

VOL. XXIX.

NUMBER 23.

RURAL HOME

PETERBORO, ONT.

JUNE 9,

1910.



THE HOME OF A FARMER WHO HAS ACCOMPLISHED MUCH FOR HIS BROTHER FARMERS

A glimpse at the home of Mr. Wellington Boulter, in Prince Edward County, whose farm "The Maples" was one of the prize winning farms last year in Farm and Dairy's Prize Farms Competition, is here given. Mr. Boulter is seated in the automobile. The ladies include Mr. Boulter's two daughters. Mr. Boulter has not only been interested in farming all his life but he built on his farm the first canning factory erected in Eastern Ontario and one of the stris in Canada. Last year the canning factories in Prince Edward County alone paid the farmers of that county more than all the cheese factories in the county. Canadian canning factories now pay farmers several million dollars a year for their products.

DEVOTED TO

BETTER FARMING AND
GANADIAN GOUNTRY LIFE



WE ALL MAKE MISTAKES

Some mistakes are only of minor importance while others affect us as long as we

The greatest mistake dairymen are apt to make is to buy a Cream Separator, and continue to use it even if it does not give satisfaction. Did you ever stop to think how small losses amount up to large ones. A loss of one cent a cow each day in the year means a loss to you of \$3.65; with 10 cows the loss is \$36.50; with 20 cows your loss would be \$73.00 each year. It is a matter of great importance to you that your Separator should be a clean skimmer and as perfect in mechanical construction as a man can make it. The SELF-BAL-ANCING DEVICE with which

The Simplex Link-Blade Separators

are equipped makes the loss of cream in the skimming almost impossible. You will make no mistake in buying one of these machines. Our illustrated booklet is free on request—it's worth reading.

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WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

Write To-day for a Copy of Write To-day for a Copy of the New "BT" Catalogue on STEEL STALLS AND STANCHIONS



If you are building a new barn, or remodelling your stable WHY.

NOT PUT "BT" SIANCHIONS AND STEEL STALLS IN 177 They will make it brighter and neater, are stronger, more durable and coat the stable will be supported by the supported by Steel Stalls.

WRITE -

BEATTY BROS., Fergus, Canada, LITTER CARRIERS, ELC.

Provincial Single Tax Organization

Over 40 representatives of tax re-Over 40 representatives of tax re-form societies from all over the prov-ince of Ontario, met in convention in Toronto last week to adopt aggres-sive methods for the introduction of single tax theory as a direct legis-lative proposition. The new Provin-cial Organization was formed as a re-sult of the convention. The aim of sult of the convention. The aim of the organization is to be an active drawing force compelling recognition and consideration of the Henry George principles at the next legislative session.

The new organization will be known as "The Tax Reform and Direct Legislative League of Ontario," and the tactics to be adopted are aggressive beyond a doubt. The league will form beyond a doubt. The league will form local organizations in every municipality and electoral district in the property and electoral district in the propality and electoral district in the pro-vince. Campaign work will be vig-orously carried on to arouse popular interest in the reforms proposed and finally deputations of representative citizens will bring pressure to bear on the local member to bring on dis-cussion of proposed changes before the hause.

the house. Joseph Fells, of London, England, Joseph Fells, of London, England, was elected honorary president of the organization; Wilsom M. Southam, President; Arthur B. Farmer, Toron-to, Secretary; D. B. Jaques, Toronto, Treasurer; Harry Southam, Charles Stewart and Julian Sale of Toronto, members of the executive committee.

Work of a Great Scientist

The researches in Bacteriology of Dr. Robert Koch, who died May 27, of Dr. Robert Koch, who dued May 2r, or heart disease, at Baden-Baden, Ger-many, have been invaluable to agri-culture and to society in general. As early as 1876, he isolated the undurax-bacillus. In 1882 he discovered the germ of tuberculosis. In 1890 he dis-

serm of tuberculosis. In 1800 he discovered the tuberculine test.

The value of this test in the eradication of tuberculosis among cartle is only now beginning to be appreciated. During the last few years, Dr. Koch has contended that bovine tuberculosis cannot be transmitted to man. In this view he is opposed by most all bacteriologists.

bacteriologists.

The world has lost its greatest bacteriologist in the death of Dr. Koch. In fact it is largely due to him that the science rests to-day on a firm basis. Agriculture, the world over, will mourn his death.

Report of the Conservation Commission

Commission

The importance which the subject of conservation has for the Canadian people and the Valuable matter contained in the first annual report of the matter contained in the first annual report of the temport worthy of a place on any reference book-shelf. The report contains the speeches of the eminent specialists who addressed the commission on various subjects of natural on on various subjects of natural resources. It also embodies the pro-gram which each of the committees of the Commission has laid out for

Copies of the report may be had on application to James White, Secretary to the Commission, Ottawa, Ont.

Realizing What's What

The United States are waking up to the fact that Canada is fully compe-tent to conserve her natural resources for the use of her own people. Time for the use of her own people. Time for the use of her own people. Time was when popular opinion in the Unit-ed States tended to regard Jack Canuck as a hewer of wood and a Canuck as a hewer of wood and a drawer of water for Uncle Sam. But certain expressions of opinion of a contrary sort that are now continually cropping up in the American press show that this attitude towards Canada is fast giving way. Here is a sample from the editorial columns of the American Forestry Journal:

"Canada is measuring her timber re-ources and preparing to protect them by progressive and drastic measures of progressive for the profit of sources and proparing to protect measures by progressive and drastic measures against exploitation for the benefit of wasteful foreign countries, including her next door neighbor. We cannot look to the north for our salvation. We must husband all our remaining resources, and plant trees wherever We must husband all our remaining resources and plant trees wherever the property of the prope est common sense."-Conservation, Ottawa.

Believes He Would Make Good Editor, Farm and Dairy,-I noticed Solitor, Farm and Dairy,—I noticed in a recent number of Farm and Dairy a summary of the splendid sork done by Pres. A. M. Soule of the Georgia Agricultural College, in which you amount that he would make a good successor to Dr. Robertson as head of Macdonald College, St. Anne de Belle-ria. One

vue, Que.

I have known President Soule for some years and have followed with pleasure his marked advances in the

pleasure his marked advances in the prominent positions in agriculture he has held during recent pleas held during recent the house held during recent the house held the proper authority of the proper authorities eat on your suggestions in appointing President Sould make good.—T. G. Raynor, Ottaws, Ont.

Items of Interest

J. B. Spencer, B.S.A., who since 1906, has been connected with the Live Stock Branch of the Department of Agriculture, Ottawa, has been to the Minister's (Hom. Sydney Fisher's) office, there to supervise the editorial work and distribution of the publications of the ent're department.

According to a statement made by Dr. J. G. Rutherford, Dominion Live Stock Commissioner and Veterinary-General, there is no immediate pros-pect of any relaxation of the regulapect of any relaxation of the regula-tions respecting dog muzzling in west-ern Ontario. Many politicans have been making requests for the abolish-ing or modification of the depart-ment's order that all dogs within the prescribed area be muzzled, but rabies is still prevalent, and until it is stamped out the regulations must remain in force. remain in force.

remain in force.

Farmers, here is an extract from an Farmers, here is an extract from an article in Farm and Dairy on "Hours of Labor on the Farm".—'The farmer who attempts to work all the time between rising and retiring, allowing only a short time for meals, is next to a fool. Even with strong physique, Nature rebels against such treatment. Such a man is not living up to his lighest privilege. He may make highest privilege, He may make money and extend his possessions, but 10 to one he will have an empty life and advarfed soul.' Ten hours of add a dwarfed soul.' The Canadian active work is enough.—The Canadian active work is enough.—The Canadian Statesman, Bowmanville.

Statesman, Bowmanville.

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Brown

John B Farmers



Vol. XXIX

FOR WEEK ENDING JUNE 9, 1910.

CO-OPERATIVE EGG CIRCLES HAVE BEEN FORMED IN PETERBORO COUNTY

A New System of Marketing Eggs and Poultry has been Launched Through Farm and Dairy that may Revolutionize Existing Methods.

URING the past two weeks farmers in several of the best farming districts around Peterboro have organized five cooperative poultry circles. Within the next few weeks they expect to commence the marketing of their poultry products on the cooperative basis that has proved so successful in Denmark. But they expect to retain for themselves the money now appriated by three or four of the middlemen who handle most of our eggs and to save, also, the great loss that results from our present careless methods of collecting and marketing eggs. The members of these circles believe that from the outset they will be able to sell their eggs for 2 cts. to 5 cts. a dozen above prevailing market prices, and that ultimately they will be able to do considerally better than this.

If this movement proves as successful as there is every indication that it will, it is not unreasonable to expect that it will spread rapidly throughout the country and that it may ultimately revolutionize our present chaotic methods of selling eggs and poultry.

CONDITIONS FAVORABLE.

Conditions in Peterboro county are favorable for the success of this movement. How it came to be started is interesting. Several years ago Prof. F. C. Elford of Macdonald College, when chief of the poultry division of the Dominion Government, interested Farm and Dairy in this project. The Dominion Government, however, has never given this matter the attention that its importance has deserved. This led Farm and Dairy, some three years ago, to approach Mr. Wm. Newman of Lorneville, and to suggest that he should introduce the system in connection with some of his creameries in Victoria County. It was proposed that the eggs of the patrons should be collected by the cream haulers, drawn to the creamery and be graded and shipped direct from there, thus cutting out two or three middlemen. Mr. Newman and the editor-in-chief of Farm and Dairy later met one of the managers of the Wm. Davies Co., in Toronto, and explained to him the proposition. It met with his instant approval. The Wm. Davies Co. agreed to purchase, at an advanced price, all the eggs that might be supplied them and to furnish the necessary crates. Later some incidents occurred that prevented Mr. Newman from proceeding with the undertaking at that

A few months ago Farm and Dairy again had the tter up for consideration and was planning to start it, if possible, through one of the Peterboro factories. At this same time Mr. Gunn, manager of Gunn's Limited, of Toronto, and of Gunn & Langlois, of Montreal, possibly the largest purchasers of eggs and poultry in Canada, finding it impossible to secure enough eggs of first class quality for their trade, decided that something would have to be done to induce Canadian farmers to market their eggs on a better tasis. Mr. Gunn secured the assistance of Mr. John I. Brown of Beachburg, who with his father, Mr. John Brown, secretary of the North Renfrew Farmers' Institute, had done much to interest the

farmers of North Renfrew in the cooperative handling of poultry. Mr. Gunn and Mr. Brown asked Professor Elford of Macdonald College where he would advise them to start the movement. Professor Elford, knowing the interest Farm and Dairy was taking in the matter, suggested Peterboro. When Mr. Brown reached Peterboro and explained the object of his visit, it was decided to make a start immediately in the Peterboro District.

To find if they would be willing to support it, Farm and Dairy decided to first invite a few of the leading farmers around Peterboro to meet in the office of Farm and Dairy to consider the proposal. This meeting was held on May 25, as reported on page 11 of the June 2nd issue of Farm and Dairy, and proved most successful. The proposal was discussed in all its aspects for from four to five hours. It was unanimously endorsed. It was further decided to lay the proposal before the farmers in the adjoining districts at meetings to be called specially for that purpose.

Last week and the week before five of these meetings were held. At each place the proposal was explained fully. So great was the interest taken by the farmers and their wives present that in few cases did the meetings adjourn before eleven o'clock, while in one case the meeting lasted until after 12 o'clock. At each point a poultry circle was formed, a draft constitution adopted and officers elected.

THOSE WHO SPOKE.

The speakers at the various meetings included Prof. F. C. Elford of Macdonald College, H. C. Duff of Norwood, the representative of the Ontario Department of Agriculture in Peterboro County, who has helped the movement energetically from the first; John I. Brown of Gunn & Langlois, and H. B. Cowan, Editor-in-Chief of Farm and Dairy,

In each case the meetings proved of intense interest. The speakers pointed out that our present system of handling eggs is defective in two important respects. In the first place, four to six middlemen come between the farmer and the consumer. These include the country merchant, the egg dealer, the wholesaler, the cold storage concern and the retail grocer. Each of these middlemen exact a portion of the price ultimately paid by the producer for the eggs and thus reduce the amount paid the farmer. It was estimated by Professor Elford that whereas something like \$25,000,000 was paid last year by consumers for eggs, the sum realized by our farmers, did not exceed \$15,000,000. This meant that some \$10,-000,000 went to the middlemen.

A GREAT LOSS.

Owing to the careless manner in which many farmers gather their eggs and to the numerous hands through which they pass, often three weeks to two months elapse between the time the eggs leave the farm and the time they reach the consumer. The result is that some 17 per cent. of the eggs are either broken in transit or are bad and have to be thrown out by the produce firms which handle them before they are sold to the consumers.

No. 23 This alone represents a loss of about \$2,000,000 a year to the farmers of Canada. Mr. Brown stated that his firm, which has to keep some 45 men employed all the time candling eggs, throws out an average of two to four dozen eggs from every case they handle and that enough eggs are thrown out in this way, in the course of a year, to buy a whole township of good farming land. The cost of collecting, shipping and handling these bad eggs is Professor Elford stated that it was sickening to visit these establishments and see the places where these immense quantities of tad eggs are disposed of.

It was brought out clearly that this loss is ultimately paid by the farmers who sell good eggs, as the buyers protect themselves against loss by paying the farmers enough less for their eggs to provide for the loss. Thus the farmers who sell good eggs really provide the money paid the careless farmers for their bad eggs. The fact that farmers who take good care of their eggs do not get any more for them than those who handle their eggs carelessly was brought out clearly.

AN UNLIMITED MARKET. Professor Elford showed that there is an unlimited demand for eggs of good quality. As evidence of this he stated that the heads of one of the largest railways and one of the largest steamship lines in Canada who had been utterly unable to secure enough good eggs to supply their demand had consulted him recently in regard to the advisability of their starting a 50,000 hen plant near Montreal as a means of partly overcoming the difficulty. He had advised against such action, but pointed out to the farmers in Peterboro County that if they would furnish the eggs demanded there would be an unlimited demand for their product

Mr. Duff and Mr. Cowan showed that by organizing, as the farmers of Denmark have, and by furnishing a guaranteed article, our Canadian farmers will be able to eliminate three or four middlemen and thus obtain the highest market prices for their eggs. The success that has attended co-operative work of this kind in Saskatchewan and British Columbia was mentioned.

FORMING THE ORGANIZATIONS.

When it was found at each meeting that the farmers and their wives present were ready to organize, a plan of organization was submitted for consideration. It was shown that it would be necessary in each district for the farmers to have a local organization to look after the collection and shipment of their eggs, that these eggs would have to be collected regularly and that they must be uniform in size and quality. It was decided that the eggs will have to be left by the members of the circles at central points. Where necessary they will be collected by an egg wagon that will be sent out from Peterboro. Space does not permit of a full explanation being given in this issue of the various rules adopted.

It is proposed that every member of a circle shall have a number and that they shall number their own eggs. In this way it will be possible to trace back to each circle and each producer any stale or bad eggs they may deliver. The eggs are to be collected at Peterboro and candled there before shipment. The officers of the circles will

(Continued on page 16)

Breed Only from Good Mares

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

The abnormally high prices which have been paid for horses during the past year has given a great stimulus to horse breeding throughout the country. This would be for the best under favorable conditions, but unfortunately conditions are not favorable because of the fact that comparatively few really good mares have been left in the country. Farmers, tempted by the high prices, have sold their best mares and as a result many inferior animals will be bred this season from which it will be impossible to get good results.

We hear a great deal nowadays about using only high class and well bred stallions, and rightly so, but in too many cases the brood mares are not the kind of animals that would give even the best stallion a fair chance to do himself credit as a sire. Good breeding counts for just as much in the dam as in the sire, only of course the mare produces only one foal in the year, while the stallion may produce scores.

NECESSARY QUALIFICATIONS.

It can be laid down as a rule that the better bred a mare is the more valuable she will be for breeding purposes. But altogether aside from breeding there are some qualifications which a mare should have before she is allowed to reproduce fire kind. She should be sound, or at least free from any blemishes or descent which are known to be hereditary, such as spayin or ring bone, certain forms of blindness, roaring, etc.

Spavin and ring bone would soon largely be things of the past if breeders were more careful in this respect. Then I suppose that over 50 per cent. of the blind horses in the country have lost their sight from attacks of a disease of the eyes called "periodic ophthalmia," or as it is often called, "moon blindness," and yet mares which have gone blind from the action of this most notoriously hereditary disease are being bred every year, with the result that a very large proportion of their progeny will share the same fate as the dam sooner or later in life.

CONFORMATION.

As well as a reasonable degree of soundness, a mare also should be an animal of good conformation. There are many mares quite sound and yet not fit for breeding because of lack of good conformation. They are not worth much themselves. No person wants to buy them, and the chances are all against their progeny being much better than the mares are themselves.

A horse of poor conformation is a much more hopeless proposition than a blemished one. A blemish has a spayin can be treated and in the majority of cases the animal made serviceably sound, but nothing in the world can be done to help a poor conformation—she was born bad and bad she will remain during her natural life—and the farmer using such mares for breeding is not engaged in a profitable business.

FREE FROM VICE.

A brood mare should also be free from vice. Many mares are so vicious that they cannot be worked and often for that reason they are used as breeders, and while it sometimes happens that such a mare will raise progeny that are gentle, the chances are all in favor of the foal being as vicious as the dam. In fact, the breeder may lay it down as a rule that if he has a mare which is not a desirable animal from any cause and one which he is not able to sell to his neighbor or which the ordinary dealers in horses will not purchase, the best thing to do is to make what use of her he can or if he cannot use her, then destroy her—do anything rather than let her reproduce her undesirable propensities in her progeny.

The business of breeding horses ought to be one of the most profitable branches of the farm, but if there is one thing more than another to which farmers ought to give more attention it is to the selection of only really good mares for breeding purposes. "Like will beget like," is a very old and very true adage, and while it is of the greatest importance that this rule should not be overlooked in selecting a stallion, many people are not careful enough in applying it to the breeding mare.

WEED OUT INFERIOR MARES.

Let the average farmer make up his mind to weed out the inferior mares, and in the course of a very few years the value of the horses in the



The Right Sort of a Clydesdale Mare

Notice the general conformation of this mare, particularly as regards her forequarters. She is owned by Mr. A. Stark, Halton Co., Ont.

country will be doubled. It costs no more to raise a horse that will sell for \$200 than it does to raise one that will only bring \$100, to say nothing about the great number that cannot be sold at any

A reaction will probably come in the horse market, but the breeder who is raising only highclass animals need have no fear of the future. The chances are, however, that thousands of colts will be reared during the next few years which will never sell for the cost of rearing them.

Complete Shelter from Storms

Geo. M. James, Middlesex Co., Ont.

I am a firm believer in the planting of spruce for wind breaks. In 10 years a row of spruce will make a complete shelter against our fiercest



House where Dr. Drummond Died

The high building, shown in the extreme background, is the house near Cobalt, in which Dr. Drummond, the of pipe similar to those shown in the illustration run in all directions and for many miles through the Cobalt district. They farnish the power with which the mines of ditches that cut up the surface of the soil, and which have been dug by prospectors. Notice the rocky nature of the soil and the freedom from trees. Wherever the mines are located, the land is similar to this.

storms. I would be in favor of all township councils offering a bonus to owners of land adjoining all highways to plant spruce, for their shade, for their looks and for the complete way that they prevent the snow from drifting.

Think of the money saved in some years if no drifts were allowed to form on our public roads! I have given another large order for spruce, intending more perfectly to shelter my buildings.

An Investment for Abundant Water*

Frank Ellis, Brant Co., Ont.

Since installing an artesian well, which I did at the considerable expense of about \$600 for the outfit complete, I am satisfied that my cattle yield one-third more milk and they do better in every way than they did previously when I had to rely on an indifferent supply of cistern water, drive the cattle a mile or more to the creek, or haul water for them in times of drought. It is a great advantage to have an abundant supply of water. It is pleasing to see the cattle come from the pasture and drink whenever they feel like it. My well may seem a costly one, but could I not get another, it could not be purchased for as many thousands as it cost me hundreds of dollars.

My sympathy is with any man who tries to farm without abundant water for his stock. I believe that it would pay any farmer who is wiout water to borrow money at a very high rate order to install a well rather than to be without abundant water.

LOCAL DIFFICULTIES.

We are so situated in our immediate locality that it is a very difficult matter to get a good well. Several of my neighbors had on different occasions tried to drill for water. In every case they were forced to give it up on account of boulders. When I came to this farm and erected my buildings I took it for granted that water was out of the question so far as a well was concerned.

At the barn I had a cistern built that would hold 250 barrels; one at the driving house held 50 barrels, and besides we had one at the house. A person would think that these three would supply all the stock kept on a 100-acre farm. To my sorrow, however, just when I was busiest I would have to take my team and draw water. If we did not draw water, we had to drive the cattle over a mile for it, and it always so happened that we were out of water in midsummer or when it was very cold in winter.

So much for the stock. As for our house, we have most surely had local option for years, for we certainly had soft drinks when drinking soft water.

THE CONTRACT GIVEN.

Such was the situation until a well driller from Brantford came along one day and offered to put in a well for me, casing and drilling, for \$1.75 per foot. Should he not get me a good well, there was to be no pay. That seemed fair to me, and as I was quite disgusted through having to do without water, I gave him the contract. He drilled 243 feet. It proved to be a big job, for he struck boulder after boulder from the surface to within 17 feet of the water; then they struck rock, which was 226 feet from the surface. Drilling in the rock was progressing when all at once the drill dropped about one and a half feet. This tapped a stream, and apparently a very large one, for the water came within 50 feet of the surface, and it has since proved impossible to lower it one

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I put a Brantford mill and pump on the well and forced the water into a steel tank in the bathroom over the kitchen in the house. From there it goes to a 40-barrel tank in the basemer* of the barn, from which it is distributed to troug_s as a desired.

A pipe leads from the tank in the bathroom down to the sink in the kitchen. We have there on tap good cold well water, which we can take whenever we want it. We all drink about three times the water that we used to, and the doctors tell us that considerable water is essential to good health. All told, the investment in this well is one of the most satisfactory expenditures that it ever made.

*This article is one of the series of essays by prize winners in the Dairy Farms Competition.

Summer Feeds for Dairy Cows

D. D. Gray, Farm Foreman, C. E. F., Ottawa.

The practice of feeding grain to cows while on pasture has many advocates; it also receives a lot of adverse criticism. If there is a time when a cow should get a rest from being grain fed it is when she can get a good mouthful of grass. It is well, however, to decrease the grain part of the ration by degrees as the cow gets used to the grass and accustomed to the changed conditions and thus prevent a loss of flesh. It has been my experience that a cow that has had a rest or a complete change when on grass gives letter results for the meal consumed when being put back again on a meal ration, which should commence when the pastures are getting short.

When pastures become short, the value of soiling crops as a means to produce green food for Jows cannot be over-estimated. Even though grass may be plentiful, it becomes dry and loses its succulence and is not suited for milk production; hence the necessity of having some soiling crop, or succulent food, to supplement the pastures. The list of soiling crops is a long one, but those Lest adapted for our needs are peas and roots, vetches and oats, clover and corn. Where alfalfa can be grown it stands as one of the best

No hard and fast rule can be given as to the exact time to commence feeding grain, if the grain ration has been stopped while the cows were on good pasture. The kind of grain or concentrates to be fed would, of necessity, be governed by the prices of the feeds to be bought, the kind on hand and also the nature and quality of the soiling crop used. There is, however, a principle which can be followed through all feeding, and which will apply to the feeding of concentrates, with soiling crops, as well as during the winter. It is this, that when the soiling crops are made up of the clovers or peas and oats, or any protein foods, it will be in order to make such feeds as barley or corn a factor in the concentrates fed. If, on the other hand, the soiling crop is made up of green corn or corn ensilage, then the concentrates should be high in protein such as bran, gluten meal, oil cake meal or even ground oats.

Curing Alfalfa and Timothy Hay

Herb. F. Morris, Huron Co., Ont.

Thirty acres of alfalfa and from six to 10 acres of timothy I grow on my small farm each year. When I see the first blossom on the alfalfa, provided it be fine weather, I cut down about four acres. I cut it as early on a Monday morning as possible.

alfalfa is stored the timothy is generally ready to cut. I cut it as soon as the first blossoms have fallen. I cut about half of what I have in the afternoon and the other half the next afternoon. let it lie in the swath for a day after it is cut and in the evening of the day after it is cut I run the tedder over it to turn up the green hay. The next day I kick it again with the tedder between 10 and 11 o'clock and it is ready to rake after dinner and to draw in after 3 o'clock. When using the tedder on alfalfa I cross the

swaths as much as possible, but when at the timothy I go around the piece taking two swaths at a round. It makes a much better job to go around in the direction opposite to the mower.

WHEN RAIN COMES.

If a shower of rain falls on any of the hay, in swath or windrow, I use the tedder on it as soon as the rain is over to shake the water out, and continue to ted it about every two hours afterwards until it is dry.

The second and third crops of alfalfa I cut in the afternoon. I use the tedder on it next day just before dinner, rake it into small windrows right after dinner, go up and down each windrow with the tedder as soon as I have finished raking what was cut the day before, and in a short time it is in fine shape to rake into bunches and coil. I always try to coil all that is dry before the dew begins to fall, for the sun and dew on dry alfalfa works considerable harm.

I use the horse fork for unloading the first crop of alfalfa and the timothy. The rope slings are used for unloading the second and third crop. Each load is spread evenly over the mow. About a gallon of salt is sprinkled on every ton of alfalfa and about a gallon and a half on every ton of timothy.

I always seem to have good bright, green, tasty hay to sell or to feed, and I feel sure I could not have it nearly so good without using the tedder. I have used a tedder for 17 years. I find it a very necessary implement and would scarcely know how to get along without it.

No Discredit on Immature Sires M. L. Haley, Oxford Co., Ont.

Much has been said against the practice of using young bull, also bulls from heifers. All this to the contrary, I have yet to see any bad results from breeding to such young sires or to those dropped by heifers.

I shall give two instances in reference to this matter. The owners of these bulls, I believe, will agree with me. The bull "Victor DeKol Pietertje" was from a heifer. He left many daughters with large records-one that has won sweepstakes at the Guelph Winter Fair in 1908 and 1909. Another daughter has a record of over 21,-000 lbs. milk in one year. The bull "Count Mercena Posch" was used at nine months of age. His heifers have just been milking for two years. One of his very young heifers, in strong competition, won second prize in the two-year-old class at Guelph Winter Fair 1909.

I am not advocating the use of young sires, but I would not turn one down if he is a good individual with the right breeding. The bull last mentioned must have been thrifty and strong or he would not have been ready for service at nine months. His offspring are just as large as those of any matured bull.

It is a most important thing in keeping a bull to keep him thrifty and strong. The old saying, "Like begets like," is as true as ever, and if we are striving to improve our dairy cattle we should select a bull whose dam and sire's dam are better than the cows on which we are going to use him. To use any kind of a bull just because he is registered can result only in disappointment and failure. Get the best and breed better.

Of all our farm machinery, we would part with the hay making implements with the greatest regret .- J. K. Moore & Son, Peterboro Co., Ont.



Harve ling one of the most Valuable Crops that the Farm can Produce Alfalfa requires the most careful handling of all hay crops. It must be cut at the proper stage of maturity, and be handled with the greatest care throughout the access of curing, else much of its value will be lost, and the handled with the greatest care throughout the access of curing, else much of its value will be lost.

[10] When the stage of the st

for summer feeding, as it can be cut two or three times at least.

THE VALUE OF SOILING CROPS.

Soiling crops are valuable in so far as they are palatable, nutritious, abundant in growth and the length of time they remain succulent. It is wise to make provision by growing some of these so that they will be available when needed, for most of us have found that dry spells come, and down goes the milk yield, and it generally stays down when allowed to drop off at this time of the year, any length of time.

Crops that are cultivated while growing are safer to grow to supply soiling food, as they suffer less from drought than do other crops. For instance, it is possible to grow a good crop of corn in a season too dry to obtain a good crop of peas

The feeding of ensilage as a soiling food is growing rapidly in favor. It can be conveniently fed and the supply assured, as the crop is grown the year before. It also has another advantage, in that it can be fed without requiring any horse labor, which counts for a great deal in the busy

I use the tedder on it in the evening so as to turn up what is green to catch the dew. Next day in the morning I cut down about four acres more and about 10 o'clock I start to use the tedder again on what I cut the day before, going over the heaviest parts first, and tedding these parts again after I have finished the lighter parts.

About two o'clock I commence to rake, and if the hay is a little too tough to coil I use the tedder on the small windrows after I have the piece about half raked, going up and down on each as fast as the horse can walk. I then finish raking the piece and commence to coil it.

In the evening I run the tedder over what was cut that morning and ted it again the next morning, after I have cut about four acres more. If the weather remains fine I follow the same rotation of cutting, tedding, raking and coiling until Friday. I don't cut any on Friday or Saturday. On these days I draw in what we can besides coiling on Friday what was cut on Thursday. This latter is ready to draw in after I have cut about five acres more on Monday morning.

If rain does not interfere with my plan, my alfalfa is all cut in about 10 days. By the time the

The Feeders' Corner

The Feeders' Corner is for the use of our subscribers. Any interested are interest. All question of interest. All questions will receive prompt attention.

Ensilage along with Grass

Would it be asking too much of you to answer this question, if you have experi-mented along this line.

We have enough ensilage in our silo to We have enough ensilage in our silo to continue feeding our cows for about six weeks, as we keep them in the stable at night, they eat it fine. Do you think they will do as well by continuing this until our ensilage is fed, as our corn is good. rather than on night pasture?—G. M. B., Stormout Co., Out.

I would suggest that you give your cows one feed a day of this ensilage and so ease up on your pastures to some extent. You might find that the some extent. You might find that the cows were n t willing to take the ensilage at first, especially if they were getting all the grass they wanted, but in a short time they will begin to eat it, especially if you scatter a small amount of meal on the ensilage.

If you depend upon the ensilage for any considerable part of the feed of these cows for the next six weeks, you will find it necessary to give them some bran therewith, in order to get some bran therewith, in order to get the best results from your cows. If your ensilage is in such shape as to be likely to keep well, I would suggest as the best plan of utilizing it, that is, the plan of feeding likely to give the best results in the way of milk, the giving the cows just a very small best results in the way or mins, giving the cows just a very small quantity night and morning for the morning or three weeks. Then, when

quantity night and morning for the next two or three weeks. Then, when grass begins to get rather short, in-crease the amount of enslage.

This will ease up on the grass at the critical period and will help keep the cover in full flush of milk, when they cover in full flush of milk, when they fall off, as usually happens in July. The small amount of enslage that you would feed during the month of June feed during the month of June would reed during the hould of othe would be just about enough to keep the surface of the ensilage from get-ting off flavor.—J. H. G.

Hogs Thrive on Skim Milk

Experiments conducted at the Ohio Experiments conducted at the Ohio Experiment station give concrete evi-dence that skim milk is one of the most profitable supplementary feeds for fattening hogs that the farmer can

obtain.

While it required 617.7 pounds of while it required of it pounds of corn meal to make 100 pounds of gain, it required only 427.9 pounds of corn meal and soy bean meal, 421. As of corn meal and middlings, 360.2 of corn meal and middlings, 360.2 of corn meal and tankage, while the corn meal and skim milk lot re-quired 289.9 pounds of corn meal and 804.8 pounds of skim milk.

The corn was rated at 56 cents a bushel, or one cent a pound; the soy bean meal at \$30 a ton; tankage at \$40 a ton; middlings at \$28 a ton; \$40 a ton; middlings at \$25 a ton, and skim milk at \$3 a ton, or 15 cents ner hundred pounds. To put it in and skim milk at 55 a ton, or 10 cents per hundred pounds. To put it in another way: When corn alone is used at one cent a pound, 100 pounds of pork would be \$4.71. With corn or pork would be \$4.71. With corn meal and tankage in the proportion of six to one, tankage at \$40 a ton, the cost would be \$1.12. When corn meal and middlings, half and half, are fed, middlings at \$28 a ton, the cost would be \$5.06. With corn meal at the price mentioned and skim milk at 15 cents of the cost would be \$5.06. With corn meal at the price mentioned and skim milk at 15 cents of the cost would be reduced to \$4.11. Minked points.

This is nursely points, which were the cost would be reduced to \$4.11.

This is an item of profit which many farmers did not consider when they abandoned the creamery for the milk-

a large quantity of manure worth 60 cents worth of suitable meal added many dollars in comparison with the to the already meal ration.—J. H. Grisdale, Agriculturist, C. E. F., Ottor

There is nothing better for your pigs than skim milk, and when used in connection with corn and other in connection with corn and other grain feeds, it produces excellent pork. Dairying and hog-raising may well go hand in hand. The creamery patron and dairy butter producer can make large dividends by keeping enough hogs to consume all their skim milk, and with the present unsatisfactory condition of the market milk-producing industry, we believe many producing industry, we believe many producing industry, we believe many producing the production of the market milk shipping on the product of the creamery or making dairy butter for private trade.—R. L.

Buttermilk for Pig Feeding

What is the best feed to mix with butt-What is the best reed to mix with butter-milk for young shoats (pigs)? Bran, shorts, ground oats or ground barley are avail-able. Is buttermilk of much value as a feed for pigs.—J. W., Westwood, Ont.

For pigs from six weeks to three months old the best material to mix months old the best material to mix with buttermilk to induce rapid growth and healthful progress, is a mixture of equal parts shorts, ground



One of the Famous Cobalt Mines

One of the Famous Cobalt Mines
A portion of the plant of the Tenniseamingue Mine near Cobalt, in New Ontario, is
shown. This plant was vaisted by an
is shown. This plant was vaisted by an
other press association. It is possible to travel
for several miles in the Cobalt district and
see the hills dotted with buildings similar
to the companion of the cobalt district and
see the hills and the district of the cobalt
in the cobalt district and
see the hills and the district and
see the hills in this plant to a depth of 50
feet.

oats (with the hull sifted out), corn meal, and oil cake meal. Add about one pound of this mixture to a gallon buttermilk

Pigs of the age mentioned should be fed about four times a day. From three months onward a good meal mixture would be shorts, crushed oats, crushed barley and corn meal, equal parts. Mix with buttermilk at the rate of about two lbs. to a gallon, and a little later, say, when the pigs are four or five months old, from three four pounds of meal might be mix-to a gallon of the buttermilk, added to a water if it were considered too

would not prove quite so satis-

factory. FEED IT WHILE FRESH.

Buttermilk is a most valuable

Buttermilk is a most valuable feed for young pixs, but care should be taken to feed it as fresh as possible, or if it has to be kept for some time, then an attempt should be made to have it uniformly sour.

With mill feeds at present prices, buttermilk is worth from 15 cents to 60 cents a cwt, according to the manner in which it is fed. If fed very liberally it would probably be worth about 15 cents. But if fed in a proportion of from three to five lbs, of buttermilk per pix per ediem, along abandoned the creamery for the milk-shipping station. With one of the shipping station. With one of the shipping station. With one of the standard makes of separators, the about 15 cents. But if fed in a pro-ceamery parton is able portion of times to five blus, of dispose of his cream at a price almost butternik per pixe diem, along dispose of his cream at a price almost butternik per pixe diem, along dispose of his cream at a price almost butternik per pixe diem, along dispose of his cream at a price almost butternik per pixe diem, along dispose of his cream at a price almost butternik per pixe diem, along dispose of his cream, but his sign doing well, it might have at the skim milk. Fed to holgs on the farm, be worth as much as 60 cas at the gives him another source of consider-that is 100 lbs. of butternik would able income. In addition, he will have

tawa

A Remedy for Grasshoppers

Many farmers have become heartily iscouraged in recent years because severe damage to crops by grass-ppers. Notwithstanding the great hoppers. Notwithstanding the great damage done, practically no attempt has been made, on the part of those suffering from the depredations, to kill the grasshoppers. Dr. Hewitt Dominion Entomologist, in his evidence before the committee on agri-culture at the House of Commons, endorses a particularly simple remedy for grasshoppers, which remedy is given in the following extract from is evidence

There is a very simple remedy for locusts which has been devised by a farmer in Manitoba, Mr. Norman Criddle, who is now doing some work of an artistic character for the De-partment of Agriculture. His remedy has been called "Criddle's Mixture." He found that locusts were very fond of horse-droppings and, knowing the habits of locusts, naturally conceived the idea of poisoning the horse droppings and farmers are now finding it a very cheap remedy. The method of a very cheap remedy. The method making the Criddle mixture is follows

Take 60 pounds of horse droppings to a pound of Paris green, which is the arsenical poison, and two pounds of salt. Mix them well in a barrel and then cart this barrel to the edge of the infested field, and by means of a spade, trowel, or wooden paddle. scatter it around the edge of the field which is infested, or likely to be in-fested, and the locusts by feeding on these horse droppings are poisoned.

Another method is plowing late in the autumn where there has been an

the autumn where there has been an attack of locusts. By so doing the egg capsules are plowed under and the young locusts prevented from emerging in the following year.

Another method which is frequently employed against locusts is that of using "hopper-dozers," which are long narrow tin trays on wooden frames shaped something like this (illustrating) with two ends. The trays contain water covered with coal oil, and as they are dragged along the field, the locusts hop into the trays and are thus caught.

Diseases Transmissible Through Milk

In an address before the Canadian Medical Association, met in conven-tion in Toronto last week, Dr. J. G. Rutherford, Dominion Veterinarian, stated that milk should never be used from cows suffering from chronic sepsis or retention of the placental mem-brane, and the following diseases were communicable through the milk to human beings: Cow pox, anthrax, communication through the mixture for young pug-sher grant take the place although the mixture for young pug-able for the mixture for young pug-table for the mixture for young pug-table for the mixture for young pug-table grant meal or feed for mixture and pug-les would not now a mixture for young pug-table grant for mixture for young pug-cases, trembles, actionwesses, and last of all and worst of all, tuberculosis. Scarlet feer also was traceable to cows

Tuberculosis should be attacked in the cow, and as that was the most common method of its tranmission to humanity, the stamping out of the disease amongst cattle would remove one ease amongst cattle would remove one of the great sources amongst human beings. Afterwards when there were no tuberculous cows the transmission of tuberculosis would cease to be a problem. The sale of milk from cows problem. The sale of mix from the control of the co cessory to the crime. "What, then," said Dr. Rutherford, "must we say said Dr. Rutherford, "must we say about communities that continue to authorize the sale of milk from cows known not to be free from the dis-case?"

Renew your subscription new-

Gasoline Engine as a General Farm Power

R. Nurse, Peterboro Co., Ont.

A gasoline engine such as I have is as as as as any lantern so far as fire is concerned. It is moderate in cost of fuel. About one gallon a horse-power per 10 hours is all that is required by my six horsepower I. H. C. vasoline owine. gasoline engine.

gasoline engine.

I run a general carriage repair shop, also a 10-inch plate grinder. I can grind from 12 to 15 bags an hour. The engine is very easy to operate, and I have had it for six years and it has given me but little bother

It is surprising to me that so many other forms of power are sold when these engines can be had. It would seem to me that gasoline engines will take the place of steam engines before many years. I cannot speak too highly of the gasoline engine as general power

Dairy Cow Queries

What is the object in keeping a what is the object in keeping a cow? Is it simply to consume the crops grown in the fields? Is it to supply home made fertilizer for the farm? Is it to give the hired man another chore?

another chore?

Is it not rather to produce plenty of good milk? To be of real service to mankind by converting feed that he cannot use into nourishing, appetizing food? While being kept for this purpose does she he can a profit? Does he had to be purposed on the can be purposed.

purpose does sne earn a profit Does she pay for her keep?
Would you be better off if you sold the feed instead of keeping some of the cows that you now have making a pretence of using it profitably? Does each one of your cows produce milk at a cheaner rate per bundred milk at a cheaper rate per hundred pounds than the factory pays? Does each cow in your herd produce milk or butter fat at a good profit above the cost of feed? Do you think so or just make a guess at it, or do you know for certain? How else is your

just make a guess at it, or do you know for certain? How else is your labor to be paid for?

Do you keep records so as to find out these things, or are you content to keep a few poor cows in a behind-the-times style? Men who used to get only 3500 lbs. of milk and 133 lbs. of



A Bank Building in New Ontario

A Bask Building in New Outario
The day when banks waited for husiness to come to them has passed. Now,
they are as aggressive in seeking new
business as men in other lines of business. The illustration shows the handsome building of the Bank of Ottawa,
orreted at Cochrane, at the junction of
the Temiskamingue and Northern Ontario
Railway, and the National Transcontin
ental Bailway. A year and a half ago
known. It is 400 miles north of 7.5%,
and about 140 miles from James Bay.
A few years ago we thought this district
was nothing but a land of rocks and ice.

fat per cow, are now getting 4800 lbs, of milk and 186 lbs, fat, since beginning to keep records. Would you not be glad to obtain a similar increase of over 40 per cent.? Then keep records.—C. F. W.

In order to build up a dairy herd, it is important that the dairy farmer should know a dairy cow when he sees one.—Wm. Reid, Lambton Co., Ont.

FARM MANAGEMENT resessessessessessessessesses

A Rotation of Soiling Crops

Could you give rotation of summer soil-ing crops after peas and oats to be fed green, and name of earliest corn to be fed before silo corn is ready.—A. F., York Co..

Very few crops come to maturity Very few crops come to maturity after peas and oafs can be harvested to advantage for soiling. The following, however, will do fairly well. First, white or strap-leafed turnips, the root and leaf both being very acceptable to cattle and the feed leaving no perceptible dearent strains. tible flavor in the milk; these may be sown as late as the last 10 days of sown as late as the last 10 days or July. Second, sorghum: sown at the rate of about 30 lbs. an acre in rows 15 to 20 inches apart. This might be sown as late as the middle of July. Millet, sown 40 lbs. an acre; this might be sown as late as the middle of July

be sown as late as the middle of July the sown as late as the middle of July likely do very well, sown after the lat of July. It is possible, however, that an evergreen weet corn would prove fairly satisfactory.

A better plan than this attempting to get two crops off the same field in the way described is to follow a three-year rotation, that is, divide the area destined to the production of soiling crops into three equal fields and follow crops into three equal fields and follow thereon a rotation somewhat as below.

crops into three equal fields and follow thereon a rotation somewhat as below. First year-Corn, half evergreen sweet, half Longfellow. Second year-Peas and oats, four to Fee Market Second year-Peas and oats, four to five bushels an acre, seeded down with 10 to 12 lbs. clover and five to six lbs. timothy. Cut before the grain shows any teadency to lodge. Third year-Clover, fed off in late June and August. This will furnish solling crops from middle of June till end of September, provided, of course, area is sufficient.—J. H. Grisdale.

How to Test a Cow

What is the best way to test a cow? Should the milk or the butter be weighed?—Mrs. W. P., Algoma District, Ont.
It is necessary, if one would have the fullest information, to know now the rullest information, to know now many pounds of milk, also how many pounds of butter, a cow produces. The best way of getting at this matter is to weigh the milk at each milking, and on representative days throughout the month, take samples both morning and evening of the milk, and have this texted by means of the Bab. have this tested by means of the Bab cock tester for fat. With such data available, it is then possible to compute the pounds of fat and pounds of butter produced.

The method as recommended by the Dominion Government in connecthe Dominion Government in connec-tion with their cow testing associa-tions, requires less labor, though it, of course, is not as thorough as the method outlined. They simply weigh the milk twice a day, three times per month, on the 10th, 20th and 30th of each month. The weights for the ineach month. The weights for the tervening dates are then recko from the data obtained in this way. reckoned

Alfalfa Taints the Milk

Affaira taints the frilik
Would you kindly give through Farm
and Dairy the experience of growers of
affaifar who pasture it in spring. I have
milk cows in ten acre field, half in grass
and half affaifa. Milkman objects to flavor; customers in Toronto don't like it.—
A. P., York Co., Ont.

The objectionable flavor complained
of the Toronto customers would disce

of by Toronto customers would disappear in a few days and if the retailer in Toronto would take the trouble to in Toronto would take the trouble to mix the milk for a few days with that from other customers no objections would be made by consumers. The same trouble is observable in every dairy, but usually people do not object to the flavor of nev dover or alfaira, the thing wears off in a few days. It is in-possible to mix the milk with other milk, and so lessen the intensity of the flavor, is to let the cows out gradually

on to the clover or alfalfa, that is, feed well in the morning, let cows out for an hour or so and then return to the stable. This repeated for a few days or possibly a week, gradually extending the time of the cows on the clover or alfalfa, but always being and meal in the morning, roughage and meal in the morning, roughage the change from dry feed to such that the country of t lent so slowly that no objections will be raised.—J. H. G.

Long Alfalfa in the Silo

Have any Parm and Dairy readers tried cutting alfalfa and putting it in a silo for green feed, with chopping it up? Would it be possible to do so? If so, it would save a lot of work cutting and feeding it in field every day.—A. W. H., Oxford Co., Oxford Co.,

Ont.

Alfalfa has been treated at the Experimental Farm in the way described by your correspondent. It was, however, not entirely satisfactory, since it was found to be almost impossible to preserve the material for five or six preserve the material for nive or six inches in from the wall. The centre of the ensilage kept perfectly, but the outside always went Lad. Further, we did not find it quite so easily handled as when put into the silo through the cut box, that is, it was more difficult as when put into the sho through the cut box, that is, it was more difficult to feed and apparently not so accept-able to the cattle.—J. H. Grisdale. Agriculturist, C. E. F., Ottawa.

Concrete Fence Posts

Concrete-cement, sand, gravel and water combined in proper proportions
-has become one of the leading water combined in proper proportions
—has become one of the leading
building materials of the day. It
has shown its worth as a substitute
for wood; houses built entirely of cement, the trimming and supports of
wood being merely for decorative effect; it is used by the Government,
by railroads, by farmers in hundreds
by railroads, by farmers in hundreds
of ways, either alone or reenforced;
of ways, either alone or reenforced;
of defence posts. Its moderate cost, its
durability, the ease with which it is durability, the ease with which it is handled, the wide distribution of the sand, gravel and stone of which it is composed, commend it to the consideration of all builders.

As a material for fence posts, con crete has been found to possess but few of the disadvantages of wood, to have practically all of its advantages, and to be superior in some respects to timber. Of course, the first cost may be more or less than the best moden posts, but that depends on local conditions — the timber supply, the deposits of sand, gravel and rock, and the skill of the workman. have practically all of its advantages,

COMPARED WITH WOOD.

If manufactured as usual and cured for three months, concrete posts are as good as the best wooden posts. Afas good as the best wooden posts. Af-ter three years, wooden posts pos-sess only one-third to one-half of their original strength, whereas con-crete grows stronger with age, and needs no repairs, as neither weather nor fire injures it. Under ordinary circumstances concrete posts will last forever; and even if in the course of a few years a few should be broken by unusual strain, it is cheaper to replace them than to reolace an entire fence. them than to replace an entire fence of decayed posts with a material with the same lack of durability.

Concrete posts are attractive in ap-pearance because of their uniform size and color, and can be made either square, triangular or round, either straight or tapering towards the top. They can be purchased from dealers or made at home, and this latter plan to-gether with suggestions as to the congetner with suggestions as to the con-struction of the fence after the posts are made and cured, is the theme of Farmers' Bulletin, No. 403, recently issued by the U. S. Department of Agriculture.

A WARNING.

The pamphlet closes with a warning to persons intending to buy post molds, either steel or wooden, to be-ware of travelling agents who are sell-ing molds or rights for the sale or to persons intending to buy post

use of their respective molds. No dealings should be had with these agents except when fully satisfied through reports from one's banker or lawyer that the company represented by the agent is reliable and that the company is their authorized represents. by the agent is reliable and that the agent is their authorized representa-tive. Parents have been issued on special types of reenforcement, and they can not be generally used without danger of infringing patent rights; but none of the simple forms described in the bulletin is patented or patentable and they are just a good as the special forms advertised and recommended by the agents. No one need hesitate to use the simple form of construction recommended for its of construction recommended, for it has been in constant use in all coun tries for a number of years, and all claims that the general use of reenforced concrete fence posts is controlled by patent rights are unjustified and untrue.

To Drain Some Bog Land

I wish to drain some bog Land
I wish to drain some bog land and would
like to get information on the subject.
The land is black meke to on the surface,
with subsoil or mari or light soil which
chokes drain with slit deposits. The bottom of drain is not firm enough to keep
tile in line. There are a number of small
tile in line. There are a number of small
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(1) What would be the best material t

station.

(1) What would be the best material to use for such drain from an economical and effective point of view?

(2) I' of lumber how would you advise constructing box to give plenty of secpace constructing box to give plenty of secpace constructing with silitary to the state of the second point of th spruce and hemlock, 15 to 20 years, of tamarac, 25 to 30 years and of cedar, 40 to 50 years. The less that of the cedar, 40 to 50 years. The less that of the cedar, 15 tar paper about two inches wife is laid over the joints so as to lack about two inches of lapping on the bottom the difficulty with the sediment will probably be overcome, especially if care is taken to secure a grade of say three inches in 100 feet.

three inches in 100 feet.

To keep the tile in line they may be laid on a narrow strip of board. of laid on a narrow strip of board.

If you are so far from a tile yard
that three inch tile cost four cents
apiece it would probably pay you to
get moulds and make cement tile, as
they can be made for about a cent
each, not counting the price of the

moulds,

3.—In muck soils the drains should
be put about four feet deep, as the
muck settles about one-third as a
result of drainage and tillage.—W. H.

How often we find men on adjoining How often we find men on adjoining farms with practically the same work for their horses, frequently on the same feed, and yet one man has his borses in elegant condition while those of the other man are a disgrace to him-self!—H. Barton, B. S. A., Macdonald College, Que



A lame horse is a dead loss. Spay-A lame norse is a dead loss, Spav-in, Curb, Splint, Ringbone, Swollen Joints and Bony Growths won't cure themselves. Yet you can cure these troubles and make your lame horse sound with

Kendall's **Spavin Cure**

just as thousands have done, and are doing today. In the 40 years that this world's famous remedy has been on the market, Kendall's Spavin Cure has saved millions of dollars to horse

owners. Mounds, P.O., Olds, Alta. "I have used Kendall's Spavin Curefor a number of years with great success, and I think it can't be beaten

as an all-around stable liniment for Kicks, Strains, Swelling of all kinds, Ringbone and Spavin

ARTHUR FLETCHER. No telling when you will need it.
Get a bottle now—\$1—6 for \$5.
Our book—"A Treatise On The
Horse"—free at your druggists or write us

Dr. 2. J. KENDALL Co., Enosburg Falls, Vt.

NORTHERN **ONTARIO**

160 acres of land for the settlers in Northern Ontario. Situated south of the G. T. P. Transcontinental Railway, South of Windipeg, and 800 miles nearer the scaboard. A rich and productive soil, overed with valuable timber, it is rapidly in creasing in value.

For full information as to terms of sale, homestead regulations, and for special colonization rates to set tlers, write to

D. SUTHERLAND

The Director of Colonization PARLIAMENT BUILDINGS, TORONTO OP TO

HON. J. S. DUFF Minister of Agriculture

CARY FIRE PROOF SAFES

AND

VAULT DOORS

ALL SIZES

FORD & FEATHERSTONE HAMILTON, ONT.

W. T. SHERWOOD,

Representative.

********** HORTICUL TURE

The New Destructive Insects and Pests Act, 1910

C. Gordon Hewitt, Dom. Entomologist C. Gordon Hewilt, Dom. Entomotogus by the passing of the new Destruc-tive Insects and Pests Act by the Dominion Parliament the San Jose Scale Act is repealed. The new Act and regulations are of a wider character and of a far greater protective value to the fruit-grower and nurseryvarie to the fruit-grower and nursery-man. The fumigation regulations instituted under that act have been incorporated in the new regulations with certain alterations. Under the with certain alterations. Under the new funigation regulations conifers will be funigated. It is hoped that this will assist in preventing the introduction into nurseries of several species of woodly plant feet nursery stock and which are carried in the same. ried in the same.

In addition to the fumigation regu-lations provision is made now for:

1. The inspection at the points of destination of European nursery stock (which is still exempt from fumiga-tion), and such other stock as it may deemed necessary to inspect

The destruction of infested stock and packages, etc., containing the same and compensation for such matter as may be destroyed.

3. The inspection of orchards and nurseries and the treatment of infested vegetation.

ed vegetation.

4. The prohibition of the dispo in any way of vegetation infested with insects scheduled under the Act. The notification of the presence of any kind of insects, pests or dis

In view of the increasing amount of in view of the increasing amount of nursery stock imported through the port of Niagara Falls, the importa-tion season for that port has been extended and stock may now be im-ported between October 1st and May

Ist.
The attention of importers of nur-sery stock is called particularly to keculation 5, under which notification must be given of the importation of nursery stock. This regulation reads as follows:

"All persons importing nursery stock into Canada shall give notice to the Minister within five days of despatching the order for the same, and they shall again notify the Min-

ister on the arrival of the shipment

All nursery stock, including Euro-pean and such stock as is exempt from furnigation, may be imported only during the periods specified under Regulation 3, as follows: Regulation 3,

"Nursery stock, including trees, shrubs, plants, vines, grafts, scions, cuttings or buds, entering Canada shall be imported through the ports snail be imported through the ports and during the periods respectively hereinafter mentioned, that is to say: Niagara Falls, Ont.,—from October 1st to May 1st.

"Winnipeg, Man., and St. John, N.B.,—from March 15th to May 15th and from September 26th to December 7th

7th.

"At these points of entry the importations shall be fumigated in the fumigated house provided for that purpose, and a certification will be issued, using the fumination will be issued, using the function will be issued, using the function will be issued, using the function of bonds and the function of the funct

Treatment of Wounds

The argument in favor of dressing younds caused by pruning or other-ise on fruit trees is that it prevents wise on fruit trees is that it prevents decay and checks evaporation, both of which might interfere with the healing process. While in our climate the first is hardly applicable, the second should probably be doubly important. Yet, the matize of dressing wounds is not the matter of dressing wounds is not so important but that work improperdone is worse than no treatment. good lead paint is one of the most A good lead paint is one or the most satisfactory dressings yet found. Rather a thick paint should be used, and careless daubing of the surround-ing bark should be avoided. Grafting and careers around a special property of the company of the compan bothering with

bothering with.

These suggestions apply to wounds
made by the careless cultivator, as
well as those under by the pruner. Unsightly wounds and permanent injury
may often be avoided by proper treatment of trunk wounds. When the
lady of the tree is injured, the ragged
edges of the bark should be pared off
to sound tissue and the whole injury
covered with paint or grating wax. to sound tissue and the whole injury covered with paint or grafting wax. If promptly done, this prevents dry-ing out of the tissues, and new bark will readily form, except on parts where the outer wood cells are acwill readily norm,
where the outer wood cells are actually destroyed, and in time this will
grow over. Wrapping the injury with
grow over. Wrapping the ground, grow over. Wrapping the injury with cloth, or if it is near the ground, mounding earth up over it will often answer the same purpose.—Prof. O. B. Whipple, Colorado Experiment Stations

I have read Farm and Dairy for I have read Farm and Dairy for the last three years and think it is the best agricultural paper I have ever subscribed for.—R. H. Reynolds, Aird, Quelec.

The Proper Fertilizers

I am at a loss to know what kind of fertilizer is required on different varieties of vegetables. To different varieties of vegetables are not seen as the varieties of vegetables. The varieties of vegetables are not seen as the varieties of vegetables are not seen as the varieties of vegetables are not seen as the varieties of vegetables. The varieties of vegetables are not vegetables are vegetables and vegetables are vegetables of vegetables and vegetables are vegetables and vegetables are vegetables and vegetables are vegetables of v

In many cases it is quite impossible In many cases it is quite impossible to tell what a soil is deficient in with-out experimenting, that is, applying certain fertilizers certain fertilizers and noting the re-sults obtained. All vegetables require sults obtained. All vegetables require three main fertilizing materials—ni-trogen, phosphoric acid and potash. A fourth may be added, namely, lime, but this constituent is generally pres-ent in ordinary soil in sufficient quan-tity, although some instances are known in which lime has been proven the haddedigned. Where lime is lackknown in which time has been proven to be deficient. Where lime is lack-ing, the effect of an application may be most readily observed through the use of a small quantity on a small

For garden crops, such as cabbage For garden crops, such as calculations calliflowers, celery, tomatoes, leets, onions, carrots and potatoes, fertilizers applied at the following rates (in pounds per acre) have given good re-

sults; Cabbage, cauliflower, celery:—Ni-trogen, in the form of nitrate of soda, 2200-400; phosphoric acid in the form of superphosphate 400-600; potash, in the form of muriate of potash, 150-020

Beets and carrots:—Nitrate of soda superphosphate, 400; muriate of soda, sh. 140 potash.

Tomatoes:—Nitrate of soda, 120; superphosphate, 400; muriate of pot-

320 Onions:—Nitrate of soda, 100; superphosphate, 500; muriate of potash, 160.

Potatoes:—Nitrate of soda, Potatoes:—Nitrate of soda, 100; superphosphate, 400; sulphate of pot-ash, 200. You will notice that in the case of potatoes, the sulphate of pot-ash is used instead of the muriate

All three of the essential plant food ingredients must be applied to the soil nearly in the proportions indicated in order to get the best results, but in order to get the best results, but it must be remembered that no hard and fast rule can be given as to the quantities of fertilizers to apply, as these depend upon a great number of factors over which the producer has

no control.

Under ordinary conditions fertilizers should be applied some time before seeding except in the case of nitrate of soda. As this fertilizer is very solution of soda. of soda. As this fertilizer is very solu-ble, and, therefore, liable to be washed out of the soil before the crop is able to make use of it, the crop is able to make use of it, the green part of the application should be made after the plants are singled on the fer-tilizers should be sown Patients. tilizers should be sown broad either by hand or by a fertilizer tributor, and wherever possible har-rowed in lightly. A further comment I would add here is that careful ob-I would add here is that careful ob-servation of the tests on his own gar-den will enable the producer to follow such a system of fertilizing as will give him the most satisfactory results —Prof. W. P. Gamble, Ontario Agri-cultural Colloga cultural College.

Orchard and Garden in June

Control of moisture in orchard soils. box packing of apples, growing and box packing or apples, growing and marketing strawberries, ice storage, cherry growing, grape growing, plant-ing blackberries, the planting of windbreaks, and fruit in England are subjects of live interest treated in the June issue of The Canadian Hor-ticulturist, published at Peterboro, ticulturist, published at Peterboro.
Ont. Amateur flower growers will
find much interesting information in
the articles on ornamental grasses,
gladiolus culture, begonias, asters
and ferns. The lawn and garden

hints for June contain many practical and timely suggestions. A dealing at some length on Injurious to Vegetables," w will

Interest to vegetable growers.

Some of the contributors in this issue are Prof. F. T. Shutt, M.A., Some of the construction o McPherson Ross, Toronto; and C Bezzo, Berlin, Ont. This issue J. McPherson Koss, Toronto; and C. M. Bezzo, Berlin, Ont. This issue contains much that horticulturists will read with profit and interest. Sample copies will be sent free on request to the above address.

To have strawberries in the best condition for keeping and for market-ing, they must be picked and not pulled. At least one-half an inch of the stem should be picked with each bearry. Kean the poor misch through pulled. At least the stem should be picked with each berry. Keep the poor, mis-shapen and very small berries out of the boxes. The Lest policy is to market only sale-able fruit.—J. P. Dodds, Peterboro



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claimed for any other steel shingle.

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POULTRY YARD POULTRY YARD

How to Feed Broiler Chicks

Robert Smith, Lambton Co., Ont. When raising broiler chicks it is enerally customary to feed the chicks generally customary to feed the chicks neavily from the time they are two weeks old. Where the pullets are to be kept for layers, this is not to be recommended. We always feed the recommended. We always feed the batch in the usual manner till we can batch in the usual manner till we can select the cockerels. The age at which the cockerels can be selected varies with different breeds. In our case where we sell to the summer resorts there is little sale before July. Where they are sold to hotels they nay be marketed earher. Broilers should marketed earher. Broilers should marketed earlier. Broilers should bring high prices this summer, as fowl is very scarce.

If the cockerels are to be fed heavily, it is imperative that they have every advantage possible to give them in the way of housing and runs. Give in the way or mousing size in the bear in orthem plenty of room in the pen in order to allow for exercise on rainy
days. Have the house well ventilated and allow plenty of light. Make
deep size in the control of the control
or roomer than the control
to roomer that it is very one
healthy for them to that it is very one
healthy for them to that it is corner. Have the place warm and
never allow the droppings to accumulate. If the chicks cannot be induced
to sit on the roost, give them plenty
of clean chaff and allow no droppings
to remain under them from previous
nights. Where the youngsters are allowed to sit night after night on their
troppings, which are frequently wet,
troppings, which are frequently wet,
well invariably contract roup or
some other disease.

FEED THEM OFTEN.

The cockerels being selected and placed in a pen and having been pre-viously fed plenty of wholesome feed placed in a pen and having been previously fed plenty of wholesome feed, should be in vigorous build hand ready to stand plenty of ready the ready of the previous property of the ready of the previous previous

always do better on the same quantity fed every two hours than when twice the amount is fed four times a day. The mash we feed is composed as follows: Corn meal, finely ground, three parts; shorts, one part; bran, one part—by weight. To this we add a little ground flasseed or oil cake. Where ground home, or rest a little ground laxseed or oil case. Where ground bone or meat scrap cannot be procured readily so that it may be fed before it decays, add to the mash ground animal meal. Dampen the mash with skim milk; do not Where

Elm Grove Poultry Farm

Offers for sale 20 one year old Barred tock hens at \$1.00 each; also 15 Rose Comb frown Leghorns, \$1.00; and a number of ne year old Rouen ducks, cheap.

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EGGS from pure bred Buff Orpingtons, one dollar per fifteen. Imperial Pekin Ducks, ten cents each.—Miss M. Gerrie, Ingersoll, Ont.



EGGS GIVEN AWAY in return iggs given away in return for new subscriptions. A set-ting of eggs of any standard variety of fowl, given away for two new subscriptions to Farm and Dairy. Send to Cir-culation Manager, Farm and Dairy. Peterbore.

recessessessessessessesses have the mash more than damp

have the chick will leave the roost, feed them a liberal feed of wheat tailings in a litter. At 9 a. m. food is given. This feed dewheat tailings in a litter. At 9 a. m. green food is given. This feed depends largely on what is procurable; mangels and cabbage are excellent, but are generally fed long before this time of the year. Potatoes are now selling unusually low, and they form a desirable green food. Lettuce, raice, raice, raice, raice, raice. Lettuce, rape, a desirable green food. Lettuce, rape, etc., are good when cut with a meat chopper. At 11 a. m. feed the mash. At 1 p. m. boiled rice is fed; this keeps the chicks free from bowel troube and indigestion, and cheap grades of rice can often be procured from stores. At three we feed mash again. At five mash or cracked corn is given. (There is considerable waste in some

ases if the corn is ground too finely.)
We are careful to see that the chicks We are careful to see that the chiess always have plenty of fresh water be-fore them, as well as grit and granu-lated charcoal. We feed in shallow tins or troughs. We are always very careful not to overfeed; overfeeding careful not to overfeed; overfeeding is a very frequent cause of failure. We leave the pans till the chicks seem satisfied and then remove them. The mash should never be dished up the second time. One soon learns how much is required at a feed.

First Experience with Incubator

Mrs. Newton, Labelle, Co., Que., tought an incubator this spring and set 142 Barred Plymouth Rock eggs. For fear she would not be able to run the machine and wanting to make sure of chicks, she set six hens on 78 eggs. From 142 eggs she hatched 113 chickens. From the 78, she hatched 30 chicks. She claims that the former are doing just as well as those hatched by the natural means.

by the natural means.

By the time the chicks were three weeks old, she had lost only three, none of which died of disease. Mrs. Newton is quite emphatic in saying that any person of ordinary intelli-gence can run an incubator if they are willing to follow the instructions of the manufacturer.—F. C. E.

Egg Laying Ducks

Many farms near the large Eastern American cities keep certain kinds of American cities keep certain kinds of ducks just for the purpose of egg laying. Duck eggs are in demand by bakers and confectioners and bring a higher price per dozen, being larger and of richer quality, than hens' eggs. The Indian Runners, often called the Leghorns of the duck family, are seem-

Leghorns of the duck family, are seemingly the favorites for this purpose, as they have laid as many as 200 and more eggs in one season. The farmer just wanting enough ducks for home consumption and a few for the neighboring town or city, cannot do better than to fatten his old stock from the very day that egg laying ceases.

It does not pay to hold over old ducks past their annual laying. The only exception to this rule is the fact that some localities and people are averse to having duck on the table prior to the time that "the frost is on the pumpkin" and in such case of course it may be of advantage to allow the old birds fullest liberty at one-half of their regular ratio until the

the old birds fullest liberty at one-half of their regular ration until the demand for them has set in. The young ducks that are intended for the early or summer market are called green ducks. They must be kept in close confinement and fed lib-erally, so that their greatest weight may La attained when 21 weeks old. orally, so that their greatest weight may be attained when 21 weeks old. This is the time of their first moult and greatest profit. In lecalities where fresh brower's grains can be had daily, a ration consisting of one-third of it and mixed with two-thirds of the following in equal proportions; is a good one: Corameal, middlings good one: Corameal, middlings beef scrap and 25 no eest. of greens chopped fine, is added—H. I.

Renew your subscription now.

Chicks Have Disease

My young chicks this spring have some disease. I think it is diarrhoea. What would you advise doing for them?—A. R. Victoria Co., Ont.

The description you give is so very meagre that it is impossible to say what the trouble is. If however, you think it is indigestion, which is think it is indigestion, which is often shown by the presence of diarrhoea, you will do well to give a little scalded milk or boiled rice. If this does not have the desired effect, try muriatic acic' in the drinking water, one spoon-ful to the quart. Ask at the drug store for muriatic acid B.P.—F. C. E.

Anxious about Young Turkeys

My turkeys when small are fed hard-belied eggs; bread and milk is given when they get a little larger. I have great trouble with them when feathering out. Many of them die about this time. What would you advise doing for them?—Mrs. A. McC., Huntingdon, P. Q.

A. McO., Huntingdon, P. Q.
This spring has been very hard on young turkeys. The feed you are giving them is all right, and as you do not state the quantity you are feeding it is difficult to say what is the matter. When feathering out, turkeys will do well on any wholesome food; young turkeys are always delition.—F. C. E.

Poultry Pointers

f you have been breeding "any thing," get some eggs from a reold thing," get some eggs from a re-liable breeder, hatch and start now to raise some good poultry and raise Kings Co., N. S.

some pure bred poultry. They will eat no more, sell and look better. Or-der eggs and start to-day with a resolution to have better poultry.

Exercise during the winter months is very necessary to both cocks and hens, if we wish fertile eggs for hatching

Clover not only promotes digestion but also largely assists in supplying the elements necessary for egg production.

Take a foot square of grass sod and place it in one corner of the brooder pen and note how much is left of the roots and how the little chicks enjoy

On a well cultivated field chickens can be raised for just half what they would cost to raise on a grass plot.— Prof. W. R. Graham, O. A. C., Guelph, Ont.

You need not be afraid, but just let the chicks and fowls of all ages and sizes have all the wheat tran they will eat. Keep it before them all the time; it is one of the best feeds. Let them eat it when they wish. It is one of the most profitable feeds to feed and is more profitable to feed it in this way.

I am sending \$1 to renew my sub-scription to Farm and Dairy, which paper every farmer should have. It is one of the best farm papers printed. I have told my neighbors about Farm and Dairy, and I hope they all will



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The Dain Vertical Lift feature is controlled mechanically-not by sheer human strength, when raising the cutter bar over stumps or stones; or in turning corners. A pull at the hand lever or a push on the foot lever, and the cutter es ares all obstructions. In raising the cutter bar to an upright position, for transportation, the operation is made an easy and rapid one by using the hand lever and the foot lever together. This automatic control is at the driver's right. It is worked while in the seat.

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of feel that they can deal with our adverour feel to be a sent of the sent

FARM AND DAIRY PETERBORO. ONT.

A DANGER LINE TO AVOID

Advanced registry, or record of performance tests, have been adopted by the more prominent dairy breedassociations. Such tests have value. For that reason we bein them. They have done more than any other one factor to lead our farmers to take a greater interest in the milk production of their cows and to demonstrate the possibilities of the average dairy cow. It is questionable, however, whether or not there are not some features of the advanced registry that may not require safeguarding. Of late the values of cows with large official tests have increased so greatly there is a possibility of some breeders being led to adopt methods of breeding and feeding that will ultimately prove disastrous.

The value of a breed or strain is apt to be judged by the number of animals it has in the Register of Merit. To such an extent is this the case that it is only natural for breeders, in order to satisfy the popular demand, to breed for performance alone and essentials demanded of a good dairy breed. It is a strong willed man who can resist the temptation to breed from cows with large records, but lacking in constitution, even though he realizes that he may thereby be propagating a weakness in the breed.

Constitution and fecundity should never be forgotten in breeding dairy cattle. Neither of these characteristics necessarily accompany the ability to produce a large amount of milk in a short space of time. Far-seeing breeders recognize this fact and avoid breeding from animals when they find them deficient in these points, even although they may have large milk records.

Advanced registry having been in ogue only for a short time, the unortunate results that may accompany it unless care is taken, are not yet much in evidence. Progeny of high record cows, even though they be of faulty constitution, are much in demand. It is a well known fact that such cows, when their constitutions have been impaired, drop strong living calves, but rarely. The proportion of cows that have been great performers that are dams of great performers is not as large as it should be. Many of the highest producers have not dropped a normal number of healthy calves. At the same time it should be remembered that performance and fecundity may and in most cases do go together. Both these points should be kept in view in preeding operations. The danger point is reached when members of a family of any dairy breed achieve fame as producers. They then demand the most careful breeding and selection possible, to prevent constitutional deterioration.

The situation is much like that which existed for a time when the value of pedigreed stock first became apparent. For some years unjustifiably high prices were paid for almost any kind of an animal that had a pedigree. When, however, it became known that there were scrubs even among pure bred stock more care was exercised by purchasers. We must be on our guard to see that we do not make the same mistake by concluding that any animal bred from high milk producing stock must for that very reason be perfect in every other respect. Fortunately the large records that have been made in Canada so far have been made by animals, almost without exception, possessing remarkable constitutions.

CO-OPERATIVE EGG HANDLING

The farmers in the districts immedately adjacent to Peterboro have shown themselves very much alive to the possibilities of the fresh egg business. The movement, set on foot two weeks ago by Farm and Dairy, looking towards the formation of cooperative fresh egg circles, has met with a ready response. In each of the five districts selected in which to try out the scheme organizations have been formed, and the work of marketing the eggs of the farmers interested, on the new basis, it is anticipated, will be soon an accomplished fact.

The cooperative marketing of eggs is no new thing. The Danes have made thereby overlook the other important a success of it for years. It has been tried and has proved successful in DESTRUCTIVE INSECTS AND PESTS parts of Canada and in the United States. The time has come when farmers of this country no more will Le content to allow from three to five commissions on their produce before it reaches the consumer.

The principle on which these coop erative egg circles are being organized is a right one, and it is bound eventually to win out. The farmers of the Peterboro district are to be commended for their foresight in taking up this scheme as readily as they have. It is only a question of time until the principle of cooperative egg circles will be adopted elsewhere and eventually spread throughout the Dominion.

There are those who contend that it is impossible for farmers to cooperate. Such contention, as is well known, is utter fallacy. The history of our dairy industry and of the cooperative movement in the fruit industry is testimony to the fact that farmers can cooperate and that most profitably to themselves.

There are and always will be some with whom this principle, in operation, will be impossible. These men need not receive consideration, for we have enough of the better class of thinking farmers who recognize the great advantages that will accrue to themselves through marketing their products on a cooperative basis.

SCALES DISPLACING THE PIPETTE

Leading dairy authorities in various states of the American Union express themselves in positive terms on the question of the superiority of the gravimetric method of measuring samples of cream for the Babcock test. Professor C. H. Eckles, of the University of Missouri, whose letter appeared in Farm and Dairy last week, states that the farmers of Missouri would not be satisfied with a test made by a pipette and that they are entirely justified in taking this position. The law in several of the states, including, in fact, nearly all the leading dairy states, requires that samples of cream for testing be weighed rather than measured for testing.

It is gratifying to learn that our reamerymen in Canada are coming to ecognize that the scales afford the only just means of taking samples of cream for testing. Mr. Mack Robertson, Creamery Instructor for Northern Group in Western Ontario, reports that almost 50 per cent. of the creameries under his instruction have adopted the scales. This is a most satisfactory record. Other creameries will do well to follow their example and thereby remove one of the greatest sources of doubt and error in connection with the Babcock cream test.

Patrons of cheese factories, cheese makers and others interested in our dairy industry, so far as cheese is concerned, should give heed to the advice of Mr. Frank Herns, Chief Dairy Instructor for Western Ontario, published in the cheese department of this issue. Careful attention to and application of the points brought out cannot fail to have a marked influence on the quality of the cheese manufactured during the warm summer weather.

ACT

The new Destructive Insects and Pests Act, and the regulations embodied thereunder by the Dominion Parliament, are of very great importance to the fruit growing and nursery interests of Canada. A brief review of this Act by Dr. Hewitt, Dominion Entomologist, may be found on the horticultural page of this issue. The Act appears to be very complete and covers all possible destructive insects, pests and diseases that should be guarded against by law.

The Act applies to the following insects, pests and diseases: The San Jose Scale (Aspidiotus perniciosus) the Brown-tail Moth (Euproctis chrysorrhoea), the Woolly Aphis (Schizonura lanigera), the West Indian Peach Scale (Aulacaspis pentagona), the Gypsy Moth (Porthetria dispar), Potato Canker (Chrysophlyctis endobiotica), parasitic diseases affecting potatoes externally or internally, Branch or Stem Canker (Nectria ditissima), Gooseberry Mildew (Sphaerotheca nors-uvae), White Pine Blister Rust (Peridermium Strobi).

In view of the great destruction that may be worked by any one or all of these pests, it is most commendable that the authorities at Ottawa recognize the national importance of keeping these insects and diseases in check. Anyone interested in horticultur should send to Dr. Hewitt, Dominion Entomologist, for a copy of this new Act and become acquainted with the details of the same.

AN AWFUL INFANT MORTALITY

According to the findings of the Milk Commission of the Canadian Medical Association, 10,000 children under five years of age died in Ontario last year and 50 per cent. of these deaths were due to impure milk on which they were fed. This is a lamentably large infant mortality, and of this it is said that at least 50 per cent. of those who died under the age of five years died from some kind of infantile diarrhea or kindred preventable diseases; under the age of two years the proportion was 90 per cent.

In introducing the report of the Commission, Dr. J. C. O. Hastings, at the general session of the Canadian Medical Association, which met in Toronto last week, stated that there was no problem in preventative medicine of greater significance than that of removing the dangers that existed in the ordinary market milk. He drew attention to the fact that because one child died from rabies, every dog in Western Ontario had been muzzled and asked why were not some stringent measures taken to save the 5,000 children, under five years of age, who, at a conservative estimate, might have been saved to Canada by preventative measures last year, out of the 10,000 that died. Certificates were required before druggists, doctors and even undertakers could practice, but any ordinary foreigner, o. man, who is willing to do the work, could come in and milk the cows and send out the milk, which filled the coffins of the undertaker.

Much censure is rightly coming to

many milk producers. We often lose mer they produce a great mass of tangled root stocks, which almost completely fill the soil. In this condition, and one that is most readily contaminated. Estimate the system of the stock of est care in its production, keeping everything clean and selling milk only from the healthy cows, is little, if anything, short of criminal. The best of us may well ponder on this question and do our utmost to live up to the responsibility that is ours when we engage in the business of milk pro-

Instruction in Drainage

The drainage demonstrations given The drainage denonstrations given by experts sent out by the Ontario Arricultural College are most inter-esting and instructive. A demonstration was recently held on the farm of Mr. Pollard of Durham Co., Ont., Mr. Hopkins of the O.A.C., who was in charge of the demonstration, explained the advantages of designation.

pletely fill the soil. In this condition, it is utterly useless to try to kill quack grass. Success can be obtained, by any practicable means, only by attacking the grass at a time when its root stalks are at or near the surface. The secret of success lies in making the attack on the grass when there are no deep root stocks to contend with.

A SUITABLE ROTATION.

The rotation advised for quacky land is as follows: Corn followed by peas and oats, for grain or hay, followed by the peas and oats, for grain or hay, followed by timothy or clover with quack crass growing in it, the timothy and clover being left down for two years. It is advised that the disc harrow be used in preparing the seed bed instead of plowing for the oats and peas the peace of the control of the peace of the control of the cont in charge of the demonstration, explained the advantages of drainage in summer, the timothy and clover field carrying off surplus water and preserving moisture in the soil for the down for the davantage of crops during the dry close, the field should be clipped so season. He also gave instances of the great increase in the value of the crops and showed how wet lands could be made productive by means of the second year. About the middle of the second year.



Farmers Learn the Principles of Scientific Drainage at First Hand

Actual drainage demonstrations given in the field, are an important feature of the work of the surveyors sent out by the Dept. of Physics of the Ontario Agricultural College. The above Illustration, taken on the farm of Mr. Pollard of Durham Co., Ont., shows the interest which these demonstrations create.

How to Kill Quack Grass

How to Kill Quack Grass

Unless one understands how to deal

unless one understands how to deal
with quack grass, the fight against
the pest is practically hopeless. During the past two years, Mr. J. S. Cates,
of the office of Farm Management,
U. S. Department of Agriculture,
Washington, has studied the habits of
quack grass and from this study has
demonstrated the effectiveness of a
particular rotation in practical use.

The principle involved is as follows:
The under grass is a pest because of
the principle involved is as follows:
The under grass is a pest because of
the principle involved is as follows:
The under grass is a pest because of
the principle involved is as follows:
The under grass is a pest because of
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the principle involved is a pest because of
the principle involved is a pest because of crops, the underground stems are turned to the bottom of the furrow slice, and during the succeeding sum-subscription to Farm and Dairy?

underdrainage. By actual demonstration, he showed how the proper direction for the drains was ascertained also the depth and fall for the title.

These demonstrations being held in fields where drainage is to be done are of great value since farmers can see with their own eyes just how the work is planned; it makes a much greater impression upon him than if they were to read it in a bulletin. These demonstrations are being held for the season was the old root stocks being turned up at this time and not allowed to grow any more, will die before the following spring. It is accessary that hand should be harrowed frequently after the plowing so meessary that hand should be harrowed frequently after the plowing so be very near the surface. The plowing being done at a time when the
stocks have not yet formed
for the stocks have not yet formed
for the stocks have not yet formed
for the stock sheet
ing turned up
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ing turned
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the

Making a Great Spread.—The manure spreader spreads fortility over barren fields; it eventually spreads the crop yield into larger proportions; it spreads ease and comfort over an otherwise disagreeable, hard and comfortless task; it spreads granaries into larger size and the farmer's bank account over more pages into larger size and the farmer and into larger figures; it spreads aspurabless in the mind of the farmer and in the mind of the farmer and in the mind of the farmer and in the spreads assurance of larger yields and better profits in the soul of every tiller of the soil who has enterprise enough to spread himself into the possession of a manure spreader. That's what the spreader does.



The Cows on a Thousand Hills

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> Cocoanuts Chocolate

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DESCRIPTION .- It has only two parts, the case and the roll, and can be taken apart for cleaning.

Four knives are supplied with each machine: to cut coarse, to cut fine, to pulverize, and to make nut butter. Substitution of one for another can be made without taking the cutter apart. Any particle of food which can be cut with a chopping knife, can be winced with this machine more quickly, quietly and thoroughly. Working against the steel disk the knives sharpen themselves. The cutters are nickel-plated; all other parts of the machine heavily tinned. Constant use keeps the cutters sharp.

Circulation Manager

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The Wheels are steel, well con

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rows of these teeth. The Pressure

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best of materials and embodies all th are steel throughout, with ball and roller bearings. The Scrapers work freely (we use a patent disc cleaner) The Seat is within easy access of shifting and scraping levers. The weight on horses' necks.

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and long fibre sizal, and will measure 550 ft. to the pound. It is of superior strength ed with 22 ft. DIAMOND good rope. against destruction by grasshoppers, crick-BRAND MANILLA ets and insects of all kinds, due to a preparation

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Our 1910 Model Tep Buggy is nade by men who know all the made by men who LDOW all the require-ents that go to make a buggy strong, dur-able and easy running. The fluish is of the very best and all parts are made in proper proportions, nothing but the best of seasoned woods being used. It has 1.000mile dust roof axles, metal rail around dash top, leather trimmed, beliows back and bailey loop. Shipping weight 475 lbs. N2-112. Complete, with

enamelled tipped, patent eather trimmed, quick shift shaftsand steel tires. Delivered n Ontario 65.00 Delivered in Quebec and ritime Provinces.

N2-114. For pole, well braced and neck yoke, add to

STEEL SULKY RAKE



6 teeth, and where the teeth are fastened angle teel is used. The shafts on our rakes may be one or two horses.

N2-205. Width 8 ft.; No. of teeth 26; Weight 410 bs. Delivered to your nearest railroad station

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ALL STEEL HAY TEDDER

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to be proof

By using the Hay Tedder, hay that has seen cut in the early morning can usually be cried and put under cover the same day, thus olding much labor and a possibility of los rom bad weather. It has been thoroughly tested, and is highly recommended by those who have tried it as a perfect machine.

N2-220. Shipping weight 570 lbs. Price livered to your nearest railroad sta n Ontario 37.00

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WIRE FENCE



This ferroe is all No. 9 galvanized wire. It has the only one-pieced lock on the Canadian market. The unbroken nice-of wire the top lateral extends to the bottom interal, forming the lock and completion the control of the control o

******		With 24-Inch 8t	mv.	
No. N2-825 N2-326 N2-805 N2-827	No. of Horizontal bars 5 6 7	Height in inches 35 42 48	Shipping weight per rod 7½ lbs 8 "	Price per rod delivered in Ontario 260 300
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OUR COMPLETE LINE OF FARM MACHIN-

Creamery Department

Butter makers are invited to send controlled to the first that the makers are invited to send controlled to the department, to ak quasification to that department, to ak quasification to the department, to ak quasification to the department, to ak quasification to the department, to ak quasification that the properties of the milk separated of the tendency is to increase the percent. If a time the tendency is to increase the percent. The richness of the milk separated affects the richness but not the quantity of cream. The richness of a controlled to the controlled to the tendency is to increase the percent. The richness of the milk separated to the tendency is to increase the percent. The richness of the milk separated affects the richness but not the quantity of cream. The richness of a controlled affects the richness but not the quantity of cream. The richness of the milk separated affects the richness but not the quantity of cream. The richness of the milk separated affects the richness but not the quantity of cream. The richness of the milk separated affects the richness but not the quantity of cream. The richness of the milk separated affects the richness but not the quantity of cream. The richness of the milk separated affects the richness but not the quantity of cream. The richness of the milk separated affects the richness but not the quantity of cream. The richness of the milk separated affects the richness but not the quantity of cream. The richness of the milk separated affects the richness but not the quantity of cream. The richness of the milk separated affects the richness but not the quantity of cream. The richness of the milk separated affects the richness but not the quantity of cream. The richness of the milk separated affects the richness but not the quantity of cream. The richness of the milk separated affects the richness but not the quantity of cream. The richness of the milk separated affects the richness the properties. The centralization of creameries in Saskatchewan was strongly recommended by Hon. W. R. Motherwell, Minister of Agriculture, at a recent dairy convention held in Saskatoon. Under the present system the Government passipping expenses on cream shipped from any point in Saskatchewan to the nearest creamery in the war to the nearest creamery in the Jarze central creameries is more profit-large central creameries is more profit-large central creameries is more profit-large. large central creameries is more profit-able to the farmer than were they to establish numerous smaller local cream-

The advantages of centralization of The advantages of centralization of creameries were shown by a reference to the creamery business of Manitoba. Of the 30 creameries in Manitoba last year about one-half of the butter made was turned out at the creameries; hour of these manufacture nearly half of the entire creameries; four of these manufacture nearly half of the entire creamery output. Centralization greatly reduces the cost of manufacture.

Centralization greatly reduces the cost of manufacture.

The idea of centralization as recommended by Mr. Motherwell was endorsed by Mr. W. C. Paynter, president of the Tantalian creamery, one of the finest in Saskatchewan. He appropriate some system of Government of Government of Government of Government supervision of Government supervision of Government should undertake togethe Government should undertake togethe Government, should be government, shoul

Why Cream Tests Vary

Variation in the tests has caused

Variation in the tests has caused much dissatisfaction in the selling of cream. When the cream is from of cream. When the cream is from the country of the cream country of the cream should remain the same man, are often made in making tests, especially in taking the sample, but variations constantly occurred to the cream common causes of these variations, as pointed out in a circular, No. 37, by Prof. C. H. Eckles, of the Missouri Agricultural Experiment Station, Columbia, Mo., are as follows: Agricultural Experiment Columbia, Mo., are as follows: Station,

1. Variations in the speed of the

parator.

2. Variation in temperature of milk separated.

3. Rate the milk flows into the

machine. 4. Amount of water or skim milk used in flushing out the bowl.
5. Change in the richness of the

nsed in flushing out the bow!

5. Change in the richness of the milk separated.

6. Adjustment of the cream screw. Change in the speed of the separator, is the most common cause of variation. The greater the speed of the separator, the smaller the amount of cream and the higher the per cent, of farm the separator of the milk separated varies on the farm from day to day. If cream tests 30 per cent, when the milk is separated at 9 per cent, when the milk is separated at 9 per cent, when separated at 20 degrees, it may test as high as 40 per cent, when separated at 20 degrees. Under average conditions on the farm, however, the variation in fat due to change of temperature will not amount to more than three or four per cent.

A third cause of variation is found

Wash the Separator Each Time

People must needs stretch their sense of what is right and proper when they are content not to wash the eparator after each and every time it separator after each and every time it has been used for separating milk. Be-cause the parts are concealed and so do not show from the outside their need of being cleaned, some people have become very lax in this matter of washing separators, and this fact is responsible for much of the poor qual-tity eream delivered to the creameries of this country.

water.

This solid matter contains myriads of harmful bacteria which commence their work immediately if the temperature is right, and it is sure to be at this season of the year, and they soon put the separator in a condition where it is practically impossible to where it is practically impossible to dean it properly with a single washing. We have altogether too much of long. We have altogether too much of a superature only once a day, and as separators only once a day, and as seed, and all realize our responsibility when caring for the cream separator.

Aside from our duty in this particular, there is always a possible chance of embarrassment owing to a Govern-

ment inspector calling to inspect the sanitary condition of the machine. In separator?

BUY THE

The Most Sanitary Mik Can Made



Seamless Body

Holds eight gallons Imperial measure

The body is pressed out of one piece of 18 gauge steel plate—retianed. It is entirely smooth on the inside. Has no seams or corners for dirt and sour

mils to collect in.

Easily kept clean and sanitary.

The bottom is well protected by a heavy welded hoop and the can is further strengthened by an additional hoop which encircles the body at the breast.

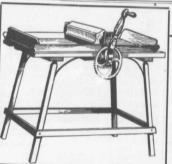
It is also fitted with a scamless cover which fits tight and flush with the top of the breast, preventing the milk from splashing around in transit. Supplied with massive wrought iron upright handles or malleable drop handles as desired.

CANADA MILK CANS are made by:

The Thos. Davidson Mfg. Company, Limited Montreal & Winnipeg

And are Superior to any Foreign Milk Cans.

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Write to us for full particulars; we will gladly give Information and send our Booklet Free on request

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find your

SS

It is

ed

Frank Herns, Chief Dairy Instructor for Western Ontario.

Frank Herns. Chief Dairy Instructor for Western Ontario cheese, up to the present time, June, 1, have with a few exceptions been of fine quality. When everything is going along smoothly we are liable to get a little careless, then warm week endited arise and we have some of the distribution of the contend with, and pendaga a few new ones. It usually taken as a few new ones. It usually taken to adjust ourselves to the changed it contend with. The milk frairier and tainted, some open off-distored in cheese are reported and we suffer it cheese are reported and very cheese during the hot months. Not cheese during the hot months. Not cheese during the hot months was the suffer in the way of cooling the suffer in the way of cooling the suffer cheese and the content of the cheese, and of orth, that we hardly realize a the occasion of the cheese are care during at the content of the cheese are the cheese, and of orth, that we hardly realize a the cheese are the cheese, and we warm weather until we are Lrought or part of the cheese are cheese, and the content of the cheese are cheese, and the content of the cheese are cheese and the cheese and the cheese and the cheese are cheese and the cheese and the

THE PATRONS.

Every patron should build a milk-house, containing a tank preferably of cement in which to cool the milk. It coment in which to cool the milk will contain the same part of the milk will be same. As soon as milking is sinished pater. As soon as milking is sinished pater. As soon as milking is sinished properties on the cans. Milk does not require dipping or pouring. Immediate more properties of the milking will point in the same provide a tank or tub in which to place the cans surrounded with cold pace the cans surrounded with cold pace the cans surrounded with cold pace the cans use to in the water, if not, change the water a sufficient number of times to insure proper cooling. See a thermometer, it costs very little and it will pay.

will pay.

Encourage your neighbor to follow
these methods, point out to him that
when the milk arrives at the factory
the must be mixed and that you do not
intend that he shall lower the quality
of your milk by neglecting his own.

CARE OF THE CANS. CARE OF THE CANS.

Pay particular attention to the scalding and washing of the cans, use a brush for washing. Milk cannot be free from taint, and in proper condition for making finest cheese if storadi in a can not properly washed. Discard the old rusty on No person can wash it properly. It has served its time, and since becoming rusty has lost enough dollars through tainted milk to buy many new cans. No cheese milk to buy many new cans. No cheese has lost enough dollars through tainted milk to buy many new cans. No cheese maker can nossibly make fine cheese from milk that is over-ripe or tainted, then why attempt to supply milk that has not Leen properly cooled and stored? It means poor the cooled and stored? It means poor the cooled and stored is the many poor to the cooled and the cooled a

REJECTED MILK.

Do not be annoyed and talk of going the common of the comm Do not be annoyed and talk of going

Cheese Department

Makers are invited to send contributions to this department, to this department, to this department, to the department departme

it.

The Dairy Instructors will come to
the farm and help the patrons in every
way possible, giving suggestions and
offering remedies for difficulties, which
may be met with in handling the milk.

THE CHEESE MAKER.

Cheese-maker should keep every-thing in and about the factory clean and tidy, then insist on the patron sending sweet clean milk in bright cans. If the whey has to be returned, send it home clean and sweet; properly pasteurized if possible.

send to home cleans and some, properly pasteurized if possible.

Be firm but courtcous with the patron. A man who loses his temper is very likely to say things that he will afterwards regret. Reject milk that, in your judgment will not make fine cheese. It is true that it make fine cheese. It is true that it made localities competition is keen and a few patrons may, when the selection of the milk in some other way, but this case not do away with the fact that milk is an article of food and must receive some care, whether it is made into cheese or some other dairy product.

COOPERATE WITH MAKERS.

COOPERATE WITH MAKERS.

COOPERATE WITH MAKERS.

Do not take in milk rejected at another factory. You are not likely to make any better cheese out of it than the maker who first rejected it. Coperate with your neighboring makers

If the maker who first rejected it. Cooperate with your neighboring makers
it on this point.

Use the curd test on tainted milk
and explain to the patron what causes
the trouble. Do your best to impress
so in the mind of the patron to impress
so in the mind of the patron to impress
so in the mind of the patron to impress
so in the mind of the patron to impress
so in the mind of the patron to impress
so in the mind of the patron to impress
so in the mind of the patron to impress
so in the mind of the patron to impress
and a far few words of advice from
yourself or the Instructor will often
save many dollars. It is the business
of that produce the patron to impress the patron
save many dollars. It is the business
of the milk of the cheese and
general dairy conditions. Help him
all you can Remember the future of
the busining depends on quality. Look
out for open weak bodied cheese. Be
quick to note the necessary changes
in method to prevent this condition.

Let everyone the patron to the patron the patron
and you would be patron to the patron
in method to prevent this condition.

Let every best on record.

Responsibility on Patrons

Responsibility on Patrons

Editor Farm and Dairy.—The only
fair way of dealing with the patrons
relative to their interests in the products of the cheese factory is to pay
them for their milk according to pay
them for their milk according to the
fat it contains,—or by test. The system now so generally in vogue of
pooling the milk is as much astray
as is buying eggs by the dozen,
as is buying eggs by the dozen,
the proposition of the properties of the conchange in the properties of the concourt of the properties of the properties of the
our patrons will all realize their responsibility and the their pay
by test.—John Hetherington, Frontenac Co., Ont.

Ten Commandments

Thou shalt arise early in the morning, and deliver thy milk to the factory, for he that gooth late causeth the cheese maker to use much profane

4. Thou shalt not put water into thy milk, thou nor thy man servant nor thy maid servant. Hearken unto

any misk, thou nor thy man servant or thy maid servant. Hearkon unto me, thou shalt get no pay for thy milk if thou do this base thing.

5. Thou shalt not leave dead car-casses to rot near the barn, for the stench thereof tainteth the milk. The stench thereof tainteth the milk fact that the standard or sour milk, nor the milk from a cow that is sick or has lately calved, for from such milk cometh vely disease.

7. Thou shalt not carry off more whey than thy share, lest one should say to the other concerning thee "Lo, a wonder!" me hog doth carry food for another," me hog doth carry food for another," me hog doth carry food for another," me hog doth carry food for another, "me hog doth carry food for another," me hog doth carry food for another," me hog doth carry food for another, "he hog doth carry food for another," he hog doth carry food for another, "he hog doth carry food for another,"

Thou shalt cause thy cans to be

8. Thou shalt cause thy cans to be washed every day, and the seams and cores thereof, for a filthy can is about the core of the cores of the core of t work not hard. Verily I say unto you that is a whopper. They get up early and work until late, moreover they work on the Sabbath, for which the Lord hath no mercy on them.—Courtesy Job W. Taylor.

Mistake in Price.—The advertisement of Farm and Dairy clubbing offers on page 19 of the April 28th issues of the April 28

Farmers Take Right Stand

Canadian farmers rightly insist that a crecontraptions, and yet produces twice the ski ming force of common, complicated machine must be most modern. They believe such separator has made complicated machines on Soldate. This is common seems and explain why Canadian farmers are buying simple

Sharples Dairy Tubular Cream Separators

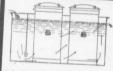


Thought 30 sells.
Write for Catalogue No. 253.

THE SHARPLES SEPARATOR CO.

GALVES RAISE THEM WITHOUT MILK Booklet Free

STEELE, BRIGGS SEED CO., LTD. TORONTO, ONT.



Steel Tanks for Cooling Milk

THE ONLY was to make a me that your milk will not sour-theonly we are made over that it will reach the factory in flexical source of the will reach the factory in flexical source of the will reach the factory in flexical source of the will be sourced to the shadily out to do this handly we have made anabing out to do this handly we have made anabing out to do this handly we have made anabing out to do this handly we have made anabing out to do this handly we have made anabing out to the handle with the will be successful to the work of the will be successful to the will be successful

THE STEEL TROUGH & MACHINE Co. Ltd. TWEED, ONTARIO.



Why Don't You Get A Bigger Price For Your Milk?

There are thousands of dairy-farmers using the Root Sani-tary Milk Cooler and Aerator, and they are getting big prices for their milk simply because they are getting big if absolutely pure and sweet and that it will seep sweet at least 48 hours. Why don't you do the seep sweet of a Root Cooler is so small? It really for for itself a few weeks. And don't forget that the Government authorities are testing the milk supplies all over Canadia—stringent laws are now being considered. The

ROOT SANITARY COOLER-AERATOR

W. A. Drummond & Co., 177 King St. E., Toronto



Characteristics of Angora Goats

I would like to get the opinion of Parm and Dairy and of its readers on the following subject. The Angora goat appears to be very popular in many parts of the Goats. Here in Canada, we never hear of them. It is claimed that they prefer the cost me about \$40 each, of them. Characteristics of Angora Goats
I would like to get the opinion of Parm
and Dairy and of its readers on the following subject. The Angora goat appears
to be very popular in many parts of the
of them. It is claimed that they prefer
brows rather than grass for feed. If so
they will be very useful here and wherever
there is waste land or rough land overed
that is too rough and stoney to plow. Seruh
and berry busbes have crowded out the
grass, so that where a few years ago it
used to peature eight coses, now there is
used to peature eight coses, now there
if the parts of the property of the property of the property of the
R. C., Kinmount, Ont.

Angora goats are browsers, whereas sheep are grazers. Angoras will pass

Angora goats are browsers, whereas sheep are grazers. Angoras will pass by growing grass and grain, for wild carrot, burdeck and thistle. It is said of them that they will eat every known weed in New England and every variety of bushes, oak, elm, birch, maple and various kinds of evergreen, fir, spruce and hemlock. In fact all kinds of bushes and weeds they prefer to grass and will thrive best on them. Hence an important usefulness of the Angora goats is in subjugating such slashes as exist in Halburton.

Angoras thrive in almost every climate. They do well in all parts of the United States. And it is rather remarkable that they have not become more generally known in Canada. The beasts are extremely hardy, multiply rapid and require little care and meaning the state of the second of the s or books. The pelts of these animals are coming into extensive use for robes and rugs, for which they are excellently adapted, the fleece being so beautiful in its natural state and taking dyes readily.

taking dyes readily.

Angora goats in the United States
in 1900 produced about \$1,\(\text{total}\),
worth of mohair. It has wonderful
fibre—strong, fine and with the lustre
of silk. As it comes from the animal,
it is in long, creamy-white ringlets,
when look as if they had been curled
on a curling stick. So clean is the
beast that commonly the hair does not

need to be washed before being spun.
The demand for mohair vastly exceeds the supply in the States, and it is said that anyone who would take the trouble to produce it need not be at a loss for a market. They are shorn in the spring at the same time and in the same manner as sheep. A fleece of mohair weighs from 31-3 to 41-2 or monair weighs from 31-3 to 41-2 pounds on the average good goat. Extra fine and pure bred goats often shear eight and 10 pounds, which is worth from 26 to 52 cents a pound in the States. There is no market in Canada for mohair.

Canada for mohair.

Being a very hardy and self-reliant animal and a browser, Angoras are especially adapted to rough districts which are of no value whatever to any other industry. They are comparatively free from disease. A sheep fence will hold them. They craw through a fence rather than over it. There is no reason whatever why Angora goats should not become common the waste lands of Ontario.

[Note.—Before deciding to go in for Angoras, Farm and Dairy readers should take note of another article on this subject published in this issue.—

Not Enthusiastic About Angoras

The following letter, from Mr. Ezra Churchill, a Nova Scotian, who has had some experience with Angora goats, and which was written to Mr. T. D. Wardlaw of Toronto in connection with the article on Angoras published elsewhere in this issue, should

FOR SALE

For \$20.00, I can sell you the best automatic lift drop head Sewing Machine. For particulars apply to W. B. ROBERTS, "agrta, Ont.

landed here.

"I am rid of them now, thank the
Lord. I gave the last four away to
my enemy, and he has offered me \$10
a piece if I will take them back again,
and he pretty nearly lost his life.

"Do not let me discourage you; perhaps they are just what you want, but
my opinion is that they are no earthly good, and a man stand a pretty
poor show of getting to heaven if he
as to look after them."

Co-operative Egg Circles Formed

(Continued from page 3)

(Continued from page 3)
be able to watch the candling of
the eggs when they so desire. When
eggs are rejected they will be taken
lack to the members of the circles to
whom they belong, who will be shown
what is wrong with them. Payment
for the eggs is to be made once a week. A central committee is to be appointed, composed of representatives from each of the local circles. This central committee will have full charge of the sale of the eggs and will make all arrangements with the buyers. At first it is proposed that the eggs shall be graded in Peterboro by the representative of Ginns, Limited, under the supervision of the officers of the central committee. It is expected that ultimately the number of eggs handled will be sufficient to warrant the farmers engaging a man of their own to grade the eggs before sale.

BULES AND REGULATIONS.

The following rules and regulations A central committee is to be appoint

RULES AND REGULATIONS.

The following rules and regulations concerning the management of the circles which have been adopted and which have been signed by all the members of the different circles, are only temporary in character and will be amended and improved as circum-

be amended and improved as circun-stances warrant.

1. That our organization be called the Central Smith Circle No. 1, etc.

2. That our officers consist of a charman or president, a secretary-treasurer and a board of three direct-

3. That the duties of the officers shall be as follows:

(a) To appoint or elect two of its officers to a place on the central board

officers to a place on the central board.
(b) To attend to any business that
may arise in connection with the
working of the system.
(c) To keep an outlook over conditions generally.
4. The membership of the association shall be \$1.00 per annum, to be
held, used and disposed of as the directors see fit from time to time.

5. That the circle as now organized shall have one general superintendent, to be appointed by the buyers, whose decision shall, in regard to the quality of the eggs delivered, be considered

final.

6. That anyone may become a member (upon payment of fees) who is interested in the production of better quality poultry products and who will agree to conform to the best of his or her ability with the rules and regulations as set forth, or as may be set forth by the executive from time to the product of the production of the

. Rules and regulations pertaining

(a) Only eggs gathered from regu-r nests may be delivered. (b) Eggs must be delivered at least

twice a week except in winter months, when they must be delivered at least nce a week.
(c) Eggs from found nests must not

(c) Eggs from found nests must not be delivered. (d) Real small eggs or over-sized eggs shall not be delivered. (e) Rough shelled or ill shaped eggs shall not be delivered. (f) Stale eggs shall not be delivered.

(g) Only artificial eggs may be used s nest eggs.

(h) All male birds shall be killed or

removed from the flock as soon as the hatching season is over—June 1st.

(i) All eggs produced by said flock shall be sold through the circle. This

applies for one year only.

(j) Members may deliver eggs from only his or her own flock.

(k) Notwithstanding anything here-

S. Matchett, pres.; M. Stewart, sec. reas. Zion—Jno. Elliott, pres.

GOOD MEN SUPPORTING IT.

applies for one year only.

(i) Members may deliver eggs from only his or her own flock.

(ii) Notwithstanding anything heretofore set forth, patrons may keep for their own use any eggs required and must not sell any eggs through the circle that do not comply with these rules of the comply with these rules of the comply with the comply with the rule of the comply with the comply with the rule of the comply with the rules of the rul The best indication that the move degrees as possible and be kept free from draft and dampness (m) That any bad eggs in any way delivered and paid for will upon return of same to the producer be accounted for if possible and the loss made good to the buyer.

8. That we as members will do all in our producer's sake this a success from a producer's sake this sake that took place at each point drew out an immense fund of valuable information will be given in later issues of Farm and Dairy.

Some of the officer's older of the sake they had never learned so much about eggs and poultry in such a short time before. Some of this information will be given in later issues of Farm and Dairy.

Some of the officer's elected were central Smith, J. A. McGregor, pressible from the section and the sake when the editors, or their representatives, from The Farmformation will be given in later issues of Farm and Dairy.

Some of the officer's elected were central Smith, J. A. McGregor, pressible from the sake when the editors, or their representatives, from The Farmformation will be given in later issues of Farm and Dairy.

Some of the officer's elected were sake that the sake when the editors, or early done and manifested this the content of the sake that the sake the sake when the editors, or early done and manifested this the producer's sake the sake the

THE HELP THE FARMER LONGS FOR



Is Supplied by a Peter Hamilton Mower

BECAUSE

It will cut ALL the grass whatever its condition or the condition of the surface of the ground. It is exceptionally light in draft. It can be stopped and started in the beaviest clay. The pull is direct from the stopped conditions of the pull of the started from the draft. The tilt lever has lots of range of movement. The bearings are all equipped with Roller Bearings or Removable Bushings. The FOOT LIFT is convenient, easily operated, and is balanced by a lift spring. The GEARS are in perfect mesh and have lots of power.

THE CUTTER BAR

is flexible. Will cut close at any angle, Is made of heavy steel suf-nciently strong to prevent sagging, and is supplied with steel wear plates which when worn can be replaced, thus giving the new wearing The Pittman is long and has a direct and easy stroke and is well protected by the drag bar from stones, etc. Before buying a mover be sure and see the agent and find out what a good proposition can be effected by

THE PETER HAMILTON CO., LIMITED

PETERBOROUGH, ONT.





MISDOM is knowing what to do next. Skill is knowing how to do it, and Virtue is doing it.



Mr. Johnson, Advance Agent

By Mabel Loder Stearns.

T'S getting lonesome, isn't it, Mr. I

Johnson?"
No response save a slight snore.
"Are you asleep, Mr. Johnson?"
This time there came a sort of snuffle followed by three short soft thumps, and Mr. Johnson issued forth from the plann: not a very imposing nersongloom; not a very imposing person-age, just a small "yaller" dog with loving, wistful eyes and a wise little

The child in the window raised his

The child in the window raised his had from his crutch, where it had been resting, and smiled brightly as the little fellow trotted up the line. "I'm afraid I spoiled you the said, apologetically, "but it so foggy out that I can't even see the lights in the grocery shop, and I thought you wouldn't mind talking to me until dad comes."

wouldn't mind talking to me until dad comes."

There was a quaint courtesy and comradeship in the child's manner that would have been amusing had it not been for the pathetic story it told of a lonely dependence that friend-ship of this one ugly life dog.

"Dad is late to-night," sighed the Loy, peering out into the gathering darkness. "They must have had a long rehearsal. The concert is owner, you know, and dad is going to sing that beautiful song I long the first time he has sung for the people here, and he says it means great things for him if they are pleased. But they couldn't help being pleased, could they, Mr. Johnson? I wish I ould sing like dad, for I love to sing better than anything else in the world!

Mr. Johnson wanged his tail appreciatively.

"Dad didn't feel well, this morn.

Mr. Johnson wasses has ciatively.

"Dad didn't feel well, this morning," said Gabriel, after a pause.

"He had a cold and was afraid couldn't sing as well."

Hore a steu on the stair brought

Here a step on the stair brought glad light to the child's face. The ext moment strong arms held him

sse,
"Oh, Dad! I'm so glad you've
me!" His voice full of gladness filled the room.

"Has it been such a long day, old chap?" ('Not so very,' smiled the child

"Not so very, summer of the company of the company

"And you are hoarse, too, dad. Is the cold worse?"
"I hope not," answered his father

the cold worse p. The property of the cold worse p. Thope not. I are theerily. The an a little tirred I guess. A good night's sleep will fix me all right. Now for the lamp and then supper. You can't think what I've brought you. See here!?

"Guava jelly? Bully! You're the best old dad a feller ever had!" cried the child delightedly. His father did not add that it had been bought at the expense of his own lunch. But the deprivation mattered but little as long as Galriel had the delicacies so needful to his fitful appe-tite. The man was ill. He knew it delicacies so needful to his fitful appe-tite. The man was ill. He knew it now. All day long the truth like a menacing spectre had dogged his footsteps, ignore it as he would. The tightening pain in his chest and the menacing special as he would be footsteps, ignore it as he would footsteps, ignore in his chest and the tightening pain in his chest and the tightening pain in his chest all to cover-increasing hoarsensement but one thing—he would not be able to sing at the concert he following night, and the recognition had hoped to gain thereby would hoped to gain thereby would hoped to gain the rehearsal that aftenion his voice had broken down utterly. The director had been politely sympathetic, but Newton had read sympathetic, but Newton had had been supplied to the sympathetic sympath sympathetic, but Newton had read only too clearly in his concerned face a only too clearly in his concerned face a corroboration of his own fears. It was not until Gabriel had gone to bed, however, that he dropped his mask of cheeriness and squarely faced the

cheeriness and squarely faced the truth.

Could it be that the success within his grasp at last was to be wrested from him,—the success that had from him,—the success that had performed the vision of the country. He recalled the vision of comfort and pleasure for Gabriel, and ultimately perhaps a little home of comfort and pleasure for Gabriel, and ultimately perhaps a little home to the country. In bitter contrast of the country. In bitter contrast of the country. In bitter contrast of the country with the grinding poverty and want, with its grinding poverty and want, with its grinding poverty and want, but the contrast of the party ness that followed, their subsequent removal to a strange city, and the failure to get a start until now, when the opportunity had come only to mock him in the end.

It should not be! All the defiance in the many nature or in bitter.

no one to do it but Mr. Johnson and himself. When the sweet-faced nurse arrived to take charge of the sick-room, Gabriel slipped quietly from his post by the bed, and a few minutes later was making he way up the busy street through the jostling crowd, his write chicking bravely against the rutch chicking bravely against the probability of the street himself. Mr. Johnson close at his bedshe was quite sure he would incove the one control of the way to fix of t twice he lost his hat. But with und daunted courage he struggled bravely on, while Mr. Johnson trotted steadily on abead. At last, by a happy chance they turned into the very street they were seeking, and the new test they (Sabriel was the street they were seeking, and the next minute Gabriel was timidly pushing open the heavy baize door of the concert hall. heavy baize door of the concert hall. There was no one to be seen in the spacious lobby, so he sank wearily down upon a settee to wait, his aching body relaxing gratefully against leather cushions. Presently a gentleman came slowly down the stairs. He did not notice Gabriel, but entered a dioryway at some distance from

He did not notice Gabriel, but enter-ed a doorway at some distance from them. The child sighed with disap-pointment. He had so hoped he would come their way. As it was (he pa-tiently resigned himself to wait a little logger. Not so the indefatigable Mr. John-n. In his opinion it was plainly

****** The Good-Night Kiss

mothers, so weary, discouraged Worn out with the cares of the di You often grow cross and impatient, Complain of the noise and the play; For the day brings so many vexations So many things go amiss; But, mothers, whatever may vex

Send the children to bed with

The dear little feet wander often Perhaps from the pathway of right, The dear little hands find new mis-

chief
To try you from morning till night;
But think of the desolate mothers
Who'd give the world for your bliss,
And, as thanks for your infinite bless-

Send the children to bed with a kiss. For some day their noise will not vex

you,
The silence will hurt you far more;
You will long for their childish voices,
For a sweet, childish face at the
door,
And to press a child's face to your
beaum

You'd give all the world for just For the comfort 'twill bring you in

Send the children to bed with a kiss.

time for action. He had eyed the gentleman with a speculative air until he disappeared; then with evident purpose he started down the hall after him and vanished into the same doorway through which he had passed.

would ask God to help him—yas, him and vanished into the same door-widther sake to come to him now in the same door-width of the same door-width of the same to come to him now in the same to come to come the same to come t

passionate humanity of the man. His little friend needed help,—help beyond his ken,—and so, in pathetic acknowledgment of his own limita-tions, he had come to this stranger

for aid.

Catching sight of Gabriel in the doorway, he ran joyfully toward him.

"Is this your dog, my little man?" inquired the gentleman pleasantly.

"This is Mr. Johnson, sir" said Gabriel gently, with unconscious cor-

rection.

The gentleman repressed a smile. The child was most uncrupulous to refer to his little chum always in this way, stoutly maintaining that is way, stoutly maintaining that was a dog only in appearance. He had named him for the friendly old many the stouch that was the stouch that we have a support to the stouch the stouch that was the s

attributes .

"I think he is trying to ask you, sir, where we can find Mr. Ludwig," explained Gabriel politely. "He is the gentleman who is to give the concert to-night." to-night.

to-night."

So interested had the man been in
Mr. Johnson that he had not at once
noticed the child's crutch. Now, as
his glance fell upon it, a shadow almost of pain saddened his face. He
had once had a crippled child of his

had once had a crippled child of his own.

"Come in and sit down, boy," he said kindly, "I am Mr. Ludwig. What can I do for you yr. Ludwig. What can I do for you yr. The child's face trightened.

"I am so glad you are," he said naively, "I am so very tired. We have come to tell you, sir, that dad is very sick, and cannot sing at your concert to-night. He is so try and-and disappointed, because it meant great things for him to have this chance."

"Are you Mr. Newton's son?" asked Mr. Ludwig gravely. "Yes, sir. My name is Gabriel."

"I am sorry to hear of your father's illness. I was afraid of it last night. Did it mean so much to him to sing at this concert? Tell me about it—that is if you would like to," he added, in quick recognition of the child's sensitive nature.

tive nature.

So , with insight as unerring as that of his little friend, Gabriel raised his clear blue eyes to Mr. Ludwig's face, and was soon pouring into his sympathetic ears the simple story of their hopes and struggles, a story with no place of the structure of the structu

Just then a big, worried-looking young man hastily entered the studio. "I'm in lust's entered the studio. "I'm in lust's end you go man hastily entered the studio." I'm in lust's end you have a support of take and and a support of take and a support of take and a support of take and the support of the sup cess, and now the whole thing is ruined unless you can help me out. A fellow is out of touch with things in the country, but I hoped that, being in town here, you could put me next to

mething good."
"I wish I could," answered Ludwig, regretfully, "but, the fact is, boys voices are not much in my line."

REFRIGERATORS AND ICE BOXES

More and more is the using of ice at least once a week. Remove and toxes or refrigerators becoming essenglain our rural homes. Many farmimes of to-day are equipped already of the day of boxes or refrigerators becoming essential in our rural homes. Many farm homes of to-day are equipped already with this convenience. For the benefit of our readers who are thinking of so doing, we give a few hints and suggestions as to the construction and care of refrigerators in general.

CONSTRUCTING AN ICE BOX.

In constructing a refrigerator or ce box, it is well to remember that t is wisest and best not to fill the valls with sawdust, or any other fil-ing. Sawdust only acts as a conducling.

tor and will become damp and wet, tice box in a short time. Use dead air spaces between the walls. These dead air spaces are the best non-conductors of are the best non-conductors of heat and coid, known to science. You can do this by using tongue and grooved sheeting with a ply of heavy paper. The spaces need only to be a half inch apart, if space is a consuceration.

In no case should galvanied incoming the space is a consuceration. The property of the space is a consuceration. In the space is a common practice. The is a common practice. The

is a common practice. They cannot be kept absolutely clean and sanitary and the clean and sanitary and the oxidation which covers these linings is poisonous. It must be apparent to all who study this point, that it is wrong to use such linings. No one would care to drink milk from a galvanized can, or use butter which had been kept in a galvanized tox. Spruce wood is Nature's lining for a in a galvanized Lox. Spruce wood is Nature's lining for a refrigerator. It is also a non-conductor of cold. It will not cause condensation when exposed to the outside warm air. It is generally supposed that a wood lining cannot be kept dry and that it will become desired.

sir.
that a wood him.
kept dry and that it wo.
is a false impression. It is over the
is a false impression. It is over the
possible to a condition can be prize to and flow naturally down the count of the rapidy flips.

The false is the country that is a condition could not be possible, it will be a condition could not be possible, it will be a condition could not be possible, it will be a condition could not be possible, it will be a condition could not be possible, it will be a condition could not be possible, it will be a condition to did not be struct the circulation, which has equilibreature.

Such a refrigerator is manufactured by The Eureka Refrigerator Company of Toronto. When a Eureka refrigerator consultance is properly filled with ice, well as a low temperature.

On't leave the country the country is an object to or from the results as a low temperature.

On't leave the country the country is an object to do with preservative or results as a low temperature.

On't leave the country the country is an object to do with preservative or results as a low temperature.

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On't leave the country the country is an object to do with preservative or results as a low temperature.

On't leave the country the country is an object to t

One the great country of the principles of the refrigerators.

One thing we can not lay too much stress on in regard to refrigerators, and that is cleanliness. They should also in the stress of the

to bring about this condition quicker than some other receptacle where these circulation principles do not exist. Before introducing food, air well the interior by opening the doors and lid, then fill box with ice, and allow to stand unused several hours, opening the doors for a few minutes several times during the interval. Furnish ice liberally and regularly when the refrigerator is in use. Leave doors and lid open when without ice. Clean provision and ice chambers regularly

erator that has become odorous from neglect, or other local cause, the fol-lowing mediums may be suggested: Rub the walls with a damp cloth, moistened with warm soda water, or with water in which two tablespons-ful of sweet nitre to the pint has been put. Place in the storage chamber a saueer of charcoal, renewing or sunning it occasionally.

DONT'S

Don't put in hot, steaming, or over-



An up-to-date Refrigerator Showing System of Circulation

warm air.

Don't starve the refrigerator. If
its ice capacity is 75 or 100 lbs., don't
expect it to run perfect! with 10 or
15 lbs., supplied tregularly Don't
put it in a cellar, laundry or other
damp place, or on a porch exposed to
sleet and atmospheric change. It is
made of kiln-dried lumber, and not
guaranteed unless properly used.

Don't cover the ice with cloth, newsnamer or other material to save ice.

paper or other material to save ice, the function of which is to cool the refrigerator and create a circulation. Such a course may "save ice beautiretrigerator and create a circulation. Such a course may "save ice beautifully," but if you bottle up the cold air it cannot do its work, and your food will spoil. If you use newspaper you must expect the "sickly odor of put of the property of the property and the property of the prope

blocked. blocked.

Don't ignore these common-sense
Don't ignore these common-sense
rules, and complain because the refrigerator smells musty, the drip pipe
or trap becomes choked up, and water
overflows into provision room, or doors
and joints open because the dry
smell and joints open because the dry
true. The use has alsorbed moisture. The sand and the cause
of these troubles, but the manufacturer
cannot.

Resessessessessessesses THE COOK'S CORNER

Recipes for publication are requested. Inquiries regarding cooking, recipes, etc., gladly answered upon request, to the Household Editor, Farm and Dairy, Peterboro, Ont. Recipes for publicance of the property of the following recipes to the following recipes to the following recipes to the following recipes the following recipies the follo

CANNED RHUBARB.

It is an easy matter to can rhubarb. Pare fresh, tender rhubarb and cut in one-inch pieces. Pack closely in a jar and fill up full to overflowing with cold water. Allow the water to settle, jar and fill up tun to over cold water. Allow the water to settle, then pour in more fresh water and make sure there are no air bubbles left in the jar. If the jars are sealed closely, same as for ordinary canning, rhubarb canned in this way will keep a year. Rhubarb can also be boiled with sugar, and canned.

Buttmann Pie.

RHUBARB PIE. RHUBARD PIE.

Skin and cut stalks of fresh, tender rhubart in half-inch piecee; then measure out 1½ cups. Mix scant 1 cup sugar with 2 teasp, flour and 1 beaten egg. Stir the cut rhubard inc this and bake the mixture between two crusts.

Peel and cut fresh, tender rhubarb into one-inch pieces. Put in saucepan with a very little water (since fresh rhubarb itself contains a large percentage of water) and boil slowly about 5 minutes, or until tender. Then move to back of range, add sugar to taste, stir carefully, and when the sugar is dissolved set away to cool. Rhubark can also be baked in an earthen pudding dish. If baked slowly for a long time, it will have a rich, red color.

STHANWERRIES PRESERVED WHOLE. RHUBARB SAUCE

STRAWHERRIES PRESERVED WHOLE STRAWBERRIES PRESERVED WHOLE.
Simmer mashed strawberries about
20 minutes, adding no sugar. Then
strain, and to each pt. of juice allow
a pt. of sugar. Heat the sugar and
add to the syrup when it is at the
boiling point. Skim and let boil till add to the syrup when it is at the boiling point. Skim and let boil till thick, and then pour this hot syrup over whole hulled berries, which should be in readiness in heated glasses. When cold cover with bran-died paper and set in the sun daily for about a month.

STRAWBERRY TARTS Line the sides of large or small pans or baking dishes with pastry and bake a light brown, then fill them with

be used to the control of the contro

pars and seal.

STEAMED BROWN BREAD.

To 2 cups sour milk add 1 cup corn meal, % cup white flour, 1 cup rolled oats, % cup molasses, 1 heaping teasp. soda, and a little salt. Steam 3 or 4

ROLLED OATS DROP CAKES.

Soak I cup rolled oats in I scant
cup hot milk. While this is soaking
mix up I cup sugar, ½ cup butter, 2
eggs, 1 cup seeded raisins, I teaspsoda, and 2 teasp. cream of tartar.
Turn on the rolled oats and add flour
enough to make quite a stiff batter.
Drop by spoonfuls in a well-greased
baking pan and bake in a quick even.

ROLLED OATS CUPSTAND PUDDING. ROLLED OATS DROP CAKES

oaking pan and bake in a quick oven.

ROLLED OATS CUSTARD FUDDING.

Soak 1 cup rolled oats in 3 cups hot milk for 2 hours. Add to this 2 well-beaten eggs, a little salt, % cup sugar, and flavor with nutmeg. Bake about 20 minutes.

OATMEAL MUSH WITH SLICED APPLES. Slice any good eating apples into oatmeal dishes and pour hot mush over them. Serve with milk and sugar.

Pictures of Royalty

Readers of Farm and Dairy will Readers of Farm and Dairy will much appreciate the privilege of se-curing a fine lithograph picture 12x18 inches of the late King Edward VII., for the small sum of 25 cents, or a picture of both the King and Queen Alexandra, in return for one new aub-scription to Farm and Dairy. Pic-tures of the new King, King George V. and Queen Mary, will also be sent for one new aubscription at \$1. State clearly which pictures are desired.

. . .

Develop the Social Side

There is no question whatever that ne domestic .ife on the farm could be the domestic ,ife on the farm could be made more interesting than it is at the present time. There is too much farm drudgery unrelieved by the brighter side of social life. The un-varying round of monotony tends towards mental depression. The beau-towards mental depression. The beau-towards mental depression is not culti-vated in the unanner that it should he.—Dr. E. Ryan, Frontenac Co., Ont. Ont

Music Folios, your choice of a large lection, free, in return for a new subscription



Buying A Piano Made Easy

Perhaps you are deterred from enjoying the delights of a New Scale Williams Piano in your home, by the thought of laying out several hundred dollars in a lump sum.

This is unnecessary. By our unique plan, you gain the piano of your choice by easy payments.

New Scale Williams PIANOS

Another great advantage to those living at a distance from the large cities, is that we ship pianos on approval, guaranteeing the instruments to please or they are returnable at our expense.

Write us for details of these two selling plans— and our beautifully illus-trated catalogues of New Scale Williams Pianos and Player Pianos.

THE WILLIAMS PIANO CO. Limited OSHAWA, ONT.

BRANCH OFFICES: nipeg, Man., 323 Portage, Aw al, Que., 73 St. Catherine S

Plumbing with Power Force Pump

Pump
This cut shows a system of modern plumbing arranged for hard and soft water. The hard water is supplied from either a deep or shallow well, and is used for laundry, kitchen and sanitary purposes in the house, and for watering, sprinkling, etc., out of doors. It is also used for operating a water lift which supplies soft water from a cistern for kitchen, laundry and bathing purposes by means of a smaller pneumatic tank by means of the statement of the statement of the system may so a smaller pneumatic tank by means of the statement of the system may so the statement of the system may so the system of the system o structed that when the pressure in the soft water tank equals the pressure in the hard water tank, the lift will stop working and will not start again until water has been drawn off and the pressure reduced. This will be found a very complete and satisfac-tory outfit for country or suburban homes, or for

farmers who have a stock or dairy farm CISTERN and wish to enjoy all the advantages

The winner of first place in District I, in the recent dairy farms' competition conducted by farms' competition conducted by farm and Dairy, fell to Mr. and Mr. Victor Begg, of Moose Creek, Ont. Pegg has already been made in Fegg has already been The winner of first place in District

nouse, writes are negg, after en-tering the competition,—except paint the kitchen inside and fence in the front of the house.

I was very sorry when our flowers were not in bloom when the judges were around for they were something beautiful all around the lawn. We head dahlias and numerous other flow-ers. We have a fine row of Maple trees all along the road and around the house and garden. We always

Woman's Kitchen Friend

This kitchen rack should be in eve woman's home. You cannot afford to your work another day without it. A the articles shown are household co



advantages of modern plumbing in their homes. Omodern plumbing in their homes. Where a windmill is not desirable, the system can be operated by a hot air pumping engine or gasoline engine.

A A A Modern A Processing State of the vegetables we want to use. We have a wire fence all around it, so hens or chickens cannot get in.

ENJOYS HER HOME

I think we have a very comfortable home and I don't want anything better. Mr. Begg wanted to go and live in the village this fall, but I would not go. I could not leave the home we made. We cleared the farm and built the buildings and I want to spend my last days on the old farm home.

Our main house is 26 x 30 feet. The Our main house is 20 x 50 reet. The kitchen is 20 feet square with large pantry to the back of summer kitchen, which is 13 x 24 feet. The bath room is over the kitchen. We formerly had pantry to 13 x 24 feet. The man-which is 13 x 24 feet. The man-is over the kitchen. We formerly had is over the kitchen stairs. I tike it up on the kitchen stairs. I tike it much better as there is 1:0 pumping. We only turn a tap and have the water. We have it all in one room over the kitchen. It makes a fine place for the hired men sleep. We have three bedrooms, two clothes closets and a large hall in the other

We have three bedrooms, two clothes closets and a large hall in the other part with a parlor, dining room and sitting room down stairs. There is a cupboard in the wall between the dining room and kitchen, about 8 ft. long. We like it very much as it takes long. no room.

up no room.

The veranda goes all around the house and kitchen. We have two large cellars, one under the kitchen for potatese and vegetables. In the other we have a cupboard built in the wall for our preserve that it is the wall for our preserve the wall other we have a cupboard built in the wall for our preserves and syrup; apple racks and furnace. We have not used the furnace for a couple of years as we bought a heater and put it in the dining room and like it much better. We find it does not take so much wood.

so much wood.

Monday is always wash day and
Tuesday, we iron. We do not bake
our bread any more as the baker goes
by twice a week.

veniences. Handles are black, and well finished. All regulation size and length. Tou can have this FREE, for a club of the size we subserbers to Farm and Dairy, and see the size of the s

Mr. Begg put some hundreds of dol-Mr. Begg put some hundreds of dol-lars on the stables and Larns recently. He tinned all the outside with gal-vanized iron which adds much to the appearance as well as comfort. He ulso fixed a nice hen house. I am vory fond of hens. Last winder I wintered a Lust sixty and after keep-ing the house in all the eggs we wanted, I sold about \$70 worth, he-sides selling a lot of hens and chick-ens.

our main house is veneered with brick. The kitchen is clap boarded and last year was painted white. Our wood shed and kitchen are shingled with Oshawa steel shingles."

The Upward Look

"By this shall all men know that ye are my disciples, if ye have love one to another."—St. John 13:35.
What a simple test that is! And

what a simple test that is! And yet! how searching. Into what un-expected groups it divides us. Whe-ther or not we are Christians is de-termined not by whether we are Methodists or Catholics, Presbyter-ians, or Mohammedans. Not by whe-ther. ther we are rich or poor. Not by the clothes we wear, or the houses we live in, be they palaces or shacks. We may go to church regularly, say we may go to church regularly, say long prayers ostentatiously, give large sums of money for charitable pur-poses, and yet fail to pass this test. (8t. Luke, 2l, 1-4; I. Corinthians. 13-3, rev. version), (8t. Luke 18,9-14). Christ knew that in our ignorance

Christ knew that in our ignorance we would be apt to apply earthly tests to spiritual matters, and to prevent us from making girevous mistakes He warned us to be careful about the conclusions we resched. "Not everyone," he sad, "who saith unto me, Lord I Lord i shall enter into the Kingdom of Heaven; but he that drawn that the world of the heaven; but he that drawn the said of the said love on another. another.

one another.

To-day there are those, just as there were in the time of Christ, who try to make out that the only way we were in the time of Christ, who try to make out that the only way we can find God is by adopting some special creed or form of belief. That was not what Christ said. In fact. He warned us against such when He said: 'Beware of false prophets. which come to you in sheep's cloth-ing, but inwardly they are ravening wolves.' (St. Matt. 7.15). And then He told us how we can tell the true that the false prophets: by their trust.' shall know them by their fruite.''
And so it is with us. Unless we

And so it is with us. love one another our religion is vain.
Unless we are unselfish, patient, humble and kind, in our daily lives, we will fail to pass the test which determines whether or not we are determines whet Christ's disciples.

Christ's disciples. The words "De not decider" The words "De not decided." The words sound all of us shall one day hear sound all of us shall one day hear sound all of us shall one day hear the state of the control of the shall be shall be discipled to the hungry and the major and the shall be shall be discipled to the shall be charged. And the spectacle itself, the mere sight of it, will sliently judge each one of us. Those will be there whom we have met and helped; or there the unplied multiwill be there whom we have met and helped; or there the unpitied multi-tude, whom we neglected or despised. No other witness need be summoned. No other charge than lovelessness shall be preferred against us."
"Beloved, let us, therefore, love one another: for love is of Green and

another; for love is of God; and every one that loveth is born of God. and knoweth God. He that loveth not knoweth not God; for God is love."
(I. John, 4, 7-8).—I. H. N.

Meddeddddddddddddddddan N The Sewing Room

The Sewing Room

Patterns 10 each. Order by number
and size. If for children, give age;
walete, and give businessure for
walete, and orders to the Pattern
Department.

CHILD'S TUCKED GUIMPE 6628.



This simple little guimpe that is tuckto form its own yoke is always a pretty one for the younger children. This one is made with moder at all will sleeper the state of the younger that will sleeper the state of the younger that will sleeper the younger that you will sleeper the younger that you will sleep the younger th

edging. The pattern pattern is cut for girls of 2, 4, and and will be mailed for 10 cts. BOY'S BLOUSE 6649.



great A boys A great many boys prefer the blouse to the outing shirt for general wear. It is comfort-able and becoming and altogether de-sirable. It is abso-lutely simple and lutely simple and plain, genuinely mas-culine in effect and is finished with the patch pocket that is both useful and smart.
Material required

years), is 3% yds. 24 or 27, 2½ yds 36 in. The pattern is cut for boys of 12, 14 and 16 yrs. and will be mailed for 10 cts.



DRESS 6625.

Dresses with shaped yokee below which they are full and soft are always attractiva for little ones. This dress can be either tucked or gathered. The beading applied below the tucks and threaded with ribbon gives a pretty Empire effect, but is not necessary. Material required

Material required for medium size is yds. 24 or 27, 2 yds. 32, or 1% yds. 44 in. vide, with 2½ yds. of edging 3 in. wide, 2½ yds. of insertion and 1% yds. of beading. The pattern is cut in 1, 2 and 4 yrs., and will be mailed for 10 cts.

FRENCH CHEMISE 6052.



HEMISE 6852.

The simple French chemise is in great demand. It can be finished simply with a hand scalloped edge and with button holes through which ribbon is threaded, or it can be trimmed with lace, or embroidery be trimmed with lace, or embroidery applied over it. In the illustration it is held at the waist line by means of rib-bon threaded thro

beading. beading.

Material required for medium size in 3's yds. 35, 2%yds. 41 in wide, with 5's yds. 55 yds. 55, 2%yds. 40 in wide, with 5's yds. of insertion, 1's, yds. of arrow, 1'y yds. of wide beading, 3 yds. of edging, 4 yds. of mehroidery for frill, to trim as illustrated. The pattern is cut in three sizes, small, the pattern is cut in three sizes, small, will be mailed for 10 cts.

Hooks and Eyes

Sow the eyes on the left front of waist, the desired distance apart, with the loops out far enough to make hocking easy, then laste the right front carefully over the left, lapping as much as may be desired, turn waist wrong side out, put a hock in every eye, and sew them in position.

AYRSHIRE NEWS

Farm and Dairy is the official or-gan of The Canadian Ayrshire Breeders' Association, all of whose members are readers of the paper. Members of the Association are in-vited to send items of interest to Ayrshire breeders for publication in this column

SPRINGHILL AYRSHIRES.

A Parm and Dairy representative lately paid a gram and Dairy representative lately paid a to the farm of Messrs. Robert Hunter & to the farm of Messrs. Robert Hunter & to the farm of men will be glad to learn the myrowen member of the firm is much improvement the state of the s

and the second of the sire, which indicates an argument of the sire, which indicates in more and the sire. A great number of Messrs. Hunter; A great number of the sire in the sire of the quality and grown, tes his prepotency, tes his prepotency, the chaic

Wash, three head, J. H. Black, Genoa, Que, two head.

They have a number of orders to fill from the new importation lately removed from quarantine and of which corresponding to the control of the contr

RECORD OF AYRSHIRE COWS AND HEIFERS FOR 1909.

MATURE CLASS.

Annie Laurie 2nd, -15588-, E. Cohoon Harrietsville, Ont., 15134 lbs. milk; 598.4 lbs

Primrose of Tanglewyld, -15945-, Wood-



FIRE, LIGHTNING, RUST AND STORM PROOF

SIMCOE, ONT., April 9th, 1908 ave handled your 'Eastlake' uired any repairs.

MADDEN BROS.

Write for Booklet.

The Metallic Roofing Co. Limited, Manufacturer TORONTO & WINNIPEG dissee Bros., Rothsay, Ont., 13536 lbs. milk, 529 lbs. fat. Mariea, -15136-, Hon. Wm. Owens, Mon-tebello, Que., 11428 lbs. milk; 418.37 lbs.

Marjorie, -16535-, Central Experimental arm, Ottawa, 10783 lbs. milk; 461.26 lbs.

l'al.

I al.

I Bertie of Springhill.

Little Queen, 2nd, —9239—, A. C. Wells & Son, Sardis, B. C., 9397 lbs. milk; 375.44 lbs.

ut. White Heather, —17978—, James Begg. t. Thomas, Ont., 9501 lbs. milk; 363.50 lbs.

fat.
Nellie's Jewel, —16871—, James Begg, St.
Nellie's Jewel, —9993 lbs. milk; 394.64 lbs.

Neilles Jewei, 19871—, James Beeg, niThomas, Ont., 993 lbs. milk; 39454 lbs.
Interpretation of the state of

bs. fat.

Ethel Belle, -21349-, James Begg, St.

Rhomas, Ont., 9258 lsb. milk; 385.66 lbs. fat.

Snowflake of Hickory Hill, -32481-, N.

Dyment, Clappison's Corners, Ont., 9182 lbs.

Dyment, Chappison's Corners, Ont., 9182 lbs.
milk: 352.44 lbs. fat.
Clio of the Willows, -25934-, Wm. Brown,
Howick, Que, 864 lbs. milk: 330.66 lbs. fat.
Lady Menie, -18727-, Wm. Stewart &
San, Menie, Ont., 8005 lbs. milk: 297.80 lbs.
fat.

THREE YEAR OLD CLASS

nadian Princess. —20168—, A. S. Tur-Ryckman's Corners, Ont., 11377 lbs.

Star's Annie Laurie, Stare some Harrietsville, Ont., 8250 hall bls. fat. Dairy Queen of Springhill, -23745-, R. Dairy Queen of Springhill, -23745-, R. Hunter & Sons, Maxville, Ont., 8023 lbs. -21543-, E. Coh

bb. fat.
Dairy Queen of Springhill, —22743— R.
Hunter & Sons. Maxville, Ont., 6023 bbs.
milet Julis 15 lbs. fat.
—6055— J. N.
Greenshields, Danville, Ont., 6184 bbs. milk:
35.6.1 bb. fat.
Beauty of Shannon Bank.—2519— W.
Tran. Cedar Grove, Ont., 7677 ibs. milk:
Joseph Company of Shannon Bank.—2519— W.
Langer Company of Shannon Bank.—2519— Rothers, Ont., 7637 bbs. milk: 338.88 bbs. fat.
Ruth.—2578— Wooddissee Bros., Roth.
say. Ont., 7931 lbs. milk: 327.665 lbs. Roth.
say. Ont., 7931 lbs. milk: 327.665 lbs. Roth.
say. Ont., 7931 lbs. milk: 327.665 lbs. Ganger Company of Shannon Bouley Company of Shannon Bouley Company of Shannon Characters, Ont., 689 lbs.
Jemima of Springbank.—2769— A. S.
Jemima of Springbank.—2769— A. S.
Jemima of Springbank.—2769— A. S.

Ballantyne, Stratford, Ont., 7625 108. milki \$3.070 lbs. fat. \$7.9bella of Springbank, —27591— A. 8. Turner, Ryckman's Corners, Ont., 7356 lbs. milki 302.34 lbs. fat. Madeline B., —23601—, James Begg, St. Thomas, Ont., 735 lbs. milki 322.96 lbs. fat. Ardyne Carntyne, —27349—, R Hunter & Sons, Maxville, Ont., 7019 lbs. milki 312.94 her fat.

Ibs. fat

Deliey of Westland, 2:1799-, Gus. A Lan. Deliey of Westland, 2:1799-, Gus. A Lan. J. L

288.75 lbs fat.
Auchenbrain White Rose, -26348-, R.
Hunter & Sons, Maxville, Ont., 6618 lbs.
milk: 278.82 lbs. fat.
Neidpath Rose 10th, -21459-, W. W.
Ballantyne, Stratford, Ont., 6442 lbs. milk,

259.5 lbs. fat. Hot Scotch

fat.
Lucy 4th, -25101-, W. H. Tran, Cedar
flovee, Ont., 5782 lbs, milk, 295,29 lbs fat.
To May 1st, 1910, 59 cows and heifers have
registered in the test.
32 mature cows averaged 16851 lbs. milk
and 401,30 lbs. fat.
5 four-year-olds averaged 3570 lbs. milk
and MAS 60 lbs. fat.

19.5 lbs. rat. Hot Scotch Lassie, —23704—, Frank H. arris, Mt. Elgin, Ont., 6066 lbs. milk, 258.61

Scotia Jean, -24130-, W. W. Bowley, Napperton, Ont., 5880 lbs. milk, 244,98 lbs.

four-year-olds 365.80 lbs. fat.

and 365.80 lbs. fat.
18 three-year-olds averaged 8164 lbs. milk
and 346.5 lbs. fat.
37 two-year-olds averaged 7056 lbs. milk
and 297.65 lbs. of fat.
W. F. STEPHEN, Secretary,
Canadian Ayrshire Breeders Association.

HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the official organ of The Canadian Holstein Frieslan 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.

MILK FROM A PHYSICIAN'S STAND-

Holstein-Friesian breeders are to be Hobstein-Frieslan breeders are to be commended for the aggressive advertising campaign, which they have conducted in recent years, and the state of the conducting, to show the qualities of Holstein Breed of cattle and of Holstein Br. The qualities of milk, and of Holstein Br. The principal of the state of the state

Milk is the natural food of man. Milk is the natural food of man. Yo other one product contains the separatial other one product of the separatial clements of nutrition so admirable selements of nutrition so admirable solutions a much higher value in food uncontains a much higher value in food uncontains as many food units as one authors of selement solutions as many food units as one of the selement s

Now, if all this is true of good milk in Now, if all this is true of good milk in Now, if all this much brief the present of t

FAT IN RIGHT PROPORTION

As used. FAT IN RIGHT PROPORTION.

FAT IN RIGHT PROPORTION.

Holstein milk contains butter fat in the right proportion for human use—in a finely divided and emulsified state. These are facts proven by the microscope and separated. The state of the results of the separated separated of the feature in infant and adult feeding.

The casein or proteid matter of Holstein and adult feeding.

The casein or proteid matter of Holstein since the sadmirably proportioned and of such a light converted into a ligh

Bessie 18th of Neidpath, -21459-, W. W. Ballantyne, Stratford, Ont., 6461 lbs. milk, tionized forms, and naturally the next step in the process, is resolution back into the elemental forms, from which they were successively elaborated by plant, grain, and ster. It is not denied that meat not provide the property of the process of a rational, nutritional diet. We have a nation of meat eaters, live, not because of, but in spite of, meat!

eaters, live, not because of, but in spite of, meat:

Is it going too far to claim that the sturdiness and hardiness of the peoples of the great dairying countries of the great dairying countries that and milk products? Who can gainsay the hard, and milk products? Who can gainsay the hift, solviety, industry and general exhibit, solviety, industry and general exhibit, solviety, and solviety, which was a solviety of the Dutch, Swies, Danish, Swedish, of the Dutch, Swies, Danish, Swedish, and paughter at a minimum. They have model are at a minimum. They have model and national governments. They are producers and consumers of milk.

In conclusion, breeders and dairymen, and he Holstein breed you have a priceless under the sum Nature. It is your privilege, duty and was the sum of the s

telligent physicians. It is not exaggera-tion to say that infant mortality could be reduced by cene. If all infants were fed intelligently on sanitary pure bred Hol-stein milk; 90 per cent. of infant disorders, and a nutritional Jasis. Faithfully yours for more and better Holsteins. (8gd.), E. C. White, M.D. Springfield, Ill.

OFFICIAL RECORDS FOR MARCH, 1910.

OFFICIAL RECORDS FOR MARCH, 1918.

(Continued from Map 5)

Helbon Jess Posch (1259) # 12

Hel

Johns Mercena Posch (6965) at 2 years, 6

Johns Marcena Posch (6965) at 2 years, 6

fat, equi 2d days of age, 9,28 the butter; 271.1 lbs.

fat, equi 2d days of age 37 lbs. butter; 271.1 lbs.

fat, equi 40 years, 20 years, and

2 days of age, 2,9 lbs. butter; 271.1 lbs.

2 days of age, 2,9 lbs. butter; 234 fat, equivalent to 168 fbs. butter; 234 fat, equivalent to 10.56 lbs. butter; 234 fat, equivalent to 1.79 lbs. butter; 236 fbs.

years, 9 months of while 10 years, 9 months and 2 dayses (1198) at 1 years 10 months and 2 dayses (1198) at 1 years 10 months and 2 dayses (1198) at 1 years 10 months and 2 dayses of 10 years, 9 months and 10 days of age, 607 lbs. butter; 316 while 10 years, 9 months and 21 days of age, 20 years, 9 months and 21 days of age, 20 years, 9 months after eight months after calving—4 years, 9 months and 19 mayby (216), at 1 years, 9 months after eight months after calving—4 mill. Owned by D. C. Flatt & Son, Millgrove, Out.

6 W. CLEMONN, Secretary, 400.5 For Aprill, 110 & Son, Millgrove, Out.

6 W. CLEMONN, Secretary, 400.5 For Aprill, 110 & Son, Millgrove, Out.

6 W. CLEMONN, Secretary, 400.5 For Aprill, 110 & Son, Millgrove, Out.

7 W. CLEMONN, Secretary, 400.5 For Aprill, 110 & Son, Millgrove, Out.

8 Son, Millgrove, Out.

8 Out. 10 years, 9 months after calving—4 months after calving—5 months after calving—6 months after calving—

HOLSTEIN-FRIESIAN OFFICIAL RE-CORDS FOR APRIL, 1410.

fai, equivalent to 29.59 lba butter; 425.4 lba milk. Owned by M. L. Haley, Spring-ford, Ont.

Tollie Martel (574) at 5 yrs., 10 months, 17 while Martel (574) at 5 yrs., 10 months, 12 while Martel (574) at 5 yrs., 11 while Martel (574) at 10 while

Owned by Thomas Hartley, Downsriew, Ont.

1 Ady May of the Valley (2009) at 9 yrs.

1 Ady May of the Valley (2009) at 9 yrs.

1 Ady May of the Valley (2009) at 9 yrs.

1 Ady May of May 1 Ady 1

(Continued on page 23)

MADKET DEVIEW AND FORFCAST treal at He to 115/e a lb. for large and 12c a lb.

Toronto, Monday, June 6.—It is the general feeling that the class of minigrants arriving on our shores this season is, so far as quality is concerned, far away ahead of former years. For this the Government's stringent regulations must be knaked. The measures adopted, however, the control of the control o

5% to 8 per cent.

WHEAT

The bears have been having it all their own way lately in the wheat markets, the good reports from various centres on the good reports from various centres on the knowledge of vast reserves, and the knowledge of vast reserves the property of their one of the property of their one of the way for their one laught on the bulls. On Friday, July wheat closed at Chicago at 25%c: September, at 30%c, and December, at 30%c, at 30%c, at 10%c, at 30%c, at 30%c, at 10%c, at 30%c, at 30%c

COARSE GRAINS

There has been very little change in regard to the prices of coarse grains the past week. Trade is sluggish. American corn and the prices of coarse at 60 to 60 a bushel; Ontario Miller of 60 a bushel; Ontario white, 35 a bushel; Ontario white, 35 a bushel; Ontario white, 35 a bushel; Ontario white, 36 a bushel; On the farmers' market, the following prices rate to 60 a bushel; buckwheat, 56 a bushel; Merican or 10 a bushel; Duckwheat, 56 a bushel; American corn, 66 a bushel; American corn, 66 a bose, 30%; barley, 56 a bushel; American corn, 66 a bose, 30%; barley, 56 a bushel; American corn, 66 a bose, 30%; barley, 56 a bushel; American corn, 66 a bose, 30%; barley, 56 a bushel; American corn, 66 a bose, 56 a bushel; American corn, 66 a bushel, 40 a bushel; American corn, 66 a bushel, 40 a bushel; AMAY AND STRAW

HAY AND STRAW

HAY AND STRAW

The hay crop this season gives every sign of being a good one, especially in the eastern portion of this province. Reports from various scurces bear out this belief. Glover, especially, seems to be in Good of the control of the con

ton.

In Montreal, No. 1 timothy is quoted by dealers at \$15 to \$15.50; elover mixed, \$11.50 to \$12; baled straw, \$5.50 to \$6 a ton on track

THE WOOL MARKET

The local quotations for wool are as follows: Washed fleeces, 20c to 22c; unwashed, 12½c to 14c; rejects, 16c a lb. Farmers are being paid by dealers, 20c for washed and 12½c to 13c a lb. for unwash-

BSORBINE ealthy sore quickly; does not blister to or remove the hair, work the horse. \$2 per MILL PEEDS

Local dealers are quoting Manitoba bran 818 a ton, and shorts, 820 a ton on track, Toronto, and Ontario bran, 830 a ton on track, 70 conto, and Ontario bran, 850 821 a ton, on track, Toronto. 11 Montreal, Manitoba bran is quoted at 81850 and shorts, 821 a ton; Ontario bran, 819, and shorts, 821.50 to 822 a ton on track Montreal.

EGGS AND POULTRY

EGGS AND POULTRY

The organization of egg centres in the Country of Peterborough, which is being actively of Peterborough, which is being actively of Peterborough, which is relating a control of the Country of the Co

Prices ruling at present on the market. It is not amiss to again call the attention of those interested to the economic advantage of the control of the cont

POTATOES AND REANS

POTATORS AND BEANS
The price of potatoes is showing a high
er tendency, although far below the figures current at this time last year. The
farmers have evidently come to the contheir cattle with the principle to feed
their cattle with the principle to feed
ship them to the city. Local dealers
quote Ontarios at 40e to 46e a bag, and
Delawares at 60e to 55e a bag.
In Montreal there are no Ontarios whatever on the market, but Green Montains
ever on the market, but Green Montains
ever on the market, but Green Montains
ever on the market of the contracts. More

On the local market the price of be On the local market the price of beans remains unchanged, primes being quoted at \$2.00 to \$2.10 a bushel, and three pound pickers at \$2.20 to \$2.20 a bushel.

In Montreal prices rule easy, at the same figures as last week, viz., primes, \$1.90 to \$1.92 a bushel.

83.

DAIRY PRODUCTS

The Quebec Government, however ex-cellent its way of doing most things may be, has, if reports are correct, a novel method of dealing with the provincial cheese industry. The cheese bought on be has, if reports are correct, a novel method of dealing with the provincial cheese industry. The cheese bought on the Brockville cheese market is generally recognized as of superior quality to the Quebec brand. It is understood that the Quebec brand. It is understood that the control of the province of the province of the quebec have been dealers of the Quebec article outly by auctioning off the Quebec article sufficient of the province of the province of the farmer whatever disparity of price between the two brands there may be. This is one way of fostering an industry. As The Trade Bulletin apity remarks, "If the Tarmer whatever disparity of price between the two brands there may be the two the province of the province o

HORSE MARKET.

HORSE MARKET.

The horse market has been very quiet the past week and there is nothing of interest to chronicious to the worses are still being shipped to the Worses are still being shipped to the Worses are still being shipped to the Worses and the work of the worse which was a shipped to the worse which was a support to the worse which was a support to the worse when we would be to the worse when we would be worse when we would be worse when we would be with the worse when we would be worse. Support to the worse worse when we would be worse when we would be worse. Support to the worse worse when we would be worse when we would be with the worse worse when we would be worse when we would be with the worse worse when we would be with the worse worse worse when we would be with the worse worse worse when we would be worse when we would be worse when we would be with the worse worse when we would be worse when we would be with the worse worse worse when we would be with the worse worse with the worse worse worse with the worse worse with the worse worse with the worse worse worse when we want to worse with the worse worse worse when we want the worse worse we will be with the worse worse with the worse worse with the worse worse we will be with the worse worse worse with the worse worse with the worse worse worse we will be with the worse worse worse with the worse worse worse with the worse worse worse worse with the worse worse worse worse worse with the worse worse worse with the worse worse worse worse with the worse worse w

LIVE STOCK

Reports from Chicago and Buffalo indicate a steady tenure of the high prices at which cattle have been offered for the past few menths. There is an easier the past few menths. There is an easier the past few menths. There is an easier from 16 to 16 a cwt. lower than at last week's quotations. There is no easement in prices of cattle on the local market, although hogs and sheep show a marked, although hogs and sheep show a marked to be sheep show the sheep show the properties. It is priced to the properties of the properties of the properties of the properties of the properties. The local market last week.

Choice exporters, 85.50 to 87.50: medium, 86 to 85.50: ordinary, 82.50 to 85.70.

Butchers—81 to 83.50 hulls, 94 to 85.60 shulls, 94 to 85.50 hulls, 94 to 85.60 shulls, 94 to 85.50 s

steers, \$4.50 to \$5.60;

ity.
Feeders—Choice steers, 84.50 to 85.60;
bulls, 83.50 to 84.25.
Canners—St. 10 82.75.
Canners—St. 10 82.75.
Canners—St. 10 82.75.
Canners—St. 10 82.75.
St. 10 82.75.
S

PETERBORO HOG MARKET.

Peterboro, Monday, June 6.—The delivery f Danish hogs on the English markets ast week totalled 34,000. The demand for of Danish hogs on the English markets last week totalled \$4,000. The demand for bacon in the old country is fair. The deheave. The George Mathews Co. (until the following prices for this week's shipment of hogs: f.o.b. country points, \$9 a cwt.; weighed off cars, \$9.50 a cwt; delivered at abatoir, \$9.25 a cwt. .

MONTREAL HOG MARKET. MONTREAL HOG MARKET.

Montreal, Saturday, June 4—The local
market for live hogs has been fairly
steady this week. Supplies from the country were comparatively light, and turned
out to be just sufficient for the demand,
and prices were consequently firmly mained, sales being made at about \$10 a cwt.
for selected lots weighed off cast,
the demand for dressed hogs is good,
freeli stilled abactors stock selling freely
at \$13.75 to \$14.00 a cwt.

EXPORT BUTTER AND CHEESE.
Montreal, Saturday, June 4th.—Prices in the country this week have been fairly well maintained, the average price paid being practically the same as the week being practically the same as the week state of the price of the price at the price at 10% as 10% on the price at 10% as 10% on the price at which the bulk of the offerings, however, sold at 10% c, and this seems to be the price at which the bulk of the superit trade was at which the bulk of the superit trade was tread for export was about 110 a lb. There is every prospect of these prices being maintained during the ensuing week. as the demand from Great Bristain at this date is good and is likely to continue so. The heavy make keeps up, the receipts for the service of the price of the service of the EXPORT BUTTER AND CHEESE.

The market for butter is very firm, and there is every indication that prices are approaching the lowest point for the pre-

Well Drilling

I drill a 4½ inch hole; work done summer or winter; pumps and fixtures always on hand. I guarantee water. always and partience. Eight gason line and second of the second of the line in the second of the second Time given if needed by notes. Work your while to write for terms and prices this year, to

ARTHUR CAMPBELL L'Orignal, Ont. Phone No. 8

OUR STICKNEY GASOLINE ENGINE



s simpler than any other on the market. You can learn to run it IN 10 MINUTES

Won't easily get out of kilter. GUARANTEED Our Booklet No. 57 is full of

ONTARIO WIND ENGINE AND PUMP CO. TORONTO, ONT.

WINDMILLS Towers Girted every five feet apart and

Grain Grinders Pumps Tanks Gas and Gasoline Engines Concrete Mixers Write for Catalogues

double braced

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

THE IDEAL **GREEN FEED SILO**



Save your flav Decrease Grain Bills Produce More Mitk Make More Money

With one of our Silos you can do it. Thous-ands in use. Built in all sizes, and shipped complete. Send for Free Catalog.

CANADIAN DAIRY SUPPLY CO. MONTREAL

FARM FOR SALE

100 acres, in County of Wentworth, Ont. Land suitable for mixed farming and stock. Only a few hours' drive from three good market towns. Good roads. A bargain at \$5,500. For full particulars

M. C. VALENS, Dundes, Ont.

HOLSTEINS

FOR SALE.—Cornelia's Posch, five times ist prise bull at Toronto and London Fairs; also five of his sons, all from rec-ord of merit cows. Also females of all

THOS. HARTLEY Downsview, Ont

LYNDALE HOLSTEINS

We are now offering for sale a 13 mm old son of "Count D & Kol Pretertji Pan out of a 20 lb. dam; also a son of Sa Hengerveld Korndyke, from an 18 lb. co Both choice individuals, fit for service. BROWN BROS, LYN, ONT.

EDGEMONT HOLSTEINS

For sale, one yearling buil, fit for service; also bull calves from Record of Performance Cows.

G. H. MCKENZIE, Thornhill, Ont.

FOR SALE

An extra good yearling Holstein bull for sale from a 30 lb. sire and a 17 lb. dam. Am also in a position to offer cows in calf to Francy III's Admiral Ormsby, Dam, Francy III. Butter in 7 days, 29-16. All eed to be just as represented

J. A. CASKEY, Box 144, Madoc, Ont.

LAKEVIEW HOLSTEINS

Count Hengerveld Fayre De Kol hende the herd. His sire, Pietertig Hengerveld Count De Kol, is the sire of the world's Count De Kol, is the sire of the world's build of the pieter of the world's build of the pieter of the pieter of the base mile and six and sold be as \$2.50 hs. butter in 7 days, and is the of Grace Fayre 2nd's Homestead, the country of the pieter of the pieter of the butter in 7 days. Bull clavite for alle.

E. F. OSLER, Bronte, Ont.

AYRSHIRES

AYRSHIRES

One young cow freshening about June 25th. One bull calf, dam and gr. dam on sire's side, both R. O. P. cows. Also bull calves from Record of Performance cows.

JAS. BEGG, Rural No. 1, St. Thomas, Ont

BURNSIDE AYRSHIRES

BURNSIDE AYROMINES
Fresh importation just landed of 12 of
the choicest young buils I have ever landded, from the best bards in Scotland, such
as Osbornes, best bards in Scotland, such
as Osbornes, and Fresh of Hobbald
Bargenoch Bar of Hobbald
Bargenoch Bar of Hobbald
G. Lockhergus, all fi for service and the formatic owns, year olds, and
formatic owns, year olds, and
complete on year olds, and
complete of the property of the

CHERRY BANK STOCK FARM

Have yet one yearling bull fit for ser-ice, a good big fellow with lots of quali-calso three last fall bulls. Females, any go, and calves of either sex. Write for P. D. McARTHUR, North Georgetov

mile from Howick Station. Que

STADACONA FARM Show a Record for 1909

Show a Record for 1909
At Three Rivers, Quebec's Provincial
Exhibition, at Shebrooke, Ganaday Great
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U.S. And I. A. Barton, Vermont.
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GUS. LANGELIER Stadacona Farm, Cap Rouge, Que

"La Bois de la Roches" Stock Farm

Here are kept the choicest strains of AYRSHIRES, imported and home bred. YORKSHIRES of the best become types. WHITE ORPINGTON. WHITE WAYN. DOTTES and BARRED ROCK Poultry.

HON. L. J. FORGET.
Proprietor
Manag
B-5-26-10
Ste. Anne de Rellevue. Ou J. A. BIBEAU, Manager

TWO AYRSHIRE BULLS FOR SALE

12 MONTHS OLD Of Choice Breeding, sired by AUCHEN.
BRAIN GOOD GIFT (Inn. 2259... The
dams are cows with good in and far records. Of good size and read or acrice.
Price fo.b., with registered pediagree, 856
cach. Also a few Buil Calves by same
Sire. Write.

W. F. STEPHEN, Huntingdon, Que.

HOLSTEINS

BULLS! BULLS! BULLS!

A less than half their value for the next 30 days. Write

GORDON H. MANHARD MANHARD, ONT., Leeds Co,

HOMESTEAD HOLSTEIN HERD

Headed by the great young sire, Dutch land Colantha Sir Abbekerk.
Dam. Tidy Pauline De Rol, butter 7 days.
22.44. Sire's dam. Colantha 4th's Johanna butter 7 days, 55.22. Average of dam and sire's dam. 31.83 lbs.
Bull calves offered, one to seven months.

Bull calves offered, one to seven months old, from dams up to 251/4 lbs. butter in 7

EDMUND LAIDLAW & SONS Box 254 Aylmer West, Ont.

RIVERVIEW HERD

Offers bull calves at half their value for the next 30 days. One ready for service, one sired by a sen of King of the Pontiac, dam daughter of King Segis. Record, 18.37 lbs. butter, 7 days, as Jr. 2 year old.

P. J. SALLEY Lachine Rapids, Our

GLENSPRINGS HOLSTEINS

Three Fine Young Bull Calves, from A. R. O. and R. O. P. cows for sale. Also COUNT GERBEN 4431, born April 24, 1904 Dam, Shady Brook Gerben Parthon ia. Sire, Sir Henry Parthonia, Dam, Shady Brook Gerben.

Butter in 7 days, at 3 yrs., 16.16. Butter in 7 days.

at 3 yrs., 16.16. 20.11. Sire, Manor De Ko. 32 A. R. O. daugh Butter Boy 3rd. 43 A. R. O. daugh-ters. Dam, De Kol 2nd. Butter, 25.58.

E. B. MALLORY, Frankford, Ont

SUMMER HILL HERD REGISTERED HOLSTEIN CATTLE

This year our herd has made two World's Records, and two Canadian Recworld's Records, and two Canadian Rec-ords.

Jennie Bonerges Ormsby £315, calved as a mer year old, gave 15,499 hs. milk, contain the year old, gave 15,499 hs. milk, contain World's Record butter in 25 days. (Official World's Record 14,29 hs. butter in 7 days, ten months after calving, which is World's She also made 14,39 hs. butter in 7 days. ten months after calving which is World's France that period (She will do much better all periods and the 15,47 period Calamity De Kol 1944, made 15,47 record for in 7 days, which is Ganadian cond for heiters calving before two years old.

tos. others as a serving before two years record for helfers calving before two years record for helfers calving before two general three females are all of the same breeding of the Francy family. We have more to hear from the following the

D. C. FLATT & SON, Millgrove, Ont R. R. No. 2.

HOLSTEINS WINNERS IN THE RING

Gold Medal Herd at Ottawa Fair and WINNERS AT THE PAIL

See Our A.R.O. Records

Just the kind we all want. They combine CONFORMATION

PRODUCTION Bull and Heifer Calves for Sale from Our Winners

"LES CHENAUX FARMS" Vaudreull, Que.

Dr. Harwood, Prop. D. Boden, Mgr.

sent. Next week's receipts will be June made, and strictly finest in every respect, and a the price is low compared with this time of the price is low compared with this time. The price is low compared with this time of the price is the price is a consideral year. In fiftuence price upwards. The finest of to influence price upwards the finest of the price is the price in the price in the price is the price in the price is the price in the price in the price is the price in the price is the price in the price in the price in the price is the price in the price in the price is the price in the price is the price in the price in the price is the price in the price is the price in the price in the price is the price in the price is the price in the price in the price is the price in the price is the price in the price in the price is the price in the price is the price in the price in the price is the price in the price is the price in the price in the price is the price in the price is the price in the price in the price is the price in the price is the price in the price in the price is the price is the price in the price is the price is the price in the price is the price is the price in the price is the price is the price is the price is the pric CHEESE MARKETS

CHEESE MARKETS

Crysler, Ont. May 27.—Best bid, 10 13-16e.

No cheese sold, being held over until next
board, salesme, we calling better prices.

Cowansville, May 26.

Cowansville, May 33.—1190 boxes offered,

Campbellford, May 33.—1190 boxes boarded; 190 boxes sold at 10% eff at bid of

10 3-16e offered for the balance, but only

we factories sold.

Alexand-data 33.—570 boxes boarded; all

old 10 3-16e offered for the balance, but only

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old 10 3-16e offer

sold at 10 \$3.66 Alexandra, June 2 -648 cheese, all white, sold at 10 % June 2 -333 white and 100 colored offered. Sales were 510 at 10% c. \$35 at 10 1356; 120 at 10% c. balance refus ing 19 1346c and 10% c. balance refus Brockville, June 2 -2235 colored and 1315 white offered. Best offer, 10 \$3.6c; non-

sold.

Kingston, June 2—1650 white and 522 colored registered at 165c to 105c; nearly all the board selected out.

Tweed, June 2—250 miles cheese board-cd; 10 945c bid; no salid; posser register-cd of which, 160 were colored; balance white: 105c offered, and a few sold on the

onte. 1978 one 3.—390 colored and 273 on the cheese boarded; nearly all sold at white cheese

10 9-160 9-16c. Perth, June 3.—1390 boxes cheese boarded 1000 white and 300 colored. Ruling price was 101/20.

CRUMB'S WARRINER STANCHION



Prof. F. G. Helya Mt. Herman School, Herman, Mass., wri We could not get along ithout Warriner Stanch-

Send address for book.

Send address for book.

WALLACE R. CPETRIE B. F. 20-2-4 B. Comm. U.S.A.

All correspondence should be real Canada and to the home office.

Grate in inquiry if you prefer booklet in Franch or Righta.

Dr. Bell's Veterinary Medical Wonder confidential matter of lungs, bowels The aoth century wonder. Agents want county. Write for a free trial 5: bottle. The good for 60 days. Limited to 500 bottles. nly go DR. BELL, V.S., Kingston, Ont.

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

impshire boars, two months old, \$12. sow, eight months old, \$35. One pair, akin, \$30. Registered pedigree with

NELSON FOX, Harrow, Ont.

TAMWORTHS AND SHORT HORNS FOR SALE Young and matured sows sired by Imp Toung and matured sows sired by Imp Boar in 1902-35 and '05. Alse choice pin plant in 1902-36 and '05. Alse choice pin plant in 1902-36 and '05. Alse cellent miking strain. Three choice heif, prices right. The choice built.

A. A. COLWILL, Box 9, Newcastle, Ont.

AYRSHIRES

SPRINGHILL AYRSHIRES Imported and home bred stock of all ages for sale. Stock shown with great success at all the leading fairs,

ROBT. HUNTER & SONS
Maxville, Ont
- 8-7-1-10 long distance phone

Picton, June 3,-22 factories boarded 2327 coxes colored. Highest bid, 10 9-16c; 2247

June 3.-Chi

Napanee, June 3.—Cheese boaded, 900 colored and 1900 white, which sold on the board and curb for 1902 in 1900 colored and 460 white cheese offered; 20 colored and 460 white sold on the board at 1956. Balance sold on the tree at same price. Canton, N. Y., June 4.—1700 boxes of cheese sold at 140.

cheese sold at 14c.

Cowansville, Que., June 4.—120 boxes of cheese boarded; all sold at 19%c.

London, Ont., June 4.—188 boxes, 488 white, and the balance colored, boarded; 208 white sold at 10%c.

St. Hyacinthe, Que., June 4.—600 boxes cheese sold at 10%c.

Watertown, N. Y., June 4.—Cheese sales.

GOSSIP

LARGER DAIRY PROFITS

LARGER DAIRY PROFITS

A large catalogue full of suggestions for dairy farmers, large and small, has come to hand from W. A. Drummond & Co., of the largest manufacturers of the largest manufacturers of dairy of the largest manufacturers of dairy of the largest manufacturers of dairy of the largest manufacturers of their population of the largest manufacturers of useful and convenient articles under the largest manufacturers of useful and convenient articles the largest manufacturers of the largest manufac

LARGEST PROFITS WHEN UNDER OFFI-CIAL TEST

A breeder ask why I do not somatimes give cost of production, and the value of consumer, for each dollar's worth of food consumer, and the sees that the Association someting that he sees that the Association someting the cost of production because, except in the cost of production because, except in charge of a disinterest production because, except in charge of a disinterest production to the production of the production of

serious during wants they are numer theorems.

As to the calculations of the returns a consider a worth of food consumed from each dollar's worth of food consumed that is the method that calculating per cent. I would be subjected to the subject of the subject o ation but one factor—that of cost of food; and it ignores the factor of time and care.

Holstein-Priesian breeders are nothing for per cent, profit, nothing making their feed last the longest possible time, and the profit feed last the longest possible in the profit feed last the longest possible in the last the longest possible in the last the longest possible not profit. They do not want have been with the last blow how little value in feed a cow much net profit a given time, but how much net profit a given time, but how much net profit and above the value of the food consumed and above the value of the food consumed not be considerable that time. Measured the false method of per cent, profit, especially in the butter fat produced is alone considerable that the profit of the profit profit is along the profit profit profit profit in the mortgage of the practical work of lifting the mortgage the practical work of lifting the mortgage the practical work of lifting the mortgage that the profit pained. M. E. Gardner, Supt., Advanced Registry, Delavan, Wis.

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Ayrehires of the right stamp for production combined with good type and quality. Write for prices. O122-10.

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

NORTH GROWER -Seeding is all done with the exception of corn and part of the root crop. Last year's grass eceding is looking well. Old meadows and pastures, however, are not doing well.—E. K.

HASTINGS CO., ONT.

HASTINGS CO., ONT.

ACTINOLITE.—Farmers are almost done seeding. Everything is looking fine, and there is every prospect of a bountiful harvest. Butter, eggs. and every kind of meat continue to sell for high prices.—T. K.

HALIBURTON CO., ONT.

HALBERTON CO., ONT.

KINGUNY.—There is a numual number

stallions on the road, all breeds being
replesented. The colt crop for 1916 is very
large. Small pigs are still scarce. A

on the Tue stall pigs are still scarce. A

on the Tue been shipped in from points
full swing, 25c a lb. their factories are in
full swing, 25c a lb. there factories are in
full swing, 25c a lb. there is no the top of the
the west last week. The following prices
are being paid for farm produce: Butter,
as the install pigs and the farm points
for line in the color of the color of the
hear, 65c to St.; pork, 15c to 16c lb. in
ton, 11c to 12c a lb.; beef, 11c and 12c—

S. T.

PETERBORO CO., ONT.

PETERBORO CO., ONT.

PETERBORO. — The annual meeting of the Farmers' Institute of West Peterborough will be held on the farm of the preceding. J. H. Garbutt, on Friday, June 100 Code. A drainage demonstration will be constructed by the control of the control of

DURHAM CO., ONT.

DURHAM CO., ONT.

SULINA—During the past 10 days cold and unsettled weather has prevailed flowers, the crops have steadily advanced lowers, the crops have steadily advanced under the control of crops in general that would be difficult to surpuss. Fall wheat is developing "de luca" and your correspondent has seldom seen wheat more promising at this period seen wheat more promising at this period seen wheat more promising at the period of the control of

VICTORIA, CO., ONT.

VICTORIA. CO., ONT.

OAKWOOD.—Seeding is all finished. In the majority of cases the root crops are being rushed into the ground. Although sawwhat copions abovers tend to retard search to the saw that the same tha

WELLINGTON CO., ONT.

WELLINGTON CO., ONT.

METZ.—On account of so, much wet
weather in April and May some of the
farmers are just through seeding. Some
of the earliest fibrough seeding. Some
of the earliest ones, logs are about be
a list; young pigs are
selling at a special is lower; seeding as telling at
selling at 45c; oats, 35c; peas, 45c; barler,
5c; butter, 25c; and ergs, 15c. Eggs are
very pintiful.—W. M.

WELLINGTON CO. ONE.

WATERLOO CO., ONT.

will be put up this year. Spring grain is growing indeely the warm weather of the past week. The season has been very the past

OUR FARMERS' CLUB well, but in many fields the stand is not support to the stand in the support to the stand in the support to the stand in the stand is not support to the stand in the stand is not support to the stand in the stand is not support to the stand in the stand is not support to the stand is not su

MIDDLESEX CO., ONT.

—D. G. S.

MIDDLESEX CO., ONT.

TEMPO.—To show the difference between the present and the past, of some of an early settler of this part, told the said:

The settler of this part, told the said:

The settler of this part, told the said:

In the twenties, when I first took to the settler of the said:

The settler of this part, told the said:

The settler of this part, told the said:

The settler of this part, told the said:

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The settler of the settler of the said to move a final to make a settler of the said to the settler of the settler of the said to the settler of the said the

ELGIN CO., ONT.

TALBOTYLLLE.—Indications all point to an abundant harvest. All fruit trees have bloomed in great profusion. A farmer bloomed in series of the profusion of the profusion of the profusion of the burn of the

GOSSIP

HOLSTEIN FRIESIAN OFFICIAL RE-CORDS FOR APRIL, 1910. (Continued from page 20)

(Continued from page 20)
13.44 lbs. butter; 397.3 lbs. milk Owned
by George Kilgour, Delmer, Ont.
Colamity Grace (4771) at 6 yrs. 10 mos.
Colamity Grace (4771) at 6 yrs. 10 mos.
Grace (471) at 6 yrs.

Centre View Anna 2ad (650) at 5 yrs., 5 months, 19 days of age, 1570 lbs, butter fats, equivalent to 17.13 lbs, butter fats, equivalent to 17.13 lbs, butter; tids, 100 lbs, butter fats, equivalent to 17.15 lbs, butter; tids, 100 lbs, 100

i month, 23 days of age, 14.54 lbs. butter fat. equivalent to 18.17 lbs. butter, 520 hbs. milk. Owned by Orrin Strader, Brinston, Claura Jewel (625) at 4 yrs, 9 months, 14 days of age, 14.13 lbs. butter fat. equivalent to 17.66 lbs. butter; 35.4 lbs. courself of the 17.65 lbs. butter; 35.4 lbs. poster of age, 14.37 lbs. butter fat. equivalent to 17.99 bs. butter; 45.7 lbs. milk. 24 days of age, 15.5 lbs. butter fat. equivalent to 17.91 bs. butter; 45.7 lbs. milk. adapt to 7.84 bs. butter; 45.7 lbs. milk. days of age, 16.83 lbs. days of age, 16.83 lbs. days of age, 16.83 lbs. butter; 45.20 lbs. butter, 45.10 lbs. butter; 45.20 lbs. butter; lbs. b

fat, equivalent to 1441 lbs. butter; 331.1 lbs. milk. Owned by Walter 8. Scholl. Woodstock, Ont. Woodstock, On

Owned by Benj. R. Lee, ed., thes. milk. Owned by Benj. R. Lee, Bloomheid, R. Lee, R. L

Jemims Pietertje (733) at 3 75m., 7 months, 8 days of age, 11.57 lbs. butter fat, equivalent to 14.56 lbs. butter, 383.04 lbs. milk. yeord at 3 75m., 7 months, 3 days of age, 44.24 lbs. butter fat, equivalent to 54.34 lbs. butter fat, equivalent to 54.34 lbs. butter fat, equivalent to 55.34 lbs. butter, 150 milk. Owned by Thomas Hartley, Downwier, Out.

ut. Gaza Aconeth Calamity (8814)) at 3 yrs., month, 26 days of age, 11.57 lbs. butter tt. equivalent to 14.46 lbs. butter; 362.5 ss. milk. Owned by A. E. Hulet, North Day

int, cultivate to 14.6 lbs. butter: 362.3 lbs. milk. Owne by A. E. Hulet, Norwich, Ont.

Secheriand correita Posch (7697) at 3 Norwich, Ont.

Secheriand correita Posch (7697) at 3 butter, Secheriand they of age, 10.90 lbs. butter fat, equivalent by Walter Sc. 50.5 lbs. milk. Owned by R. Connell, Secher Sc. 50.5 lbs. milk. Owned by R. Connell, Secher Sc. 50.5 lbs. milk. Owned by R. Connell, Secher Sc. 50.5 lbs. milk. Owned by R. Connell, and the Sc. 50.5 lbs. milk. Owned by R. Connell, and the Sc. 50.5 lbs. milk. Owned by R. Connell, milk. Owned by R. Connell, Roebuck, On the Owned by R. Connell, R. Connell

milk.

Fourteen-day record at 2 yrs., 1 month, 7 days, of age, 24.77 lbs. butter fat, equivalent to 30.97 lbs. butter; 809 lbs. milk. Owned by R. Connell, Roebuck, Ont.

Ont.

Bonny Tensen DeKol (1983) at 2 yrs.,
6 months, 15 days of age, 12.6 lbs. butter
fat, equivalent to 15.6 lbs. butter
fat, equivalent to 15.6 lbs. milk. Owned by D. Flatt & Son,
Miltrove, Ont.
Milt

days of age, 11.99 lbs, unter the sales to 14.99 lbs, butter; 3387 lbs. alik, owned by David Coughell, Yarmouth Emma of Evergreen (1648) at 2 yrs., 23 days of age, 11.91 lbs. butter fat, courselent to 14.89 lbs. butter; 337, lbs. milk. Soria DeKol Vancell, Roebnek, Out. Soria DeKol Vancell, Roebnek, Out. Soria DeKol Vancell, Roebnek, Out. Soria DeKol Vancell, Sori

NOTICE TO SUBSCRIBERS.

When sending in change of address, please give your old address as well as the new.

Barbara Calamity DeKol (10897) at 1 11 months. 6 days of age, 9.97 lbs. but fat, equivalent to 11.47 lbs. butter; lbs. milk. Owned by R. Connell, Roebo Ont.

DeKol Hasketon Belle (10158) at 2 yrs., 1 month, 27 days of age, 9.92 lbs. butter fat, equivalent to 12.46 lbs. butter; 232.8 lbs. milk. Owned by D. C. Flatt & Son, Millgrove, Ont.

Millerove, Ont.

Hilda of Nober (1982) at 4 yrs., 21 days, of age, 9.72 lbs. butter fat, equivalent to 12.5 lbs. butter; 36.2 bs. milk. Owned by W. J. Bailey, Nobels at 2 yrs., 21 months, 25 days of age, 465 lbs. butter; 35.8 lbs. milk. Owned by B. Mallory, Belle Milk. Owned by B. Mallory, Belle.

Tensen Posch DeKol (9567) at 2 years months, 14 days of age, 9.60 lbs. butter at, equivalent to 12.00 lbs. butter; 325,4

fat, equivalent to 12.00 lbs butter; 326.4 lbs. milk.

Thirty-day record at 2 years, 4 months, 14 days of age, 37.14 lbs. butter fat, 20 lbs. milk.

Thirty-day record at 2 years, 120 lbs. milk. on 10 48.4 lbs. butter; 1220 lbs. milk. on 10 48.4 lbs. butter; 1220 lbs. milk.

Daisy Kirk (1190) at 2 years, 10 mos, 11 days of age, 9.52 lbs. butter fat, 120 days of age, 9.52 lbs. butter fat, 180 lbs. milk. on 15 days of age, 9.52 lbs. butter fat, enview, Ont.

Bell Wayne DeKol (1638) at 2 yrs., 19 days of age, 9.56 lbs. butter fat, enview, 10 lbs. butter; 321 lbs. milk. owned by g. hbs. butter; 322 lbs. milk. owned by g. hbs. butter; 322 lbs. milk. owned by g. hbs. butter; 321 lbs. milk. owned by g. hbs. butter; 321 lbs. milk. owned by g. 10 lbs. butter; 311.5 lbs. putter fat, enview of age, 9.30 lbs. butter fat, environments of age, 9.30 lbs. butter fat, owned by W. Milkelent Spike 11.6: lbs. butter; 311.5 lbs. owned by W. Milkelent Spike 11.6: lbs. butter; 311.5 lbs. owned by W. Milkelent Spike 11.6: lbs. butter; 311.5 lbs.

Ont.

Julia Mercena Posch (11381) at 1 year, 10
months, 14 days of age, 8.86 lbs. butter fat,
equivalent to 11.08 lbs. butter; 22.93 lbs.
milk. Owned by Wm. Slaght, Bealton, milk. Owned by with bingst, heaten, Ont.

Burke Hengerveld 2nd (11260) at 2 yrs.,
2 months, 21 days of age, 8.59 lbs. butter fat, equivalent to 10.75 lbs. butter; 266, bs. milk. Owned by R. Connell, Roebuck,

Ont. Owney Dysch Jewel (9568) at 2 yrs., 7 mos., 15 days of age, 8.52 lbs. butter fat, equivalent to 10.65 lbs. butter; 311.1 lbs. milk.

equivalent to 10.65 lbs.—boute outler fat, milk, why record at 2 yrs. 7 months, 15 days of yrs. 3 days of yrs. 4 yrs. 1 months, 22 days of yrs. 6 days of yrs. 3 days of yrs. 4 yrs. 1 months, 25 days of are, 80 lbs. butter fat, equivalent to 10.00 lbs. butter fat, equivalent fat, equivale

G .W. CLEMONS,

Secretary



As imitators but the Gompolitors.

A Safe, Spoody and Positive Curs for Our for Our both Strained Tradnan, Foundar, Wind Strained Tradnan, Foundar, Wind Strained Tradnan, Foundar, Wind Strained Tradnan, Foundar, Wind Strained Tradnan, Pophtheria, Removes and Bundons from Horses or Outstand, Piphtheria, Removes and Bundons from Horses or Outstand, Piphtheria, Remove and Bundons from Horses or Outstanding Strained S

The Lawrence-Williams Co., Toronte, Ont.



Every Farmer's Wife in Canada





you, Madam, are a farmer's wife, you should use your influence to get your husband to roof the house and barn with Oshawa Galvanized Steel Shingles. For these practical reasons:

Safe Against Lightning

Every thunderstorm that passes over your place endangers his life and your own, and threatens damage or destruction to the property. Bu' here would be no such danger e farm buildings were roofed Oshawashingles. c any building against far better than any They pro lightnip rod system possibly can. lightn;

ife Against Fire

And, at certain times in the year, the horse you live in and the barn nearby is in danger from fireflying sparks from the threshing machine; sparks from the kitchen chimney; sparks from passing locomotives; sparks from forest fires, perhaps. Farmer's roofs catch fire in many ways-and you are different from most farmer's wives if you do not dread this everpresent danger. You need not dread it at all when the buildings are covered with a seamless steel fireproof Oshawa shingled roof

Improves Cistern Supply

Probably you depend a good deal on cistern water. An Oshawa-shingled roof keeps your cistern fuller, and the water is cleaner, tasteless, without odor. It never can be from a wood-shingled roof. It always is from an Oshawa-shingled roof.

Costs Very Little

Costs Very Little

When you speak to your husband about this, ask him to send for the instructive and handsomely-illustrated free book called Roofing Right. He will see, when he returned that, that the see that the see that the returned that, that the see that the rents per per for a hundred square feet of roof surface. He will see that this roofing is guaranteed to satisfy in every sense for twenty-five years, or he gets a new roof for nothing. He will see that it will pay him well to cover his house and barn with a roof that is guaranteed wel-proof, wind-proof, fireproof and lightning-proof for a quarter century, and that will be a good roof in every sense for fully 100 years.

Use Your Influence

Interest yourself in this vital matter. It directly concerns you. Get your husband to inquire into it. Get him to send for the free book—now—to-day. Or send for it in your own name. Do that, anyway. You will be interested in what the book You will be interested in what the book tells you; and it is important that you, as well as himself, should know all about roofing, and about Roofing Right in particular. Send now for the book, please. **OSHAWA STEEL** SHINGLES are made of 28 gauge steel, specially toughened and heavily galvanized to make them rust-proof. Thus they weigh about SEVENTY-EIGHT



pounds to the square. With the box about 88 pounds the square.

When considering metal shingles always learn THE WEIGHT OF METAL per square offered and be sure that the weight is of the METAL ONLY.

Make the weight test vourself. First be sure the scales are accurate. Then unbox a square of Oshawa Shingles and weigh them. Note that the weight averages 78 pounds WITHOUT THE BOX.

Don't go by the box weight. Some boxes weigh fourteen pounds or more.

DON'T stop when you have Oshawa-shingled your roofs. That is only the first step towards making a house modern, or a barn what a barn should be. or a barn what a barn should be. Go on and plate your house inside and out with steel. Cover the surface of your barn with steel. In a word, "Pedlarize" every building on your farm. This way:

Make Your House Fireproof

Finish the interior of every room in your house with Pedlar Art Steel Ceilings and Side-Walls. These are made in more than two thousand beautiful designs, the patterns stamped accurately and deeply into the heavy and imperishable metal. They cost less than plaster in the first place; and they will be like new when a plaster ceiling or wall is cracked take long as a rule. They are easily put in place. They can easily be painted and decorated,

> Make Your House Sanitary

Sanitary
Then, if you surface the exterior of the house with Pedlar Steel Siding—it is made to simulate brick, rough stone, cut stone —these Ceilings and Side-Walls and an Oshawa-shingled roof gives you a residence that is more nearly fireproof than the "skysrapers" of the great cities. Also, such a house will be much warmer in winter than if it were built of solid brick—and so it will save its cost in fuel-savings. It will be collect in summers a summer of the summer of th

Make Your Barns Safe

With Pedlar Steel Siding you can finish the outside of your barn most economi-With Pedlar Steel Siding you can finish the outside of your barn most economically, and your cattle will thrive better in bitter weather than if they were housed in a solid concrete barn. This heavy-gauge seamless steel finish, keeps out the wind and keeps in the animal beaut. It awas in lesgenged feed-bills onf the wind and keeps in the animal heat. It saves in lessened feed-bills enough to pay its cost over and over. It costs but little; it is simple to put on; and it will outlast the building's very timbers. Most important of all, it—with Oshawa Steel Shingles for the root-fire, entirely free from every kind of dampness, and proof against lightning.

Learn About Pedlarizing

At the same time you send for your free copy of Roofing Right Booklet No. 9, ask us for particulars about these other Pedlar specialties. We will send you samples of any of them; prices; illustrations; and samples of the Oshawa Steel Shingle as well—all just for the asking.

GET SEVENTY-EIGHT POUNDS OF STEEL TO THE SQUARE TWENTY-FIVE YEAR GUARANTEE



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