Why it will pay you to use seeding machines that put the seed into the soil so that the best germination is assured and big crops result every saving and money-making advantages of having a good, reliable, dependable gasoline engine on your place, what the right kind of a cream harvester means to you in increased milk and butter profission of the profit of the profi

stock: How to increase the vane or the 1800 hay crop by using the right mover, baler, etc.: How to know all about harden to be the control of the control of

any of the machines mentioned above. CANADIAN BRANCH HOUSES: Brandon, Calgary, Edmonton, Hamilton, London, Montreal, Ottawa, Kegina, Saakatoon, St. John, Winnipeg, Yorkton. yours for a still bigger showing in 1910

Prosperity— 300000 for short International Harvester company of America



with nicely shaped udders, and they are strong in the blood of Boutje--92/88 lbs. milk in one year: Belle Sarcastie--31/99 lbs. milk and 952 lbs. butter in same time: De Kol 2nd, Pietertja 5rd and other great cows of the breed. The Hillerest Farm is only one mile from station; train connec-tions are good for visitors from either youngit, answered promptly answered.

J. A. CASKEY'S DISPERSION SALE. J. A. CASKEY'S DISFERSION SALE.
An exceedingly choice lot of HolsteinFriesian cattle owned by Mr. J. A. Caskey
are to be sold by public acction at Madox,
et al. (1998) and the second second second second
eluding the great bull, Sara Jewel Hengerveld's son, whose dam and her mate
sold for 8,550, will be offered without reserve. Catalogues will be ready March
let. Further particulars will be published in these columns later.

HOLSTEIN-FRIESIAN NEWS

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

OFFICIAL RECORDS FOR DECEMBER.

Francy 3rd (6229) at 5 yrs. 2 months, and 15 days of age, 25.32 bs. butter fat, equi-valent to 26.05 bs. butter; 559.89 bs. milk Owned by D. C. Flatt & Son, Millgrove

elle Dewdrop (4083) at 8 yrs. 1 month 20 days of age, 20.25 lbs. butter fat, equivalent to 25.62 lbs. butter; 574.08 lbs. milk.
Thirty day record, 22.55 lbs. butter fat, equivalent to 95.34 lbs. butter; milk, 234.72 lbs. Owned by E. Laidlaw & Sons, Ayl-Ont.

mer Out.

Annie Wedo Mink Mercedes (4231) at 7 yrs. 6 months, 2 days of age, 159 lbs. butter fat, equivalent to 18,29 lbs. butter, 584 lbs. milk. Owned by T. H. Dent, Woodstock, Out. Colantha Queen De Kol (6819) at 7 yrs. 7 months and 9 days of age, 15.23 lbs. butter fat, equivalent to 18,50 lbs. butter; and De Owned by M. L. Baley.

ter fat, equivalent to 18,58 hbs. butter; 69,69 hbs. mills. Owned by M. L. Haley, Soringford, Ont. 1 lolena Albino Wayne, (6143) at 5 yrs. 6 disys of age, 14,56 hbs. butter fat, equivalled the state of the state o

Queen Butter Baroness (7652) at 3 yrs., 2 months, 16 days of age, 18.93 lbs. butter fat, equivalent to 22.08 lbs. butter; 424.4 lbs. milk. Owned by M. H. Haley, Spring-

ford, Ont.

Annie May Schulling (1992) at 3 yrs. 6
months, 29 days of age, 15.74 lbs. butter
fat, equivalent to 16.51 lbs. butter: 38.77
lbs. milk. Owned by Frank J. Griffin.
Burgeswille, On Butter (1977)
yrs. 7 months of age, 15.00 lbs. butter fat,
yrs. 7 months of age, 15.00 lbs. butter fat,
butter fat,
wilk. Owned by Thes. Davidson, Spring
Valley, Ont.

milk. Owned by Thos. Davidson, Spring Valley, Ont.
Jewei Mercena Mercedes (697) nt 3 yrs. 2 Jewei Mercena Mercedes (697) nt 3 yrs. 2 months and 2 days of age, 1257 lbs. butter, y72 ft 18s. milk. Owned by Frank J. Grif-fn, Burgeswille, Ont.
Olive Schulling Posch (6960) at 3 yrs. 3 months, 25 days of age, 1288 lbs. butter fat, eruivalent to 1437 lbs. butter; 33.4d lbs. milk. Owned by James Bettis, Nor-

Ont

Wich. Ont. Dairy De Kol Wayne (7277) at 3 yrs. 11 months and 16 days of age, 12 63 lbs. but-er ft, equivalent to 14.74 lbs. butter: 569 2 lbs milk. Owned by Walburn Rivers, Felden's. Ont.

(To be continued)

AVONDALE HOLSTEINS

Offers for sale high class Holsteins, all ages. Herd headed by Prince Hengerveld Pleiti, a son of Pietit Zia's Wooderest Lad—out of Princess Hengerveld, a daughter of Hengerveld De Kol with record of 25.54 lbs. butter at 23 months. We also offer some fine young Yorkshire pigs of choice breeding. ARTHUR C. HARDY, Brockville, Ont

MISCELLANEOUS

TAMWORTH AND BERKSHIRE SWINE Boars and sows for sale. J. W. Tod Corinth. Ont. Maple Leaf Stock Farm. Todd.

SUNNYSIDE STOCK FARM

Glanworth, Ont. Propri NITHSIDE FARM, Herd of Large Eng-ish Berkshires, Southdawn Sheep and Sil-sensity of the Company of the Company county boars fit for service; also as serviced ready to breed; also young pigs. A choive to of Silver-Gery Dorking Cockere 8, 8, 10, each. None but first class registered stock ent out. Satisfaction guaranteed.

E. E. MARTIN, Canning P.O., Paris Station, Oxford Co., Ont.

AYRSHIRES

AYRSHIRES

Ayrshires of the right stamp for production combined with good type and quality. Write for prices.

R. M. HOWDEN, St. Louis Station, Que

AYRSHIRES. - Record of Performance AVRSHIRES. — Record of Performance work a specialty; young bulls from E. of P. cows, and cows that will go on at next freshening. Milk reports of dams, for everything. JAMES BEGG, Box 88, St. Thomas

FOR SALE-AYRSHIRE BULLS

From one month to two years old; all bred from large, good-milking stock. Also Yorkshire pigs. Apply to

Manager, Proprieto o Riverside Farm, Montebello, Que.

"La Bois de la Roches" Stock Farm

Here are kept the choicest strains of AYRSHIRES, imported and home bred. YORKSHIRES of the best bacon types. WHITE ORPINGTON, WHITE WYANDOTTES and BARRED ROCK Poultry. HON. L. J. FORGET, J. A. BIBEAU, Proprietor Manager

Ste Anne de Bellevue, Que.

SPRINGHILL AYRSHIRES
Imported and home bred stock of a ages for sale. See our stock at the leading shows this fall. Write for prices. ROBT. HUNTER & SONS

Maxville, Ont. B-7-1-10 Long Distance Phone.

IMPORTED AYRSHIRES
Having just landed with 50 head of choice Ayrshires, mostly purchased at the choice Ayrshires, mostly purchased at the fill orders for herd heading bulls, selected from the best dairy herds in Southand, its famales of all ages. Cowe with milk records up to 70 hs. per day. Write and let me know your wants. Long distance bloss.

R. NESS, Howick, Que

STADACONA FARM Show Record for 1909

At Three Rivers, Quebe's Provincial Exhibition, at Sherbrooke, Canada's Great Eastern Show, at Ottawa, the Dominion's large Central Fat, at Barton, Vermont, under five different indees WON MORE FIRST PRIZES THAN ALL OTHER EXHIBITORS COMBINED.

Cattle of both sexes and all ages for sale at very reasonable prices. O.64-30

GUS. LANGELIER, Stadacona Farm, Cap Rouge, Que

CHERRY BANK STOCK FARM

POR SALE.—Bull calves, sired by North Granda. One bull calf two weeks old, sired by Morton Mains Queechy, Junior Champion at Toronto, 1968, and by Neth-strone and the Company of the Com

P. D. McARTHUR, North Georgetown,

HOLSTEINS

19

MAPLE LEAF STOCK FARM GORDON H. MANHARD

Manhard, Ontario Breeder of Choice Holstein-Friesian Cattle. At present I will sell 20 young cowe, due to freshen in the early part of the winte Also a few young bulls. E-11-3-10

FOR SALF, HOLSTEIN BULL CALF Born, Dec. 31. Dam's official record at three years old, 486 lbs. of milk and 21 lbs. of butter. Bull calf, born March 18th, dam Canadian Champion of her age; of-ficial record at two years, 434 lbs. of milk and 20 lbs. of butter.

DAVID CAUGHELL Yarmouth Centre.Ont

POR SALE. 2 Bull Calves, sired by Str. Aangle Beets Secis, son of King Segis, world a greatest 5 year old sire, dam Aary year old 29.5 lbs butter 7 days. Dam of calves a 20 lb. 2 year old, and 23 lb. 4 year old. Price reasonable considering year old.

P. J. SALLEY Lachine Rapids, Que E-10-6-10

LAKEVIEW HOLSTEINS

LAKEVIEW HOLSTEINS
Herd headed by Count Hengerveld be
Kol, aon of Pietertje Hengerveld's Count
De Kol, who has five daughters averaging
over 30 lbs, butter in 7 days, and whose
dam (53.0 lbs. in 7 days 1 has a daughter
with a record of over 35 lbs, butter in 7
days, Five bin salves, from 3 counts
of the salves, from 5 counts
of the salves, from 4 counts
days, Five bin salves, from 5 counts
of the salves from 5 co met by

E. F. OSLER, Bronte, Ont.

HOLSTEINS

SUNNYDALE OFFERS a choice of of young cows and heifers. Lowest prices; best breeding. Can furnish car load.

E-5-5-10 A. D. FOSTER Hallowell Sta., C.O.R.R. Bloomfield, Ont.



Head your Herd with a son of Sara Hengerveil Korndyke shose he had been hended he had been hended he had been he had been hended he had been he had be Paul, and a BROWN BROS, LYN, ONT.

HOME-BRED AND IMPORTED HOLSTEINS



H. E. GEORGE, CRAMPTON, ONT. Putnam Stn., 1/2 miles,—C.P.R... E-4-21-10

THE SUMMER HILL HEAD OF HOLSTEINS

Int summer in the new or networks a minimizer some wonderful Records of Lindbland and the summer of everything

ed bull.

Come and make your selection

ONCE. Prices are right and every
guaranteed just as represented.

Trains met at Hamilton if advised. D. C. FLATT & SON, Millgrove, Ont

Farm Phone, No. 2471 Hamilton

HOLSTEINS

WINNERS IN THE RING Gold Medal Herd at Ottawa Fair

and WINNERS AT THE PAIL

See Our A.R.O. Records Just the kind we all want. They combine CONFORMATION:

PRODUCTION Bull and Heifer Calves for Sale from

Our Winners "LES CHENAUX FARMS

Vaudreull, Que.

Dr. Harwood, Prop. D. Beden, Mg

40 Million Square Feet of Oshawa Shingles

Cover Canadian Roofs Today

A ROOFEl S square is 10 x 10 ft.—100 square feet. There are 400,000 such squares of Oshawa Steel Shingles in use to-day in

THEY KEEP ON SELLING BECAUSE THEY MAKE GOOD

Canada. Enough steel, that, to make a pathway a foot wide and 7,576 miles long. Almost

thrice the length of the C.P.R. tracks. Nearly enough to roof in a thousand acres of land! And the greater part of those Oshawa Shingles will be right on the job, good, weather-tight, rain-proof roofs, when your grandsons are old, old men. They are good for 100 years.

This is the One Roofing of It Pays Best to Buy

Figured by price-cost, "Oshawa" Guaranteed Steel Shingles are as cheap as the poorest wood shingles. Figured by service-cost -the length of time they will make even a passably good roofwood shingles cost Ten Times as much; slate costs six times as much; and the stuff they call "ready roofing" costs Thirty-Three Times as much! These are facts. They can be proved to you. Proved by figures; by the experience of hundreds of other people who doubted at first, just as you perhaps doubt. Proved, absolutely! You want that proof before you roof. Get it! Send for it to-day.

No Other Roofing Does This

Stays rain - and - snow - and wet-proof for fully a hundred years. Absolutely fireproofs the top of the building for a hundred years. Protects the building from lightning for a hundred years. Resists the hardest winds that blow for a hundred years. Keeps the building it covers cooler in summer, warmer in winter, for a hundred years. Gathers no moisture, and never sweats on the under side for a hundred years. Needs no painting, no patching, no care nor attention for a hundred years. WHAT MORE CAN YOU ASK OF A ROOF?



The picture above, on the right, shows the new Spanish pattern Oshawa Galvanized Steel Shingle (Guaranteed). That on left is the standard pattern.

Probably 1835 seems a long way off to you. By that time, I suppose, neroplanes will be as numerous in the skies as steamers are on the seas now. I don't believe the fall of an aeroplane upon it would harm a Pedlarized-roof.

Yet, when 1935 begins the guarantee that goes with every square foot of my shingles will still have twelve months to run.

You may not be around then. I may not be here. But this powerful Company I head will be doing business; and the price of putting a new roof on your building will still stand as a mortgage upon our assets. Understand me clearly:

If the Oshawa-shingled roof you put on this year fails— even on the last day of 1935— to make good to the letter the plain promises of our Guaran-tee, there's a new roof for nothing going on that building

Think that over for a min-ute. Think if it isn't a pretty clear evidence of merit in roofing.

That is what I call making

good with Oshawa shingles.
That is what you pay five
cents per year per square for.
Seems to be worth the money. G. A. Pedlar

It Will Pay You To Pedlarize All Your Buildings

"To Pedlarize" means to sheathe your whole home with handsome, lasting and beautiful steel—ceilings, side-walls, outside, roof. It means to protect yourself against cold; against fire; against much disease; against repair-Ask us and we will tell you the whole story. Just use a postcard and say: 'How about Pedlarizing my house?" State whether brick or frame. Write to-day.

A DVERTISING alone never sold that vast area of Pedlar Shingles, Smooth salesmanship never kept them selling; nor glib talk; nor

peting goods; nor gles, right here

THEY DO ALL WE cut price. Those SAY THEY WELL things do sell shin- AND MORE THO

in Canada's roofing trade. But Oshawa Shingles sell, and keep on selling, for a different reason. They make good. They keep out the wet, year after year, as we say they will. They protect buildings from fire and lightning, as we say they will. They make good.

This is the One Roofing That is Guaranteed

Some makers of 'metal shingles' (ever notice how careful they are to avoid saying steel?) point with pride to roofs of theirs 25 years in service. BUT THEY DON'T GUARANTEE their shingles for 25 years to come. You buy Oshawa Steel Shingles-the only kind that IS guaranteed-upon the plain English warranty that if the roof goes back on you in the next quarter-century you get a new roof for nothing. You can read the Guarantee before you decide. Send for it. See if it isn't as fair as your own lawyer would make it on your behalf. Isn't that square?

Book and Sample Shingle Free

Send for free book and free sample of the Oshawa Shingle itself. It will interest you to study it. You will see the actual construction. You will see that the Pedlar Improved Lock, on all four edges of the shingle, makes it certain that moisture never can get through any Oshawa-shingled roof. You will see how the Pedlar process of galvanizing drives the zinc right into the steel so it nevacan flake off. You will be in no doubt about which roofing after you have studied this shingle. Send for it and the book and

Guarantee. Send for them now.

HALIFAX

ST. JOHN, N.B.

1861 CHATHAM 200 King St. W.

ESTABLISHED

PORT ARTHUR 45 Cumberland St.

WINNIPEG

REGINA

VANCOUVER

VICTORIA MENTION THIS PAPER

SEND TO-DAY FOR SAMPLE AND "ROOFING RIGHT" BOOKLET No. 9. ADDRESS NEAREST PLACE.