

SOME REPRESENTATIVES OF A SIGNIFICANT AND WIDE SPREAD MOVEMENT IN ONTARIO That as farmers we are beginning to realize that the time has come when we must organize, in order that as a class we may assert ourselves, is evident in the Farmers' Club movement. Over 150 of these clubs have been organized during the past two years. The illustration shows the officers of one of the four Farmers' Clubs that have only recently been brought into being in Peterboro County. Reading from the right the men are H. C. Duff, B. S. A., Dis-trict Rep., Dept, of Agri.; Wm. Scott, Vice-Pres.; T. H. Graham, Pres.; C. E. Moore, Sec.-Treas. Back row-E. Scott, J. Archer, J. A. MacGregor, Directors.

DEVOTED TO BETTER FARMING AND SANADIAN GOUNTRY LIFE

FARM AND DAIRY

soon as possible, provided the farmers would give a guarantee to provide the necessary animals to keep the plant running. The announcement was made at the Convention of the United Farmers' Association at which up-wards of 100 delegates were present. At present the plants in existence in Alberta cannot get enough hogs to keep them running.

Satisfactory Showing for Grades Editor, Farm and Dairy,-Herewith I beg to hand you report of the herd of Messrs. Halliday Bros , Sandwick, B.C., for the year 1909. Name of Cow Fat

378.08

376.77

337.36 318.39

296.55277.89277.37

268.07

264.00

252.39

.231.60

222.94

197.39

4065 93

This is, I consider a most satisfac-tory showing for a herd of grade dairy cows, and is worth calling to the at-tenton of the farmers of this country. J. H. Grisdale, Agriculturist, C.E.F.,

Mining Scrip and Greenhorns

"Here is a yarn, vouched for by a stock broker, concerning the sale of worthless mining acrip to greenhorms in the country districts," says the Toronto Saturday Night. A man walked into the broker's offer. What als asked or the many be was asked if he had any Cohalt stock.

"What stock?" asked the broker. "What stock?" asked the broker. "Any of them that are cheap," re-plied the visitor; who went on to explain that what he desired was a

explain that what he desired was a lot of certificates, say one hundred thousand shares, averaging in value, say five cents per share, that he could take out into the country and sell over again to the "trubes." The broker stated that he was just

out of that class of securities and the stranger went his way.

Observations from Judging

Field Crops

"From my two years experience in judging in Standing Field Crop Com-petitions, it appears that there seems to be insufficient attention paid to the grading and selection of seed grain," said Mr. B. J. Waters, of bildness in addressing a modeling

grain," said Mr. B. J. Waters, of Coldstream in addressing a meeting of farmers at the recent Guelph Wint-

of farmers at the recent Gueiph Wint-er Fair. "Selecting the best seed from the granary for sowing is one stop in advance. But selecting the best heads of grain during the time the grain is still standing, is a still greater stride in advance and is a feature which should be practised

"The aim should be to select the best seed from only the best heads of grain. Average seeds as regards size

more than it is.

Crazy 179.42

Lbs. Milk

6598

6211

71091/

60001/2

65871

6240

5433

5465

4598

96796

6453

.51051

keep them running.

Acy..... Lop Ear

Bell

Kirsty

Skinny Sophie

Edna Blackie

Mary

Ottown

Ethel



GIVES SATISFACTION

You do not need to have the knowledge of an expert machinist to handle your cream separator satisfactorily IF YOU OWN A "SIMPLEX." The "Simplex" is constructed on simple lines throughout, and with the fewest possible number of parts. There is no complication of parts to be constantly getting out of order, and which requires an expert to locate and remedy the trouble. Parts which require to be taken out occasionally and cleaned are so constructed that they cannot possibly be put together wrongly. The gearing is as simple as it is possible to make it. There are only two pairs of gears, whereas other makes of machines contain three and even four pairs Each additional pair of gears means just so much extra friction, which makes the machine turn that much harder The higher speed at which other machines have to run also greatly increases the power necessary to drive them.

If you want an easy running machine, one which is strong and durable, which does not cause you constant trouble by some of the parts getting out of order, and which at the same time takes all the cream out of the milk and does it quickly too, the machine for you to buy is a "Simplex."

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WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS



selecting the best heads in the field, from which to obtain the seed.

"A very important phase of success-ful farming seemed to be lacking in the shape of following systematic ro-tations. In most cases I found no particular or definite rotation folparticular or definite rotation fol-lowed. Hoe crops seemed to be the exception rather than the rule. In sections where these conditions were most prevalent, the most luxuriant growth of noxious weeds existed. growth of noxious weeds existed. Without the hoe crop, the weeds get

growth of noxious weeds existed. Without the lose crop, the weeds get a splendid start. "Last year in the County of Wed-"Last year in the County of Wed-ing the splendid start." The splendid start is the splendid start ion there was only one having no sow thistle in it. One of the main difficulties is, that farmers don't re-cognize this pest until their farms we almost past redemption. "I would recommend the following rotation: In the spring when sawing the seed grain, seed with elorer and winter apply some manure. The fol-lowing summer after removal of the bay, pasture the sheep on it until fall and then plow. The following spring plant corn and roots on this area but don't plow again after the hoe crop has been harvested. Some will ask why?

"The answer is simply because by plowing you would bring to the sur-face, weed-seeds, which had been liv-ing in a dormant condition below the first few inches.

the first few inches. "After the hoe-crop your surface soil or seed bed is cleaned. Why then, plow and bring to the surface, weed seeds, which will grow and damage the crops. By so doing you would be defeating the very object you had in view the season before—destruction of weeds."—R.B.C.

Cows above the Average

Whe

The patrons of the Acme cheese factory, near Trenton, must have an un-usually fine class of cows, judging from the fact that the average amcunt of milk per cow sent to the factory during the season was 4,030 lbs. The cows of one patron averaged 5,990 lbs.

In view of the fact that the average In view of the fact that the average production per cow for all the factor-ies in eastern Ontario last year, as shown by the annual report of Chief Dairy Instructor, G. G. Publow is considerably less than 3,000 Dbs, it will be seen that the cows owned by the patrons of the Acme factory must be above the average in quality

Items of Interest

The annual meeting of the Canadian Jersey Cattle Club has been postponed to Thursday, Feb. 3rd, at 10 a.m., Board Room of St. Ry. Co., Toronto. —R. Reid, Sec., Berlin, Ont.

The people of this country cannot fford to allow the manufacture of whey butter, permanently. It is put-ting a premium on carelessness.— Chief Dairy Instructor, G. G. Pub-It is putlow, Kingston, Ont

Honorable Marshall, Minister of Ag-United Farmers' Association in an-nual convention last week that the Government would at once instit an investigation of the charges institute to isolated interior towns, which he characterized as simply outrageous The Government would take charge of a case submitted to the railway commission demanding redress forthwith Premier Rutherford asked the farmers Premier Rullerford asked the larmers to prepare and submit to the Govern-ment some practical and acceptable scheme for the ownership of elevators and when that was done the Govern-ment would be prepared to act in giving it effect through legislation. grain. Average seeds as regards size and when that was done the Gavern-and general development, from aver-age heads are considered better for seed than large seed chosen from small and inferior heads. If the seed is not chosen until after threshing, how are you to determine which seeds to choses? Hence the importance of

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RURAL HOME

FARMAND DAIR

COW RECORDS.-THEIR INFLUENCE ON THE DAIRY INDUSTRY* D. Drummond, Ottawa, Ontario

The influence is a Great One, though Difficult to Estimate. History of Records, Some things they do and some Comment on their Possibilities

T might almost be said that we are living in a record age. We find all big commercial institutions, railways, factories, etc., keeping records of floor space, of cars, of engines and of employees, in order to find the earning power of each of them, both gross and net. In agriculture records of production are observed also by poultry keepers and dairymen. In almost all countries making any pretence as dairy countries cow records of some kind are being kept.

Probably the most valuable and complete are those of Sweden and Denmark. There they have a system of food values in connection with them, from which the cost of individual production can be very closely estimated. In this country it is only of recent date that any united efforts have been made along this line, but records seem to

be growing in popularity, so that now we have official and semi-official records for 7 days, for 30 days, for 7-day periods eight months after calving, yearly records, private records of all kinds and the cow testing association records.

"he reason for the introduction of the work in Canada was the remarkable revelation made wherever records were being kept of the difference between individual cows in the same herd, and of the great difference between the production of different herds. And we are not yet awake to what future records may reveal and what lessons we may learn from them.

It is impossible to calculate in dollars and cents or in pounds of milk or pounds of fat, the influence of cow records on the dairy industry. We might give illus-

38.0

trations of herds that have improved their average production some 20, some 30, some 40, some 50 per cent since their owners have commenced

to keep records and from that calculate what it would amount to for the whole country; but we know that it does not always work out that way. and at any rate improvement takes time.

DIFFICULT TO ESTIMATE.

Who can measure the influence of this Fair? Who can tell the influence of the Farmers' Institute, or all other such institutions, and tell us its value in dollars and cents? Cow records come under the same category because they are to a very large extent educational. They teach better feeding, better business methods, better

*An address delivered at the Eastern Live Stock and Poultry Show in Ottawa last week.

breeding methods. They call forth the best efforts of the intelligent dairyman. They create a friendly rivalry between neighboring dairymen, especially if these men are disposing of their produce at the same point. They also interest the young men, and to them it is that we look for the greatest influence.

BETTER FEEDING.

The majority of farmers know that they are sending so much milk to the creamery or cheese factory, or to whatever place they are disposing of their milk. They take the total only. When that total shows signs of diminishing they, at least the best of them, start some other method of feeding and may by so doing increase the total. But ask them which of their cows are doing it or if all are doing it, and they cannot tell.



Francy 3rd, a Cow with the Highest 7 Day Record Ever Made in Can. da by a Canadian Bred Cow

Under the supervision of Mr. O. S. Wood of the O. A. O. C. this Hockein evo, contains bred Cow Plait & Son, Millgrove, Ont., recently completed a screen day official record of 2016 Uks. butter-the highest record ever made in Canada by a Canadian bred cow of any brevel. She has been have seen this cow claim that is the screen day official record of 2016 Uks. butter-have seen the cow claim that she has been have seen the cow claim that seen the screen day official record of 2016 Uks. Butter-the screen day of the screen day official record of the screen day brevel. She has been show.

Those who keep daily milk records of their individual cows are in quite a different position. Without better feeding it is impossible to properly weed out a herd. Some cows may have been receiving all the food they can assimilate and turn into milk, whereas others can make use of a considerable larger quantity and give good and profitable returns for it. The only way to discover these cows is by keeping records. There are many good cows in the country, if they were only well fed.

Cow testing work calls for the best efforts of our intelligent dairymen in providing better food, better care and attention for our hard working cows. Through records the effects of neglect, exposure and lack of proper feed are recorded. These have the effect of making the owner or care-

taker reflect and think whether or not he is do his best by his cows.

BUSINESS METHODS.

Farmers are proverbially poor Lusiness men Many of them are satisfied if at the end of the year their bank account is increased and they feel that they can conscientiously say we have made so much honestly and without injuring any of our fellowmen. But if anyone of them was questioned as to which of his operations paid best, was it cows, horses, pigs, sheep or crops, in most cases he could not answer. Cow records have a great influence on the farmer in teaching him that accounts are useful. He learns this through making a beginning with records. He soon begins to look at the amount of feed consumed and commences to calculate the cost and find out from that which cow is most profitable or if there are any that are paying a profit. He is soon able to tell whether or not his farm operations are profitable, or whether he is as Professor Roberts says, "working for 50 cents a day and boarding himself."

Do each one of your cows pay a profit? Do you know that each does? If you don't, then keep records. The expense is small. It is business. The men who are following up the milk records are not the failures among dairymen. On the contrary they are the most successful. The production of milk and its products can be made far more profitable through better feeding and better Lusiness methods. One of the principal means towards this end is the keeping of cow records.

All breeders of the various kinds of dairy cattle have started some kind of records within the last few years. Some have adopted one kind, some another. All are more or less valuable. Some records have been started to boom the breeds; some to assist breeders in the better

selection of male animals, as well as to aid them in culling out the poorer females. They are all of too recent origin to enable us to collect data that will most effectually illustrate their influence on the dairy industry.

But when we study the history of all the dairy breeds, we find that records or reputation has played a large part in their improvement. It will be noticed that the homes of all the dairy breeds are small and restricted in area. We can easily understand how the reputation of an animal might easily be told all over the district where that breed was. Also owing to most of the produce being manufactured at home and taken to the markets, by the farmers themselves, where they were always meeting others in the same work, this and that cow or bull would be discussed; their stock would be criticised or praised and in this way information about good cows was spread from one to apother.

FIRST ATTEMPTS AT RECORDS.

This is now all changed. The different breeds are scattered all over the world and information about them is necessary to be recorded as correctly as possible, so that parties at great disfances may know something about all the ancesness of the animal they are purchasing. The strest attempt at such records was in establishing ared books containing the breeding or genealogy to the animal, nothing else. These have now been published for about 50 years, and are nearing all that is required for some classes of stock. But the dairyman who was trying to improve his the production began to find that such records were of little help to him unless they went further and told him something about the pro-

duction of the animals recorded. We see, therefore, that our forefathers improved the different breeds of dairy cattle even with their imperfect means of recording. Are we, their successors, able to keep on improving with our better advantages, or are we to fail in the task? At no time in the history of our great country have dairymen had such opportunities for improvement as at present. At no time has dairy produce been selling at better prices. Are we going to take advantage of these opportunities ? Are we going to improve our dairy herds and by so doing increase the individual production and profits? If there is anything we need in this country it is more improvers and breeders, instead of dealers in live stock.

Market Value of Good Feed for the Horse*

J. H. Grisdale, Agriculturist, C. E. F., Ottawa. For 100 years we Canadians have been trying to improve our horses. For 30 years we have been making strenuous efforts in that line. As might be expected we have achieved something, As is much to be regretted we are still far short of what might be expected, of what is highly desirable and of what is absolutely necessary before we take the place we should in the horse breeding world. We have spent millions on importations; if importation is to prove the salvation of the industry we must spend millions more. I am not so sure, however, that in importation lies the secret of success.

I admit good breeding important and importation most certainly the basis of progress. But too many of us neglect another factor entering in no small measure into the production of the best horses of any breed, but perhaps more particularly into the development of the individual as well as the breed or breeds of heavy horses. That factor of so great weight and influence is good feeding. None will deny its necessity, few apparently consider it to be of the importance it really is. That at least seems to be the case when one observes the treatment accorded the colt by the average Canadian farmer, more particularly as he flourishes in Eastern Ontario and Quebec, but in no small measure through the Dominion.

DRAFTERS AT THE TOP.

A glance at any horse market quotations shows the general classification to be drafters, chunks, general purpose, expressers and drivers. With the exception of an occasional extra fine individual of some other class the drafter commands the top price. For instance, today the best drafters bring \$250 to \$400 each, while the next price is from \$175 to \$250 for extra good expressors or drivers; the chunk and the general purpose must be content with \$150 to \$175. The chunk and the general purpose, more particularly in this Eastern part of Ontario, far outnumber the drafters. In my opinion the great number of chunks over har address delivered as the Ottawa Winter Fair to the twok. their chunkiness to feeding methods or rather the lack of feed. In other words "chunk" means "starced colthood." The Good Book says no man by taking thought can increase his stature, but it does not say a word about horses. Moral, get busy, feed the growing horse, see if he can't be made to grow enough to raise him two or three degrees or grades when he strikes the market.

There is no doubt it can be done. It is done in many cases, as witness the fine type of horse it is possible to find in this country, if one is willing to hunt long enough. What we want to see is every cold getting the chance to develop that is his by right of birth. By right of birth because no man unwilling to give the colt a chance should ever think of breeding.

GOOD FEEDING IS PROFITABLE.

Further, it is a profitable proposition. The spread of prices of from \$50 to \$200 between chunk and drafters shows good returns from the small extra amount of feed required to help the right bred colt past the 1,400 or 1,500 pound mark and so into the big money sort that gladdens the seller's heart and makes the buyer smile despite the long price he must pay.

The feeding is a simple matter, yet at all times requires judgment. It must begin with the dam while yet the colt is long unborn. She abould work steadily at moderately heavy work. Constant and uniform work with right feeding is the thing. Her food should be somewhat different from that given the average work horses. Bran should enter somewhat more largely in the rations. Clover hay free from dust and mould should in some small measure form part of her feed. She should be kept in fair flesh and improving rather than losing in weight. She should work right up to the last day before fealing.

After fooling, work her very little and at work roblikely to tax her strength and cause overheating. Shut colt up while at work. If she is old. Give a good pasture and a little grain if possible the first rammer. Keep him growing and in good fesh. Most Eastern Ontario colts are ruined between the ages of 12 and 30 months. The colt should reach the three-year-old mark in good flesh and growing rapidly.

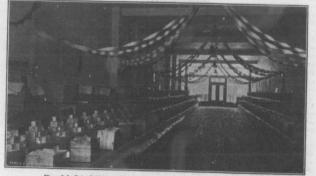
At three years old he is worth just twice as much if properly raised as he usually sells for raised by the average farmer.

Comments on the Sheep Industry

Robt. McEuren, Middlesez Co., Ont. Just now when interest in abeep breeding is at low ebb and farmers throughout the Province have either abandoned their flocks or reduced them almost to the vanishing point, R. H. Harding's article, which appeared in FarM and Dairy, January 18, is timely and worthy of consideration. Even when wool was selling as it was a few years ago, at 10 and 11 cents a pound, breeders freely admitted that there was a profit in the business. That being the case and with current prices for lambs, mutton and wool, one looks for a revival which is not yet apparent.

If the causes for this delay are recognized, remedies can the more easily be applied. The argument perhaps most frequently advanced as to why sheep are not being bred is the danger of the loss from dogs. There is serious loss we know, but there is good reason to believe that the scare head lines of the reports of losses appearing in the press, encouraged possibly by the owner of the sheep who finds this necessary in order to receive fair compensation from the municipality, deter the timid from embarking in an undertaking with this risk attached to it. When the contemplated legislation is enacted, making it obligatory upon all townships to pay not less than two-thirds value for sheep killed by dogs, a greater confidence will be established in the business.

It is sometimes asserted that arable land in Ontario is becoming so valuable that a profit can-



View of the Dairy Exhibition held at St. Thomas at the time of the Dairyman's Convention

The exhibit this year was the largest and the quality was the best on record. The exhibit was displayed a vacant store, which was tastefully decorated. A report of the exhibition was given on page 12 of Farm

idle see that she has a good pasture, a little extra feed will pay. Feeding the colt through the mare is a good practice.

TEACH THE COLT TO EAT.

But teach the colt to eat early in the game. Bran and whole oats are good, one to four of oats or thereabouts. Give all it will eat. Give some hay. Wean whon eating well. Keep colt always in good fiesh. The first winter run loose if possible in box. If this is not possible then out every day.

Feed well all the first winter, giving all the good clean grain and bran it will eat up. It should weigh about 1,200 pounds at 12 months not be shown through sheep. If tenants in England and Scotland can live more luxuriously than farmers do here and pay a rental of \$10 to \$15 an acre through the profits of sheep, Ontario land owners ought yet to find something attractive in the trade.

In order to fix attention more particularly on sheep and that a knowledge of all the details of breed characteristics, methods of winter and summer feeding, and the profits to be derived from the sheep breeding industry of the province, something more than at present is should be at our Agricultural College. If the Professors were brought more directly in touch with the work and



Victor Begg, Moose Creek.

E. Terrill, Wooler

D. Duncan, Don

J. W. Richardson, Caledonia

The Four Men who Stood at the Top of the List for their Respective Districts in the Dairy Farms Competition Conducted by Farm and Dairy The extended scores of the first eight prize winners in each district were published in Farm and Dairy Jan. 31. The farms owned by these men and a number of others in each of the four districts will compete again this year to determine the best dairy farms in the province. Next year another competition will be held. Those who ere likely to compete should begin to make preparations now.

their scope extended it would be to the advantage of the students returning to their life work on their farms. If the raising of cattle, horses, swine and poultry is worthy of attention surely so is an animal like the sheep, which produces beth feed and clothing.

The Ontario Sheep Breeder's Association should go into the matter carnestly and take up, not only the matter concerning flocks at the Ontario Agricultural College but should look into the possibilities of having breeding and feeding, at least feeding operations, carried on at such institutions as Asylums where patients could with beneficial results be occupied in tending and caring for flocks.

Care and Management of Breeding Swine

D. D. Gray, Farm Foreman, C.E.F., Ottawa The present condition of the hog industry with such high prices for pork makes most farmers start to do a little thinking and many are wanting to get back into the business again.

Perhaps it is a good thing for the hog industry that these conditions prevail as a great many were keeping hogs without counting the cost, or giving them the intelligent consideration that is necessary to the successful carrying on of any business. It is only on one part of the great hog industry that I wish to descant that of the care and management of the breeding stock.

BOAR

301 N M

Sec.e.

Always use a pure bred boar of whatever breed is liked Lest. Pure bred sires are more impressive as they have been breed for generations with a certain aim in view and litters from such sires will closely resemble each other in aize and conformation. But remember that all pure bred animals are not necessarily good animals. Many pedigreed pigs now in use should have been castrated in their early days. The very fact of their being pure bred makes them all the worse as they will leave their mark on all their get and especially if bred to cross or grade sows. So have nothing to do with pure bred scrubs, see to it that whatever boar is used comes from good stock and is of good size for his age.

He will usually be able to serve when five or six months old but should not be required to do so before he is eight months old and then should be used sparingly. At this age he should not get more than one sow i day or perhaps occasionally two at most. Old bars may be got to serve two or three sows a day, with good results, if properly handled and fed. To insure the bear keeping in good service condition he should have a chance to run about in a roomy pen or yard for exercise. Although he should be well fed he should not get too bulky a ration at this time and should be closely watched that he eat up clean whatever he gets at each time of feeding.

SOW

In picking out the sows to be kept as breeders do not be satisfied merely with the proper type desired but see that she has made good gains up to say seven or eight months of age.

At the Central Experimental Farm this year we had them go from an average of .80 lbs. or fourfifths of a pound per day up to 1.78 lbs. or one and three-quarter lbs. per day of a gain live weight at about seven months of age. See also that the young sow has at least 12 well placed teats and that sho is out of a large litter. She should not be bred to farrow under a year old and better 14 or 15 months.

A short time before the mating season or before the time indeaded to bread the sows, they should receive a little extra attention, especially should this practice be followed with old sows. They should be so fed that they will be gaining in fiesh and in good heart when being bred, this to insure large litters. After the sows have been bred it is of the utmost importance that they get a chance to take some exercise. If in the summer let them out on pasture or if in winter they should have the run of a large yard.

FEED FOR SOWS

The feed should consist of bone and muscle forming material such as bran, shorts and oats, with pasture on good food in summer, and roots and clover hay or chaff in winter.

Last winter we fed a bunch of 27 old sows at the Central Experimental Farm from November 1st up to March 13th a period of 130 days, on a meal mixture of bran and shorts in the proportion of two of bran to one of shorts. The sows received an average of about two and a half 1bs. of this meal mixture 10 lbs. of roots and half pound elover hay a day. This ration costs on an average of four cents a day per sow for the total period of four and a half months.

Young sows however must be fed a more liberal meal ration to keep them in a good growthy condition.

One-fourth of an acre planted in small fruits and properly cared for will supply an average family throughout the season, but the land musi be fairly rich and kept in good condition by cultivation.

How to Get No. 1 Seed

E. D. Eddy, B.S.A., Seed Branch, Ottawa There is a wide difference between the seed of No. 1 and the seed of second quality. In fact

No. 1 and the seed of second quarky. In fact second rate seed may be so badly contaminated with noxious weed seeds that it is dangerous to sow it on reasonably clean land. It is therefore essential that farmers wishing to sow clean seed should purchase guaranteed No. 1 goods and use every precaution to see that the guarantee is carried out. This is comparatively simple if you go about it in the right way. Do not go to your local dealer, who may or may not know good seed when he sees it, and ask for clover seed and take whatever he may give you. Go to him early in the season and place your order for guaranteed No. 1 seed.

To make sure that the seed 'divered is up to standard, take a sample of each lot and send it to the seed laboratory at Ottawa for purity test. You will be sent a report giving the grade of the seed and the nature and quantity of the impurities. Then, if it is not up to standard, you can return it and demand something that will meet your requirements. The seed laboratory is always open to do work of this nature for farmers, but as yet the great bulk of the samples received come from seedsmen.

At present there are not many wholesalers who put out seeds marked No. 1. It is mostly sent out under brands, which mean nothing so far as the law is concerned. Seedsmen hesitate to mark their goods No. 1 so long as they can sell them without, as there is much danger of violating the Act when only the "Government standard," as the prohibition line has been named by the trade, has to be conformed to. In fact, they often find it more profitable to export the No. 1 seed so long as Canadian farmers will buy what they call Government standard, which,' if sown at the rate of 10 pounds an acre of red clover, may give you weeds to the extent of 15,000 an acre. However, some seedsmen are now sending out seeds marked No. 1 and others will do so as soon as there is a sufficient demand from retail dealers, and that demand can only be created when farmers refuse to be satisfied with anything else.

We have two silos. Ten acres of good eorn will fill them. With the alfalfa and ensilage we will have a fine bot of the best as well as the cheapest feed obtainable for our cattle as well as a little of it for our horses.—Geo. Martin, Farm Manager, House of Refuge, Waterloo Co., Ont.

Shoe Boils, Capped Hock, Bursitis are hard to cure, yet ABSORBINE move them and leave no ble Does not blister or remain b. Downing any puff or sworning. worked, \$2.00 per bottle, delivered, Book & D fr. ABSORBINE, JR., (mankind, \$1.00 bott) ar Boils, Bruises, Old Sores, Swollings, Goik ar Boils, Bruises, Old Sores, Swollings, Boils, Bruises, Allars, Pain. W. F. YOUNG, P.D.F., 123 Tample St., Springfield, Mass LYMANS Ltd., Nontreal, Canadian Agents, Dr. Bell's Veterinary Medical Wonder cure idneys. The soth century wonder. Agent a every county. Write for a free trial \$1 bo ffer only good for 60 days. Limited to 500 DR. BELL, V.S., Kingston, Ont WINDMILL Towers Girbed every five feet apart and double braced Grain Grinders Pumps



Work of Conservation Commission

The Conservation of Canadian nat ural wealth of water, of mine, of forest, of soil and of citizenship; such is the object of the Conservation Comis the object of the Conservation Com-mission which was in first annual session in Ottawa last week. The com-mission is a body constituted for the purpose of collecting exact informa-tion and deliberating thereon, so as to render it of practical Lengfit to the control and for the purpose of advising the government on the actual questions of policy that might arise in reference to the administration of natural resources where effective conservation and economical use are concerned.

cerned. The President of the Commission, Hon. Clifford Sifton, in his insugural address said that the real surrey of the Commission included everything from the physical health of that great leviathan men call the State. To insure the first, it will attack that wasting monster called consumption. To insure the second, the Commission aims to check national water caused To insure the second, the Commission aims to check national waste caused by the prevalent disease "Ignorance" wherever it may be found. Inland waters must be owned and operated for national ends, not personal ends and the head waters must not be ne-maded a the second and the head waters must not be ne-nuded at the caprice of the fortune-hunter. Forest conflagrations must cease to lick up with firey dragon tongues those verdant sureties against flood, or drought or famine

IDEAL OF THE COMMISSION

Mr. Siftn's care for the farmer was strongly emphasized. He betrayed clearly the fear that "wealth might

"Takes," Like a Spring

Make Our Own Wire

for Fence purposes.

accumulate and men decay." The danger lay in the depleted fortility of the soil, for "wherever there is a population dependent for upwards of two centuries on the soil, there is to be found the grosset poverty." In ideal ding, Mr. Sifton expressed his ideal ding, Mr. Sifton expressed his ideal ding, war commission. "It can," he said, "exert commission." It induces the proper direction. It induces come the embodiment of public spirit and advanced thought now that our

The problem of the second seco

trolled the lumler business. DEFENDERY ON THE SOIL The conservation of agricultural re-sources was dealt with by Dr. J. W. Robertson, C.M.G., late of Macdonald College, Que. The conditions .xisting in Canada and the United States, he said, were practically concurrent. In the West there was a tendency were de-ne to take what they were dethe West there was a tendency for men to take what they wanted from the land, get rich, and let the moth-er-earth look after itself. It should be remembered us ware absolutely de-pendent on the body and the body on the soil. We looked to the soil for our food, clothing, tobacco (he did not advocate its growth), and drugs, all came from the farm. Agriculture im-pled suppression of weeds, restraint of damaging diseases and the preser-vation of beauty and fertility. It had to deal with four things—air, climate, seeds and intelligent labor. seeds and intelligent labor

By special invitation Hon. Adam Beck, Ontario's Minister of Power, addressed the Commission on the "Conservation of the Water Power of Ontario."

Central Nova Scotia Seed Fair

The seventh annual seed fair held The seventh annual seed fair heid in Truro, N. S., was opened on Tues-day, Jan. 11th. Owing to the inclem-ency of the weather during the day previous, the number of exhibits was



somewhat less than in 1909, but it was somewhat less than in 1909, but it was interesting to note that the quality of exhibits far surpassed anything prev-iously shown. All exhibits were judg-ed by Mr. T. G. Raynor, of the Seed Department, Ottawa, and Mr. S. J. Moore, the Maritime representative of technikit of priment. The number of technikit of priment. The number of decrease and it was interesting to note that careful hand selectars and members of the Canadian Seed Grov-ers' Association carried off the maers' Association carried off the ma-

ers Association carried on the ha-jority of prizes. The exhibits were all of particularly good quality. The potato exhibit, however, was by far the best and showed greater advancement in type, size and quality than any of the others. others.

The cup donated by Mr. John Stat-field, M.P. for the best exhibit of field, M.P. for the best exhibit of field, M.P. for the best exhibit of six varieties of potatoes, was won in .08 by J. E. Harrison of Maccan; in 1909, by J. E. Harrison, Maccan, Retson Brothers of Trure, stood Verv close second bits ware, stood ba He sou by J. E. Harrison, Maccan, Hetson Brochers of Turue, stood a very close second this year, and had their exhibits entered been on hand for judging, this cup, undoubledly might have stayed in either Colchester or Halifax County. Much credit is due the exhibitors for the splendid condition in which exhibits were placed before the number.

condition in which exhibits were plac-ed before the public. This fair stands out prominently as a sales fair; prices were high, es-pecially for pedigreed seed. Sales were brisk. Many were deeply interested in the process of seed selection and the good results from this fair of 1910 cannot be over estimated.— Ē. S. Archibald.

Where Averages Mislead

Where exercises the com-parative yields of 248 cows in 18 On-tario herds, for the full period of lactation. It is a part of the address given by Mr. C. F. Whitely at the recent Dairymen's convention in Pallacilla. Belleville:

Bellevine: Average, 5,965 lb. milk, 3.5 test, 211.7 lb. fat. Average of 18 best cows, 7,733 lb. milk, 3.3 test, 258.3 lb. fat. Average of 18 poorest cows, 4,260 lb. milk, 3.7 test, 166.8 lb. fat. Best individual, 13,742 lb. milk, 3.4 test, 472.4 lb. fat. Poorese. Individual, 2,670 lb. milk, 3.4

test, 472.4 lb. fat. Poores. Individual, 2,670 lb. milk, 3.5 test, 943 lb. fat. The chart illustrates graphically a few comparisons in the yields of 246 Ontario cows. The average yield, close on to 6,000 lb. of milk, is too apt to be taken as indicative of good all round cows. It comes as a shock to find that two such extremes as 13,740 lb. and only 2,870 lb. are in-cluded. This shows immediately how thoroughly one can be misled by ig-noring the fact that an "average" in-situtes no comparisons, but is simnoring the fact that an "average" in-stitutes no comparisons, but is sim-ply a comforting blanket thrown over the cold deficiencies of many a defin-quent. An average in connection with herd yields should immediately awaken enquiry as to what is includ-ed, otherwise and frequently to one's

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wink nerd yields should immediately wakken enquiry as to what is includ-ed; otherwise, and frequently to one's loss, cows under the 3,000 lb. mark manogast the 6,000 pounders. The state of the state of the state in the other hand, such individuals as this 13-thousand-pound beauty are likely to be completely overlocked. Their light is literally shining bright-ly, but the befogging average drops a bushel backet over it. Between the 18 best cows (one in each herd) and the 18 poorest there is a difference of over 3,600 lb. milk; this illustrates what is the actual dif-ference in efficiency between cows in hundreds of herds to-day, and points to the absolute necessity of taking no-tice of each ow's performance separ-ately.





ANY "coilless" Fence is liable to snap in

But the Frost is a coil Fence. In Winter, when steel Wire contracts, Frost coils "give" their surplus, instead of snapping like "coil-less" Fence.

And in Summer, when the Wire expands, that surplus returns to the Frost coils, instead of sagging and causing the Fence to lose its shape.

And no matter how often contraction or expansion is caused, the Frost Fence always acts the same, like a Spring,

Merely Excuses

Lots of other Wire Fences have a Tensi Curve or Kink, as an excuse for "Give" a "Take." But the number of these "giv and "takes" is limited. They cannot kee up. It isn't in the Wire or the method to

Both the Prost Field-Erected and the Frost Woven Fence have extra provisions for "Give" and "Take." But no others have it. You simply cannot find another Fence which will retain its shape like the Frost,

emember that when buying Fence!

We are the only Fence Makers in Canada ho Make and Galvanize Wire exclusively About 75 per cent. of Wire Fences rust tor Fence purposes. Wire, to give satisfactory service in Can-ada, should be made especially to fight off the pecular Canadian climate, which simply knocks the very life out of most Fences. But all Wire is not made with Canadian condi-tions in vice on where Pences rust 12 or 15 years sooner than they should. This is because they are Galvanized too thinly.

W. B. Marthand

When Frost Wire goes through its Double Galvanizing process, the Galvanizing process, the Galvanizing process, the Galvanizing root only "coars" it but goes deep into it, becom-ing a part of the Wire itself, For that reason we decided to Make and Galvanize our own Wire. So we built a Mill for Wire-making, and another for Gal-vanizing, and installed the most modern Machinery in use.

Then we obtained the services of one the most Expert Wire-Makers in Americ A man with 25 years of Wire-Making expe ence back of him. Frost Galvanizing is doubly thick, yet it

The new Frost Wire is Annealed so so tifically that it possesses the proper ten for Canadian conditions.

This gives the Frost Fence a life of abou to rsyears longer than most Fences. No eculiar climate can rust the new Fros Every inch is of uniform temper, and stronger than any other No. 9 Wire. It will not snap, togardless of the peculiar Canadian weather variations. Fence.

Send for free Booklet and Samples



6

Reseaseseseseseseseses and slowly increased. The Feeders' Corner ******* The Feeders' Corner is for the use of our subscribers. Any interested are in-vited to ask questions, or send items of interest. All questions will receive prompt attention. prompt attention.

Fodder for B.C. Horses and Cattle

Fodder for B.C. Horses and Lattle I have a homestead on the footbill: one part is well watered, the other is grav-elly, and 1 am desirous of growing fodder for horses and eatile. Would you kindly taken or erack of the theorem of the home or the second of the theorem of the home of the second of the theorem of the home of the theorem of the theorem of the home of the theorem of the theorem of the home of the theorem of the theorem of the home of the theorem of the theorem of the home of the theorem of the theorem of the home of the the theorem of the theorem of the home of the the theorem of the theorem of the home of the the theorem of the theorem of the home of the the theorem of the theorem of the theorem of the home of the the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the theorem of the home of the theorem of the theorem of the theorem of the theorem of the home of the theorem of the home of the theorem o acre of a mixture of equal parts by weight. To seed down to any of the reaght. To assed fore spin a part of Dy Transses mentioned through prepara-tion of the soil is necessary. If at present in pasture or sool it would not be advisable to attempt seeding this year unless plowing can be done very early in the apring. If plowing can be done early and it is not abso-lutely necessary to utilize every bit of land for forage growth this year, then it would be well to eutivate through-time in duity, the the land till some time in duit, the the land till some 20 lia. to the acro. Harrow and roll and less will the adfalf begins to blossom when it should be cut and left on the field. on the field. The best plan would be to grow

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mixed crops in 1910. Sow timothy, western rye and red clover along with grain on part of land which could or grain on part of hand when could of would cut first. On part intended to be left till ripe or nearly so, do not sow any grass seed, but work the land after harvest, keep it clean and sow alfalfa alone the next spring.—J.H.G.

Linseed in Calf Feeding

In the feeding of calves it is found that linesed meal or crushed linesed added to skim or separated milk is one of the safest and most economical one of the safest and most economical substitutes for the abstracted milk fat. Linseed approaches more nearly in composition to the solids of milk than any other food, and the oil which it contains, to the settent of 34 to 35 per cent, is easily digestible. There is a state of the set of the set years of the set of the set of the set years of the set of the set of the set is difficult to detect impurities when the material is sold in this when the material is sold in this condition.

as a summent to detect impurities wondin. One of the commonent adulterants of livesed meal is ground linesed cake. The itter does not contain more than one-a, the to one-third of the oil in pure inseed, and the relatively largor amount of fibres in it renders it un-suitable for giving to young calves as a substitute for milk fat. Again the meal of almost any cereal grain can be mixed with linesed meal in fairly largo proportions Lefore the substitution is likely to be detected. The risk would be obvieted by pur-chasing whole linesed and having it ground a the meal cost, roughly about one-bird the price of gamine linesed. The risk would be obvieted by pur-chasing whole linesed and having it ground a the difficulty of grinding, owing used lines of the start. Whe could be obvieted by pur-chasing whole linesed and having it ground at meal cost, roughly about to the the difficulty of grinding, owing used lines heat week the chasme whole milk to skim milk as well as to furnish additional properion of the for weak and ereal milk hould be fed varar. The skim milk should be fed varar. Nowing

milk as well as to furnish additional protein, is now the duty of the lin-seed, mixed with the milk in the form of a jelly. This jelly should be added in small quantities at first,

Begin with a dessert poonful in each portion, and gradually increase until about a cupful is being fed night and morning to the three months old calf.

the three months old calf. To prepare the jelly, boil or steep one pound of linseed in water almost boiling until a thick paste results. Another method of preparation is to take a half-cup of ground linseed in a quart of water, and allow it to simmer just below the boiling point until a thick jelly is formed. It should be kept cool and sweet until fed.— The Dairy.

FARM MANAGEMENT

Queries About Alfalfa

Queries About Alfairs I have read a lot about affairs clover in the dairy papers, and have decided to solve one of the agring. Would like the solve of the agring would be the solve of the solver the solver of the solver with it? 4 What time to solve it? How any the best way to sow it? I was going to sow it with oats.-W.C. Leeds Co. Out.

1. Alfalfa will do well on any kind of soil rich in plant food and in good tilth provided there is good drainage and water does not lie on the sur-face for more than four or five hours at a stretch at any time of the year. 2. Sow from 20 to 25 lts, seed an

an acre. The heavier seeding should be followed when soil is not very rich or

when seed is not very good. 3. Where it is intended to leave in alialfa hay for any length of time, that is for more than a couple of years, it is better to sow no other clover or grass seed along with the alfalfa.

alfalfa. 4. Where soil is rich, not too por-ous or dry, in perfect tilth it may be sown with a nurse crop, oats, bar-ley or wheat. If soil is very dry, if land is dirty or wedy or not in very good tilth better cultivate till July, then sow alfalfa seed alone. Sow broadcast after sowing grain. Di-vide seed into two parts. Sow length-wise and then crosswise, half each way. Harrow lightly and roll after seeding.—J. H. Grisdale.

Farm Manure

FARM AND DAIRY

Farm Nanure By far the larg st percentage of the plant food contained in manure is found in the liquid portion. It is es-pecially rich in readily available ni-trogen, contains a high percentage of potash, but is deficient in phospho-ric acid. The nitrogen rapidly es-capes into the air if special precau-tions are not taken to preven its loss. When the liquid and solid portions of manure are mixed together, the one manure are mixed together, the one supplies the deficiencies of the other

auplies the deficiencies of the other and a more nearly balanced ration for plants is secured. Mazure should be hauled out and spread upon the field at short inter-vals whenever practicable. When thus handled, the losses of valuable constituents need not be very great, bonding the manue is stored for a bonding the manue is alored for a bonding the second second second preservation are greatly difficulties of losses are much more likely bo and Losses in manue result from two

losses are much more likely to occur. Losses in manure result from two chief causes; first, fermentation, whereby nitrogen, either as ammonia or in the gaseous state, is set free and escapes into the air. Second, by weathering or leaching, which in-volves a loss of the fertilizing consti-tuents. The loss from destructive fer-mentations may be larged y prevented tuents. The loss from destructive for-mentation may be largely prevented by the use of proper absorbents and compact. Loss from leaching may be-prevented by storage under cover or in water-tight pits. When the urine is allowed to run in water-tight pits.

When the urme is allowed to run to waste more than one-half of the man-urial value of the food, or 63 per cent. of the manurial value of the solid and liquid manure is lost.—U. S. Bulletin.

To Handle Manure

10 fractione transactor Which is the best way to handle man-ure in winter, providing you have a man-ure spreader? Is it best to plow down or spread on top on a rather light soil?-C.C.W., Glen Elbe, Ont. On a light soil would suggest spread.

On a light soil would suggest spread-ing manure on top and working in with disc harrow. If horse power is scarce or likely to be scarce in the spring, better apply manure in win-ter. This would of course not be true on very hilly land. Under such con-ditions it would be better to haul out in apring.—J.H.G.



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********************* HORTICULTURE

Vegetable Seed Investigations E. D. Eddy at Ottawa Winter Fair

E. D. Body as Official Writter Fairs I would like to refer briefly to the work being done by the Seed Branch in investigating the germination qual-ities of the field root and garden seeds sold on the Canadian market. This work, which has been carried on for the second with work of the second three years, was started with a view to determine to what extent the claim that vegetable seeds of low vitality were being sold in Canada was justi-fied, and to collect data for the purhed, and to collect data for the pur-mone of framing a satisfactory amend-many to the Seed Control Act regulat-ing the seed trade in respect to vi-tality. During the last three years samples have Leen collected from all part of the Dominon by seed inspect-re and must to the Ottawa seed inors and sent to the Ottawa seed la-boratory, where they have been tested for germination. Some of these seeds were taken from bulk lots but most of them were papered goods, as it is generally in the latter class that the poorest quality is found. A summary of the results with some of the principal kinds of seeds tested is given on the chart. The first column of figures represents the number of samples of the different kinds of seeds tested during the past three years. The second column gives the average germination of the samples tested, the third column the standard germina-tion recognized for good seed of the various kinds, and the last column the percentage of samples below two-thirds the standard germination.

RESULTS OF INVESTIGATION

| | Sam | ation | d | N No |
|--------------|---------------------|---------|--------------------|-----------|
| Kind of Seed | Number ples Test | Average | Standar Germini | P.c. belo |
| Beans | | 78 | 90 | 16 |
| Peas | | 80 | 97 | 17 |
| Cabbage | 270 | 75 | 93 | 14 |
| Radish | | 85 | 95 | 9 |
| Carrot | | 60 | 80 | 36 |
| Turnip | | 80 | 95 | 13 |
| Parsley | | 51 | 65 | 30 |
| Cucumber | 235 | 82 | 90 | 3 |
| Musk melon | 48 | 84 | 90 | 2 |
| Water melon | 60 | 75 | 90 | 13 |
| Squash | 87 | 73 | 90 | 22 |
| Pumpkin | 62 | 81 | 90 | 10 |
| Citron | 30 | 79 | 92 | 10 |
| Onion | 243 | 67 | 90 | 29 |
| Tomato | 141 | 79 | 90 | 13 |
| Parsnip | | 44 | 65 | 38 |
| Salsify | 39 | 60 | 85 | 46 |
| Cauliflower | 85 | 79 | 90 | 7 |
| Field corn | | 89 | 95 | 5 |
| .Sweet corn | 164 | 79 | 95 | 17 |
| Spinach | 55 | 48 | 90 | 73 |
| Lettuce | 235 | 90 | 90 | 6 |
| Pepper | 32 | 42 | 70 | 53 |
| Leek | 25 | 51 | 90 | 68 |
| Beet | | 146 | 160 | 13 |
| Mangel | | 148 | 160 | 16 |

Speaking generally, it may be said that the seedsmen of Canada are supplying vegetable seeds of good vitality, but a glance at the fourth column of the table will show that there is still considerable low grade seed being sold. In fairness to our most reliable seeds-men, it should be stated that the fourth column is made considerably larger than it otherwise would be by larger than it otherwise would be by the samples from a few wholesale dealers who appear to make a prac-tice of sending out cheap seeds of low vitality, so that the average of the samples from the more reliable dealers is considerably higher than the general average here given.

VEGETABLE SEED TRADE

The amendment to the Seed Con-trol Act will make it illegal to sell seeds of any quality, the vitality of which is not up to at least two-thirds the standard recognized for good seed. unless the percentage germination is marked on every bag or package con-taining such seed. The fourth co-lumn of the chart will indicate the extent to which the trade in vegetable

seeds will be affected. The standard Christmas Trees from Canada seeus win be ameeted. The standard of germination for cereals, timothy and clover seed is 95 per cent., so that the minimum percentage ger-mination for seeds in these classes will be 64 per cent.

FARM AND DAIRY

TO RAISE THE STANDARD

But while the trade in vegetable and field root seeds is on a fairly sa-tisfactory basis so far is vitality is concerned, even the most careful seeds supplied with comparatively poor seed through unfavorable weather conditions during the ripening period, through some other cause, and the purchaser should safeguard himself against the possibility of partial crop failure through sowing see d of low tality. Many farmers have found by experience that heavy losses have been sustained in this way and it is best use every precaation to prevent them

The quality of the field root and vegetable seeds sold in Canada could be considerably improved if the farmers would insist upon having, and be willing to pay for, the best obtain-able stock. Practically all of our able stock. Fractically all of our stock is imported, but we do not get the best seed, which is that grown by specialists under inspection, because our seedsmen claim that they cannot get purchasers for this high class seed in competition with inferior stock grown by farmers without responsible inspection, which of course can be sold at a much lower price. It is there-fore possible for us to obtain goods of a much higher standard, not only in record to witchick but the term in regard to vitality but also true-ness to type, if we could get our seedsmen to understand that we wan seeds of the first quality and are will-ing to pay for them. This should the first step toward general impi-ment in the trade. Then every

nent in the trade. Then every er or market gardener should himself against possible loss pur-chasing his seeds early and testing them for vitality before sowing. This can easily be done by making tests at each in a box of with or between or fannel cloth, keeping the sowla at the temperature of an ordinary lic-ing room. This will give approximate ing room. This will give approximate results, or they can have the tests made in the seed laboratory at Ot-tawa, free of charge.

Niagara District Fruit Growe's

At the meeting of the Niagara Peninsula Fruit Growers' Association, held at St. Catharines this month, a resolution was introduced to the effect that a systematic and comprehensive census of the area and acreage of the various fruits grown in the district Le taken with a view to arriving at a definite estimate, from year to year, of the probable output, and that with this end in view the assistance of the Dominion and Provincial Agricultural Departments be solicited. This carried

Bunting praised President President Bunting praised the Board of Railway Commissioners for the attention paid to the complaints against the transportation companies. A letter was read from Secretary Cart-A letter was read from Secretary cart-wright of the board to the effect that a decision in regard to the complaints would soon be handed out. On motion of Mr Robert Thompson of this city, and Mr. J. W. Smith of Winona, the committee on transportation was urged to press for a decision against the rates and conditions in connecdecision against tion with the carriage of fruit by express companies. The resolution also called attention to the advantage of securing an order compelling the com-panies to put all the distributing centres in the west on the same basis. The association decided to hold in-

stitute meetings in the district. Ar-rangements will be made for meetings at Fonthill, Stoney Creek, Grimsby, Beamsville, Jordan, Winona, St. Da-vid's and St. Catharines. Editor, Farm and Dairy,—The fol-lowing is a clipping from the *Toronto Telegram* regarding shipping Christ-mas trees from Canada to the United States

'New York, Dec. 17 .- The price of Christmas trees and holly has gone



A Handy Spraying Outfit for Small Orchards A range oproving output for Junal Orcaarse With this rig small plantations of trees and bush fruits can be sprayed conveni-garden. Note the platform around the barrel for standing on when trees are too call to reach top from the ground. The outfit illustrated is used by Mr. R. J. Messenger, Bridgetown, N. S.

this year at a surprising rate. The reason assigned by some of the dealers in the holiday green, is that the supply in the Catskills, which has bitherto been sufficient for this city

and the surrounding country, has and the surrounding country, has fallen to such a degree that it be-came necessary to import trees from Canada for the festive season. This means a cost of from 86 to 88 a car-load for import duty alone as well as extra transportation. New York uses from 100 to 125 cars of Christ-mas trees each year and this year the mires will range from 25 cents to 825 price will range from 25 cents to \$25 a tree. Spruce trees cannot be used, a tree. Sprittle trees cannot be used, as cutting them is forbidden by the Forestry Bureau, as they grow into good lumber. Balsam trees which nevinto er amount to much are the principal variety sold as Christmas trees now."

We as a people are standing in our own light when we allow such a trade to be carried on-thousands of trade to be carried on-thousands of fine, young spruce are taken every year. The writer some years a while in the Algoma district, say, some of the destruction carried on by those engaged in this business. Where suitable young trees were not availsuitable young trees were not avail-able, large ones were cut down and the tops only were taken. They work-ed a wholesale destruction of fine young spruce and other evergreens which should be stopped. Surely the Department responsible is aware of the harm being done. Then why is it permitted?

it permitted? Farm and Dairy is at present en-gaged in a praiseworthy campaign for reforesting. We know it will gladly help to bring about some legislation to prevent this wholescale slaughter of our young forest trees.--W J. Stev-enson, Ontario County, Ont.

fighting Canada In thistles. should be remembered that the adop-tion of a three or four year rotation in which is seeded clover for one year and this followed by a hoe crop, is the easiest and quickest way to handle this one time formidable foe.



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

POULTRY YARD

Hens Not Laying

My hens are not laying very much, d I think perhaps the reason is, they not get any meat, except separator (lk. Where do you get your horse meat?) you like it as well as beef scraps?-M., Vaudreuil, Que. do

Just at this time of the year hens are not laying well anywhere, especi-ally if they have been doing well during the summer nor are they likely to lay for a month or six weeks, no matter how they are fed. Early pulmatter how they are fed. Early pul-lets, however, or even later pullets, May hatched, should be getting into stope now, and if the pullets and hers are divided I would endoavor to give more meat to the pullets than to the hems, it should bring better re-turns. If they have plenty of separ-ated milk they do not require so much ated milk they do not require so much meat. A little, however, makes an agreeable change and should give good results. The horse meat you speak of is manufactured in Mon-treal. It is just as rich as the or-dinary beef scraps, and a little cheap-er.—F.C.E.

Sick Turkeys

Sick Turkeys I denic your addies on fatteming tur-krys. I have a flock of 80 which are yoor, and do not care to ach, but stand around all gathered up. Some are soured badly. Would it be better to shut them up? What kind of feed about be given-whole grain? I ought to say they the birds got into the grain bin a right since; they are they not been viable to be a source of the source and the source of the source of the source they are they are the whole.-m, E., P. Q. Your turkers have an attack of in.

Your turkeys have an attack of indigestion caused by eating an over-dose of buckwheat. Give castor oil or Epsom salts in a mash at the rate or Epson saits in a masn at the rate of a teaspoonful to each bird. It will be quite necessary to get them cured of their indigestion before you can put any flesh on them. You might confine them in a pen as long as they are eating well, but should they be dissuificied and wait but should they be dissuificied and wait to get out, an occusional run in the open will be dissuificated and wait to get out, and the state of the state of the state of the interval of the state of the state of the interval of the state of the state of the good appetite and will help them to lay on fields more rapidly. If you have ground grain, such as oats, whest, and barley, it might be well to eithe other feed being grain. If you can give them mik to drink, and mix-ed with ground grain, so much the better.—F.C.E. be dissatisfied and want to get out

Winners in "Poultry for Profit" Contest

The names unique "Po of prize winners in the "Poultry-for-Profit" unique "Poultry-for-Bront" contest recently held by the Lee Manufact-uring Company of Pembroke, Ontario, have just been announced. This concontest is of more than passing interest test is of more than passing interest to Farm and Dairy readers— a fact fully demonstrated by the large num-ber of entries made. Inaugurated with the idea of gauging the interest taken in poultry reising in Canada and with the aim of showing the ex-ting the which the industry may be tent to which the industry may be developed—how profitable it may be made, the competition took the form of an offer of cash prizes aggregating over \$500 to the most successful poul-

try raisers in the Dominion. The individual prizes were not large, a point which makes the result of the a point which makes the result of the contest of more interest than ever, showing, as it does, that the interest taken was not for the cash value of the premium but rather for the pleas-ure of advancing the cause of raising "Poultry-for-Profit."

In awarding the prizes, Mr. A. G. Gilbert, Chief of the Government Poultry Department at Ottawa, wrote the Lee Manufacturing Company as follows: "Herewith I beg to hand you the list of prize winners in the Peer-less Poultry-for Profit Club contest, in which your firm offered \$510, di-vided into 103 cash prizes for the most ost successful results in poultry-raising I desire to first express my appre-ciation of the manner in which you so honorably carried out the arrange-ments made Letween us when I con-sented to act as judge of the contest, that you should not even suggest the that you should not even suggest the method of judging or interfere in any way whatever with the awarding of the prizes. The vinner have there-fore been named on the merits of their work. I desire to express sincere thanks to Prof. F. C. Elford, of Macdonald College, Ste. Anne de Bellevue, Que., my friend and co-worker, for the assistance he so kind-ly granted me in the task of judging. I consider the competition a complete vindication of the stand I have, for years past, taken as to the almost abvindication of the stand 1 acomplete verse past, taken as to that have, for years past, taken as to the Incubated Brooder to the exigoncies of all fands ers or other poultry raisers. This com-test effectually disposes of the caring opposition as to artificial hatching and rearing." The success with which these winners have met, effectually proves that it is possible to make poultry raising pay big money pro-vided it is set about properly. The Peerless Outfit and the advice and help of the Peerless exprets is invalue. help of the Peerless experts is invalu-able to any Canadian poultryman.

help of the Peerless experts is invalu-able to any Canadian poultryman. The Winner of the first prize in the contest was D. L Boice, of Violet, Ont., who pocketed an even \$100, as the result of his excellent work. The source of the excellent work. The source of the excellent work withing of Workman, Sask, it, is keep Whiting of Workman, Sask, it, is a compared to the by the following: H. C. Whiting, Trenholmville, P.Q. i. A. H. Graham, Hawthorne, Ont.; Oacar Petterson, Lac du Bonnet, Man.; Jas Carmich-ael, Davis Mills, Ont.; Mrs. S. G. Trish, Sedgewick, Alta.; Mrs. Jas. Naylor, Arrow Park, B.C.; Geo. H. King, Korah, Ont.; W. S. Phillips, McAulay, Man.; Reuben Aylesworth, Bruce, Alta.; Mrs J. Steward, Dal-meny, Ont. Twenty prizes of \$5 each were awarded to: N. A. Hicks, Webb-were awarded to: N. A. Hicks, Webb-were awarded to: N. A. Hicks, Webbwood, Ont.; Walter O. Saunders, ren-wood, Ont.; A. S. Morsen, Bridge-town, P.E.I.; G. C. Gaston, Craig-town, P.E.I.; Jas. Dietrich, Wanda, town, P.E.I.; G. C. Gaston, Craig-hurst, Ont.; Jos. Dietrich, Wanda, Alta; Vm C. Bruce, Valley, Sask; Mrs. S. E. Wrigley, King Edward, Man.; Frank Bryant, Almas, N.S.; Mrs. E. A. Riddle, Ernfold, Sask; J. J. Hales, Chatham, Ont., P.O. Box 704; Mrs. M. B. Weatherston, Box 704; Mrs. M. B. Weatherston, Mrs. E. A. Riddle, Erntoid, Sass.; J. J. Hales, Chatham, Ont., P.O. Box 704; Mrs. M. B. Weatherston, Strathelair, Man.; F. W. Fane, Beav-er Lake, Alta.; W. G. Lett, Egan-ville, Ont.; Miss. A. E. Fauner, Lam-erton, Alta.; Ernest Hooper, 649 Cluck St. Edmonton. Alta. Mrs. S. cron, Alta.; Ernet Hooper, 649 Clark St., Edmonton, Alta.; Mrs S. Saunders, Smith's Falls, Ont.; Geo. M. Killam, Elgin, N.B., P.O. Box 53; W. M. Dauby, Antler, Saaks, Miss M. McMaster, Smithfeld, Ont.; Arthur Poppleton, Edmonton, Alta. The 20 winners of the §3 prizes were: Geo A. Feart, Guysboro, N.S.; Jos. Steelo, Villiers, Ont.; Mrs: T. Grayson, For-got, Sask, X. Longley, Paradise, N.S.; A. C. Crowthers, Red Willow, Alta.; S A. F. Merrill, Bawif, Alta.; S. ak. Jones, Round Hill, Greenwich, N.B.; Mrs. H. E. Hurst, Adair, Saak; A. F. Merrint, Dawn, Jane, F. W., Jones, Round Hill, Greenwich, N.B.; Mrs. H. E. Huret, Adair, Sask.; Frank Wright, 530 Jard Ave. W. Cal-gary, Alta.; Mrs. E. Seymour, Mani-tou, Man.; Roy Kendrick, Reston, Man.; G. N Rost, Caledonia, N.S.; Mrs. W. Gilbert, Minhourn, Alta.; M. C. Armstrong Mount Albert, Ont.; Mrs. J. G. Scott, Minto, Man.; Jas. Buckner, Orreille, Ont.; Wr. Buaby, East Yiew, Ottawa, Ont.; Mrs. J. A. Harris, Tramore, Ont.; Mrs. J. A. Harris, Tamore, Ont.; Geo. H. Brady, Ranfurly, Alta.; O. E. Lowes, Moose Jaw, Sask. Twenty-five prizes of \$2 each went to: J. T. Lacy, Switt

Curreni, Saski; Mrs. J. E. Baker, Springhill, Ont.; Chas. McCurrach, Merton, Ont.; H. P. Woodburn, Cum-mings Bridge, Ont.; W. A. Hill, Wol-selev, Saski, Mrs. W. F. Fisher, Korah, Ont.; E. R. Plummer, Lloyd-Ridge, Man.; J. A. A. Collins, Green Ridge, Man.; J. A. A. Collins, Green Line, Ont.; J. Laurens, Willow Ranze. Man.; Martin Yarawevell, AG minse. Ridge, Ma ino, Ont Line, Ont ; J. Laurens, Willow Range, Mann, Martin Varseveld, 565 Duluth Road, Port Arthur, Ont, J. H. Bleecker, Frankford, Ont, W. H. Ziegler, Manor, Sask.; Douglas Bron-ton, Corbyville, Ont, ; Wm. Steele, Valleyfield, P.O. Box 58; Mrs. F. G. Visitionbam Edwabe Sask ; John Valleyfield, P.O. Box 58; Mrs. F. G. Whitingham. Edgeby, Saak : John Pearson, Sidlane Ranch, Millarville, Alta: J. T. Marcey, Barrie, Ont.; Mrs. Ramkin, Vermillion, Alta.; Mrs. A. Brizg, Creelman, Sask: i Mrs. Frank Holder, Albert Canyon, B.C.; Harry Barish, Wapella, Sask: J. R. Houg, Seven Persons, Alta.; L. Olf Primmer, Myrtle, Man.; C. M. Grif-fiths, Cheadle, Alta. Twenty-three prizes of 81 each were awarded to: Mrs. J. Sharpe, Minnedosa, Man.; E. S. Blanchard, 32 Curtis St., Brant-ford, Ont.; Jon. Thompson, Rupert, Jord, Ont.; Jon. Thompson, Rupert, E. S. Blanchard, 32 Curtis St., Brantford, Ont.; Jon. Thompson, Rupert, P. O., Que, i Mrs. A. Shoults, Green Ridge, Man.; John King, Adamsvillo, Ont.; Mrs. Wallin, Glen Avon, Sask.; Ades, McDouald, Qakiand, Man.; E. Donadil, Qakiand, Mar.; E. Donad, Dryaler, Ont., Su, 2010; Thos. Doran, Crysler, Ont., Box 101; Thos. Biahop, 84 Russell Ave., Ottawa, Ont.; Jas. H. Shaw, 1292 Th Ave., E. Cal. Doran, Crysler, Ont., Box 101; Thus Bishop, 84 Russell Ave., Ottava, Ont.; Jas. H. Shaw, 1929 Zub, Ave., E. Cal-gary, Alia, F. Peter C. Unruh, Waldhoim, Sask.; Gee, W. Goulie, 64 Weilington St., Hull, Que.; Mrs. T. A. Bowes, Quincy, Sask.; Mrs. J. W. Brown, Bonito, Man.; O. Skap-pel, Wilkie, Sask.; L. A. Greggire, St. Boniface, Man.; W. H. Emmer-son, Eyebrow, Sask.; Wm. Knox, 318 Robertson St., Fort William, Ont.; P. Holder, Summerland, B.C.; J. C. Hofge, Macleod, Alta.; Helen Olive Summer, Riveregue Barre, Alta. Summer, Rivereque Barre, Alta. On request, Farm and Dairy res

rs can secure the full text of Prof Gilbert's letter that accompanied decision, together with an invalue free book, "When Poultry Pays." his invaluable W would advise those of our readers who are interested in increasing their profits from poultry raising to write for this interesting literature to the Lee Manufacturing Company, Limited, Manufacturing Company, Limited, Dept. D.F., Pembroke Street, Pem-broke, Canada.



JOHN HALLAM, TORONTO

Poultry Pointers

Look out how you stamp your eggs. The stamp will never lie unless there is a lying man at the handle.

Do not allow anybody to come into your hen house and scare your birds. It is one of the worst things that can be done.

Begin your fight against things that worry the hens now. Mites and such things never wait for a better invita-tion than a few days of neglect. Clean up; keep clean.

To perpetuate health in a flock of fowls breed only the robust and heal thy specimens, making sure that both parents are of healthy and prolific ancestry. Never under any circumstan-ces use a male that is unsound, but rather seek to have him as nearly a perfect specimen as possible.

ELM GROVE POULTRY FARM Rese Omb Brown Leghorns, Silver Grey Dorkings, Light Brahmas, Barred Rocks, Mammoth Bronzs Turkeys, Embden Geese. Some splendid bargains in R. C. Brown Leghorn Cockerels and Pallets; also in Rouen Ducks. Write your wants. J. R. RUTHERFORD, Box 62 Calceles East, Oat

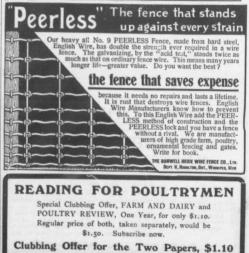
Member of the Leghorn Club of Canada. J. R. HOPE, VILLIERS, ONT. White and Golden Wyandottes, Winners t Toronto and Peterboro, including Sil-

at ver Cup. Cockerels for Sale. - - Edds in season

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

BARRED ROCKS.-Winners at the lead-ing shows of Canada. High grade stock at bargain prices. Write your wants.--Leslie Kerns, Freeman, Ont. FOR SALE .- Two Peerless incubators, 120

or arkin - two recrease includators, iso some Barred Rock and Black Minorea yearling hems: few Black Minorea pul-lets, all well bred. Quantity of netting, 4 and 5 feet: will sell at half value for quick sale...F. R. Oliver, Lorne Park, Ont.



A SUCCESSFUL WINTER FAIR AT OTTAWA

Hom atomay to Friday of late were all pre-vious shows of the kind ever held in that city. The paid admissions in spite of unfavorable weather part of the time, were almost 100 per cent. than they were last greater vear. Taken all around there was a distinct improvement in the number of en-tries, in the quality of much of the stock shown and in the general in-terest manifested. The people who were present seemed to go away well satisfied with what they had seen.

The number of horses shown was atout 50 per cent. greater than last year. There was a slight increase in the number of poultry exhibits. The poultry show held in Canada is now the largest Canada excepting only the one at Guelph. The entries of beef cattle, and sheep were about the same in number as last year. In the hog class number as last year. In the hog classes there was a slight falling off in the number of entries due possibly to the keen demand for hogs having left many of the breeders short of good stock

After some ten years or effort the management of this show appear to have overcome the difficulties that have confronted them and from now on the Ottawa Winter Fair may be expected to grow rapidly in popularexpected to grow rapidly in popular-ity and in educational value. The addition of the exhibit of horses has gone far to add the me and interest to the show that it lacked for many vears.

PROMINENT SPEAKERS

PROMINENT SPLACES The principal speakers at the open-ing of the show were Hon. Sydney Fisher, of Ottawa; Hon. J. S. Duf, Toronto and Hon. Justice Riddell of the King's Bench Division, High Court of Justice, Ontario. Hon. Mr. Fisher thought that one of the rea-moditie was the continual rish from the country to the city. Farmers about not rush in and out of certain lines of farming as many have been farming as many have been to do. Had our farmers not lines of lines of farming as many have been inclined to do. Had our farmers not stopped raising hogs the way many did when prices were low they would have been able to make a large profit from hogs now prices are high. Hon. Mr. Duff hoped that the farm-ers of the two sister provinces of On-friendly connection in the aboving of farm produces at the Ottawa show

farm products at the Ottawa show

THE DAIRY TEST

As usual, considerable interest was manifested in the dairy test. A table of the prize winners is published else-where in this issue. While there were

The winter fair held at Ottawa, ster of Ormstown, Que. She gave 251.7 from Monday to Friday of last week, lbs. of milk during the three days of lbs. of milk during the three days of the test.

A number of splendid lectures were delivered in the lecture room. Some of these were well attended, the lec-ture room hardly being large enough to accomodate the crowd. At others, however, the attendance was so poor that the addresses had to be called off

Elsewhere in this issue are published extracts of the addresses of Messrs. J. H. Grisdale, of the Experimental Farm Ottawa; D. Drummond and E. D. Eddy of the Seed Branch, Dominion Department of Agriculture, tawa. Extracts from the address of Ot-D. Harkness of Irena on "Soiling Crops" and of T. G. Raynor on "The Production of Improved Seed, will be given later

given later. The addresses most enjoyed were those illustrated by live animals in-cluding one on 'Market Classes of Horses," by Dr. H. G. Reid, of To-ronto." 'How to Breed Horses of the Different Market Types," by Wm, Smith of Columbus; 'The Market Val-ue of Good Feeding," by J. H. Gris-ue of Good Feeding, 'by J. H. Grisdale; "The Conformation of Beef Cattle," by Capt. J. E. Robson, of Cattle," by Capt. J. E. Robson, of London, and "Feeding Beef Cattle" by John Gardhouse, Highfield. Some excellent addresses on the handling of poultry were given by A. P. Hill-house, of Bondville, year, and by F. C. Elford, manager of the Poultry De-partment, Maedonald Cellege, Que.

THE EXHIBIT OF HORSES

The principal exhibitors of horses were Smith & Richardson of Columbus and Rolt. Ness & Sons of Howick, Que, who carried off a large share of the prizes with animals of high quality. Other successful exhibitors were Messrs. B. Rothwen, of Ottawa, who showed Clydesdale and Hackneys, Adam Scharf, Cummings Bridge, Dr. R. E. Webster, Ottawa, T. B. Mac-Aulay, Hudson Heights, Que.; Robt. Hunter & Sons, Maxville; Hon. Clifford Sifton, Chas. Groat, Brooklin; Fred Garbutt, Lambton Mills; and

Fred Garoute, Lamoton Mills; and G. H. Pickering Brampton. The Clydesdale championship was won by Smith & Richardson and the reserve championship by Robt. Ness & Son. Robt. Hunter & Sons cap-& Son. Robt. Hunter & Sons cap-tured the championship for the best Canadian Clydesdale, the reserve championship going to Smith & Rich-ardson. The award for the best Cly-desdale in the show was taken by Smith & Richardson, tue reserve championship being awarded to Robt. Hunter & Sons. Smith & Richardson also wan the chammionship for Clydesdan. where in this issue. While there were Huilter & Sona. Smith & Riemruson not as many exhibitors as shere were also won the championship for Clydes-last year the number of animals that dale or Shire mares of any age. The competed was alightly larger. The Hackney championship wont to G. H., sweepstakes cow was a Holdstein, Pickering, Brampton. The principal Rhoda's Queen, owned by Neil Sang.- winners in the light horse classes were Hon. Clifford Sifton and Dr. R. E. Webster of Ottawa.

THE BEEF CLASSES

Senator W. C. Edwards was the leading winner in the Leef classes. His winnings included 1st and 2nd on two year old heifers, 1st and 2nd on yearling heifers, 1st and 2nd on heifers under one year and the champion-ship for the best beef Shorthorn. The latter award was won by Emma 47 This heifer defeated the champion champion Ints neiter deteated the champion steer at Guelph which was also the 5th prize yearling steer at Chicago. Leading exhibitors and prize win-ners in the beef classes were A. A. Armstrong, of Fergus in Herefords; D. McCrea of Guelph in Galburay; Jas. Laark, Grawhank, Law W. Denest Leask, Greenbank, Jose W. Barnett, of Brooklin; Alex. Dynes. of Ottawa; Wm. Ormiston & Son, of Columbus; B. Slattery, Ottawa and A. A. Arm-strong of Fergus, in the grade classes.

AWARDS FOR SWINE

The principal winners in the swine classes were Jos. Featherstone & Son, of Streetsville; Alex. Dynes of Ot-tawa; A. H. Foster of Twin Elm; Wm. A. Wallace of Kars and Robt.

Poultry Magazine Number

The next issue of Farm and Dairy (February 8rd) will be a special Poultry Magazine Num-ber. It will be the first of a arries of eight special numbers, to be issued during 1910., simi-lar to those published last year. Tell your friends about this roscial noultry numbers and con-

special poultry number and get em to subscribe to Farm and Dairy, having their subscrip-tions start with this special number. Farm and Dairy, pub-lished as it is weekly with its magazine number and illustrated supplements, is a great dol-lar's worth. Have your friends avail themselves of it. The last forms for this num-

ber go to press early Monday morning. Advertising for that morning. Advertising for that issue can be handled as late as noon on that day, January 31st.

A. Heron of Billings Bridge. In the dressed carcass competition the s cessful competitors included Geo. Bradley, of Carsonby. dres R

SHEEP CLASSES

SHEEP CLASSES The winners among the exhibitors of sheep included J. Lloyd Jones, Bur-ford J. J. W. Lee & Son, Simcoe; Ed-ward Ward, Greenbank; Telfer Bros., Paris; W. E. Wright, Glanworth; Adam A. Armstrong, Fergus; J. & D. J. Campbel, Woodville; Wm. A. Wallace, Kars; Goo. Baker, Simcoe; R. H. Harding, Thorndale and Geo. R. Bradley, Carsonby.

Training Collie Dogs

To gain the best results and secure the full worth of a collie dog as a stock dog I would say take him while stock dog I would say take him while yet a little puppy, and I strongly emphasize this advice. There are many reasons why we favor the little puppy to the dog nearly or quite grown, asys a writer in the Breder's Gazette. Most collies are sensitive and suspicious, of a fine temperament and this characteristic often makes these answers rather coverally than and this characteristic often makes them appear rather cowardly than brave while cowardice really is not a part of a well-bred Collie, which has been properly cared for and consider-ately handled during his puppshood up to maturity. He should have plenty of courage.

and the habit becomes the next thing to nature with him, and when once formed it is quite difficult to over-come it. If, on the other hand, he is kept under conditions where he can see all that may be doing and so be-come familiar with active life, learning that noises and strange persons do not harm him, he will develop plenty of courage, without which there is but hitle here do is but little hope of great usefulness.

FIRST LESSONS

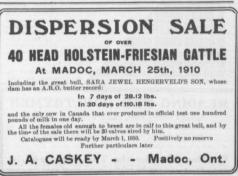
If the puppy exhibits good courage it matters but little how early his training legins. First teach him his name and to come when called. to keep back, "lie down," and similar acts, heeding well these common comacts, needing well these common com-mands. Then as he is taught to drive use gentle cattle which are easily handled. Let him keep back of stock with you at this period, which you drive the cattle to and from the field or pasture without undertaking to teach him, for as he learns by observation he must have the example made plain. He will quickly show a desire to help and then you may take advantage of the act, encouraging desire to help and then you may take advantage of the act, encouraging him in it, and by following up this mode of management he will soon become a driver at the heel, and this should be well established before other should be well established before other work is attempted, giving him plenty of practice, for it is the chief work of his life as he drives the stock in his daily work. When he once be-comes a good driver at the heel, taking a positive interest in the work, then can be easily taught to he then can be easily taught to turn the stock to the right to r left, to h ad them off, stor them, or go alone into the distant fields and bring uie eattle to the barns. He should not be al-lowed to drive fast, that is to hurry the stock, as in this way he is apt to allowed. become careless or develop a disposi-tion to worry them. The moderate worker will succeed the best.

PRECAUTIONS TO OBSERVE

A great mistake may be made and an otherwise good dog become only partly developed in his training and his usefulness lessened by the owner being too anxious for the dog to know being too anxious for the dog to know it all at once, and being over-hasty in scolding or punishing the dog for some error in his work when he really did not understand what way wanted. Never scold the dog for your own errors or when he fails to understand errors or when he fails to understand your meaning, though it require great-self control. They are not here for vent purposes. All investigation de-pends on the faith of somesody. Some one full believed in the hidden my-stery and by persistent work for the desired end gained it. We must be-lieve our little Collie capable of great things and then with careful persis things and then with careful persis-tence and cleer, distinct methods guide him until he sees and attains to the idea of the lesson and when he does the work honest praise belorgs to him, which if given arreves to in-tensify his desire to repeat the act for the master belows. If then as wonder-ful memory never forgotting the thing is here lowered to dot thus we are ha has learned to do; thus we are amply revaid for the care and time used in making the lessons plain.

Corn silagre is one of the best foods feed on the form. It is not good how-ever, when feed alone. Another feed having more protein should be fed with it. Wheat bran, when cheay, gives good results when fed with Ma-age but or recent years it has been exteremely high in price. Alfelfa will take its place.-Henry Glendinning, Manilla, Ont.

Upon well drained land, the clover of courage. A puppy never should be permitted to have a place of refuge, where or hearing a slight noise or unusual dis-turbance of any kind, or at the sight of a stranger, he can run and hide away. He is almost certain to take advantage of such a retrain whenever he has the least cause to be alarmed, or Co., Ont. plant is the best sub-soiler we can have, as it sends its long tap roots down into the sub-soil where its little



Dairy Test, Eastern Ontario Live Stock and Poultry Show, 1910

| AYRSHIRES |
|-----------|
| |

| AY | RSHIRE | 8 | | | | |
|---|-----------------|------------|------------------|------------|------------|---------|
| Name of Animal and Exhibitor. | | | Points | Points | Points | |
| | Lbs. | Per cent. | for | for solids | for | Total |
| Ayrshire Cow, 48 mos. and over. | Milk. | Fat. | Fat. | Net fat. | Lactation. | Points. |
| 1st prize-Spottie, H. & J. McKee, Norwich | 158.6 | 3.8 | 150.65 | 43.82 | .6 | 195.140 |
| 2nd prize-Sarah, 2nd, H. & J. McKee, Norwich | 167.5 | 3.3 | 138.175 | 45.474 | 1.9 | |
| 3rd prize-Victoria, H. & J. McKee, Norwich | 175.6 | 4.2 | 142.375 | | | 185.549 |
| Analysis for a standard and a standard and a standard and a standard | 100.0 | 4.0 | 142.070 | 38.064 | 4.2 | 180.439 |
| Ayrshire Cow, 36 mos. and under 48. | | | | | | |
| 1st prize-Queen Jessie of Springhill, H. & J. McKee, Nor'ch | 1 126.6 | 4.4 | 133.75 | 33.999 | 3.5 | 171.249 |
| 2nd prize-Star's Sarah, H. & J. McKee, Norwich | 129. | 3.5 | 112.875 | 36.339 | 2.7 | 151.914 |
| Ayrshire Heifer, under 36 mos. | | | | | | |
| 1st prize-Scottie's Sarah, H. & J. McKee, | 109.1 | 4.6 | 125.45 | 32.106 | | 157,556 |
| 2nd prize-Peggie Murphy, H. & J. McKee | 109 | 3.6 | 98.10 | 30.999 | | |
| the proof of the starphy in a bracket and the starter and the | 100. | 1 0.0 | 90.10 | 20.333 | | 129.099 |
| HC | DLSTEIN | 16 | | | | |
| Holstein Cow, 48 mos. and over. | And a state | | | | | |
| 1st prize-Rhoda's Queen, N. Sangster, Ormstown | 951 7 | 3.0 | 188.325 | 60.000 | | |
| 2nd prize-Sherwood Daisy, T. A. Spratt | 106.1 | 3.6 | | 62.070 | 1.2 | 251.595 |
| 3rd prize-Maudie De Kol, T. A. Spratt | 100.1 | | 167.475 | 49.575 | 1.8 | 218.850 |
| ora prine anadate De Roi, 1. A. Spratt | . 83.5 | 3.7 | 77.225 | 22.242 | 10. | 109.467 |
| Holstein Cow, 36 mos. and under 48. | | | | | | |
| st prize-Pauline Posch, N. Sangster | . 181.7 | 3.0 | 136.275 | 46.278 | | 182.553 |
| Ind prize-Queen E., T. A. Spratt | . 133.7 | 3.6 | 120.325 | 38.544 | 1.5 | 160.369 |
| | | | | | 110 | 100.009 |
| J | ERSEYS | | | | | |
| Jersey Cow, 48 mos. and over. | | | | | | |
| 1st prize-Regia's Flower, N. Sangster | . 82.9 | 6.4 | 132.625 | 25.167 | 6.9 | 164,692 |
| | | | | | | 201.000 |
| SB | ORTHO | RNS | | | | |
| Shorthorn Cow, 48 mos. and over. | | | | | | |
| 1st prize-Lady M. Glory, A. H. Foster, Twin Elm | . 124.8 | 3.8 | 118.55 | 36.690 | | 155.240 |
| Shorthorn Cow, 36 mos. and under 48. | | | | | | 100.040 |
| 1st prize-Maid of Braeside, S. Bray, Enfield | 110.7 | 3.6 | 106.825 | 12 640 | | |
| the price statu of braceduc, is, bray, Edineid | 110.4 | 9.0 | 100.025 | 33.507 | | 143.320 |
| | GRADES | 1 | | | | |
| Grade Cow, 48 mos. and over. | A STOCK AND AND | | | | | |
| 1st prize-Maggie, T. A. Spratt | 2 000 | 3.6 | 183,550 | | | |
| 2nd prize-Dora, N. Sangster | 202.0 | 3.0 | | 55.683 | | 244.233 |
| Ind prize Noney D A Honory | 101.0 | 3.7 | 178.300 | 56.937 | 6.4 | 241.337 |
| 3rd prize-Nancy, R. A. Heron | . 181.8 | | 168.150 | 49.794 | 1.9 | 219.844 |
| 4th prize-Brownie, R. A. Heron | . 175.2 | 3.5 | 153.300 | 48.405 | | 201.705 |
| 5th prize-Rosella, R. A. Heron | . 180.7 | 3.4 | 153.595 | 47.811 | - | 201.406 |
| Grade Cow, 36 mos. and under 48. | | | | | | |
| 1st prize-Peg, R. A. Heron | . 140.3 | 3.3 | 115.747 | 39.246 | 2.5 | 157,493 |
| 2nd prize-Tiny, R. A. Heron | 139.2 | 3.3 | 114.825 | 37.269 | 6.0 | |
| 3rd prize-Dinah, A. H. Foster | 95.7 | 3.9 | 93.300 | 27.042 | | 152.094 |
| Grade Heifer, under 36 mos. | | 0.0 | 20.000 | 67.042 | | 120.342 |
| torade nearer, under 30 mos. | | | * | | | |
| | . 119.3 | 3.6 | 107.350 | 31.707 | - | 139.057 |
| 1st prize-Laura, T. A. Spratt | | | | | | |
| 2nd prize-Baby, Alex. Dynes. | . 87.7 | 4.0 3.5 | 87.700 77.950 | 26.808 | | 114,508 |

Our Veterinary Adviser

BAR.

······· SEQUEL TO INFLUENZA.—Mare had in-fluenza has detoher. In a few weeks a swelling appeared over the right nostril. This was bistered, and nearly all disap-peared. In a few weeks longer the other she had difficulty in breathing through her nostrils, making a snorting sound. Now she breaths easier but is not right yet. Two veterinarians who have treated her say the cas cure her easily, but he has been freuing her for a month, and one says he cas cure her easily, but he SEQUEL TO INFLUENZA .- Mare had in-

Well DRILLING MACHINES s and styles, for drilling eithe wells in any kind of soil or rock eels or on sills. With engines o trong, simple and durable. An erate them easily. Send for catale WILLIAMS BROS., Itinaca, N. Y.

patient are in a much better posi-tion to diagnose and prognose than any person who has not seen her. If the trouble is due to a growth in the nostril and this cannot be removed by an operation all that can be done is to blister the skin in the region of the enlargement and give her io-dide of potassium in one dram dose three times daily. If the trouble be three times daily. If the trouble be in the throat practically nothing can be done. My advice is to allow your veterinarian to continue treatment He evidently knows what the trouble

Your veterinarians, having seen the

is and thinks he can effect a cure. Do not be discouraged because he not done so in a month. If he effects a cure from six to 12 months you should be satisfied.

LUMP JAW .- Give symptoms and treat-ment for lump jaw, and state whether the

she is not yet right.-C. F. H., Victoria milk of a diseased cow is fit for use. Sub., Regina, Sask

A tumor forms, usually in the re-gion of the head or throat, but may be in other places. In some cases the bone becomes involved, in others not. bone becomes involved, in others not. In some cases the tumor breaks and discharges pus, while in other cases it does not. In advanced stages where the jaw bone is involved, the teeth become loose and the patient can-not cat well.

Treatment :-- When the bone is not involved, dissect tumor out. Where it is give iodide of potassium three times daily. Commence with one dram doses and increase the dose by half dram daily until she refuses food and water, fluid runs from eyes and and water, fluid runs from eyes and mouth and the skin becomes scruffy. When any of these symptoms become well marked cease giving the drug. Repeat treatment if necessary in two months. Some cases do not yield to treatment. The milk of a diseased cow is not considered healthful.

Our Legal Adviser

RIGHT OF TENANT FARMER.-1. A rented a farm from B with horses and implements furnished, for the sum of \$300 a year for four years. The agreement rented a farm runs $t_{\rm c}$ for the sum of \$300 a year for four years. The agreement complements furnished, for the sum of \$300 a year for four years. The agreement coves and kept them till Jane. One was farrow, B sold her to the butcher, con-sequently knocking A out of \$25, as B did not buy another cow at all. Is A entidial to this amonohi? L agrees to pay finze to this amonohi? L agrees to pay finze best part of house, and also some stable room, and barn and drive house; should B pay taxes for that which he correlated the agreement does not mention this. 3. B has ceased to furnish them, its mot J best pay the the final stable houses and A has to furnish them; its mot J ed A, five per cent, for his horses; shand A five per cent, for his horses; shand

broken his contract " B claims he observed et A five per cent. for his horses, what's for another year? 4. B wanted to raise the rent for another year? 5. B wanted to raise the rent to \$35 for another year after A hand furnished the horses simply because A has the farm in better shape by having a large portion of it under how erop. 4. We this as temant farmer illowed to 4. We have a temant farmer illowed to 5. We have a temant farmer and a when he leaves a farm? Can be take corn stalls from which corn has been taken, and also ensilage corn? Do orn stalls come un-der the healing of straw in the farm arreement -C. S., Frince Edward Co., Ont. It is impossible to assess the none.

It is impossible to answer the questions satisfactorily without an oppor-tunity of perusing the agreement in question, for it may be the contents as stated in the questions may not cor-respond with the language of the agreement. 1. If the agreement requires

"B" to supply nine cows for the full per-iod of four years, then "A" would be entitled to damages for breach of

Do entitled to damages for breach of contract, but possibly the agreement does not go so far. 2. We presume the agreement per-mitted "B" to retain possession of portions of the house, barn, etc., and if "A" agreed to pay the taxes in addition, he must pay them, and will not be entitled to recever any peet from "B". 3. The answer to this question de-

o. The answer to this question de-pends on the language of the con-tract, and the remarks made by us in answer to question one will apply to

this. 4. "B" certainly cannot raise the rent during the period of four years unless the contract expressly gives

timess the contract expressiv gives him that power. 5. The tenant is entitled to take away all food stuffs unless the agree-ment expressly prohibits him from so doing. If the agreement merely predoing. If the agreement merely pro-vents him from removing straw, we would consider that he is not pre-vented from removing corn stalks.

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OUR PROTECTIVE POLICY We want the readers of Parm and Dairy to feel that they can deal with our vertisers' reliability. We try to admit to our columns only the most reliable ad-vertisers. Housd any subscriber have used the receives from any of our adver-tisers, we will investigate the algorithm. inear the receives from any of our adver-tisers, we will investigate the director-stances fully. Should we find reason to believe that any of our advertisers are un-reliable, even in the alghtest degree, we tion of their advertisements. Should the our advertisements which discover them through the columns of the paper. Thus we will not only protect our read-all that is necessary to entitie you to be benefits of this Protective Folicy is that you include in all your letters to adver-tisers the words. "I away your ad, in Farm us as soon as possible store to go for dissatifaction has been found. FAR BM & AND D TATEV

FARM AND DAIRY PETERBORO, ONT.

RACE-HORSES AND GAMBLING

Much of the evidence given before the special committee appointed by the House of Commons to consider the bill to suppress race-track gambling is amusing to our hard-headed farmers who are interested in the greater horse breeding interests of this country. The opponents of the Miller Bill to prohibit race course betting, judging from their testimony, are convinced that the standard of the Thoroughbred horse can only be obtained and maintained by racing and that interference with the legal right to make wagers on the course would deteriorate or destroy racing.

Several of those whose expert testimony was heard claimed that few race-horse owners in Canada make expenses meet even with the present sized purses and that all would retire if this bill was passed; that it would certainly kill racing. If the game is such a losing one to breeders under present conditions, why not let it be dropped? Why bolster it up with legalized betting, which has been the ruination of so many?

Let horse-racing die its natural death as the opponents of Mr. Miller's bill claim will surely be its fate if the bill is passed. It would be a distinct gain to the agriculture of this country, for then more attention would be devoted to raising such horses as are in demand at remunerative prices. Again we say, let racing die if it cannot live without its gambling features and let Mr. Miller's Lill receive hearty support.

CANADA'S CONSERVATION COM-MISSION

The Conservation Commission that convened last week at Ottawa may well be looked to for instruction and leadership on those problems concerning our natural resources. The work in which this commission is engaged is a great one and is not begun too soon. In the accomplishment of its purpose, greater things than have been will surely develop.

That we should seek to conserve the abundance of nature's resources lavished upon this fair land, not for the enrichment of a few trusts, but for the service of all the people, is most laudable. Conservation of our Canadian natural wealth of water, mine and forest, our agriculture and our citizenship, is but the taking of those steps that will the sooner place this country in the fore-front of nations. Great things are to be expected of our commission on conservation, and judging by the proceedings of its first annual session, we are not to be disappointed.

WEED LAWS ARE EFFICACIOUS

"I find men who a short time ago were prominent growers of weeds now pushing for the enforcement of the Act."-J. J. Golden, Deputy Minister of Agriculture, Winnipeg.

This is but one of the several advantages mentioned by Mr. Golden when writing to Farm and Dairy in regard to the stringent weed Act in force in Manitoba. Other benefits noted were that it educates the farmers to the danger of weeds; and it makes them more careful and brings home to them the necessity of destroying weeds, whereas before the passing of the Act there was comparative indifference upon these points.

Manitoba is not alone in having taken up this matter of weed control. The province of Alberta also has proved the efficacy of an Act respecting noxious weeds. The Seed Control Act passed by the Dominion Government and which has been in force now for some years, has been of distinct advantage, not in compelling farmers to sow clean seed unless they wanted to, but rather that it offers them the means of protection against sowing weed seeds unknowingly.

Weed laws as we know them best, therefore, have proved to be real benefits. Those who know sow thistle from dire experience with it on their farms, to whence it came from a neighbor's farm and perchance a distant one at that, hold up both hands in favor of legislation seeking to control sow thistle. They anticipate that action will no further be delayed but that the Ontario Legislature this session will seek to enact such legislation as will effectually control that pest.

THOSE WHO STOOD BY SWINE

Fortunate is he who has hogs for sale these days. Prices never were so high before. While there has been general increase in the cost of feeds, it is quite certain that those with hogs for sale-hogs that were raised on the farm and were fed with home grown products-are making handsome profits.

The situation justifies those who, like Farm and Dairy some time ago, gave counsel to stay with the business when we all were rushing out of hogs. The wisdom of that counsel is now most evident as it has been on former occasions. May we hope that this experience in the hog business will tend to lend a greater stability to any branch of agriculture that is in the best interests of the country and which has proved to be one of profit.

A DUTY OF THE SEASON

The advantages of a supply of ice upon a dairy farm are so evident that it is a wonder that this question needs to be constantly urged upon the dairymen of this country. Cheese-factory men, creamerymen, dairy authorities in general admit that the question of cooling milk and cream in the summer months is the great need of the business. Especially is it so in connection with the creamery business. Enormous losses which producers evidently do not fully realize, are common to this business. These losses every time, are borne by the producers, not by the creamerymen.

As producers it is up to us to store ice. We need to place ourselves beyond the reproach of the manufacturers and the dairy authorities interested in the business and make it impossible for anyone to characterize as "a monstrosity," a patron of a creamery who stored and used ice.

Only the simplest of buildings is required for an ice house. Ice in this country for the most part is as free as the air. All it costs is the labor of storing. It is our duty as milk producers to store it. Shall we be found wanting in this particular when the summer season again rolls around?

APPLY WOOD ASHES TO THE SOIL

Enormous quantities of wood ashes are exported annually from this country. The returns from the Department of Customs, Ottawa, show that recently in one year, \$43,393 worth of ashes were exported from Ontario. In all probability they were bought from the original owners for not more than five cents a bushel.

These ashes would bring much greater profits if kept at home and applied to the soil. When properly applied as a fertilizer they are of great value for increasing bot' .ne quality and the quantity ... the various crops of the f .m and garden. Wood ashes e : rich in potash, phosphoric furnished for that purpose.

acid and lime. Professor Gamble of the Ontario Agricultural College, estimates that wood ashes contain on an average seven per cent of potash, two per cent of phosphoric acid and ten per cent of lime. Were we to buy the two former elements at current market prices for artificial fertilizers, the investment would many times exceed the paltry sum received from the ash dealer. It is evident that we can ill afford to sell ashes off the farm.

But in addition to this loss through the export of ashes, tons and tons of this valuable fertilizing material are allowed to go to waste through being exposed to rains. Some means preserving wood ashes until they can be applied to the land should be a part of every farm. We need to appreciate more fully the dollars and cents value of this product. Thousands of acres of land in Ontario are deficient in potash and many of the crops of the farm, especially vegetables and fruits, are in particular need of this constituent. Let us then discourage the ash dealer in his business and preserve this fertilizing material and apply it to our own soils that too often are in such dire need of it .

PRIVATE TESTING WITH TUBER-CULINE

Each livestock man has it in his power to hold in check bovine tuberculosis among his own stock. Were all stockmen equally active and willing to comply with the conditions necessary to eradicate this dread disease, the ultimate results would be highly satisfactory. It is now generally believed that from eight to ten per cent of the cases of human utberculosis are caused from bovine tuberculosis. As stockman our responsi-Lility is great.

The absolute reliability of tuberculin as a diagnostic agent is a debated question. But there are few of us that would not rather have a herd of non-reacting cattle than a herd, a number of which would react to the tuberculin test . We have not yet reached that stage where compulsory testing and the slaughter of all reacting animals is advisable, although many medical men and some veterinarians whose zeal outruns their discretion, advocate compulsory testing. In private herds, where there is even a slight suspicion of tuberculosis, it is wise to have the cattle tested and, should there prove to be reacters, to quietly dispose of them to the butcher. Animals with pronounced symptoms of the disease should be destroyed outright.

The Veterinary Director General's Department at Ottawa, of which Dr. # J. G. Rutherford is at the head and which has now apparently decided that it is time to begin some action looking towards the absolute control and if possible the complete eradication of this disease, supplies on the request of owners of cattle who desire them tested, tulerculin free of charge to any reputable qualified veterinary surgeon, on condition that he send to the Department the results of the tests made by him on charts that are

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Results of Underdrainage*

Wm. H. Day, O.A.C., Guelph

Wm. H. Day, O.A.C., Gudph In the spring of 1909 the Depart-ment of Physics, which for several years has been making drainage sur-years for farmers in all parts of the Province, wrote a large number of the men for whom surveys had been made in 1906, 1907, and 1908, asking them if they had put in any of the drains surveyed by the department, and, if so, to give their experience, paying special astention to cost of difference in growing crops, and in-crease in yield. A few others who had done drainage in earlier years were allow written to. Quotations from a few of their letters under their own mes follow: nes follow:

William Bell, Washago, Sime

Writiam Beil, Washago, Simcoe: "I drained eight acres you surveyed for me in 1907. It had produced nothing previous-ly. Last year I grew a fairly good crop of oats on it, which yielded 35 bushels an acre. Following is a statement of outlay Ind results: Cost of draining 8 acres, \$290.90-\$35.11

and remains and remains a area, 19950-35,31 and area; building a ścinch main to drain Returm-35 buhela oata at 46 cente-\$115,00, nearly half cost of drainage, and straw yet to be accounted. "T. 8. Biggar, Manager, Walker Bon, Walkerlik, Back, "On cur drained land valkerlik, Back," On cur drained land corn an acre, while the undrained gave us only 65 bushela. Of on undrained. In 1966 the drained hand gave us twice as much as the undrained. We have tilled of acres this year, and purpose tilling J. H. Clare, Chapman, Hastings: "Pields that previously were unif for crops at all can now be seeded on even date with high land; and, while lefor the grey much

land; and, while before they grew noth-ing but coarse grass, now they yield per

ing Dut coarse a.... acre: acre: Barley-30 to 50 bushels. Data-40 to 100 bushels. Corn-14 feet high. James Glayton, Cedar Springs. Kent: James Glayton, Cedar Springs. Kent: James Glayton, Cedar Springs. Kent: acress the fence was not drained. In 1952 both fields were sowed to beans; 8 acres drained land gave 330 bushels, which sold for \$456; 8 acress undrained land gave 234 "Gain, 8418, nearly four times the cost of drainage."

of drainage." Author's Note: This example shows the value of underdrainage in special-

Author's Note: This example shows the value of underlrainage in apocial-"In 1980 hours and approximate the second energy of the second second second second acres is acress drained gave 25 bushels per acres. Gain, 30 bushels of wheat an acres. 198-There was drained land on bushels acress undrained gave 25 bushels per acres. Gain, 30 bushels of wheat an acres. 198-There was drained land on bushels acress of the second second "Authon bod, Post's Commer, Victoria, "I drained a 198-arc field some 15 years ago at a total cost of 5145, or 51450 an acre, the drains being four rods apart and 2% feet deep. It was a muck soil from a foot to it four and a half from a foot to it four and a half of the drains being four rods apart and 2% feet deep. It was a muck soil from a foot to it four and a half for draining it was the wettest field on the farm, and would grow only hay and oats, and never was more than half a cop of them, and often not that, and was it is the before Jenes filmed film farm. It has been sown in April every year but one since it was drained. The farm, like sbeiter right over the drains that halfway between." P. W. Huuley, Satton, Nork: "We drain-that formerity was conside to on land that formerity was conside to we for anything but meadow." William Land, Prantford, Brant: "I think underdraining the best investment 1 ""

William Lamb, Brantford, Brant: "I think underdraining the best investment I can make on my farm." Grained five acres, with Grains 20 feet apart (10 rode on five acres). Drained an-other field, with drains 30 feet apart and 5 feet deep. In each case the gain in the arms crop paid the full cost of the drain.

age. "My general conclusion is this: Where drainage is at all required, its entire cost

*Extract from the O. A. C. Bulletin, Farm Underdrainage. Farm

will be repaid by the increase in the first

FARM AND DAIRY

will be repaid by the increase in the first two erops, but in most cases by the in-crease in the first crop alone. Our own ex-perience is the latter." A. Leach, Farm Manager for W. F. Mac-lean, M. P. Donlands, York: "The cedar awamp field south of the barn, which you surveyed, and which, as you will remem-ber, was so wet, even in the driest part of the summer, that one could not walk cober, was so wet, even in the driest part of the summer, that one could not walk on it without goiting wet, was drained last rains which synch all upic of the heavy rains which synch all upic the source of when we came to cultivate it, although much of our land is high and rolling. The cros sowed on it is coming on fine, and gives source on it is coming on fine, and gives source indication of good, stiff, strong James Marchall, Hamilton Wastweethe

James Marshall, Hamilton, Wentworth: "In 15 years I have put in over 20 miles of "In 15 years I have put in over 25 millions: drains on my farm, and my only regre-lis that I have not used more of my spare time and attention to complete the under-draining and bring the whole farm into a drained a 12 actor field, at a cost of 540, almost 540 an acre. drains being 25 to 30 feet apart and 3 feet deer. The next year this field yielded 40 bushels of oats per acre, but not draining 35 bushels of oats an acre by drainage." Author's note: Yalue of 80 bushels at 60-day's market price, \$20.

at to-day's market price, \$30.

Check the Spread of Tuberculosis

"The dairy business is of too much importance to allow it to be conducted Importance to allow it to be conducted as it is by some people engaged in it. I would be criminally derelect, know-ing what I now know, if I did not sound a note of warning to my fellow dairymen in reference to the spread of tuberculosis," said Mr. J. R. Darga-nel, M. L. A., in addressing the ro-cent Eastern Ontario Dairymen's As-sociation Convention as Relavile. "This dread disease even now exists to a much greater extent than is to a much greater extent than is known to the ordinary men of the province

"For many years we have been housing our herds in warm stables, many of them, yes, most of them, poorly lighted and ill-ventilated. Tumany or mem, yes, most of them, poorly lighted and ill-ventilated. Tu-berculosis is essentially a house dis-about the great moral responsibil-roper and efficient measures to pre-about the great moral responsibil-proper and efficient measures to pre-tive are under to supply our cus-vent the propagation and spread of a housing of our cattle, as a rule, is of tomers with only pure and healthful disease which, if not checked, will tally favorable for the propagation of

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INE NORE JUDERAL Looking over The Home Journal, you can scarcely believe it is the same mag-sine that you knew a year ago, it has doubled in size-in quality-in attractive forty page monthly-mail of today is a forty page monthly-mail of today is a forty page monthly-mail of yourd Canadian women can justly be proud.

Farm and Dairy

PETERBORO, ONT.

Enclosed find \$





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Creamery Department creamery industry. Chas. Reade in loads are checked as soon as they one of his books says, "Better is a come in Since they never allowed bright cornarde on the weary road anything less than an ehalf pounds, the cream haulers' weights tailied Creamery Department The second secon

Get Scales for Testing Cream

C. A. Davies, Victoria Co., Ont. For some time I have been consider-ing the advisability of using the scales for weighing my cream samples for testing and since reading an editorial Farm and Dairy of Jan. 12, I have fully decided to use the scales. I have studied the principles of the

test and am fully convinced that we as creamery men must do all in our to satisfy our patrons.

In all cream gathering creameries here is such a vast difference in the richness of the cream received. With the pipette system of testing we are encouraging the sending of thin cream and that is something we should strive to keep at a minimum. We want a clean flavored, rich cream which is much easier kept sweet and with a much easier kept sweet and with a rich cream the patron has more skim milk for feeding purposes.

By using the scales our over-run may be lower but we will have the satisfaction of knowing that our patrons are all used fairly. I heartily en-dorse all that Mr. Newman has said about this matter and will do as he has requested: viz., second his motion that all creamerymen adopt this method of testing cream.

Note.—What have other creamery-men to say about this matter? A full discussion upon this question is in order.—Editor.

Brighter Men Needed *

Prof. H. H. Dean, O.A.C., Guelph It is no reflection on the men at present engaged in creamery work to say the business would be improved if brighter men were attracted to and remained conected with the

*Extract from an address delivered to recent Dairymen's convention in



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into modern dairy language we might say, "Better is a bright buttermakin the creamery than an automo-le or an air-ship for gathering er i bile cream

We need men like Goldsmith speaks of in his "Deserted Village." "He tried each art, reproved each

dull delay Allured to brighter worlds and led the way."

the way." These are the men who hold the destiny of the creanery business in their hands. But we must not ex-pect all to be clear suiling. The creanery business has its us and d'wans like everything clear (argige expresses this idea in one of his approximations, "The brightest tramph aphorisms. "The brightest tramph has a bar of black in it and might always have been brighter." Anoth-er writer says. "We hesitate to call er writer says. "We heatate to call pain and sorrow evils, when we re-member what bright characters they have made." All this leads us to express the hope that our dairymen shall not grow discouraged at results below expectations, nor give up because of apparent failures.

ADVANTAGE OF INSTRUCTION. A term at the Dairy School will give a man encouragement, insight into the creamery business and enable him to solve creamery problems which can not be solved so easily in any other way. There ought to be double the way. There ought to be denote the number of students at present in at-tendance at the two Dairy Schools of the Province. The founder of Cortendance at the two bars, the Province. The founder of Cor-nell University, located at Ithaca, New York, said, "I would found an institution where any person can find instruction in any study." Our Dairy Schools ought to be institutions here any dairyman can find inwhere any dairyman can find in-struction in any branch of dairying. To sum up the creamery problems they may be grouped as follows:

How to get more cream per cow, per acre and per farm.

How to get more butter per gallon r per 100 lbs, cream.

How to get more money per pound

How to get better cream, better but-ter, and better managed creameries. And finally how to secure and retain brighter men, better educated men-men whose hands, and minds and hearts are in the creamery work. In this latter is to be found the main work of the revolving arm chair buttermakers, who may not know all the details of buttermaking and creamery practice, but who are, or should be, an inspiration to the toilers on the farm and in the factory.

Instruction and Equipment of **Cream Haulers**

"The cream haulers for the cream-ery operated in connection with the Guelph Dairy School, are provided with spring balances for weighing the gram." cream," said Mr. Stratton of the Guelph Dairy School, in discussing this matter at the recent creamery meeting held at the O.A.C. Samples meeting heid at the O.A.C. Samples are taken with the ordinary dipper and carried to the creamery in oil-test bottles, which fit into a neat case provided for the purpose. The samp-les are taken after the cream has been les are taken after the cream has been poured into the creamery pail; they have always worked out all right." Some doubt was expressed as to the spring balances being lawful. Mr. Stratton replied that such a scale was lawful for dairy purposes. When Stratton replied that such a scale was lawful for dairy purposes. When they first started using scales, they had equipped the haulers with beam scales. The spring balances proved much more satisfactory. The scale used has a capacity of 60 pounds. A pot hook at the lack of the cream bander with summark the scale while hauler's rig suspends the scale while

come in. Since they never allowed anything less than one-half pounds, the cream haulers' weights tallied well with those at the creamery. Some days the hauler were allowed days the hauler was a little ahead, again he was somewhat behind. From their experience, Mr. Stratton said that he would certainly recommend the scales for cream haulers. Mr. J. W. Newman of Lorneville, while dis-cussing this subject, said that he had spent money on spring scales and the inspector had taken them away from him. Since then, he had been sus picious of such scales. The main The main picious of such scales. The main thing is to have the weighing properly done. "Cream drawers," he said, "could run away with one's profit and one's business. They need a great deal of instruction. I always go with a of instruction. I always go with a new man and instruct him just how to do the work.

"There is no use of one attempting to get a good sample by simply stir-ring it with the dipper. It must be ring it with the dipper. It must be poured. I have our haulers pour the cream until they are satisfied that it is mixed thoroughly. I would counsel anyone not to change cream haulers, if he have a good one for the sake of a little extra money. Not unlike a little extra money. Not unlike butter makers, the older the cream hauler gets in the business, the wiser

the becomes and the more he is worth." "The Silver Creek creamery when our company took it over," said Mr. our company took it over," said Mr. Forester, manager of the Pure Milk Company, Hamilton, "was using jack-eted cans and they measured their cream with the stick. The weights at the creamery tallied well with the measure but at the end of the month, the samples were found to be incor-rect. We did not get as much butter rect. We did not get as much objecter as we paid for pounds of fat. We thought that the cream haulers had not poured the cream sufficiently be-fore taking the samples. We put in the individual cans. These have

in the individual cans. These nave stopped the leak. "Rather than risk the mistakes of cream haulers, we installed our pre-sent system of individual cans. The waker now takes the samples and weighs the cream. In this way one man is responsible for the weighing and testing instead of six."

Thickeners used in Cream

It is pretty well known that a numbe of articles called cream thickners are on the market. These are intend-ed to be added to cream for the purpose of giving it an appearance of greater density and richness than it would exceed the construction of the second of greater density and richness than it really possesses. Gelatine is a constituent of most of them; but calcium sucrate (Sucrate of lime) gum calcium sucrate (Sucrate of lime) gum tragacanth and other substances are often present. Some of the cream samples of this collection were ex-amined for 'thickenest', and evidence of gelatine was quite definitely found in four sampler while carcitient. in four samples; while reactions sufficiently clear to justify a declaration of trace of gelatine were obtained with nine other samples.

Evidently cream producers of Canada are not above suspicion of employ ing those entirely dishonourable meth ods of giving a fraudulent appearance of richness to the article. This mode of richness to the article. This mode of fraud is particularly harmful in cases where a Dairy Company counts y of the use of thickeners. It be the aim of such company to among its guilty may be the aim of such company to supply honest cream; but, by inter-mixing ignorantly, a few gallons of the sophisticated article, a whole day's output may be contaminated. Of course, in such case, the company must be held responsible, should adu-teration be detected. It is quite true that the outly natron of such a cm. teration Le detected. It is quite true that the guilty patron of such a com-pany could not possibly reap any advantage to himself, provided that his cream was sold on its fat conthe tent; but agents interested in the sale of these 'cream thickeners,' have Previous to its use, the creamery as to lead the purchaser to believe had used the measuring stick. All

by their use. The only safeguard by their use. The only sateguring which a Dairy Company can have, is the periodical testing of its cream for these thickeners.—A. McGill, chief Revenue Department.

Securing Cream of High Quality in Saskatchewan

W. A. Wilson, Supt. of Dairying Every attention that can be legiti-Every attention that can be legiti-mately enforced without injury to the work is being given to the quality of the crean delivered at the creameries in Saskatchewan. All the patrons are supplied with thermometers, which are tested and guaranteed correct before being sent out. Instructions for their use accompany them and managers are instructed to re-sonably insist upon the cream are ing at the creamery at a temperature of 55 degrees or under.

Patrons are asked to skim a 35 per cent. cream. Without exception creamery managers report the best cream coming from patrons who are sending rich cream. A man who is careful enough to skim a rich cream usually takes extra precautions in car-ing for it. The individual who sends ing for it. The individual who sends a 20 per cent. cream or under is very often the reverse. COUNTERACTING INDIFFERENCE

If he can be induced to skim a 35 per cent. cream his indifference and carelessness will to some extent be counteracted and the average quality of the cream improved. Our efforts were rewarded last year by the aver-age increase in the fat content of

age indecase in the fac content of cream by six per cent, the season's average being 28 per cent. In all our work we endeavor to make butter with splendid keeping qualities as our best markets have to store Lutter for a considerable length store butter for a considerable length of time. It is owing to this fact that butter made during September or the early part of October is preferred to that of any other month during the year. This is during the period that the weather is cool and before cows are put into the stable.

are put into the stable. INDIVIDUA CANS The old system of gathering cream in jacketted cans is being gradually replaced by individual cans. At the present time only cream waggoons are using jacketed cans. When satu-factory arrangements can be made on these routes they will be replaced. The individual can is a strong feature in favor of quality. It permits the manager to criticise, reject the cream and instruct the patrons. It also induces greater care on the part of the patron from the very fact that he knows his cream is subject to the judgment of the buttermaker, which is not the case when the large gathering cans are

The Babcock Test is the 'bug-bear' of the creamery business to-day. The farmer is kicking and he has a right to kick. Those who are responsible to kick. Those who are responsible for making tests of cream with the Babcock test have not made the study of the test that they should. They have tried to do their best, but that t has not been good enough. Newman, Victoria Co., Ont. W

Renew your subscription now.



Frank Herns, Chief Instructor

Twenty one of the factories have cool curing rooms, eight more than last year. Some of these were not supplied with ice the past season, but the rooms have been insulated and the temperature. We hear of several ther cool curing rooms likely to be ther cool curing rooms likely to be installed this winter ready for next year's operations. Patrons are each year beginning to realize the neces-sity for cool curing along with cool milk, and are in some cases willing to assist the makers in erecting modern cool rooms. They are beginning to see the folly of making fine cheese and then putting them in curing rooms the temperature of which can-not be controlled, with the result that the cheese are inferior when inspect-ed, although they might have been the finest when made, and would have continued so had they not been heated. It is quite evident that had the money spent in past years in many cases on substitutes for insulation, such as sub-earth ducts, ice boxes, fans and so on, been spent in insulation, our curing rooms would been in far better shape to-day. have How ever, we are beginning to realize that nothing will take the place of insula-tion, if we expect to control the tem-perature in our curing rooms.

THE CULTURE. There are 188 factories now using a Intere are 188 factories now using a pasteurized culture. This is a great improvement over the old ordinary milk starter or none at all. The mak-ers are each year becoming more fa-miliar with pasteurized cultures and are using end induced cultures and miliar with pasteurized cultures and are using good judgment in handling them. We wish, however to mention here that it is just possible that some makers may get a little careless at times in handling this culture, allow-ing it to become over ripe and of poor favor. If such culture is introduced by the off milds, the result will certain-phore off milds, the result will certain bowing at the time of shyment, out in the buyer's hands later on if the cheese are held. The Instructors do their best to keep these cultures in proper shape.

keep these cultures in proper shape, but if they are neglected in any way by the maker and become off-flavored they will sow the seeds which may cause off-flavor in many cheese be-fore the instructor can make his reg-ular visit and discover the difficulty, I would urge the makers to pay par-ticular attention to the cultures. A ticular attention to the cultures. As soon as signs of off-flavor are observed secure another. Cultures with an acidity of from .7 to .75 per cent., are in the Lest condition for use and for propagation from day to day. All utensils which come in contact with the culture should be thoroughly ster-As ilized as it is useless to pasteurize the milk for a culture and then allow to become contaminated by coming in contact with unsterilized utensils. Dipers with holes in the handles,

1.2

19

"Part of Mr. Herns' report as delivered at the Dairymen's convention at St.

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

WANTED TO BUY.--Small cheese factory in large farming district, where factor-ies are not close together. Western On-tario.--Box 35, Farm and Dairy.

WANT TO HEAR of a good place to start a creamery. State extent of country to draw from and particulars. Western Ontario.-Box 44, Farm and Dairy.

wooden paddles, or anything but a wire handled solid dipper should never be used for stirring a culture. The thermometer should be sterilized by dipping in boiling water before com-ing in contact with the culture. ALKALINE SOLUTION.

There are 189 factories using the acidimeter. The system followed the past season of having the instructors make most of the solution as they pass from factory to factory seems have given satisfaction, and very lit-tle complaint has been received this year regarding solution not uniform in strength. Many of the makers in strength. Many of the makers make their own solution after secur-ing a supply of correct standard acid. The instructors were supplied with standard acid of proper strength by the chemical laboratory at the O. thus ensuring the standard acid C., thus ensuring the standard acid would all come from the same source. I would like to express thanks to the chemical laboratory for supplying us with this standard acid. I might here mention that I think it would be a good plan for the makers, particu-



John H. Scott, Exeter, Out. President of the Western Ontario Dairy-nen's Association for 1910.

larly the younger makers, not to en-tirely discard the hot iron or rennet test but use them occasionally along with the acidimeter, and keep per-fectly familiar with these tests, as they come in very handy at times. ADULTERATION OF MILK.

Forty five cases of adulteration of milk were reported by the instructors, milk were reported by the instructors, these were looked after by the special officer appointed for this work, and fines ranging from \$5.00 to \$50.00 were imposed. Three cases were de-fended, but conviction was secured. One case was appealed by the patron from the magistrate's decision before a country judge. The magistrate's conviction was sustained, the patron paying the cost of appeal.

A Great Danger to our Export Trade*

J. A. Ruddick, Dairy Commissioner Ottawa.

For some years past, especially since we began shipping our cheese so green, merchants in the Old Counso green, merchants in the Oid Cont try have complained a great deal about the shrinkage, and the losses which they sustain in this respect. They point to the fact that there is seldom any loss on New Zealand cheese, because the practice is for the New Zealand factory to allow 1½ per cent. off marked weights. I do not suggest that Canadian factories could make an allowance for shrinkage. This sort of thing will adjust itself in the price paid for the goods. The thing that I want to draw attention to is *An extract from an address delivered before the recent Ontario Dairymen's Associations.

actual weights of an entirely differ-ent character from that which is due to shrinkage

Since this matter was first brought to my notice, I have been at some pains to collect facts concerning it, but I have hesitated for certain rea-sons to bring it up for public discussion. It has reached a stage, how-ever, when some effort must be made to have it remedied.

OVERMARKED WEIGHTS

I have secured the record of the weighings of 68 lots of cheese con-taining in all 7,131 boxes, among which there were 219 boxes wrongly marked as I have described, the errors varying from four pounds up to 12 pounds per cheese. Any differ-ence of four pounds and over could not possibly be due wholly to shrinknot possibly be due wholy to shrink-age, and except in one case, where all the cheese in the lot were over-marked from four to seven pounds, there is no reason to believe that the errors were due to inaccurate scales, because I find on examining the record that these errors occurred in lots of which the other cheese were either O.K. or showed only the usual loss due to shrinkage.

The plain facts are that these errors were due either to the grossest arelessness or to something Of the 219 boxes wrongly marked, 193 were overmarked and only 26 were undermarked. The over-markings amounted to 1,193 pounds and the undermarkings to 122 pounds. You can draw your own conclusions. The preponderance of overmarking is signifi-cant. Whether these errors were all the result of carelessness or whether some of them were deliberate attempts to defraud, makes very little differ-ence in the effect which they have had on the minds of British dealers. The merchants believe that they are being cheated, and the loss and an-noyance which result from claims for abort weight are the very things to ceuse them to turn to other and more reliable sources of supply.

DEALINGS WITH ENGLISHMEN

There is no man in the world who will quit trading with $y_{0:0}$ quicker than an Englishman if he trinks you are not dealing fair. If you cheat him out of the value of 1° pounds of the value of 1° pounds of cheese under circumstances where of cheese under circumstance, where there is a question of honor involv-ed, he will feel more aggrieved and put more stress on it than he will for the loss of 100 times as much in a straight business deal.

A large house in Glasgow made a contract last year with a Canadian firm for a quantity of a certain pro-duct, from another branch of agri-culture. The Canadian firm three up the contract and gave reasons as why they were unable to fulfill the undertaking. It so happened that the Glasgow firm were better pleased than they would have been if the contract had been carried out; but I happen to know that they went to a great deal of trouble to find out if the reasons given for the failure on

discrepancy between marked and the part of the Canadian firm were the the part of the canada in more the true ones. They wanted to know if this firm was honest and straightfor-ward, because if not, they would deal no more with them.

HONESTY IN THE DAIRY TRADE. I have had many bitter complaints about this overmarking of cheese, and I brown it is doing good borese. about this overmarking of cheese, and I know it is doing great harm. Can-ada has had a good name for honesty in the dairy trade. We have rather prided ourselves on it. Shall we al-low that reputation to be tarnished low that reputation to be taken of either by inexcusable carelessness or deliberate dishonesty? Every dairy-ter Canada is interested, because de it means dollars and cents to him di-rectly. Then let the factory manageit means there is the factory manage-ment deal severely with the respon-stible party when cases of this kind are reported, as they will be if they occur in the future as they have in

The great majority of factories mark their cheese their cheese correctly. The better managed factories are not guilty of such irregularities. From what I know of the factories in this district, I would not expect that such a charge would be laid against any of them, but these remarks are addressed to all Canadian dairymen, and I hope they may have the effect of causing those who have been responsible for these shortcomings to be more careful in the future. ful in the future. It is up to the merely careless man to see that he is not classed among the dishonest ones

A pleasant feature of the Eastern Ontario Dairymen's convention was the presence of Mr S. D. Richardson, the presence of Mr S. D. Richardson, assistant commissioner of agriculture for the state of New York, and of Robert J. Kirkland, checkes instruc-tor, of Philadelphia, N.Y., who at-tended in order that they might bring greetings from the dairymen of New York Stite and to reciprocate the good wishes that had been expressed by Dairy Commissioner J. A. Ruddick, et the recent convention of the New York state dairymen's association.

York state dairymen's association



to demand a decent price. If it hasn't, give "Purity Salt" a trial, then you will reap extra profits for your trouble. Sample and prices will be gladly furnished free.

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





IDANNERS are the happy ways of doing things. If they are superficial, so are the dewdrops, which give such a depth to the morning meadows.

SOME NEIGHBORS

The Extravagantly Careful Martins

By Marion Hill (Concluded from last week)

Occasionally,

nondescript article.

this skirt with the gold braid?" ask Linda. Each is too busy clawing and guess-ing to listen to what the others are saying, much less to answer it. They yet pretty tired, but keep right on-Just as it is impossible to burn old letters without reading every line of them, so it is impossible to cram thinse back into a rap-bag without owner, and picce with scrutiny and woment.

"Yes, indeed, dearie. Leave it here, and the girls and I will go through the rag-bags and find a piece of silk that'll do to a 'T'. A person who saves everything is never at a loss."

This with a proud little look around specially pregnant in the direction of the newspaper-clipper, as much as to intimate that the family would be in a bad way if both heads of it took to shears and glue. Luckily there were

shears and gue. Lacking there were the saner crafts. "Leave it with us, dearie." This "dearie" does, and goes off. It is fortunate he can go off, for when It is fortunate he can go off, for when those several dozen rag-bags all get dumped at once, the house becomes pandemonium. Not that Mrs. Martin minds; neither do the girls. They make a rag-bag orgy of it, and dig up things that have been missing for

up things that have been missing for years. "Mother, look" exclaims Linda, de-lighted. "Here's that yellow glove of mine. Oh, I hope I haven't thrown away the mate!" "I hope so," assents Mrs. Martin vaguely with the nearest approach to a frown that her placid face can har-bor; she is unitying a bundle of mis-cellang which promises a fich re-bor; she is unitying a bundle of mis-cellang which promises a fich re-bor; ab is unitying a bundle of mis-cellang which promises a fich re-bor; ab is unitying a bundle of mis-cellang which promises a fich re-bor; ab a unitying a bundle of mis-oming across a scrap of blue satin. "this is the dress I wore at Sallie Mason's party. Do you remember, Linda?"

Linda?" "Where's mine, I wonder!" cries Linda, clawing frantically through the beaped rubish itil she pounces on a shred of pink. "Ah, look, Mollie" Then the two giris live the far night over, gabbing happly, while Mrs., gether forsystem blocks of a path-work quilt becau in the long ago, but mercifully laid aside.

course of action, because it would so wasteful!

be so wasteful! With a victorious sense of having done wonders, the mother and grits eram the last atom of trash back into its receptable, and come to the same conclusion that they'll have to go out and buy a bit of slik for Tom's coat-sieve. It is not in the memory of man that the Martins ever did succeed man that the Martins ever did succeed regebons. But dry in used in from the regebons. But dry in use sanguin fam-ily and do not despite better lock

If and do not despair of better luck in the future. The law of inheritance being inex-orable along the line of misfortunes, it goes without saying that Tom Mar-tin collects cancelled stamps, of which he has a barrelful, without henomine without which he has a barrelful, without knowing exactly why second that here is something legendary and remote connecting a cancelled stamp with papier mache, and a bed in a hospi-tal, that Jimmy Martin collects bugs, that has not know how to preserve them to be a start of the start of the best second start of the some vulgar, which scarify every bit of wall space in the house; and that of wall space in the house; and that Mollie collects fans, dance programs and social souvenirs generally, which gather dust and flies and curl up dis-mally from the edge of the mirror. Mollie's fal has the one sole merit of not being expensive, which cannot be and of the others. If Linda would of the posters she gets for the instead of the posters she gets for the bury a pic-ture or two of real worth. Tom's har-rel has already cost him many a penture or two of real worth. Tom's bar-rel has already cost him many a pen-ny for cartage. Jimmy's chemicals for his bugs are all dreadfully high-priced; it is a pity he did not put halthe money into a book of "bugd-oxy." as Mrs. Trent said,—then he would know a thing or two about in-sect life. All he knows now is insect death

"Some fine day I'm going to give those Martins a piece of my mind," says Mrs. Trent severely. "I'm going to tell them that their saving habit is keeping them poor as church mice. scends upon a feminine Martin and she exclaims feebly, while holding up



a lucid interval de-

A Neat and Comfortable Farm Home in British Columbia

A well-kept have with shrubbery and flowers on its borders gives an air of comfort and homelaness to even the most unpretentions house. Our illustration shows what can be done in a short time in the making of a home. It is the residence of Cooper Bros, Grand Forks, B.C. In the vicinity are many fine fruit orchards.

it off some day." And is that lace picked off then and there? Certainly not. The answer to the query of why it has been kept seems satisfactorily to dispose of the matter for another decade or so, and the article is thriftily thrust back into the has into the bag.

Then the two girls live the far night over, gabbing happily, while Mrs. Martin, just as happy, is fitting to gether forzotten blocks of a patch-work guit begun in the long gao, but mereifully laid aside. "Why, here's pa's allpper," she ob-serves, presently, but in rather sub-dued tones, as one might speak of the ever have got in here?" "Don't you remember how funny

"Why do you suppose, are we sav-ing this?" After supreme mental effort, one of After supreme mental effort, one of "It was on account of the good piece of lace on the collar; we must pick and is the lace mich are supported and the superior to the to face on the lace mich are supported and the support of the good piece of lace on the collar; we must pick and is the lace mich are supported and the support of the good piece and is the lace mich are supported and the support of the good piece of lace on the lace mich are supported and the support of the support of the support and is the lace mich are supported and the support of the support of the support of the support and is the lace mich are supported and the support of the support going to tell them that true econd lies as much in knowing what to throw lies as much in knowing whet to throw away as what to keep. For my part, I don't see the sense in keeping soap-boxes through the whiter to make bird-houses in the spring, with kind-ling pretty middling high. Mark my words, I'm going to tell them." And there is not one of us but wish-

es she may. ...

Women's Institutes

plicity of methods introduced through the Institute. Mother has a renewed interest in her regular household dur-ies and has come to more fully ap-preciate her responsibility and oppor-tunty as mistress of the homestead. She is able through the simplifying "and perfecting of her methods and by inducing greater co-operation among the various members of the household. In give greater attention to some of the various members of the household, in give greater attention to some of those things which make towards con-lentment and perfect happiness in the home. She shows the children how to prepare the flower-hed, the children doing most of the work; she shows them how to take care of the vegetable and flower garden; takes a keener interest in the school work of the child, and probably visits the school once or twice in the year to assure herself, that the sanitary c-gd ditions are properly looked after and sensor once or twice in the year to samire herself that the samitary c ditions are properly looked after and, to encourage the teacher in her work. She sees to it that the family is pro-vided with literature of an educative and elevating character. The mother, through her manifest interest in Wothrough her manifest interest in Wo-men's Institute work, has unconscious-ly created a spirit of inquiry on the ourt of the family and the hushand begins to ask whether, or not, there is smething more in the work and possibilities of the Farmers' Insti-tutes than hen syst realized. The result is that the father and mother ro together to the next local Insti-tute meeting, each attending the sep-arate sessions for men and women in the afternoon and both being present at the joint evening meeting. at the joint evening meeting. The daughter notices all this, and

The daughter notices all this, and wonders if here are not some special "dvantages whereby she may get in-struction and information which will be of value to her when the more serious responsibilities of life come to her. She is advised to go to Maedon-ald Institute, or to take domestic and institute, or to take domestic serious response of the series of the series in some school or college; and induced to join the Women's Insti-tute and take an active interest in the work.

tute and take an active interest in the work. Thisse are some of the results of the work as manifest in the family. What about the neighbor? He has observed the increased faith on the part of Mr. and Mrs. So-and-So. They are uarketing more butter and eggs of price considerably above the average. There is a tidiness about the whole price considerably above the average. There is a tidiness about the whole farm and the homestead. The whole family are interested in this and three is co-operation in looking after "iver, which were formerly left to one or two of the family and often wort by default. The neighbor bo-gins to inquire and finds that brough the Women's Institute the wife has learned something about gar-de-ing, the rowing of Mowers, earing wife has learned something about gar-dering, the growing of flowers, earing and feeding of poultry, while the farmer has been induced, through the instruction given at the Farmer's In-stitute meeting, to make tests of his cows to find out what each cow is producing in both quality and quan-tity, to grow better food for his stock, to un-efficient his land, to introduce a judicious rotation of crops. Ho gets a bulletiin on up-to-date methods of butter making, through becoming a member of the Farmer's Institute. Greater interest in the farming op-erations and closer attention to what Greater interest in the farming op-erations and closer attention to what may be termed "Side-lines," such as youltry, eggs, butter, small fruits, vegetables, which can be made a most profitable adjunct to any farm and are not only the means of an increas-ded revenue but make life and living on the farm more attractive.

This and much more has been ac-complished through the Institutes; and we see brighter days in the In-stitute work both for men and women. Women's Institutes Annual Address by Supf. G. A. Put-mem, Toronic of (Concluded from last week) The daughter notices that mother has a greater interest in the every-has a greater interest in the every-has a greater interest in the every-has a greater interest in the anne obtained upon any total states and the same basis as local Wo-somewhat the same basis as local Wo-somew

A Good Old Farm Home

A Good Oid Parm Frome One of the pleasantest farm home competition was that of Anson Groh's of Waterloo Co. Mr. Groh has de-scribed his home and the accompany-ing illustration of a family group in a pleasant manner, which we know a pleasant manner, which we know Groh's farm home over the start of Groh's farm home over the start Groh's farm home over the start Groh's letter to Farm and Dairy reads: reads

reads: "The building is not so very large, only 28:32 (t., with a kitchen wing. It is our dwelling on the home farm and has a very interesting his-tory, reaching back into the days of the first settlers. Could the original down house now be permitted to re-turn and view it and its surroundings, he doubtless would consider himself a turn and view it and its surroundings, he doubtless would consider himself a stranger in a strange land, for the whole exterior and interior are so changed that he would not recognize

it. The old walls, however, could they chronicle the history through when they have passed, would remind us of days of the tallow dips and open fireplace; of the mystic and novel match for the sudden lighting of fires; of the introduction of the won-derful yet dangerous coal oil lamp, before which the good old Bible, the church hymn book and catechism were read. read

Into the veneered walls of this old of the base of the solution of the solution of the base of the bas

good wife and I moved into that old, cold, empty house, with its re-echo-ing walls, we were wont to apeak in voices low, lest the walls speak back and frighten us. Though young and alone, we had mutual interests and a single purpose. While there was very much to be hoped for, we vould be content with such things as we had, until such times as our judustry and

nuch to be hoped for, se vould be content with such things as we had, until such times as our industry and thrift entitled us to more. From very force of circumstances it was easy to make plans much in ad-vance of our ability to earry them into excention. This perhaps was a blessing, at all events the aesthetic had in all cases to take second place to a location. This perhaps was a blessing of the total second place of the second place of the second place of the second place of the second place to a location more in keeping with our plans and desires. We were only moving to the very beginning of the great end we had in view—a warm, confortable, convenient, beautiful and attractive home. Our home now is warm and com-fortable, equipped with all the de-oris the water, hot or cold on targ-ry set water, hot or cold on targ-ry set water, hot or cold on targ-tor soft water, hot or cold on targ-tor soft water, hot or cold on targ-tor soft water, bot or cold on targ-tor soft accompanients is here. Cess pool attached to all waste water, sinks, and so forth. The clothes reed

25 %

31/2

Cess pool attached to all waste water, sinks, and so forth. The clothes reel, wood house and so forth all are reach-able, without stepping from the ve-

able without stepping from the ve-randa into mud or snow. We have a reading room provided with two church papers, four agricul-tral, local and general newspapers, a good general library and constant additions.

OUTDOOR ADVANTAGES

OUTDOOM ADVANTAGES. The additions to the fruit garden this season consist of some 20 apple trees from two to four each of such fruits as cherries, nlums, pears and nine grapevines. A new plantation of 500 strawleerry plants. The garden is worked by horse labor and consists of any and everything the women take a fancy to, raspherries, currants, gooseberries, and so forth, find a nlace.

Some rambler roses ,phlox and other perennial flowers and ornamental

FARM AND DAIRY

transformed the whole appearance of far end of the group is our third son, the exterior of the house. The kitch-who was arram forman on the "Other en wing was replastered and painted inside. Those final touches to a slow, long lasting task, give us a home now of which we are not ashaned. A few words concerning the illus-tration I aced. Our family is not all there. The oldest, who is prof. have seen many changes, shared many trained is a strength of the strength of the the posts are the faces of the "We" who have seen many changes, shared many trained is a strength of the strength of the strength in the strength of the strength o

of which we are not ashamed. In the first order of the second sconcerning, the illust tration 1 send. Our family is not all there. The oldest, who is prof. The oldest, who is prof. The second scond scond

trials, and enjoyed many mutual blessings since 27 years ago. "We" entered there with mutual hopes and



Family Group on Ontario Farm

The comfortable and roomy home of Anson Groh, Waterloo Co., Ont. Read the description of group and also of Mr. Groh's home on this page. We would be glad to publish similar photographs from any of our readers who care to send

inventor and manufacturer of the famous Rush U. Bar stanchion. On one side of him stands his wife and one sade of min scanas ins whe and on the other is her mother. The two little girls in white at the front of the row are two "Fresh Air Mission" children from the city of Toronto. One cannot imagine how they are en-One cannot imagine how they are en-joying themselves. Among the small-er people in front are four motherless boys who hardly realize what a little boy loses when his mother is taken away. They appear to be enjoying themselves like other little boys, as

Our Heroes "DOT."

As we start on a new year let us take a lingering backward look at the one that is closing. How many brave one that is closing. How many brave resolutions were made and how many noble battles won and lost. Some wearied and disappointed are asking, "Does the road wind upward all the way," and hear for reply. "Yes to the very end," "Does the toilsome jurgest that the whole long day from journey take the whole long day, from morn to night my friend." We are proved.

plants were introduced this season they grow up for the present at least used to looking for our heroes' names with a cut leaved birch on the lawn, inder the guidance and care of our amongst the records of great deeds a few Norway apruces. Chief of the eldest daugither, who has charge of done, but who are our neroes, and improvements that the dairy farms it domestic affairs of the "Other where are they? For true herosm competition hurried us to was the farm" and may be seen in the group go with me on this reminescent jour-final finishing touches to the dwelling above mearly in line with the back ney. We will first visit the fine home the section of the section of the section of the group is our third son, who through ull health and too much on who was remelastered. The sime are early in section the 'Other early has become an envous vertex, who of our ambitious larmer with a wile who through ill health and too much care has become a nervous wreck, who the doctor asys, can never be better without complete change and rest. Hat hands are tick. Her husband suck in bed, but with the helps are very inexperienced girl manages to feed the hungry farm help, bake the bread, do the washing and send her children to school. If any are sick or need a helping hand they come to her and she must not complain or they will think she has a fad of talking of her troubles. She is always too tired to enjoy the things are used to love and has gradually learned she has no strength to spare for both work and pleasure and sometimes she is even too tired to go to church or to see her old friends. She longs to be Queen of her home but is often too tired to enjoy a talk with her child-red to enjoy a talk with her child-

who but a woman with the courage

ren. Who but s woman with the courage of a hero can face all this bravely? Next wo find a young educated gril just ready to begin her life's work, called back to the farm because moth-er is sick. She has become used to conveniences and refinements but nom-are found here. Father grumbles when she tries to persuade him that alteration should be made. He see no need for change, why should she? He never wastes either time or money visiting city people and wants nome of their nonsense brought out to the farm. Matters do not improve in this home and a daughter with a bit-ter heart and whose becautiful ideal; are fading away stays with her moth-er and must wait to be called a hero till the record is read over yonder. In another home the wire is extra-vagant and thinks only of appear-ances. Hard as the husband may work

ances. Hard as the husband may work ances. Hard as the husband may work he cannot get ahead. The loy cannot get to college as he had planned, the mortgage cannot be paid as he had hoped and though nearly driven to despair he is the kindest of husbands to the mother of his children and will not darken the peace of their not darken the peace of their home, but struggles on. It does not call for much courage to go to war or save a child from a burning building but oh the courage it takes to see "our cast-les" fall, our ambitions defeated, our health and happiness eaten up by cir-cumstances we know micht he im. cumstances we know might be im



Mid-Winter Sale Catalogue (No. 110) 1010

FARM AND DAIRY

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The Upward Look The Cod and Bad Temper "Love thinket no evil is not saired relationships, devastates provoked." No form of vice, and women that the mode and even before the time, and makes demons of the mode and even before the time, and makes demons of the mode and even before the time, and makes demons of the mode and even before the time, and makes demons of the time, and the

| 1 | 2 | 3 | . 4 | 5 | 6 |
|---|--|---|--|---|--|
| M660. Heavy All Linen Semi-Bleached Damask Table Linen, will bleach pure white, assorted designs, 60 inches wide, 5 yard ends, enough for two cloths, weight 4 lbs., 1 ounce. Sale Price, 5 yards for | M661. 23 ½-inch All Pure Linen Plain Homespun Crash Towel- ling, perfect absorbent, used for roller towels, tea towels, kitchen and oven towels, weight 3 bs., 7 ounces. Sale Price, 10 yards for \$1.29 | M662. White Indian Head Suiting, the popu- lar goods for white aummer dreases, linen finish, yard wide, 10 yards in each length, enough for a dreas, weight 2% Ibs. Sale Price, 10 yards for \$1.09 | M663. All Pure Linen Silver Bleached But- chers' Linen, firm, strong cloth for aprona, children's dresses, etc., 36 inches wide, weight 2 lbs., 1 ounce. Sale Price, 5 yards for \$1.14 | M665. Full Bleached Heavy Pillow Cotton, plain, round, strong, close thread, 44 inches wide, 6 yarda in each piece, enough for 3 pairs of pillow cases, weight 2 Bus, 1 cance. Sales Price, 6 yards for \$0.87 | M666. Striped English Drill, soft, fine weare, dark colors, warrande fast, assorted neat stripes, 30 inches wide, for underskirts, 45 yards in each piece, enough for a good, full, dur- able underskirts, weight 1 lb., 12 ounces. Sale Price, 5 yards for \$1.13 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| M667. Heavy Unblesch- ed Canton Flannel, soft, full, even nap, firm twilled back, 27 to 28 inches wick veight 1 lb., 13 ounces. Sale Price, 6 yards for \$0.55 | M668. A Blouse Length. 2% yards, of very fine sheer pure Trish Linen, beautiful finish, the best thing possible for cool, perfect washing, dainty summer blouse, 36 inches wide, weight 5 ounce. Sale Price, 2 % yard length for. \$1.95 | M669. Very Fine Heavy White Saxony Flannel- lete, perfectly pure, beautifully napped, best English manfacture, 36 inches wide, suitable for infants' garments, wwight 3: Das, 15 oss. Sale Price, 10 yards for | M070. English Apron Gingham, assorted checks, extra quality, pure indigo dye, 88 inches wide, weight 1 1b. 7 ounces. Sale Price, 5 yards for \$0.65 | M671: 18-inch All Pure Linen Heavy Orash Roller Toweling, red border, made from long, clean, perfect drying flax, 9 yards in each piece, enough for 3 long roller towels, weight 3 lbs., 2 ounce. Sale Frice, 9 yards for | M672. Striped English Ceylon Flannels, suit- able for men's shirts, morning sacques, pp- jamas, etc., 28 inches wids, splendid range of stripes, weight 2 lbs., 9 ounces. Sale Price, 10 yards for \$2.29 |
| 13 M073. Ecofish Galateas, peat, dark, even and protection of the second digo dye, fine strong weave, 27 inches wide, for boya" blouses, men's shirst, boya' and gitta' wash suits and gitta' wash suits and gitta' wash suits and gitta' wash suits and second second second protection of the second second second protection of the second second second protection of the second second second second protection of the second second second second protection of the second second second second second protection of the second second second second second second second protection of the second | 14 M674. Jrish Glass Tour- elling, red or blue checks, firm, closs wave, perfect drying, leavies no link, good weight 1. h. 3 cance. Sale Price, 6 yards for | 32 EVERY A BAR STORE custom gain ends. Y share them with tomers. We wan the same for yo catalogue as if | AGAIN 32 ers have hitherto fit of these bar- Ne now begin to Mail Order cus- t to make it just u to buy from | 15 Merz, Super - Bleached English Long Cloth, bread, bright, perman- ent, pure finite, a beau- terwise, a second for uni- household use, yard wide, weight 2 lba., 15 yards for 81.45 | 16 M076. Bleached English' Sheetinga, plain or twilled, fine, closely made sheetinga, pure and strong, 72 inches wide, 10 yards in each length, ensure to plain the sheeting of the sheeting barn of the sheeting of the sheeting the sheeting of the sheeting of the sheeting of the sheeting of the sheeting of the sheeting of the sheeting the sheeting of the sheeting of the sheeting of the sheeting the sheeting of the sheeting of the sheeting of the sheeting the sheeting of the sheeting of the sheeting of the sheeting of the sheeting the sheeting of the sheeting of t |
| Zephyr, 32 inches wide, fawn. mauve, sky or | 18 0801. 29-inch Striped Pongee Linen Suiting, pink, brown or | store. Although run a little over, only for the lensquare square PIECE | we ends me of A PAGE FI | ROM | Our |
| green, with five 2-inch satin stripes running length-yg, w/ X lbs 2 | weis' HERE | 15 ** | M | id-W | inter |
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things well. The spirit of Christ puri-fies and transforms us all. His spirit fance can eradicate the evils we are dire to. Our own wills do not change us alone but we must be guided and Theore we used that mind be in you, which we also in Christ Jesus."... I H.N. I.H.N.

OUR HOME CLUB COUNTRY SIGN BOARDS

Now that the municipal councils have been chosen for another year, it nave Leen chosen for another year, it would be a move in the public inter-ests if they would arrange to have sign boards placed in conspicuous places along the sides of the high-ways in the different municipalities. On these should him incluing ways in the different municipalities. On these should be in plain letters, not only the directions to the vari-ous points of interest to the travel-ling public, but the distances to the same. This would add greatly to the interest of travel; it would popular-ize routes, and save much of the un-certainty now attaching to verbal di-rections obtained from residents along the way. rections obtain along the way.

Such sign boards are common in the Northern and Central States, and have also made their appearance on certain roads in Western Ontario. The cost would not be large. Some times the cost is borne by automo-bile clubs in large cities, and the boards aforesaid are put up for the convenience of the members using the roads. But in a section where no large club of the kind exists it should be performed by councils.—"The Parson."

OUR SCHOOLS AGAIN

OUR SCHOOLS AGAIN Some time ago I spoke of education going too slow and suggested that we have at least one good High School or College in each county. This idea seems to me to be all right if these schools are kept properly cleaned and ventilated. Why is it that some of our schools are in such a deplorable condition? condition?

have Leen condemned long ago. Our school laws call for the school being cleaned four times a year. But, alas! this is addy neglected. Another school section about four or will have from the above, I am sure their school. It worstration over the school over the schools like these? What would our homes look like if they were not cleaned any oft-ener than the schools? Would we as parents not feel that good health was what our children should have and reasonably expected, us as their par-tion them to obtain it? Here comes a work for the Wo-

Here comes a work for the Wo-men's Institute, Of course our trus-tees are supposed to keep the schools well cleaned, etc. But, for my own part, I think the trustee has rather a thankless position to fill.

a thankless position to fill. He is expected by the ratepayers to hire a teacher and keep the school so that it will not look too had. He is to do it for the least possible money. If he thinks a more expensive teach-er might do better work for the sec-tria, he finds it very hard to get oth-rand a new man put in his place mer-and a new man put in his place. Why should not the Women's Insti-tute have an entertainment and raise

Why should not the Women's Insti-tute have an entertainment of raise funds to help the trustces out lite? Survey this is one of the a list important subjects they could discuss. With a little money raised in each branch and the same used in leasn-ing and ventilating our rural schools, at least that one part of the object of Women's Institutes would be filled. "Raising the general standard of Acality." of our $g = \partial k$. Some may think me a crank on schools, but the work of the Womma's

A some may think me a crank on schools, but the work of the Wonna's Institute scenar served are to me. Our object is one of the very less we could have! But why could we not carry some of our why could we not the wheel and work together in the wweet spire less used of our work. Will some of the other members of the Home Club give us their opin-ions?-"The Doctor's Wife."

A MAN'S OPINION

A MAN'S OPINION In the article, "The Tragedy of the Farmer's Wife," in December 9th is-sue. I was glad to note that U. S. conditions were spoken of, instead of Ganadian. Though not familiar with American ways, I have been able to with the of country life in ser-tral of nice of country life in ser-tral of nice of country life in ser-worse than the average suches of I. I visited one last week, and it al. Leave are unmapping some cases even most hurts to have to admit that it am sure we could not recognize an had only been cleaned once during the average farmer's wife in Canada from year 1960. Its ventilation was poor, the description of the one in the and desks were in use that should "'Tragedy."



True, she works hard, much harder

True, she works hard, much harder than her city sisters, but every day is not wash and scrub day, neither is she compelled to put in quite such long hours as the article portrays. On dairy farms the work in con-under the day's work of the man, and in localities where a number of men are employed it is no unusual thing to see the husband or son turn to, and help through the busy meal time, and clearing up.

help through the busy meal time, and clearing up. The article states that the store clerks and professional men are more considerate of their wives than are farmers, even though the latter are critited with more virtues. A glimpac of an evening into a bowing alley, poil room or a golf link, might cause doubts about this to arise in the ob-server's mind, especially if he happen to drop into the country and see a few men picking beams or shelling peas for to-morrow's dinner.

be a for to-morrow's dinner. While we may have instances such as the article referred to, it is not so much because the wife happens to be a "farmer's wife" as because she be a "farmer's wife" as because she is the wife of a certain individual is the wife of the human race is the who is an exception to the human race in general, and is either troubled with chronic laziness, or is a victim of in-

chronic laziness, or is a victim of in-temperance. Nevertheless the lot of the farmer's wife can be made much more pleasant in any circumstance by the install-ing of a few modern appliances, both for convenience and for sanitation...-"Uncle Dick."

"'Uncle Dick." Dor's OPINION Reading "The Tragedy of a Farm-er's Wife" has suggested many things to me. There is a great deal of truth in the story, but there are many farmer's homes as much the reverse as possible..."Dot." ...

A good way to mend torn lace cur-tains is to dampen them and fold them smoothly into a convenient size for washing. Keep in the same folds

until they are ready for the stretcher until they are ready for the stretcher. After the curtains are washed and starched put stretcher out in the sun-shine, placing first aheet in same, as fragile curtains often tear from their own weight. A curtain never should go in wrong side uµ. If there are any rents in them, cut from net similar to curtains pieces of the firm part, mending after laundering them, if necessary. if necessary.

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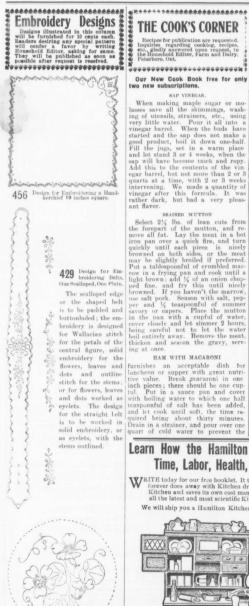
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SAP VINEGAR.

When making maple sugar or mo-lasses save all the skimmings, washing of utersils, strainers, etc., using very little water. Pour it all into a vinegar barrel. When the buds have started and the sap does not make a good product, boil it down one-half. Fill the jugs, set in a warm place and let stand 3 or 4 weeks, when the sap will have become thick and ropy. sap will have become tnick and ropy. Add this to the contents of the vin-egar barrel, but not more than 2 or 3 quarts at a time, with 2 or 3 weeks intervening. We made a quantity of vinegar after this formula. It was rather dark, but had a very pleas-set flavor. ant flavor.

BRAISED MUTTON

Select 2½ (bs. of lean cuts from the forepart of the mutton, and re-move all fat. Lay the meat in a hot iron pan over a quick fire, and turn quickly until each piece is nicely browned on both sides, or the meat may be slightly broiled if preferred. Put a tablesponful of crumbled mar-Put a tablesponful of crumbled mar-row in a frying pan and cook until a light brown, add ½ of an onion chop-ped fine, and fry this until nicely browned. If you haven't the marrow, use salt pork. Season with salt, pep-per and ½ teasponful of summer savory or capers. Place the mutton in the pan with a cupful of water, cover closely and let simmer 2 hours, heing careful not to let the water boil entirely away. Remove the meat, thicken and season the gravy, serv-ing at once. ing at once.

HAM WITH MACARONI

furnishes an acceptable dish for luncheon or supper with great nutri-tive value. Break macaroni in one inch pieces; there should be one cupthe pieces; there should be one cup-tul. Put in a sauce pan and cover with boiling water to which one half teaspoonful of salt has been added, and let cook until soft, the time re-quired being about thirty minutes. Drain in a strainer, and pour over one quart of cold water to prevent the

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pieces adhering. Melt two tablespoonfuls of butter, add two tablespoonfuls of flour, and when well blended pour of flour, and when well blended pour on gradually, while stirring constant-ly, one and one half cupt.Ls of scald-ed milk. As soon as the boiling point is reached add two thirds of a cuptul of grated mild cheeses, and sea-son with salt and paprika if it be at hand, Add macaroni and when thor-band, add macaroni and when thor-Sprinkle with one fourth of a cuptul of index channed, cold boiled have of finely chopped cold boilded ham, and garnish with sprigs of parsley.

SPICE NUTS

SPICE NUTS Mix together 4 beaten eggs with 1 th sugar. Sift together 1 lb four, 1 tablesp einnamon, 1 small teasp lower 1 small nutmeg, grated, and 1 teasp baking powher. Mix this well with the sugar and eggs and flavor with the grated erid of a lemon. About 2 or 3 os of eitrop, cut fine, may a start of the start of the start batt in thick cut with a very small cutter about 1 or 1½ inches in diameter, put on buttered tins, and bake in a moderate over. NO-EUS SQLAUE PRI

NO- EGG SQUASH PIE

NO- EG SQUASH PIE Cut 2 bis the possible of the possible of the possible of the possible concerns and reasons built concerns and reasons as done. Do not let it soak. Drain 5 minutes, then rul through a sieve or colander. If wanted very fine, use sieve. Add I cup white sugar, I teasy salt and I teasp lemon extract. Site well. Now roll and sift through sieve 2 small crackers. Mix all with I cup water in which squash was builed, and heat until crackers then be stift drough to the site of the state. It is good without, Bake in moderately ho even with only an under crust. It will be, corructly made, a pleasing and economical dist. MELLOW CAKES

MELLOW CAKES

MELIOW CARES Cream, ½ Ib butter with 2 oz of sugar, then add 4 tablesp sweet cream and ½ Ib four. Roll out, cut into fancy shapes with a cutter, brush with egg white, sprinkle with sugar, place on buttered tin and bake a golden brown in a moderate oven.

SAND TARTS

Cream 1 cup butter and 1½ cups sugar, then add 3 eggs, yolks and whites beaten separately, 1 tallesp water, and flour to roll, sifted with ½ teasp baking powder. Roll very thin, cut in fance shapes, and sprink-le with sugar and cinnamon. Bake in a moderate oven

ITCHEN

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

MISSES' PRINCESS DRESS 6535

2ESS DRESS 633 The dress is made with the jersey por-tion and skirt. The skirt is straight and laid in backward turning plaits. The chemisette is faced on to the dress it. self, which can be cut away beneath if a transparent, street. a transparent

Material resulted for 16 yr sile is 7^{+}_{-} yds 20 cm 27, 6 yds 32 or 4%, yds 44 in wide with $\frac{5}{2}$ yd 18 aud 5%, yds of banding for the trimming por-tions, and 2% yds of ribbon 6 in wide for ribbon 6 in wide for the sash. The pattern is cut for girls of 14 and 16 yrs. and will be mailed on receipt of 10 ets.

10 cts WITH POINTED TUNIC 6509

INTED TUNIC 6509 Every variation of the tunic skirt is be-ing worn this season. The skirt is made with. a foundation which is cut in five gores and the circu-ter four that is cut gores and the circu-lar flounce that is at-tached to it. The tunic and the long box plait are joined one to the other and arranged over the foundation. Material required for medium size is

Anaterial required for medium size is 7½ yds 24 or 27, 7 yds 32 or 5½ yds 44 in wide, 1 yd 27 in wide tor the band, width of skirt at lower edge,

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

FANCY GIRDLES 6508



SKIDT

All sorts of fancy girdles are being worn just now. No. 1 is made with a rounded upper edge, rounded upper edge, No 2 with the square bib effect, No. 3 with the points that are among the newest of all things. They would be smart made from contrasting ma-terial and worn over any blouse. They are contally fashionany blouse. The are equally fashion able made from the same material as the bodice

Material required for the medium size is for any one of the girdles, $\frac{3}{2}$ yd 21 or $\frac{27}{2}$, $\frac{5}{2}$ yd 44 in wide. The pattern is cut for a 22, 24, 25, 22 and 30 in waist and will be mailed to any address on receipt of 10 cts.

ress on receipt of 10 cts. HOUSE GOWN OR WRAPPER638 The simple plain house gown is al-one or fine model is graceful and be-coming yet perfec-by simple. In the illustration it is made from Aa illustration it is made from a pretty dotted challis pretty dotted challis held by ribbon ties but it will be found in every way appro-priate for washable material and also for the slightly heavier ones of wool. Material required Material required r medium size 10 yds 24, 27 or or 6¼ yds 44 in for wide.

'The pattern is cut for a 34, 36, 38, 40 42 and 44 in bust, and will be mailed to any address on receipt of 10 cts. 1.82



MARKET REVIEW AND FORECAST

Toronto, Mondar, Jan. 9.4. — Varians tions during the week with no apparent keeping fairly steady. Call loans find week provide the the steady of the steady of the the steady of the steady of the steady of the vesting fairly steady. Call loans find on the farmers' market No. 1 and SI2 to SI4.5 to SI4.50 for neason therefor. Domestic securities are No. 1 and SI2 to SI4.5 to SI4.50 for neasy takers at 5 per cent. In the larger with the steady of the steady of the steady of the state of the steady of the steady of the state of the steady of the steady of the state of the steady of the steady of the state of the state of the steady of the state of the steady of the state of t

WHEAT

POTATOES AND BEANS. Receipts of potatoes continue large and prices are low. Wholesals and blom ac-de to 55 a har and in a start of the instore. On the farmers' market po-tates are quoted as 56 to 66 as has. In Montreal, Quebees and Ontario are quoted as 56 and Green Mountains at 66 to 56 at 56 and Green Mountains at 66 to 56 more still fivestern shipter would be more still fivestern shipters in To-fornto are stardy at 8.18 to 81.85 for primes and 8.190 to 82 for hand-picked. In Montreal three-pound pickers are quot-ed on track at 81.56 in car lots. WHEAT The wheat marks is hall with a slight before; in some places for an impact of prices. It is known that Ruta is a bumper crop but shipments from that country are by no means large, cargoes that have been apparently as in Argen-tims, in the back apparently as in Argen-tims, and the source apparently as in Argen-tims, and the source apparently as in Argen-tims, and Russian farmers may be fund the European grain centres so that Argentine and Russian farmers may be back supplies. In live market is held at and advance of 2d a cental. Northwest receipts continue to flow in relative. Source of the source \$1.00\% in relative. Source \$1.00\% in relat

Bran is quoted in car lots on track, To-ronto at \$22, bags included; and shorts in car lots on track, \$25, bags included. In Montreal bran has advanced in price. Ontario bran selling at \$22 to \$23 and shorts at \$23. Northwest resolute continue to how in rapidly. May wheat touched \$150% of Chicago on Friday July wheat work to 8.00%, and 8.00%, like the second state visible grain supply in Canada is esti-mated at 8.40% to and 8.00% and 8.00% and 8.10% how the second state of 8.00% and 8.10% how the second state of 8.10% how 8.12% how 2.810% on track. The Winnipeg market is first, the following prices being . New had eggs are coming in in increas-ing quantities and the prices show a downward tendency. New paids are quot-ed, at 35c a dozen and storage and 35c a dozen in case tots. On the form or market new haid are quoted at 45c to 55c; and storage at 35c to 35c a dozen. In Montreal there is likewise an increased supply and prices are lower. New laid are being offered at 35c to 40c a dozen and selected stock is selling in round lots at 25c to 35c a dozen. 5.12; NO. 2, SLIG on track. The Winnipeg market is firm: the following prices being strain the following prices being \$100%; NO. 2, \$100%; January delivery, \$100%; January, \$10%; January, \$100%; January, \$10%; January, \$10%; January, \$100%; January, \$10%; January, \$10%; January, \$10%; Jan

COARSE GRAINS.

and selected stock is solling in round lots at 28c to 30c as dozen. The poultry supply is light in the lo-cal market and wholesale quotations are as follows: Turkeys, dressed, 16c to 18c; genes, 13c to 16c; ducks, 13c to 15c; genes, to 81c. On the mark the tracks of the to 81c. On the market turkeys are 20c to 20c; encoded to 18c; and fowl; to 18c; chokens, 15c to 18c; dozen, and fowl; to 18c; chokens, 15c to 18c; and fowl; to 18c; chokens, 15c to 18c; and fowl; There is no material change in the prices from last week's quotations, al-though oats have advanced in price slight. in the prices from last weak's quotations, at-though outs have advanced in price slight. Jy in the Northwest. Local quotations for outs are as follows: C. W. No. 2, 405:0 on track lake ports; 45% e all rail; No. 3, 5% No. 10% outside: No. 45% market outs are quoted at die to dies but. In Montreal the price of oats is firm with prices same as in Toronto. Barley is quoted on the Toronto market from becomes and the state of the state of the state outs are quoted at die to dies is quoted on the Toronto market from the state of the state state of the state state of the al-FRUITS. Fall apples are quoted on the farmere-market at \$150 to \$3 and winter varie-ties at \$21 to \$3 a barrel, according to quality. The wholesale market is steady with prices unchanged from last weeky, quotations. In Montreal large quantities are being offered and prices range from \$1.75 to \$3, according to quality. Diverse products and the state of the state of the state prices of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state of the state of the state of the state state of the state state of the state state of the state state of the s 22 outside: on the farmers' market peas re 90: barley, 61 to 82:, reg. 75: and reg 40: barley, 61 to 82:, reg. 75: and reg 40:to 61 montreal: Peas, 91: to 72: 74: 67: to 63: buck wheat, 52 to 53: a bar, HAY AND STRAW. Exports of hay to the other side of the order are causing prices to remain firm, side rable amount of shipping to outside

FARM AND DAIRY

points at good prices. Hest creamery is quoted at 35e to 26c; western dairy at 26c to 25c ab. Obesee prices are unchanged on the Toronto market, being 12% ca b for large and 15c a lb. for twins. In Mon-treal owing to increased English demands prime are alightly higher. Inest westerns at 11% to 11% c a b.

SEEDS.

SEEDS.

Secds are quoted as follows: Alake,

No. 1, 56 to 56.55; No. 2, 86 to 56.10; No.

3.6.25 to 56.75 a bu red clover, No. 1,

52.65 to 56.75 a, bu red clover, No. 1,

52.65 to 56.75 a, bu red clover, No. 1,

52.65 to 56.75 a, bu red clover, No. 1,

52.65 to 57.6 a, bu red clover, No. 1,

52.65 to 57.6 a, bu red clover, No. 1,

52.65 to 57.6 a, bu red clover, No. 1,

52.65 to 57.6 a, bu red clover, No. 1,

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52.65 to 57.6 a, bu red clover, No. 1,

52.65 to 57.6 a, bu red clover, No. 1,

52.65 to 57.6 a, bu red clover, No. 1,

52.65 to 57.6 a, bu red clover, No. 1,

52.65 to 57.65 to 57.65

HORSE MARKET

HORSE MARKET Last week was a big week in the horse-market, although as in the two or three preceding weeks most of the purchases were for the western market. Those who were for the western market. Those who were done that the second second second methods of electrical motion, the end of the horse's usefulness was in sight, were not very far-sighted in their prophesies. But the limitable of the limitable market in the Northwith the limitable network further in store for Ontario borse breeders.

nificent future in store for Ontario horse breeders. Pollowing are the quotations current during the week: Choice heavy draught, \$175 to \$252: ordinary draught, \$130 to \$253: farm horses, \$110 to \$250; expressers, \$130 drivers, \$21 to \$25. ably sound horses, \$25 to \$25.

LIVE STOCK

LIVE STOCK The export trade in live seaod of the ex-foring diminishment by reason of the ex-terning timinishment by reason of the ex-tension of the exponent of the exponent tion due to the form the exposi-tion due to the the exponent of the hing available for the abattoir, and the supply notwithstanding the desire of the farmer to get rid of his inferior stock at what seem good prices. Goes not alto-ef the Cass the demand. What is true of the Cass the demand what is true of the Cass the demand. What is true of the Cass the demand what is true of the American. the dend also true of putting a crimp in the export trade. Not-withstanding this aspect of affairs, the familian market is overstocked by abip-ments from Australaia, so that the short age from this side of the water is not led as as a superstance. age from felt at all.

age from this side of the water is not felt at all. On the Toronto market last week there were close on 5000 cattle offered for asle, and prices ranged as follows: 10 \$575 meters, \$5.8 to \$65; helfers, \$6.50 to \$575 meters, \$5.8 to \$65; helfers, \$6.50 to \$575 meters, \$5.8 to \$65; helfers, \$6.50 to \$575 meters, \$5.50 and ordinary qual-ily at \$250 to \$3 a ewt. This is a start of \$5.50 meters, \$6.50 to \$5.50 meters, \$6.50 meters, \$6.50 the these in sight, and conners at \$1.50 to \$5.50 a ewt. Milkers were not very much in evi-dence: prices ranged from \$40 to \$55 for the these in sight, and prices were good, ranging from \$2.50 to \$7.52 according to quality. Sheen and Lambs-Frices are getting.

quality. Sheep and Lambu-Frices are grint at higher. Eves sold at \$435 to \$5; ransit \$3,50 to \$4, and Lamba at \$455 to \$74, at Hogs-The price for hogs shows no signs of declining and packers are pro-testing against what they term the ex-cordinant demands of the sellers. Prices Bulletin's London cable quotes Canadian bacon from 66 to 708.

MONTREAL HOG MARKET.

Montralea Hog MARKET. Montral, Saturday, Jan. 22-The mar-ket for the saturday, Jan. 22-The mar-ket for the saturday of the area of the vance over the prices paid for a cut ad-vance over the prices paid for some market weakened and eventually the buik of the offerings changed hands at 89 to 50 the saturday of the saturday of the offerings changed hands at 89 to 50 the saturday of the saturday was an event. For selected lots weighed off shipments from prices being paid for some shipments from the saturday of the saturday form and prices have been marked up all around fresh killed abattor stock selling at 831 to 8325 a cut, with control cuteses of quoted at 81275 to 813 a cut.

EXPORT BUTTER AND CHEESE. EXPORT BUTTER AND CHEESE. Montreal, Startday, Jan. 22. - The set port demand for cheese cased up the week, probably owing to the advanced prices asked by the holders, and very lit-prices asked by the holders, and very lit-they are conditions of clearing out at fail prices within the next few weeks. Finest



is a convenient feature of the Traders' Bank Savings Department.

It saves the danger of keeping much money in the house, as the wife can draw whatever is needed for the week's expenses while the husband is at work. Either can deposit-either can draw out cash.

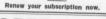
Just ask to open a JOINT ACCOUNT in the Savings Bank Department.

THE TRADERS BANK OF CANADA

Over 100 Branches in Canada

Ontario cheese is quoted at 12c a lb for white and colored. White alone are quot-ed at 125; co 152; co this grade being in comparatively small demand. The sup-ply of Townships and Quebe cheese is practically exhausted, the few lines still remaining unsold being held at' about 125; a lb. The demand for butter is improving.

remaining unsold being hold att about 132c a hk. The demand for butter is improving. The demand for butter is improving. The demand for butter is improving. Automotion of the second second second second pring the second second second second second pring the week shipments have been butter the second second second second pring the week shipments have been butter the second second second second failed and other points to National second rate and other western points. Toron-to, London, Stratford and other Ontario to, London, Stratford and other Ontario to, London, Stratford and other Montreal, and the tracks buying from Montreal, wants of Quebec, Halita, Synthus the wants of Quebec, Halita, Synthus the second there will not be anything like sufficient butter in store here to wanced during the next forking be ad-years conducting the next fork available now, and the organism of the available now, and the read will of this available now, and the read will on the available now.





FOR SALE as quantity of IMPROVED AMERICAN EACH AND AND AND AND AND AND AND AND AND pediareed atook. For The Power and well for me for several years. They were well for me for several years. They were and the report is very farmation and and and the report is very farmation and Alson a few bushels REGENERATED ARNER OATS, from Imported Seed. Subary press and full particulars on ap-plication to the upper

We want to secure at once, pure bred pigs as follows : Berkshire Sows and Boars **Chester White Sows**

to 18c; chicken 12c to 13c a lb.

EGGS AND POULTRY.

New laid eggs are coming in in incre-

FRUITS.

DAIRY PRODUCTS. Receipts continue to increase, but prices

Poland China Boars

Tamworth Sows and Boars

WANTED TO BUY

The above must be pure bred, with pedigree for registration. From 6 to 8 weeks only.

Write your very best prices to :

Circulation Manager FARM AND DAIRY PETERBORO, ONT.

inthe s

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1.62

A. FORSTER

ONT.

26

HOLSTEINS MAPLE LEAF STOCK FARM

GORDON H. MANHARD Manhard, Ontario Breeder of Choice Holstein-Friesian Cattle

At present I will sell 20 young cows, due to freshen in the early part of the wints Also a few young bulls. E-11-3-10 FOR SALE, HOLSTEIN BULL CALF

Born, Dec. 31. Dam's official record at three years old, 486 lbs. of milk and 21 lbs. of butter. Bull caff, born March 184. dam Canadian Champion of her age; of-ficial record at two years, 434 lbs. of milk and 20 lbs. of butter. Ett. DAVID CAUGHELL Yarmouth Centre.Ont

RIVERVIEW HERD

HIVEHVIEW HERD POR 8ALE, 2 Bull Caires, sired by Sir Angrie Beets Begis, son of King Begis, world's greatest 5 year old sire, dam Anar-gie Lilly Pietertide Paul, champion Jr. 4 year old -29.6 lbs. butter 7 days. Dam of caires a 20 lb.2 year old, and 23 lb.4 year old. Price reasonable conclusion year old breeding.

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

LAKEVIEW HOLSTEINS LARLYIEW HOLSTEINS Herd headed by Count Hengerreids Count De Kol, son of Pietertis Hengerreids Count De Kol, son has five daugtiers averaging dam (65.3) hbs. in 7 (Jays) has a daughter with a record of over 35 hbs. butter in 7 days. Five bull calves, from 9 months old Jown, from this sire for asile. G.T.R. and Hamilton Radial close to farm. Visitors met by appointent.

E. F. OSLER, Bronte, Ont.

HOLSTEINS

SUNNYDALE OFFERS a choice ot of oung cows and heifers. Lowest prices: best breeding. Can furnish car load.

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

LYNDALE

Offers for sale young Bulls sired by a on of the highest record cow ever owned

Canada, SARA JEWEL HENGERVELD 3RD. SARA JEWEL HENGERVELD 3RD, A. R. O. 3039 lbs. butter in 7 days, 121.37 lbs. in 30 days. These bulls are all from official record dams, some of them from daughters of "Count De Kol Pietertje Paul," one out of a daughter of "Bright-at Connect Connect E-1-27-10

BROWN BROS, LYN, ONT.

HOME-BRED AND IMPORTED HOLSTEINS

We must sell at least as cows



We must sell at least as cows and heifers at once, to make room for the natural increase of our berd. This is a chance of a lifetime to get a good bargain; we also have a few young buils, Pontiac Hermes, Imp., son of Henderveld Dekol, world's greatest berd. Crows and see them sire, head of herd. Come and see them H. E. GEORGE, CRAMPTON, ONT. Putnam Stn., 1½ miles,-C.P.R... E4-21-10

GLENSPRINGS HOLSTEINS GLENSPHINGS HOLSTEINS Are large milkers Hord averaged for past years 5.75 lbs. One of herd of 5, miles Performance and three in Record of Merit. At present am offering five young builts for service next spring. Prices and Also am offering some fine yearling heiters and one cov. E-724.10

E. B. MALLORY, Frankford, Ont.



AVONDALE HOLSTEINS

AVONDALL HOLSTLINS Offers for sale high class Holsteins, all ages. Herd headed by Prince Hengerveld Jeidj, a son of Piciti Zud's Woodcrest Lad-out of Princess Hengerveld, a daugh-ter of Hengerveld De Kol with record of 20.44 De. butter at 23 months. We also offer some Hom young Yorkshire piger E. choice breeding. ETE ARTHUR C. HARDY, Brockville, Ont

THE SUMMER HILL HEAD OF HOLSTEINS

I'm Summer filt mean OF fullSTENS Is making some wonderful Records. This year it has produced the champion Canadian bred butter cow for 7 days re-ord, 33.6 lbs., also the champion 2 year old of Canada, for yearly production. We have some younger ones that promise to be just as good. We offer for quick sais ton fine helfers, all in easif to an import-Come, and packs yang substitute. 34

ed bull. Come and make your selections AT ONCE. Prices are right and everything guaranteed just as represented. Trains met at Hamilton if advised.

D. C. FLATT & SON, Millgrove, Ont Farm Phone, No. 2471 Hamilton.

HILL CREST HOLSTEINS

Head your herd with a son of "B Boy Calamity," (His sire, "De Kol Butter Boy 3rd," surpasses all Hol sires of his generation in number of R. O. daughters and grand daug "Rutte 2nd dires of R. O. d R. O. daughters and grand daughters through his sons.) Their dams can show for themselves. Two choice cows (just freshened) for sale. Write, or better come and look them over. G. A. BRETHEN, Norwood, Ont.

NORTH STAR HOLSTEINS FOR SALE

Bulls ready for service, out of high test-ing A.R.O. dams, sired by Count Henger-veld De Kol, a son of Sara Jewel Henger-veld 3rd, the highest tested, (30.38), high-est priced cow ever in Canada. Also a few lemales in call to same bull. ETF

J. W. STEWART, Lyn, Ont.

AYRSHIRES SPRINGBROOK AYRSHIRES

Are large producers of milk, testing high in butter fat. Young stock for sale. Or-ders booked for calves of 1909, male and female. Prices right. Write or call on 3-24-10 W. F. STEPHEN, Huntingdon, Que

AYRSHIRES. - Record of Performance VYRSHIRES, - 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. dams,

JAMES BEGG, Box 88, St. Thomas

"La Bols de la Roches" Stock Farm

Here are kept the choicest strains of AYRSMIRES, imported and home bred. YORKSMIRES of the best bacon types. WHITE ORPINGTON, WHITE WYAN. DOTTES and BARRED ROCK Ponitry. HON. L. J. FORGET, J. A. BIBEAU, Proprietor Manag Manager

E-5-26-10 Ste Anne de Bellevue, Que

SPRINGHILL ATTRACTOR Imported and home bred stock of all ages for sale. See our stock at the leau ing shows this fail. Write tor prices.

ROBT. HUNTER & SONS Ont Maxville, Ont. E-7-1-10

SUNNYSIDE AYRSHIRES

Imported and home bred, are of the choicess breeding, of good type and have been selected for production. THREE young buils dropped this fail sired by "Nether Hail Good-time" -2664-... (Imp.) as well as a few females of various ages for sale. Write or come and see.

J. W. LOGAN, Howick Station, Que. ('Phone in house.) 0-5-19-10

STONEHOUSE STOCK FARM Is the home of most of the coveted honors at the leading eastern Exhibitions, includin

first prize old and young herd. FOR SALE a few Choice Young Cows, also Bull Calves.

HECTOR GORDON, HOWICK, QUE.

IMPORTED AYRSHIRES

IMPORTED AYRSHIBES Having just landed with 80 head of choiving just landed with 80 head be great Barcheskie said, 1 an prepared to fill orders for herd heading bills, selected from the best dary herds in Scotland, 1 females of all acce. Cove with milk re-cords up to 70 he, per day. Write and less not know your watts. Long 24,163 Blobas. R. NESS, Howick, Que.

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.

...... - 0 -0. -0. -0--0 -ANNUAL BANQUET OF HOLSTEIN BREEDERS

BREEDERS The second annual banquet of the mem-bers of the Holstein-Frienian Association of Canada will be held on Wednesday, Feb. 7th, at 7.30 p.m., at Noamith's, 150 Deputy Minister of Agriculture for Ontar-io: Prof. 6. E. Day of the O. A. C. J. A. Ruddick, Dominion Dairy Commissioner: G. A. Putnam, Director of Dairy Instruc-tion for Ontario, and others, have been invited to deliver addresses. All members wild to be nevered.

vitd to be present. It will be noted that the banquet takes place the evening prior to the annual meeting.

THE POOR MAN'S COW.

The Holstein-Friesian cow is often spoken of as "The poor man's cow," as "The mortgage lifter;" and she is thus spoken of because the average cow of the breed is such that, with the usual good orect is such that, with the usual good care given by farmer-dairymen, no one ever fails of success in dairying when using her. In fact, in my long acquaint-ance with the breed and its breeders, ex-tending over a period of nearly 30 years,



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

DANIEL WATT OR TO HON. W. OWENS, Manager, Proprietor, 19-10 Riverside Farm, Montobollo, Que



Prom qualified neuron or Proceedings Coves. One calved October 36th, 1953, whose dam lines a record of 9.52 libs, miki, averaging the second second second second second second from these dam lists, and Dea 27th, and Also one calved April 16, 1997, dam hav-ling a record as a two year old of 642 (bs. milk, averaging 46 per cent. All choice individuals and by imported bulls. CPhone). Bett

W. W. BALLANTYNE, Stratford, Ont.

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

WILLOWDALE STOCK FARM

LENOXVILLE, QUE. Breeds Olydesdale horses, Shorthorn and Ayrahire cattle. Leleester sheep, Chester White swine, all of choice breeding. Young stock for sale. Also several of the stan-dard breeds of American poultry and Pekin ducks. Settings for sale. 6-45:19

J. H. M. PARKER

NITHSIDE FARM, Herd of Large Eng-lish Berkshiree, Southdown Sheep and Sil-young boars fit for service; also never ready to breed: also young pigs. A choice to of Silver-Grey Dorking Cockercie, 83.00 each. None but first, class registered shock sent out. Satisfaction guaranteed.

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

January 27, 1910.

I do not recall to mind any Holsteja-Friesian breeder who has abandoned that That Holstein-Friesian milk is perfect-ly balanced, so as to be of the highest value as a food, has been well known for many year's but the immense amount of food product possible of production by yet well understood. In the has lass of these reports, I mentioned that the senior three-year-old Pieterle Lass 2dw Johanna had produced in 365 consecutive ids from 13.54 hbs. milk: while the junior two-year-old College Belle Wayne has produced in the same inter 45.669 hbs. Tat and 1,5605 lbs. solids from 15.681. lbs. Tat and 1, Frieslan milk as a food is, in good par-because the milk contains a larger amount of nutriment in proportion to the fat than does the milk of any other breed.-M. H. Gardner, Supt. of Advanced Registry, Delavan, Wis.

OFFICIAL RECORDS FOR DECEMBER,

(Concluded from last week)

(Concluded from last week) Colamity Dosel Wayne (177) as 3 yrs. 11 months and 19 days of ace, 11.46 lbs. but-ter fat, equivalent to 13.37 lbs. Dutter; 2008. For the start of the start of the start in the start of the start of the start Pieterije Poem Rad (787) at 3 yrs. 2 months and 27 days of age. 10.98 lbs. Dutter fat, equivalent to 12.28 lbs. Dutter; 38.48 lbs. milk. Owned by James Rettie, iter 3986/wesh, fb, fb, fb, fb, fb, fb, fb;

Norwich, Ont. iter.9366vesseß, ft, ft, ft, ft, ft, ft, ft, ft, ft, Ontario Maid 2nd (7516) at 3 yrs. 4 months, 12 days of age, 10.95 lbs. butter fat, equivalent to 12.75 lbs. butter; 354.0 lbs. milk. Owned by M. L. Haley, Spring-tered Out. Ont.

Mercena Jewel (9081) at 3 yrs. 7 months and 24 days of age, 12.82 lbs. butter fat, equivalent to 14.96 lbs. butter; 359.79 lbs. milk. Owned by James Rettie, Norwich.

Ont. Belle Dewdrop 5th (4534) at 2 yrs, 5 months and 29 days of age, 11.66 lbs. but-ter fat, equivalent to 13.49 lbs. butter; 59 68 lbs. milk. Thirty day record, at 2 yrs. 5 months and 29 days of age, 47.43 lbs. butter fat, equivalent to 53.44 lbs. butter fat, outvalent to 53.44 lbs. butter fat, and 30. Owned by E. Laidlaw & Sons, Ayl-mer, Ont.

bill. Owned by E. Lansaw duer, Ont. Jossie Pauline Pacek. (SSI2) at 2 yrs., 6 monthe and 11 days of age, 125 the bui-ter fat, equivalent to 1461 bbs. butter; 329 bbs. milk. Thirty day record, at 2 yrs., 6 months and 11 days of age, 5211 bbs. butter fat, equivalent to 55.99 lbs. butter; 1551.38 lbs. milk. Owned by E. Laidlaw & Sons, 3y1 wer. Ont.

mer, Ont. Houwtje De Kol Lady (2513) at 2 yrs, 6 months, 3 days of age, 11.09 lbs. butter fat, equivalent to 12.94 lbs. butter: 296.78 lbs.

art

19

milk. Thirty day record, at 2 yrs., 6 mos, and 3 days of age, 45.13 lbs., butter fat, equi-valent to 52.68 lbs. butter; 1289.54 lbs. milk. Owned by E. Laidlaw & Sons, Aylmer,

Lady Abbekerk De Kol, (86033) at 2 yrs. 2 months, 10 days of age, 11.03 lbs. butter fat, equivalent to 12.88 lbs. butter; 324.04 lbs. milk.

Bat, equitation of the second at 2 yrs, 2 months, 10 days of age, 42.13 lbs. butter fat, equivalent to 49.16 lbs. butter; 1223.83 lbs. milk. Owned by E. Laidlaw & Sons, Aylmer,

Ont. Lucy Tensen De Kol (9033) at 2 yrs., 5 months and 9 days of age, 9.74 lbs. butter fat, equivalent to 11.37 lbs. butter: 256.5 lbs. milk. Owned by Thomas Davidson,

fat. equivalent to 11.37 lbs. butter: 255 lbs. milk. Owned by Thomas Davidson. Spring Valley. Ont. Netherland (487) at 2 yrs., 2 months and 23 days of age. 948 lbs. butter fat. equi-land the state of the state of the state of the Owned by Ellas Snyder, Jurgesville. A Pairmont Wayne (1971) at 2 yrs. 7 months and 5 days of age. 42 lbs. butter fat. equivalent to 948 lbs. butter; 277. lbs. milk. Owned by Walburn Rivers, Folden's, Ont. Uww. 3 Abelies and 27 days of age. 42 lbs. butter fat equivalent to 966 lbs. but-ter; 2674 lbs. milk. Owned by Walburn Rivers, Folden's, Ont.]

GOSSIP

Attention is again celled to the an-nouncement of the Dispersion sale of over 40 head of Holstein cattle at Madoc, March 25th, 1910, Mr. J. A. Caskey has a very choice lot of Holsteins. Breeders and others interested in Holsteins will do well to key this sale in mind.

Long Distance Phone.

KING'S CO., N. S. RICHIMOND-The cold and stormy weather makes business quiet, but it gives us time to look over the past year. From the farmers' standpoint it is generally conceded to be the best for many years. With bountiful cross, good prices for raw and finished products, a mild fail and add finished products, a mild fail and prime. Edward Island farmer has very reason to be thankful and to begin the New Year with renewed vigor.-J. D. McL.

NOVA SCOTIA KING'C CO., N. S.

ATERVILLE.-The short course at Truro Agricultural College is more popu-Several young men and WATERVILLE.-The short course at furne Arricultural College is more pout former form this district are enjoying the yourse, and once having been themselves, ellars of this district are enjoying the yourse and once having been themselves, ellars of this district abountiful turnip propies stored. The latter rains caused with a latter of the store that the fall some of the roots were pulled in the old gap, but others had their tops alands with the hee." A second man followed with a hake and pulled them out. In one instance a pair of horses on the potating gap of the farm papers, and their con-lineed hammering at farm improvements, that the spirit of progress has inspired uring the farm papers, and their con-site of the mark of progress has inspired windmills before this. Reports any the isolation for the store of the store of the one oursging. The cooperative of windmills before this. Reports any the local buyers have lost heavily. Re-turns from commission men in London trait company the store the data better. **X1160NISU**. Then the measured the more the store of the second the based of the second t

ANTIGONISH CO., N. S.

ADDITIC-Cooperate-Finite Watts. ATTGONISTICO. N. S. ANTIGONISTICO. N. S. ADDITICO. ANTICOLOGY ANTICOLOGY meeting on an And, with a tria started-ance. The books showed a balance on the right side and the Association in a flour-shother seed fair in the gring, and the another seed fair in the gring, and the bander seed fair in the gring of the another seed fair in the gring of the bander of the fair and the second fair and there societies will follow the example. The prospects are that feed will be searce. Hay is now 84, beef 5 cents, pork %, cents.-Tom Brown.

ONTARIO LEEDS CO., ONT.

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LEEDS CO., ONT. GANNAOUCH.-Prices for farm products are good. Hay salls at from \$12 to \$16 a ton; dressed pork, \$16 and \$19(c;) but, ter, 33 to 25 cents. Polatoes are abun-dant and cheap. Fresh eggs are very sarce. The demand for mileh own are-w was better, a common grade cow often going over \$60 at austions.-C, H. C.

HASTINGS CO., Ont.

HASTINGS CO., Out. THE RIDGE-A good many men are get-ting out logs and telegraph poles, as poles are a better price this wither than they have been for some years! There seems to be no searcity of feed, although it being at ST a ton delivered; straw at 85 and 86 a load, according to size. Onts are selling at ST at one clivered; straw at 85 and 86 a load, according to size. Onts are selling at ST estimates and the sub-elites of the sub-stimate the second strategies of the second terms of the second strategies of the second strategies of the second strategies of the second strategies of the second terms of the second strategies of the second strategies of the second strategies of the second strategies of the second terms of the second strategies of the second strategies of the second strategies of the second strategies of the second terms of the second strategies of the second strategies of the second strategies of the second strategies of the second terms of the second strategies of th

DURHAM CO., ONT.

DURHAM CO., ONT. PLERTWOOD--Quite a number of horses are changing hands. Mr. Taibert David-son sold a nice mare for \$210 Mr. John Crawford sold another rising three-year-old for \$185, and Mr. John Carins sold a span for upwards of \$375. Mr. Leander Werry sold an aged span for a nice fg-ure also.-A. G.

WATERLOO CO., ONT. NEW HAMBURG.—The high price of hogs is one of the chief subjects of dis-cussion just now. Competition amongst

FARM AND DAIRY

Contributions invited. PRINCE EDWARD ISLAND MIG'S CO. N. RIGHMOND.-The cold and stormy wather make busines quick that is generally noneeded to be the best for many generations of the stores are indexed density of the stores and the stores are indexed and the

WELLINGTON CO., ONT.

ELORA.—The meetings of Centre Wei-lington Farmers' Institute held recently were of an exceptionally interesting char-acter. The addresses of Mr. Annis, To-ronto, and Mrs. Watts, Clinton, were an impiration and cannot fail to be helpful model and importante. Local talent also maded an importante. to those in attendance. Local talent also played an important part and should be employed wherever available. It takes courage on the part of the local man to talk to his neighbors, but no one is bet-ter acquained with local conditions. Farming is still in the front rank as a bainenes. Prices are high, and prospects bright. Money is coming in, and profits are large. Cattle are keeping up well. Hogs are still on the rise, and it looks as d or or work yould soon be out of reach of a profit of the stress, but the farmer is well suited.-G. W.

WENTWORTH CO., ONT.

KIRKWALL .- There is very little sno KHRWALL.-There is very little enow on the fields in the swamps, it having nearly all blown into the fence corners. Most of the farmers are busy getting their firewood cut. Hardly as many cat-tie are in the stables as in previous win-ters, as there is some scarcity of feed. Not many cattle are being fattened and the prospects are that choice well-finished cattle will be very high next spring. Stock-ers weighting 750 pounds to 500 pounds are surrect.-W. Quebt. for our

OXFORD CO., ONT.

OLAPIC Amy have been taking ad-vantage of the good sleighing; several hundred cords of wood, and about 59,000 feet of lumber are to be drawn away, so that it gives work to several men and teams. The wood is taken to the lume kins in Beachville, and the most of the good lumber is shipped at Beachville. The culled lumber goes to Ingersoll to be used for crates for shipping machiner, -A. M. M. NORDIA E.O. Det

NORFOLK CO., Ont.

SOUTH WALSINGHAM .- Hogs are selling SOUTH WALSINGHAM.—Hogs are selling at §8.10 a owt. Beef cattle are scarce. Eggs are also scarce and are selling at 52 cents a dozen. Stock is looking well. Feed and water are plentiful. Business is brisk, and the markets are all that could be desired by those who sell, but hard on those who are compelled to buy.—B. B.



\$8.50 a Cwt. OR HOGS WEIGHING 160 TO 220 LBS. THE GEO. MATTHEWS CO., LIMITED PETERBOROUGH, HULL, BRANTFORD

MIDDLESEX CO., ONT.

MIDDLENE CO., ONT. LITTLEWOOD.—A number of farms have lately been sold. The prices received for is about 80 or better an are three, which is about 80 or better an are three, which is about 80 or better and mere three ago. A number of young men have late-going in for an education, others to regoing in for an education, others to are going in for an education, others to work at some job, as they think, easier than the farm. When land sells so high, a young man has not much encourage-ment ahead of him in his endeavors to pay for a farm, so the cities hold out the greater allurements.-J. E. O.

ELGIN CO., ONT.

ELGIN CO., ONT. SHEDDON-Twice a week huge are shipped from here. Some of them are brought a long distance, coming all the way from Port Talhot and other places. The cash received from their sale puts a different sector of the sale puts a means good times among the farme we not others. Marketable hogs appear to be searce, though none can complain about the price paid. The sleiching is good, as means good times among the farme we not deters. Marketable hogs appear to be searce, though none can complain about the price paid. The sleiching is good, as means good times the static sector of the price paid. The sleiching is good, as means with good buildings are bring-ing from \$5.00 to \$10,00. Quite a few farms are changing hands. When is worth \$50, buildings are bring-young clover looked fine when they went under the snow.-S. J. II. ESUX CO., ONT.

ping it and getting it ready for shipping Hogs are \$8.50 a cwt.-A. L. A. LAMBTON CO., ONT.

LAMBTON CO., ONT. WYOMING-Parm products are selling well. Hogs, 85.31 wheat, 81.12; clover seed, 84.25. Those farmers who buy and feed heavy cattle say they cannot get their supply. Feverything points to a healthy empty. and the past year.-D, N. A.

BRUCE CO., ONT.

CLUNY.—Hogs are very high; 88 was puid on the 4th, live weight. Mik cows are scarce and very high in price. Fall wheat, 81; peas, 85c; onts, 34c; barley, 50c; potatoes, 40c a bag; butter, 24c; eggs, 30c; hay, 86 to 89 a ton.—J. M.

HURON CO., ONT.

BLYTH.-Farmers in general are busy looking after their stock, as there is very little bush work to be done. A few are thinking of attending some of the short courses at Guelph. It is too bad that more correspondences of the short course at Cuellsh II is too bad that more do not avail themselves of the opportuni-ly of picking up a little more education along the several lines pertaining to ag-riculture. The markets in general are they have ever been here before. Horse markets are bedren the what—R. **R. S**.

BRITISH COLUMBIA

NEW WESTMINSTER CO., B.C. ESEEX CO., ONT. AUNSIG.—Cattle, horses and sheep are regular chores constitute the farming at this time of the year. A small quantity feed is very expensive to have to avail the start of the year is a small quantity if eed is very expensive to have the avail of logs are coming in at the sawmill, had no snow so far. The hardest froat Those who have tobacco are hurg strip.

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