Issued Each Week Only One Dollar a Year


THE HOME OF A FARMER WHO HAS ACCOMPLISHED MUCH FOR HIS BROTHER FARMERS A glimpse at the horne 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 first 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 FAXR MING AND GANADLANGOUNTRY LIFE


## WE All MAKE MISTAKES

Some mistakes are only of minor importance while others affect us as long as we
live.
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-BALANCING 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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aranches: Peterborough, ont. montreal and quebec, p. Q .
WE WANT AGENTB in A FEW UNREPRESENTED DIBTRIOTS

## 



FIG.200
The "BT" Liftiong Manger.
or remodelling your stable WHY NOT PUT "BT" STANCHIONS WNY STEEL, STALIS IN IT? Th AND make it brighter and penter, will stronger. more durable and are less than any other kind of stab ling. With them your cows will be kept clean and comfortable. Ask ns to lay out your stables, and why it pays to nse "BT" Stanchions and Steel Stalls.

BEATTY BROS., Fergus, Canada, HuITE- MAV OARIIER

## Provincial Single Tax Organiza-

 tionOver 40 representatives of tax reform societies from all over the prov-
ince of Ontario ince of Ontario, met in convention in Toronto last week to adopt aggressive methods for the introduction of the single tax theory as a direct legiscial Organization. The new Provincial 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 the organization is to be an active
drawing force compelling recogntion drawing force compelling recognition
and consideration of the Henry George and consideration of the Henry George
principles at the next legislative ses princ
sion.

## The

The new organization will be known as "The Tax Reform and Direct Legtactics Leasue of Ontario," and the beyond a be adopted are aggressive local organizt. The league will form pality and electoral district in the province. Campaign work will be pro-
vagorously 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 on the local member to bring on dis-
cussion of proposed cussion of proposed changes before
the house. the house.
Joseph Fells, of London. England, was elected honorary president of the
organization: Wilson President: Arthur B. Farmer Toutham, to, Secretary ; D. B. Jaques, ToronTreasurer ; Harry B. Jaques, Toronto, Stewart and Julian Sale of Toronto, Stewart and Julian Sale of Toronto,
members of the executive committee,

## Work of a Graat Scientist

The researches in Bacteriology Dr. Robert Koch, who died May 27, of heart disease, at Baden-Baden, Germany, have been invaluable to agri-
culture and to society in general cuture and to society in general. As
early as 1876, he isolated the anthraxearly as 1876, he isolated the anthrax-
bacillus. In 1882 he discovered the germ of tuberculosis. In 1890 he dis covered the tuberculine test.
The value of this test in the cradication of tuberculosis among cattle 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. The wollds.
The world has lost its greatest bacteriologist in the death of Dr. Koch.
In fact it is largely due to 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

The importance which the subject of conservation has for the Canadian people and the valuable matter contained in the first annual report of the Commission of Conservation, makes the report worthy of a place on any
reference book-shelf, The report reference book-shelf. The report
contains the speeches of the eminent contains the speeches of the eminent
specialists who sion on various subjects of natural resources. It also embodies the program which each of the committees of the Commission has laid out for
itself. itself.
Copies of the report may be had on
application to James White, Sece 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 the fact that Canada is fully competent to conserve her natural resources
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 drawer of water for Uncle Sam. But contrary sort that are now continually cropping up in the American press show that this atritude towards Can-
ada is fast giving way ada is fast giving way. Here is a
sample from the editorial columns of the American Forestry Journal:
"Canada is measuring her timber resources and preparing to protect them by progressive and drastic measures against exploitatioc for the benefit of Wasteful foreign comstries, including her next door neighbor. We cannot look to the north for our salvation We must husband all our remaining resources and plant trees wherevg they car be grown more profitably than other crops, in order that our own future may be assured. This is
the only way. Canada has sources fory. Canada has not the retoo, and she is sufficiently wide awake add intelligent to guard her own. The only way that our timber resources ble is by the applica made inexhaustest scientific knowledge and the higheit common knowledge and the broadCbrservation, Ottawa

Believes He Would Make Good
Editor, Farm and Dairy,-1 noticed in a recent number of Farm and Dairy by Pres of the splendid work done Agricultural College of the Georgia Agricultural College, in which you sumbest that he would make a mond Macdonald College, St Ans as head of Macdonald College, St. Anne de Bellevue, Que.

I have known President Soule for some years and have followed with
pleasure his marked pleasure his marked advances in the prominent positions in agriculture ho has held during recent years in the United States and to which your article has so well referred.
I can heartily endorse
mendations and believe your recomproper authorities act that should the proper authorities act on your sugges-
tions in appointing President Soule to such a place of opportunity, he would make good.-T. G. Raynor, Ottawa,
Ont.

## Items of Interest

1905 , B. Spencer, B.S.A., who since 1905, has been connected with the Live Stock Branch of the Department of Agriculture, Ottawa, has been Sydney Fisher's) office, there to sup ervise the editorial work and distribu. tion of the publications of the ent re cepartment.
According to a statement made by Dr. J. G. Rutherford, Dominion Live Stock Commssioner and Veterinary
General, there is no General, there is no immediate pros pect of any relaxation of the regula tions respecting dog muzzling in west ern Ontario. Many politicians 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.
Farmers, here is an extract from an article in Farm and Dairy on "Hours of Labor on the Farm"-"The farm er who attempts to work all the time between rising and retiring, allowing only a short time for meals, is next Naturel. Even with strong physique, Nature rebels against such treatment Such a man is not living up to his highest privilege. He may make money and extend his possessions, but 10 to one he will have an empty life and a dwarfed soul." Ten hours of active work is enough.-The Canadian
Statesman, Bowmanvile. Statesman, Bowmanville.
Immigration into Canada for April reached record proportions, totalling immigration. The fast year's whol not yet in but The final returns are not yet in, but the total is estimated half were Anerican whom nearly oneinto the Canndian settlers coming for the Canadian west. Immigration for the month is about doubie that of April of last year. For May the total immigration considerably exceeded the previous May's record. The immigration Department reports that the total in quality and quantity of this year's immicration far exceeds any previous year ic the history of the Do-
minion.

## Issued

 Each Week

Only \$1.00

## co-operative egc circles have been formed in peterboro county

A New System of Marketing Eges and Poultry has been Lased

1cral of the best farming farmers in sevPeterboro have organived districts around poultry circles. Within the five cooperative expect to commenee the next few weeks they try products on the cooperative of their poul proved so successful in Demmark peet to retain for the Denmark. But they ex priated by three or four ef the money now ap handle most of our eggs and to middiemen whe great loss that results from to save, also, the methods of collecting from our present careless members of these circles believe marketing eggs. The set they will be circles believe that from the out5 set they will be able to sell their eggs for 2 cts . to 5 ets, a dozen above prevailing market prices, and ally better than this. will be able to do considerIf this borer this.
If this movement proves as successful as there is every indication that it will, it is not unreason able to expeet that it will spread rapidly throughout the country and that it may ultimately revolutionize our present chaotic methods of selling
eggs and poultry.

## CONDITIONB FAVORABLE.

Conditions in Peterboro coliaty are favorable for the success of this movement. How it came to started is interesting. Several years ago Prof, F. U. 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 strggest 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 colleeted 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 ater met one of the managers of the Wm. Davies Co., in Toronto, and explained to him the propWm . Davien. It met with his instant approval. The vanced price, all the egres the purchase, at an adthem and to full the eggs that might be supplied some incidents oeen the necnasqry crates. Later man from proceeding with the undertaking Newtme
A few months ago Farm and Dairy again had the efter 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 pur chasers of eggs and poultry in Canaga, findirg it impossible to secure enough eggs of first class quality for their trade, decided that something would have to be done to induce Oanadian farmers to market their eggs on a better basis. Mr. Gunn secured the assistance of Mr. John 1. Brown of Beachburg, who with his father, Mr. John Brown, secretary of the North Renfrew Farmers' Institute, had done mnch to interest the

## farmers of North Renfrew in the cooperative

 handling of poultry. Mr. Gunn and Mr. Brown asked Professor Elford of Macdonald Collego where he would advise them to start the move ment, 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 proto five hours. It was all its aspects for from four was further deoid was unanimously endorsod. It farmers in the adjoining districts at before the be called specially for that purpose at meetings to Last week and the wat purpose. meetings were held. At each place the of these was explained fully. So each place the proposal taken by the farmers So great was the interest in few cases did the meetings wives present that eleven o'clock, while in one ease adjourn before ed until after 12 o'olock one case the meeting lastcircle was formed, a draft each point a poultry and officers elected.

## THOSE WHO BPOKE.

The speakers at the various meatings ineluded Prof. F. O. Elford of Macdonald College, H. U, Duff of Norwood, the representative of the On tario Department of Agriculture in Peterbori County, who has helped the movement energetio ally from the first; John I. Brown of Gunn Langlois, and H. B. Cowan, Editor-in-Uhief d 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 merehant, the egg dealer, the wholesaler, the cold storage concern and the retail crocer. Wach of these mid dlemen 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 by $\$ 25,000,000$ 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.

## GREAT LOBs.

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

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 enormous. 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. This the farmers who sell good farmers for 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 carelessly was brought out clearly. handle their eggs
an UNLIMITED Market,
Professor Elford showed that there is an unlimited demand for eggs of good quality. As evidence ee 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 ad visability of their starting a 50,000 hen plant near Montreal as a means of partly overcoming the dif ficulty. He had advised against such action, but pointed out to the farmers in Peterboro Connty 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 farmerg 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 tould be local organizatien to shipment of their to look after the collection and to be collected eggs, that these eggs wonld have uniform in size andarly and that they must be the eges will have quality. It was decided that the circles at central point by the members of they will be collected points. Where necessary Le sent out fromect by an egg wagon that will mit of a full exp Peterboro. Space does not persue of the various rules being given in this isIt is proposious rules adopted.
It is proposed that every member of a circle their own a number and that they shall number to trace back to In this way it will be possible any stale or bad each circle and each producer are to be collected as they may deliver. The egg before shipment. Thed Peterboro and candled there
(Continued on page 16)

## Breed Only from Good Mares

Dr. H. G. Beed, 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 becanse 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 imposible to get good results.
We hear a great deal nowadays about using only hish 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 hiniself 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.
skekssary qualifortions.
It can be laid down as a rule that the better bred a mare is the more valuable she will te for breeding purposes. But altogether aside from breeding there are some qualifications which a mare should have before she is allowed to reproduce têer kind. She should be sound, or at least free from any blemishes or wes which are known to lee hereditary, suce as spavin 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 disense 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 disense 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 such as a spavin can be treated and in the majority of cases the animal made serviceably sound, lut 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.
vиве уном vies.
A brood mare should also be free from vice. Many mares are so vicions 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 ns 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 heir 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 proftable 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 chould not be overlooked in selecting a stallion, many people are not careful enough in applying it to the breeding mare.

## WRED OUT INFEHIOR MARES.

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


The Right Sort of a Clydeedale Mare
Notice the general conformation of this mare, par-
cularly as revards her forequarters. she is owned by Mr . A. Stark, Halton Co., Ont.
country will be doulled. 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 price.
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 <br> Geo. M. James, Middlesex Co., Ont.

1 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


## Hosse where Dr. Drammond Died

The hish building, shown in the extreme background is the house near Cobult, in which Dr. Drummond, the famous Canadian writer of habitant poetry, died. Lines
of pipe similar to those hown in the illustration run of pipe similar to those shown in the roustration run district. They furnish the power with which the mines are operated. The ditch shown is similar to hundreds of ditches that cut up the surface of the noil, nad which have been dug by prospectorn. Notice the rocky nature
of the soil and the freedom from treen. 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 higbways to plant spruce, for their shade, for their looks and for the complete way that they prevent the suow 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 previonsly when 1 had to rely on an indifferent supply of cistern water, drive the cattle a mile or more to the creck, 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 wi out water to borrow money at a very high rate order to install a well rather than to be without abundant water.

## local dipficultibs.

We are so situated in our immediate locality that it is a very difficult matter to get a good well. Several of my neightors had on different oceasions 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 bad 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, hon ever, 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 contrict aiven.
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 Lig 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 rook 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 inch.

## pump by windmilat

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 basemert $=f$ the barn, from which it is distributed to trua, is as 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 winuers in the Dairy Fhrms Competition.

## Summer Feeds for Dairy Cows

D. D. Giray, Farm Foreman, C. E. F., Ottawa. The practice of feeding grain to cows while on pasture has many advpeates; 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 accusiomed to the changed conditions and ttus 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 1 itter 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 produccrop, or suceulent food to suaving 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 ond 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 ty 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 priaciple 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, Huran Co., Ont.

Thirty acres of alfalfa and from six to 10 acres of timothy I grow on my s.nall 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.


Harve $\boldsymbol{b}$ one of the most Valuable Crops that the Farm can Produce
Alfalfa reguires the most careful thading of all hay crops., It mest be cut at the proper stage of maturl-
 by Mr. Herb F. Morris, who gives, in the adjoining article, his field of alfalfa, in Huron Co., Ont., owned for summer feeding, as it can be cut two or three times at least.

I use the tedder on it in the evening so as to turn up what is green to eatch 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 eut 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
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. I 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 kiek 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 romd. It makes a much better job to go around in the direction opposite to the mower.

## Vhen bain 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 contimue to ted it alout every two hours after-
wards until it is dry. wards 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. 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 sccond and thin spor load is spread evenly over the mow. Ahout. Each lon of salt is sprinkled on the mow. About a kalabout 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 1 feel sure 1 could not
have it nearly so pood without 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 <br> 11. L. Hatey, Osford C'o., Ont

Much has been said against the practice of using a young bull, also bulls from heifers. All this to
the contrary, I have yet to siee any bal thent the contrary, I have yet to see any bad results
from breeding to such young sires or 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
1900. Another daughter has a record of 1500. 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 of his 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 brceding. 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 lull. 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 regisure. Get the best and 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 re-
gret.-J. K. Moore \& Son, Peterboro Co., gret.-J. K. Moore \& Son, Peterboro Co., Ont.

## The Feeders' Corner <br> The Feeders' Corne: is for the use of our subscribers, Aay interested are in. vited to ask questions, or send iteas of interest. AI! questions wil recelve interest. AIf questions will recelve

## Ensilage along with Grass

Would it be asking too much of you to answer this question, if
mented along this line.
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 until our ensilage is fed, as our corn is
good. rather than on night pasture? $Q$ good, rather than on nigh
M. B., Stormont Co., Ont.
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 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 in a short time they will begin to eat
it, especially if you seatter 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 the best results from your cows. If vour 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 quantity night and morning for the next two or three weeks. Then, when grass begins to get rather sho
crease the amount of ensilage.
This will ease up on the grass at the critical period and will help keep the cows in full flush of milk, when they might otherwise show a tendency to
fall off, as usually happens in July. The small amount of ensilage that you would feed during the month of June would be just about enough to keep the surface of the ensilage from getting off flavor.-J. H.

## Hogs Thrive on Skim Milk

Experiments conducted at the Ohio
Experiment station mive concrete eviExperiment 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 corn meal to make 100 pounds rit gain, it required only 427.9 pounds
of corn meal and soy bean meal $421 \ldots$ of corn meal and middlings, 300.2 of corn meal and tankage, while the corn meal and skim milk lot re-
quired 289.9 pounds of corn meal and quired 289.9 pounds of cor
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; and skim milk at $\$ 3$ a ton, or 15 cents per hundred pounds. To put it in another way: When corn alone is
used at one cent a pound, 100 pound used at one cent a pound, 100 pounds
$o^{F}$ pork would be $\$ 4.71$. With corn meal and tankage in the propertion of six to one, tankage at $\$ 40 \mathrm{a}$ 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 lie $\$ .06$. With corn meal at the price
mentioned and skim milk at 15 cents nentioned and skim milk at 15 cents a cWt., the cost would be reduced to
$\$ 1.11$ a hundred pounds. 1.11 a hundred pounds.
This is an item of profit

This is an item of profit which many farmers did not consider when they abandoned the creamery for the milkshipping station. With one of the standard makes of separators, the lisnose of his cream at a price almost rittal to that which his whole milk l.rings at the shipping station, but his skim milk. fed to hogs on the farm, gives him another source of considerable income. In addition, he will have
a large quantity of manure worth
many dollars in comparison with the many dollars in comparison with the
prices charged for commercial fertilprices
There is nothing better for you pigs than skim milk, and when used in connection with corn and other grain feeds, it produces excellent pork 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 progressive dairymen will abandon the
milk shipping station and return to milk shipping station and return to
the creamery or making dairy butter the creamery or making
for private trade,-R. L.

## Buttermilk for Pig Feeding

What is the best feed to mix with buttermilk for young shoate (pigs)? Bran, shorts, ground oats or ground barley are avail able. Is buttermilk of much value as
feed for pigs.-J. W., Westwood, Ont. For pigs from six weeks to three 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
A portion of the plant of the Temiscamis sue Mine near Cobalt, in New Ontario, shown. This plant was visited by an with the recent excursion of the connection Press Association excursion of the Oanadian for several miles in the Dossible to travel bee the hills dotted with buildings similar to these. This mine has in shaft 400 feet deep, and is sinking it to a depth of 500
feet.
oats (with the hull sifted out), corn neal, and oil cake meal. Add about one pound of this mixture to a gallon of 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 o four pounds of meal might be mixed to a yallon of the buttermilk, adding water if it were considered too If oil mixture.
If oil cake meal is not readily avail-
able for the mixture for young able for the mixture for young pngs, then gluten meal or feed flour or middlings, micht take the place, although they would not prove quite so satisfactory.

FEED IT WHILE FRESH
Buttermilk is a most valuable feed for young pigs, but care should be aken 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
With mill feeds at present prices,
buttermilk is worth from 15 cents to 60 cents a cwt., according to the man ner in which it is fed. If fed very lib erally it would probably be worth about 15 cents. But if fed in a proportion of from three to five lbs, of buttermilk per pig per diem, along with sufficient other food to keep the big doing well. it might very easily that is 100 lbs . of buttermilk would that is 100 lbs . of buttermilk would
have the same effect as from 50 to

60 cents worth of suitable meal added Grisdale, Agriculturist, $\mathrm{C}, \underset{\mathrm{F}}{\mathrm{t}} \mathrm{F}$, Ot . tawa.

## A Remedy for Grasshoppers

Many farmers have Lecome heartily discouraged in recent years because of severe damage to crops by grasshoppers. 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, kill the grasshoppers. Dr. Hewitt,
Dominion Entomologist, in :is 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 bis 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 Department of Agrioulture. 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 making
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 the infested field, and by means
of a spade, trowel, or wooden paddle, of a spade, trowel, or wooden paddle,
scatter it around the edge of the field scatter it around the edge of the field
which is infested, or likely to be inWhich 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 attack of locusts. By so doing the egg capsules are plowed tunder and the young locusts prevented from emerging in the following year.
Another method which is frequently employed against locusts is that of employed against locusts is that of
using "hopper-dozers." which are long narrow tin trays on wooden frames shaped komething 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 convention 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 memcommunicable through the milk to human beings: Cow pox mike to rabies (possibly), foot-and-mouth disease, trembles, actinomycosis, and last of all and worst of all, tuberculosis. cows. fever also was traceable to Tub
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 of the great sources amongst human beings. Afterwards when thepe were no tuberenlous cows the transmission of tuberculosis wonld cease to be a problem. The sale of milk from cows not known to be free from tuberculosis is a crime against society, and any community that permits the sale is ac cessory to the crime. "What, then," said Dr. Rutherford, "must we say authorize the sale of milk continue to anthorize the sale of milk from cows known not to be free from the disase?"

Renow vour subscription now.

## Gasoline Engine as a General Farm Power

R. Nurse, Peterboro Ca., Ont.

A gasoline engine such as $\mathbf{I}$ have is as safe as any lantern so far as fire is concerned. It is moderste in cost
of fuel. About one gallon a horse power per 10 bix gaion that is power per $q$ quired by my six horsepower I. H. C. gasoline engine.
I run a general carriage repair shop, grind from 12 to 15 grinder: 1 can engine is very easy to anerate 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 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 Is it chore
Is it not rather to produce plenty of
good milk ? To be 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 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 cheaper rate per hundred pounds than the factory pays? Does each cow in your herd produce milk or butier 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 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 183 lbs . of


A Bank Building in New Ontario
The day when banks waited for business to come to them has passed. Now, busy are as aggressive in Beeking new
business as men in other lines of buyl. ness. The illustration shows the handsome building of the Bank of Ottawa, erected at Cochrane, at the junction of the Temiskamingue and Northern Ontario Railway, and the National Transcontin ental Railway. A year and a half ago the town of Cochrane was practicall; un known. It is 480 miles north of 'T. L' and about 140 miles from James Bay. A few years ago we thonght this district
was nothing but a land of rocks and ice.
fat per cow, are now retting 4900 bs, of milk and 186 lbs , fat, since becinning 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 un 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 

A Rotation of Soiling Crops
Could you give rotation of summer soil-
ing erops after peas and oats to be fed green, and name of earlicat corn to be fed before silo corn is ready.-A Ont.
Very few crops come to maturity after peas and oats 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 flavor in the milk; these may te sown as late as the last 10 days
July. Second, sorghum. sown at the 15 to 20 inches apart This in rows 15 to 20 inches apart. This might, be Millet, sown as the middle of July. Millet, sown 40 lbs, an acre; this might be sown as late as the middle of July There are no varieties of corn that will likely do very well, sown after the 1st of July. It is possible, however, that an evergreen iweet 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 threeyear rotation, that is, divide the area destined to the production of soiling 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 five bushels an acre, seeded down with 10 to 12 lbs. elover and five to six lbs, timothy. Cut before the grain shows any tendency to lodge.
Third year-Clover, fed off in late June and August. This will furnish soiling 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?-Mra . W. P., Algoma Diftrict, Ont Mrs. W. P., Algoma Distriot, Ont. It is necessary, if one would have
the fullest 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 have this tested by means of the Babcock tester for fat. With such data available, it is then possible to com-
pute the pounds of fat and pounds of pute the pounds
butter produced.
The method as recommended by the Dominion Government in connection with their cow testing associations, requires less labor, though it of course, is not as thorough as the the milk twice a day, three times per month, on the 10 th, 20 th and 30 th of each month. The weights for the inerem ina dies ane meen retomed from the data obtained in this way.

## Alfalfa Taints the Milk

Would you kindly give through Farm

## $<$

 and Dairy the experience of growers ofatfatfa who paeture it in epring. I have milk cows in ton acre field, half in grass or ; eustomers in Toronto don't like it.A. F., York Co., Ont.

The objectionable flavor complained of by Toronto customers would disappear in a few days and if the retailer in Toronto would take the trouble to mix the milk for a few days with that rom 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 new elover or alfalfa, the thing wears off in a few days.
A good plan to follow where it is impossible to mix the milk with other milk, and so lessen the intensity of the flavor, is to let the cows out gradually
feed well in the morning, let cows on for an hour or so and then cows out the stable. This repeated for a few days or possibly a week, gradually exdays or possibly a week, gradually ex-
tending the time of the cows on the elover or alfalfa, but always being careful to feed liberally with roughage and meal in the morning, will make the change from dry feed to succuI.nt so slowly that no objections will be raised.-J. H. G.

## Long Alfalfa in the Silo

Have any Farm and Dairy renders tried cutting alfalfa and putting it in a silo for
green feed, with chopping it up? Would greed feed, with chopping it up? Would
it be possible to do so? save a lot of work cutting and feeding it in field every day.-A. W. H., 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 preserve the material for five or six inches in from the wall. The centre of
ine the ensilage kept perfectly, but the did did not find it quite so easily handled as when put into the silo through the cut box, that is, it was more difficult to feed and apparently not so accept able to the cattle, J. H. Grisdale. A griculturist, C. E. F., Ottawa.

## Concrete Fence Posts

water combined cement, sand, gravel and Was 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 efby railroads, by farmers in hundreds of ways, either alone ors in hundreds and has been found to produce even ood fence posts. Its moderate cost, its 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 consid eration of all builders.
As a material for fence posts, concrete has been found to possess but 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 wooden posts, but that depends on local conditions - the timber supply the deposits of sand, gravel and rock and the skill of the workman.

## COMPARED WITH WOOD.

If manufactured as usual and cured for three months, concrete posts are
as good as the best wooden posts. Af er 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 few years a few should be broken by unusual strain, it is cheaper to replace them than to replace an entire fence of decayed posts with a material with the same lack of durability,
Concrete posts are attractive in appearance 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 together 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 is sued by the U.S. Department of Agriculture.

## warning.

The pamphlet closes with a warning to persons intending to buy post molds, either steel or wooden, to being of travelling agents who are sell-
ase of their respective molds.
dealings should be had dealings should be had with these asents except when fully satisfied
through reports from one's banker lawyer that the company represented by the agent is reliable and that the
agent is their authorized agent is their authorized representa-
tive. Pationts have been issued on special ypes have been issued on they can not be generally used withrights : but none of thenging patent described in the bulletin is patented or patentable and they are just as good is the special forms advertised and recommended by the agents. No one
need hesitate to use the simple form of construction recommended, for it has been in constant use in all countries for a number of years, and all forced concrete fence posts is conrolled by patent rights are unjusti fied and untrue.

## To Drain Some Bog Land

Wish to drain some bog land and would The land is black mite on the subject with subsoil or marl or on the surface, chokes drain with silt deposits. The bottom of drain is not firm enough to keep tile in line. There are a number of small springs that I wish to drain to one head. Tile costs over 4 cents a foot laid down at

## station.

(1) What would be the bent material to use for such drais from an economical and effective point of view?
(2)) 1. of lumber (2)) 1. of lumber how would you advic constructing box to give plenty of seepage and avoid ohoking with sitt?
(3) What depth had drain bet the land being intended for tarlen laid. Doses? - H. C., Brightwater, is. 0 .

1 and 2.-Tile would probably the most economical, as probably be not last long. The life of balsam would be about seven to ten years, of pine, spruce and hemlock, 15 to 20 years; o tamarac, 25 to 30 years and of cedar 40 to 50 years. Tile last indefinitely, If tar paper about two inches wide is laid over the joints so as to lack about two inches of lapping on the bottom probably be with the sedment wif if care is taken to secure a grade of siy three inches in 100 feet.
To keep the tile in line they may be la you on a narrow strip of board. that you are so far from a tile yard apiece it would probably four cents get moulds and make cement tile, as they can be made for about a cent each, not counting the price of the
moulds. moulds
3.-In muck soils the drains should Le put about four feet doep, as the
muck settles abont one-third as a muck settles about one-third as a
result of drainage and tillage.-W. H result of drainage and tillage.-W. H.
D.

How often we find men on adjoining farms with practically the same work
for their horses, frequently on the for their horses, frequently on the
same feed, and yet one man has his horses 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, Spavin, Curb, Splint, Ringbone, Swollen Joints and Bony Growths won't these troubles and make your lame horse sound with

## Kendall's

Spavin Cure

## just as thousands have done, and are doing today

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 Cure for a number of years with great success, and I 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- $\$ \mathrm{I}-6$ for $\$ 5$. Our book-"A Treatise On The
Horse"-free at your druggists or write us
Dr. 2. J. KENDALL CO., Enesburg Falls, Vi.

## NORTHERN ONTARIO

160 acres of land for the settlers in Northern Ontario. Situated south Railway, Bouth of Winnipentinental Railway, Bouth of Winnipeg, and 800 miles nearer the seaboard. A rich and productive soil, covered with
valuable timber, it is rapidly in valuable timber, it
creasing in value.
For full information as to or sale, homestead regulation for special colonisation rates to set
D. SUTHERLAND

The Director of Colonization PARLIAMENT BUILDINES, TONONTO OR T0
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## CARY FIRE PROOF SAFES

 AND VAULT DOORSALL SIZES
FORD \& FEATHERSTONE HAMILTON, ONT.
W. T. SHERWOOD,

Representative.

## 

## hORTICULTURE

The N and Pests Act, 1910
C. Gordon Hewilt, Dom. Entomologist By the passing of the new DestrucDominion Parliament the San Jose Scale Act is repealed. The new Act and regulations are of a wider characvalue to the fruit-grower and protective man. The fumigation regulations incorporated in the new resulations incorporated in the new regulations
with certain alterations Under the new fumigation regulations conifers this will assist it. It is hoped that this will assist in preventing the in-
troduction into nutseries of species of woolly plant lice which in fest nursery stock and which are car
ried in the same. ried in the same
In addition to the fumigation tegu-
lations provision is made

1. The inspection at the points
destination of European (which is still excmpt nursery stock tion), and such other stock as it may be deemed necessary to inspect. and packages, etc., containing the tor as may be destation for sucs mat3. The inspection of orchards and nurseries and the treatment of infest-
2. The prohibition of the disposal with insects schefuled under infested 5. The notification of the the Act. of any kind of insects, pests or dis-
In view of the increasing amount of nur-ery stock imported through the port of Niagara Falls, the importaextended and stock may now be imported between October 1st and May
The attention of importers of nurherulation s, under which notification nursery stock. This regulation reads stock into Cans importing nussery stock into Canada shall give notice
to the Minister within five despatching the order for the same, Nitrate of Soda NITRATE AGENCIES CO. California $\quad 321$ Stimson Bloek, Los Antelese 1204 Hartord Baidins. Chicaso Wazhington CanadaCuba... $\kappa 2$ Stone Street, New York

Addrew ofice Kearest You willadd to the aypearance of the fence that
city lawn and ischeap enougt, close enongt city lawn and ischeap enough, close enough
and strong enovgh for the farm. The

## Peerless Lawn Fence

into Canada," arrival of the shipment All nursery stock, including Euro pean and such stock as is exempt from fumigation, may be imported only during the periods specified under Regulation 3, as follows:
"Nursery stock, including trees, shrubs, plants, vines, grafts, scions, ctall be or buds, entering Canada and during the periods respectively hereinafter mentioned, that is to say to May lats, Ont.,-from Oetober 1st
"Winnipeg
B.,-from March, and St, John, and from September 26th to December

At these points of entry the importations shall be fumigated in the purpose, and a certificated for that purpose, and a certificate of fumigatock may be issued, without which no portations by mail shall be subject to the same regulations.'

## Treatment of Wounds

The argument in favor of dressing wounds caused by pruning or otherRise on fruit trees is that it prevents decay and checks evaporatnon, both of which might interfere with the healing process. While in our climate the first probably be doubly the second should the matter of dressing wound is so important but that work improper ly done is worse than no treatment. A good lead paint is one of the most satisfactory dressings yet found. and careless dat paint should be used, ing bark should wax is a good dressing, but is rather expensive and difficult to apply. Other materials have been used, some sue cessfully and some disastrously, and
the grower is to be cautioned about experimenting ; better stick to about rials known to be safe and efficientGrowers often overdo the matter and waste time treating small wounds Surely a wound less than one and onehalf inches in diameter is not worth bothering with.
made by the cars apply to wounds well as those made by the prumer, as sightly wounds and the pruner. Unmay often be avoided by proper treat ment of trunk wounds, When the Lody 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 grafting wax If promptly done, this prevents dry will readily form, except on parts where the outer wood cells are acgrow over. Wrapping the injury will Erow over. Wrapping the injury with
cloth, or if it is near coth, or if it is near the ground,
mounding earth up over it answer the same purpose. Prof. 0 , B. Whipple, Colorado purpose,-Prof. O. B. Whipple, Colorado Experiment Sta-
tion. tion.

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.

## As handsome as the best iron fence at less than the cost of cheap wood

 mml $\rightarrow$. mm and gater. Write for particulars. CO., LTD., OEPT. H, Hamiltom, OmI., Wumpes, Mas.

The Proper Fertilizers
fertilizer is required for what kind of ties of vegetables. My soil is a light sand cow for three yeara I have been puting wow manure on it, as much as I could work in, so that perhaps enough with that fertilizer. But I do no or bonemeal, and so forth, and or ashes. cannot get the best resplits. Kindy me the list of vegetables for adly give family garden and the kind of nutriment each requires,-C, E. G., Middlesex Co Ont.
In many cases it is quite impossible to tell what a soil is deficient in with out experimenting, that is, applying sults ain fertilizers and noting $t$ suits obtained. All vegetables require trogen, phosphoric acid and potash. A fourth may be added, namely, lime, but this constituent is, namely, lime, ent in ordinary soil is generally prestity, although soil in sufficient quanknown in which some instances are known in which lime has been proven ing, the effect. Where lime is lacking, 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 cabbages aulifowers, celery, tomatoes, Leets, mons, carrots and potatoes, fertilizers pounds per the following rates (in sults:

## Cabbage, cauliflower, celery. Ni

 rogen, in the form of nitrate of -Ni $200-100$; phosphoric acid in of soda of superphosphate $400-600$; potash in the form of muriate of potash, 150Beets and carrots :- Nitrate of soda 140 ; superphosphate, 400; muriate of potash, 140.

Tomatoes :-Nitrate of soda, 120 superphosphate, 400 ; muriate of pot-
ash, 320 . Onions
perphosphate, Nof 100 ; sinperphosphate, 500 ; muriate of potash

Potatoes :superphosphate, 400 of soda, 100 ash, 200 You will sulphate of potcase of potatoes, the sulphate in the 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 indic soil in order to get the hest results it must be romembered that no hard guantities rule can be given as to the quantities of fertilizers to apply, as actors over which a great number of no control. Under ordinary conditions fertilisors should be applied some time befor of soda As in the case of nitrate ble, and. As this fertilizer is very soluout of the soil before liable to be washed to make use of before the crop is able the application it, the larger part of the plants are should be made after tilizers should are singled out. The fertilizers should be sown broadcast either by hand or by a fertilizer distributor, and wherever possible harrowed in lightly. A further comment would add here is that careful servation of the tests on his own garden will enable the producer to follorsuch a system of fertilizing follow give him the most satisfactory results. cultural College, Gamble, Ontario Agri-

## Orchard and Garden in June

Control of moisture in orchard soils, box packing of apples, growing and marketine strawberries, ice storage, ino growing, grape growing, plantwindlreaks, and fruit in Flanting are subjects of live interest England the June issue of The Canadian In ticulturist, published at Peterbure Ont. Amateur flower growers will
find much interesting information the articles on ornamental grasses, gladiolus culture, begonias, asters and ferns. The lawn and garden
hints for June contain many practical and timely suggestions. An article dealing at some length on "Insects injurious to Vegetables," will be of interest to vegetable growers.
Some of the
ssue are Prof. F. T Shut in this Central Experimental F Shutt, M.A., J. A Ruddick, Dairy and Cotawa age Commissioner ick Cameron Superina; Roder Parks, Toronto; L. Caesar Ont of Agricultural College, Guelph, Antaric Gibson, Central Experimental Farm Ottawa; J. A. Webster, Sparta Ont i. McPherson Ross, 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 10 the above address.

To have strawberries in the best condition for keeping and for marketmg , they must be picked and not pulled. At least one-half an inch of the stem should be picked with each very small berries poor, mis-shapen and The lest police is to market only sale able fruit.-J. P. Dodds, Peterboro
 the continuous overlapping and interlocking bot-
tom lock which are found tom loek which
only in the new

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thing of beauty and of ever." Catalog "B-3" of foy for
plete details of them plete detalls of thls newest and THI Ningle. The Galt Art Metal Co., Ltd. Sales and Galt. Ont.


Agents wanted in some localities

##  POULTRY YARD

How to Feed Broiler Chicks fovert Smith, Lambton Co, Ont When raising broiler chicks it is generally customary to feed the chicks neaviiy from the time they are two
weeks old. Where the pullets are to weeks old. Where the pullets are to
be kept for layers, chis is not to be rucommended. We always leed the batch in the usual manner till we can seleet 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 littlo nale before July. Where they are sold to hotels they may be bring high prices this summer, fowl is very scaroe.
If the cockerels are to be fed heavily, it is imperative that they have in the way of housing ale to give them them 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 low roosts and encourage the ehicks healthy for them to huddle up in one 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 provious mights. Where the youngsters are allowed to sit night after night on their droppings, which are frequently wet, they will invariably contract roup or some other disease.
feED them often.
The cockerels being selected and placed in a pen and having been previously fed plenty of wholesome feed, should be in vigorous health and ready to stand plenty of forcing. There are two systems of fattening. We al ways prefer the wet ration, or mash
riky as we can thus feed more of chicks several times a day from the time they are hatched, as they will always do better on the same quantity fed every two hours than when twice the amount is fed four times a day. follows: Corn meal, finely ground, three parts; shorts, one part; bran, one part-by weight. To this we add Where ground flaxseed or oil cake. 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. Dampon the mash with skim milk ; do not

Elm Grove Poultry Farm
Offers for sale 20 one year old Barred
Rock hens at $\$ 1.00$ each: also 15 Rose Comb Rock hens at 81.00 each: also 15 Rose Comb
Brown Leghorns, 81.00 ; and a number of one year old Rouen dueks, cheap.
d. H. RUTHERTORD, Box 62, Galedon E., Ont. Telephone, Bolton

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

WANTEDson to sell subscriptions to Farm sand Dairy, Peterboro, Ont. Good oash aom Dairy, Peterboro, Ont. Good oash oomWrite Oirculation Manager, Farm and Dalry, Peterboro, Ont., for sample copiet for your patrons. Samples sent free on application.
EG68 from pure bred Buff Orpingtons, one dilar per fifteen. Imperial Pekin Dueks, ten cente each.-Miss M. Gerrie, Ingersoll, Ont

EGOS GIVEN AWAY in return for new gubsoriptions. A setting of eggs of any standard
variety of fowl, given away variety of fowl, given away
for two new subsoriptions to for two new subsoriptions to
Farm and Dairy. Send to OirFarm and Dairy. Bend to Oir-
culation Manager, Farm and colation Manager
Ialiry. Peterboro.

## have the mash more than

enough to adhere together
As soon as the chicks will leave the roost, feed them a liberal feed of wheat tailings in a litter. At $9 \mathrm{a} . \mathrm{m}$ 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, rala che., are good when cut with a meat chopper. At $11 \mathrm{a} . \mathrm{m}$. feed the mash. At 1 p. m. Loiled riee is fed; this
keeps the chicks free from bowel trouble and indigestion, and cheap gratio of rice can often be procured from
stores. At three we feed mash stores. At three we feed mash again At five mash or cracked corn is given
(There is considerable waste in some cases if the corn is ground too finely. We are careful to see that the chicks always have plenty of fresh water be-
fore them, as well as grit and aranufore them, as well as grit and grann-
lated charcoal. We feed in shallow tins or troughs. We are always cery careful not to overfeed; overfeedim is a very frequent cause of failure
We leave the pans till the chicks seen atisfied and pans till the them. Th mash should never be dished up the second time. One soon learns hol much is required at a feed.

First Experience with Incubator
Mrs. Newton, Labelle, Co., Que. Lought an incubator this spring and set 142 Barred Plymouth Rock eggs For fear she would not be able to rim tho machine and wanting to mak 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 time the chicks were three weeks old, she had lost only three,
none of which died of disease. Mrs none of which died of disease. Mrs. Newton is quite emphatic in saying that any person of ordinary intelligence can run an incubator if they
are willing to follow the instruetions of the manufacturer,-F, C. E.

## Egg Laying Ducks

Many farms near the large Eastern 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' egns and of richer quality, than hens' eggs.
The Indian Runners, often called the The Indian Runners, often called the Leghorns of the duck family, are seemmgey the favorites for this purpose, as
they have laid as many as 200 and more eggs in as 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 that some localities and people are
averse to having duck on the table averse to having duck on the table
prior to the time that "the frost is prior to the time that "the frost is
on the pumpkin" and in such case of on the pumpkin" and in such case of
course it may be of advantage to allow the old birds fullest liberty at onehalf 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 liberally, so that their greatest weight may be attained when 21 weeks old. This is the time of their first moult and greatest profit. In Incalities where fresh brower's grains can be had daily, a ration consisting of oneof third of it and mixed with two-thirds is a good one: Cornmeal, middlings and bran, to which 10 per cent. of beef scrap and 25 per cent, of greens beef scrap and 25 per cent, of
chopped fine, is added.-R. L.

## Chicks Have Disease

My young chicks this spring have some
disease. I think it in diarrhoea. What disease. I think it is diarrhoea. What
would you advise doing for them? would you advise doing for them?
D., Victoria Co., Ont. D. 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 often shown by the presence of diarrhoea, milk or boiled rice. If this does not have the desired effect, try muriatic acid in the drinking water, one spoonail to the quart. Ask at the drug

## Anxious about Young Turkeys

 bofled eggs: bread and milk is given when hey get a little larger. I have great (rouble with them when feathering out.Many of them die abont this time. What Many of them die about this time. What ould you advise doing for themP-Mrs MeC., Huntingdon, P. Q.
This spring has been very hard on young turkeys. The feed you are giving them is all right, and as you ing it is difficult to say what is the matter. When feathering out, turfood; young turkeys any wholesome turkeys are always del tion.-F, C. E.

## Poultry Pointers

If you have been breeding "any liable breeder, hatch and from a re$o$ raise some good poultry and raise
some pure bred poultry, They will der ate and and loot wether lution to have better poultry.
Exercise during the winter months is very necessary to both cocks and hens, if we wish fertile eggs for batching.
Clover not only promotes digestion but also largely nssists in supplying the elements necessary for egg production.
Take a foot square of grass sod and place it in one corner of the Lrooder pen and note now much is left of the roots and bow the little chicks enjoy
it daily it daily.
On a well cultivated field chickens can be raised for just half what they Pronld cost to raise on a grass plotGuelph, Ont.
You need not be afraid, but just let the chicks and fowls of all ages and sizes have all the wheat lian 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 his way.

I am sending $\$ 1$ to renew my subcription to Farm and Dairy, which paper every farmer should have. It I have told my neighbors about Farm and Dairy, and I hope they all will take it soon, because it would be a great help to them.-J. W. Pinkey, great help to th
Kings Co., N. S.


## AND THIS IS WHY

The Dain Vertical Lift feature is controlled mechani-cally-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 apes all obstructions. In raising the cutter bar to an upright position, for transporiation, 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. The draft ot the Dain Vertical Lift Mower io reduced to the smallest possble resistance because the wright of the cutting spparatus is carried on the wheels by means of the Dain adjustable coil spring. This lerge. trong coil spring heepp the cutter bar down to its worb, and the cutting polver in largoly inereased. Gonditions being equal, the Doin Vertical Lift
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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 breed-
associations. Such tests have
value. For that reason we beho in 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 thero is a posisibity of some breed ers 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. Fo such an extent is this the case that it is only natural for breeders, in order to satisfy the popular demand, to
breed for breed for performance alone and
thereby overlook the other important
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 therely be propagating a weakness in the breed.
Constitution and fecundity should cattle. Neither of these characteristiry necessarily accompany the ability to produce a large amount of milk in a short space of time. Far-sceing 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 vogue only for a short time, the unit unless care is that may accompany much in evidence. Pr, are not yet record cows, ever. Progeny of high faulty constitution, are much be of mand. It is a well ke much in de-
manstion such cows, when their constitutions have been impaired, drop strong livtion of cows but rarely. The proporformers that are dams of great per formers is not as large of great per Many of the highest producers have not dropped a normal number of healthy calves. At the same time it
shouid be rememl shouid be remembered that performcases do go together, and in most points should be kept. Both these breeding operatio kept in view in 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, The situation is
Thal deterioration
The situation is much like that value of pedigreed stoek first the apparent. For some years unjustifiably high prices were paid for almost pedigree. When, however, it had a known that there were scrubs ecame 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 ly concluding producing stock must for high milk reason be perfect in every other respect. Fortunately the large records have have been made in Canada so far have been made by animals, almost able constitutions. possessing remark-

## CO-OPERATIVE EGG HANDLING

The farmers in the districts immed shown themselves very Peterboro have the possibilities of very much alive to ness. The movement, set on foot twiWeeks ago by Farm and Dairy, looking fresh resh egg circles, has met with a ready response. In each of the five distriets selected in which to try out the scheme the work of have been formed, and farmers interested, it is anticipated, will be soon an accomplished fact.
The cooperative marketing of eggs is no new thing. The Danes have made
a success of it for years. It has been
tried and has proved successful in
parts of Canada and in States. The time has come vhen farmers of this country no more will Le content to allow from three to alve commissions on their produce before it reaches the consumer.
The principle on which these cooperative 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 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 ples of method of measuring samples of cream for the Baboock test. Professor C. H. Eckles, of the Uni-
versity of Missouri, versity of Missouri, whose letter ap-
peared in Farm and Dairy last week peared in Farm and Dairy last week,
states that the farmers of states that the farmers of Missouri
would not Le satisfied with a test made by a pipette and that they are entireThe law in sevifing this position, The law in several of the states, indairy states, requires that samples, for creairy states, requires that samples of than measured for testing.
It is gratifying to learn that our creamerymen in Canada are coming to reoognize that the scates afford the only just means of taking samples of
cream for testing. Mr. Mack Robert cream for testing. Mr. Mack RobertNon, Creamery Instructor for the reports that almost 50 per cent. of the 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 taker.

## DESTRUCTIVE INSECTS AND PESTS ACT

The new Destructive Insects and Pests Act, and the regulations embodied thereunder by the Dominioa Parliament, are of very great importance terests of Canadang 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 possitle destructive insects, pests and diseases that should be guarded against by law.
The Act applies to the following inJose Seale (Aspidiotus : The San Jose Scale (Aspidiotus perniciosus) the Brown-tail Moth (Euproctis chrysorrhoea), the Woolly Aphis (Schizoneura lanigera), the West Indian Peach Scale (Aulacaspis pentagona), the Gypsy Moth (Porthetria dispar), Potato Canker (Chrysophlyctis endobiotica), parasitic diseases affecting potatoes externally or internally, Brawch or Stem Canker (Nectria ditissima),
Gooseberry Mildew Gooseberry Mildew (Sphaerotheca (Pors-uvae), White Pine Blister Rust In view of 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 cheek. Anyone interested in horticultur should send to Dr. Hewitt, Dominion Entomologist, for a copy of this new Aet 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 lage 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 prollem 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 Oanada ly 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, whioh filled the coffins of the under-
Much censure is rightly coming to
many milk producers. We often lose sight of the fact, at least we fail to realize, that milk is an article of food and one that is most readity contaminated. Failure to exercise the greatest 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 utnost to live up to the responsibility that is ours when we
engage in the business of engage in the business of milk pro-
duction. duction.

## Instruction in Drainage

The drainage den.onstrations given by experts sent out by the Ontario
Arricultural College are esting and instructive. A most intertion was recently held on the farm
 Mr. Hopkins of the O.A.C., who was
in charge of the plained the advantages of drainage in carrying off surplases water and preserving moisture in the soil for the advantage of crops during the dry
season. He also gave instances of 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
an they produce a great mass of pletely fout stocks, which almost comit is utterly useless this condition quack grass useless to try to kill ed, by any practicabs can be obtainby attacking practicable means, only its root stalk the grass at a time when face. The secret at or near the surmaking the secret of success lies in making the attack on the grass when tere with no deep root stocks to conrend with.

## sutamle rotation

The rotation advised for
land is as follows. Cor for quacky peas and foltows: Corn followed by peas and oats, for grain or hay, folcrass growing in or clover with quack clover browing in it, the timothy and It is advised left down for two years. used in pred that the disc harrow be used in preparing the seed bed instead of plowing for the oats and peas in order to avoid plowing down the root stocks of the quack grass. The following summer the timothy clover should be cut early the first time so as to ensure that no quack uns seed develops. The fourth summer, the timothy and clover field is to be pastured and if the stock close, the field it eaten down pretty as not to allow the be clipped so as not to allow the quack grass to
make much growth. ed, an early growth. If hay is needed, an early crop of hay may be cut the second year. About the middle of


Farmers Learn the Principles of Scientific Drainage at First Hand
the work of the surveyors sent out by the Dept. of Phymics of important feature of cultural College. The abore itluatration, the Dept. of Phymica of the Ontario Agri ham Co., Ont., shows the interest which these demonstrations. Pollard of Dur-
underdrainag
tion, he showed how the proper direction for the drains was ascer direcalso the depth and fall for the tile
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 These demonstrations are a bulletin. These demonstrations are being held in various parts over Ontario, and

## How to Kill Quack Grass

Unless one understands how to deal with quack grass, the fight against the pest is practically hopeless. Durof the past two years, Mr. J. S. Cates, U. S. Department d. Washington, has studied the habits of quack grass and from this study has particular rotation effectiveness of The principle in in practical use. The prineiple involved is as follows : The quack grass is a pest because of its underground stems, which are capable of throwing up a new plant from each joint. Ordinarily, when the land is not disturbed, and especially when the grass is kept cropped pretty closely, these underground stems stay very near the surface; but when the ground is plowed five or six inches deep, as it ordinarily is for spring ctops, the underground for spring turned to the bottom of the furrow slite, and during the succeeding sum-

Tuly or first of August, plow the fourth year field as shallow as possible, two or three inches, in order to turn up
all the root stocks all the root stocks.
The early treatment of the field be very that all the root stocks will ing rery near the surface. The plow. new bing done at a time when the for the seasocks have not yet formed ing turned up at old root stocks be allowed to grow this time and not before the following more, will die necessary that the land should be harrowed frequently after the plowing so as not to allow any growth of quack on it before the cold weather. The land will then be in good shape for corn the following year
Making a Great Spread.-The mamire spreader spreads fertility over barren fields; it eventually spreads the crop yield into larger proportions ; otherreads ease and comfort over an fortlecs disagreeable, hard and cominto larger , it spreads granaries account over and the farmer's bank larger fiwures more pages and into the mind of the spreads happiness in man ; and it farmer and his hired larger vield spreads assurance of soul of every till better profits in the anter ofery tiller of the soil who has interprise enough to spread himself into the possession of a manure does.

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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 minced 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 heav
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## FARM AND DAIRY PETERBORO, ONT.

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## - Creamery Department

## Hutter makers are invited to send con- <br> tributions to this deparument.to ank cuen



Centralization Recommended The centralization of creameries in mended by Hon. IV scrongly recomminded by Hon. W. R. Motherwell, dairy convention held in a a recent Under the present held in Saskatoon. ment pays shipping system the Governshipped from any point in Saskatchepro to the nearest creamery in the Province. The shipment of cream to arge central creameries is more profitable to the farmer than were they to istablish numerous smaller local oream The
The advantages of centralization of creameries were shown by a reference Of the creamery business of Manitobayr the 30 creameries in Mantota lasi was turned out at the crenmerimade Winnipeg and Brandon creameries at ince of Alberta there and In the ProvHese four of these mane are 25 creamertes; four of these manutacure nearly half of the entire creamery output. Centraiization greatly reduces the cosi or manufacture.
The idea of centralization as recommended by Mr. Motherwell was endorsed by Mr. W. C. Paynter, president of the Tantallan creamery, one of the finest in Saskatchewan. He approved of some system of Government supervision in the placing of creameries and recommended that before the Govermment should undertake to grant mancial assistance to any proposed
creamery, the company shoul quired to show that a good share of its stock has already been good share of Other speakers at the conventio were J. Burton, Churelibridge: Prof. W. J. Rutherford, Regina ; Mr. Zufelt, the new inspector of creameries for Saskatchewan; H. C. Lisle, M.L.A. Superintendent of Dairying. Wilson Superintendent of Dairying.

## Why Cream Tests Vary

much dissatisfaction tests has caused of cream the same cows, the cream is from the same ration and milked by the same man, and when the same separator is used, the farmer naturally thinks the per cent of fat in the cream should remain the same.
Errors are often made in making but variations constanily the sample, are due to other causes. The most common causes of causes. The most pointed out in a cireular, No. 37, by Arof. C. H. Eckles, of the Missouri Agricultural Experiment Station, Columbia, Mo., are as follows :

1. Variations in the speed of the
separator. separator.
2. Varia
3. Variation in temperature of
milk separated. ${ }_{3}$ milk separated. machine.
4. Amount of water or skim milk used in flushing out the bowl. milk separated. the richness of the 6. Adjustme

Tange in the speed of cream screw is the most common canse of separator The greater the speed of the variation. The greater the speed of the separator, the smaller the amount of cream and the higher the per cent. of fat. Agein, the temperature of the milk seprated varies on the farm from day when the milk is separated per cent. When the milk is separated at 90 de-
grees, it may test grees, it may test as high as 40 per
cent. when separated at 70 den Under average conted at 70 degrees. 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

## into the machine. If less than the regular quantity flows into the bowl,

 the tendency is to increase the per The richness of cream. The richness of the milk separated affects the richness but not the quanmilk depends on richness of a cow's not be changed permantance and can not be changed permanently by feed. Small variations are likely to occur Prof the other canses suggested by Professor Eckles. By the use of an ordinary Babcook testing machine and by measuring the sample of cream into the test bottle with the same pipette as is used for measuring milk, any farmer can make a test of his any that will satisfy him as to the aceuracy of the test he receives from the eroam buyer.Wash the Separator Each Time People must needs stretch their when they what is right and proper separator after each and every time it has been used for separating milk. Because the parts are concealed and so do not show from the outside their have of being cleaned, some people washing separaters and this mater of responsible for much of the poor gual. ity cream delivered to the creameries of this country. this country
Anyone who
Anyone who has ever washed a separator knows how badly it is in need of such attention after each and ev. ery time it has been used for separatIng milk. Any filth that the milk contains is by the centrifugal force generated in the machine thrown from the milk, and this all remains in the ma chine until washed or is scraped out by hand. Running water through by the pailful has very little effect. The solid matter will remain in spite of

## This

This solid matter contains myriads their work Lacteria which commence ature is rimbtediately if the temperthise is right, and it is sure to be at put season of the year, and they soon put the separator in a condition where it is practically impossible to clean it properly with a single washing. We have altogether too much of Washing separators only once a day, that we frequently. It is high time sponsibility when caring for the cream separator.
Aside from our duty in this particular, there is always a possible chance
 HE Butter Worker made for Practical Butter Makers-that's the National! The National Butter Worker, built entirely of hard wood, is unquestionably the most practical butter worker sold in Canada to-day, and is in use in the leading dairies of the Dominion. Every dairyman and farmer who makes butter owes it to himself to know more a"out the superiority of this practical device-it's a matter of dollars and cents on the profit side of his books, to own a National.

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Characteristics of Angora Goats I would like to get the opinion of Farm
and Dairy and of its readers on the fol. lowing subject. The Angora goat appears to be very popular in many parts of the
States. Here in Canada, we never hear of them. It is claimed that they prefer browe rather than grass for feed. If so they will be very useful here and wherever
there is waste land or rough land cover with serubby brushes. I have a piece of natural pasture land partly eleared. It is too rough and stoney to plow. Scrub and berry bushes have erowded out the grass, so that where a few years ago it
used to pesture eight cows, now there is not encugh grass for that many sheep.Kinmeunt, Ont
Angora goats are browsers, whereas sheep are grazers. Angoras will pass carrot, burdock 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 kind of bushes and weeds they prefer tif grass and will thrive best on them
Hence an important usefulness of the Hence an important usefulness of the Angora goats is in subjugating such slashes as exist in Haliburton.
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 aro extremely hardy, multiply rapidly and require little care and cost almost nothing to keep. Their
meat is excellent food-it is hardly distinguishable from lamb. Their skin furnishes a leather valuable for certain purposes, such as the binding of books. The pelts of these animals are coming into extensive use for excellently adapted, the fleece being so beautiful in its natural state and taking dyes readily
Angora goats in the United States in thoo produced about $\$ 1$, (an 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, it is in long, creamy-white ringlets,
wheh 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 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 same mang the same time and of mohair weighs from $31-3$ to 4 1-2 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.
Being a very hardy and self-reliant animat and a browser, Angoras are especially adapted to rough districts which are of no value whatever to any other industry. They are comparatively fice from disease. A sheep
fence will hold them. They crawl fence will hold them. They crawl
through a fence rather than over it. There is no reason whatever why Angora goats should not become common on 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,Editor.]

## Not Enthusiaatic About Angoras

The following letter, from Mr. Eara 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 820.00, I ean sell you the beat automatic lift drop head Bewing Machine. For particulars apply to W. B. ROBERTS,
enarta, Ont.
bo noted by anyone who is thinking adopting this class of live stock: "Re Angora goats, I do not know What good I can say about them, only they are very handsome. I had a flock
of 25 and they cost me about $\$ 40$ each, of 25 and the
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; per haps they are just what you want, but my opinion is that they are no earthpoor and a man stands a pretty has to look after them."

## Co-operative Egg Circles Formed

 (Continued from page 3)be able to watch the candling of the eggs when they so desire. When Ggys are rejected they will be taken Lack to the members of the circles to what is $y$ belong, who wiil be shown for the egros 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 egys and will make all ar rangements with the buyers. At first it is proposed that the eggs shall be graded in Peterboro by the represen Lative of Giunns, Limited, under the supervision of the officers of the cen-
tral committec. It is expected that tral committee. It is expected that ultimately the number of eggs handled will be sufficient to warrant the farmarg engaging a man of their own to grade the eggs before sale.
buties and hegulation
The following rules and regulations concerning the management of the cir-
cles which have been adopted and which have been signed by all the members of the different circles, ar only temporary in character and will be amended and improved as circunstances warrant.

1. That our organization be called the Central Smith Circle No. 1, ete. 2. That our officers consiat of a chairman or president, a secretary treasurer and a board of three direct. ors.
2. 
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. (b) To attend to any business that
may arise in connection with the working of the system.
(e) 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 circles 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 Leeome a member (upon payment of fees) who is in cerested 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 reg-
ulations as set forth, or as may be ulations as set forth, or as may be
set forth by the executive from time to time.
7. Rules and regulations pertaining to eggs.
(a) Only eggs gathered from reguar nests may be delivered.
(b) Eggs must be delivered at least whice a week except in winter months, once a week
(c) Eggs from found nests must not be delivered.
(d) Real small eggs or
aggs shall not be delivered.
(e) Rough shelled or ill shaped egge shall not be delivered
(f) Stale eggs shail not be delivered
(g) Only artificial eggs may Le used
(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 (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 cofore 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 and regulations.
(1) Kggs as gathered must be kept at an even temperature as near to 60 degrees as possible and be kept free from draft and dampness.
elivered and paid for will any way delivered and paid for will upon return of same to the producer be ac-
counted for if possible and the loss made good to the buyer
8. That we as members will do all in our power to make this a success from a producer's standpoint.
profitable discussions
The discussion of the foregoing rules that took place at each point drew out an immense fund of valuable information atout the care of eggs and pouliry that proved most interesting and instructive. Several old farmers stated that they had never learned so much short eggs and poultry in such formation will be given in later issue; of Farm and Dairy.
Some of the officers elected were Central Smith, J. A. MeGregor, pres. E. Moore, sec.-treas. Pine GroveCorth Monaghan-T, Little, sec,-treas. Witbur Bennett, sec--treas. Stewarts?
-8. Matchett, pres. ; M. Stewart, see. treas. Zion-Jno. Elliott, pres. GOOD men supporting it.
The best indication that the movement is going to prove a success lie in the fact that in each district it in being supported by prominent farmars. Several of these farmers have had experience in municipal matters. All of them have taken hold of the project thoughtfully and with a full realization of what it means. They now, as do all the farmers and their vives who already have joined the cirles, that oppesition is likely to bo enc, ften seem anxious to prevent former niting for their mutual benefit in mattors of this They have in nifed their his fied their intention of standing to ether in this movement and of not permitting themselves to be misled by false reports or by efforts that may be made to induce them to sell thei products individually outside of their ircles. A warehouse has been rented in Peterboro. It is expected that the collection and marketing of the eggs on the new Lasis will be started within the next two weeks.
An ev dence of the importance that is attached to this movement was furaished last week when the editors, or heir representatives, from The Farmars' Advocate, The Weekly Sum, Th Canadian Farm and the Ottawa Citi Can, visited Peterboro to find what was being done and manifested their interest by addressing one of the meetings. The readers of Farm and Dairy will be kept fully posted in regard to the movement as it progresses.

## THE HELP THE FARMER LONGS FOR



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It will out AlL the grame whatever ite oondition or the condition of the topped and started in the heavieept olay, The puil is drat It can be tom be
 all equipped with Roller Bearings or Removable Bushings. The Foot LIFT is convenient, easily operated, and is balanced by a lift spring.

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is flexible. Will cut close at any angle. Is made of heavy steel sufdiciently atrong to prevent eagring, and if supplied with steel wear surfoce for the knife bar.
The pitman is log and direet and easy stroke and is well
orotectod buying amagorer be eure and see the agent and find out what
Bood proposition can be offered by
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PETERBOROUGH, ONT.

FARM AND DAIRY


ØCIIISDOM is knowing what to do next. Skill is
ding it.
no one to do it but Mr. Johnson and
himself, When the sweethimself. When the sweet-faced nurse
arrived to take charge arrived to take charge of the sickroom, Gabriel slipped quietly from his post by the bed, and a few minutes later was making hs way up the busy
street through the jostling crow crutch clicking bo josting crowd, his pavement, Mr. Johnson against the heels. He was quite sure he would
know the concert know the concert hall, for his father
had once poin the way to it proved out to him; but It was a raw, unseasost confusing. October, and Gabriel found day in work battling against the wind. His arm , too, ached painfully from the twice be lost his of his crutch, and daunted courage he struggled bravely on, while Mr. Johnson trotted bravely on ahead. At last, by a happy steadily on ahead. At last, by a happy chance,
they turned into the very were seeking, and the nexreet they Gabriel was timidly pushing open the Theavy baize door of the concert hall. There was no one to be seen in the
spacious lobby

## Mr. Johnson, Advance Agent

By Mabel Loder Stearn lown lobby, so he sank wearily ing body relaxing to wait, his achthe leather cushions. Presently gentleman came slowly down the stairs He did not notice Gabriel the stairs. ed a doorway at Gameriel, Lut enterthem. The child sighed withee from pointment. He had so sighed with disapcome their way. ho so hoped he would tiently resigned himself to wait a little longer.

Not so the indefatigable Mr. John-
son. In his opinion it was plainly


## The Good-Night Kiss

Wothers, so weary, discouraged,
Worn out with the cares of the day, 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;
Send the children to bed with you,
kiss!
The dear little feet wander often
Perhaps from the pathway of right chief chief
But think of the morning till night; Who'd give the wosld for mothers
And, as thanks for your for your bliss, ings,
Send the children to bed with a kiss.
For some day their noise will not vex you,
The silence will hurt you far more;
For a swe for their childish voices, door,
And to press a child's face to your bosom
You'd give all the world for just For the co
the comfort 'twill bring you in
sorrow. 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. Gabriel was alarmed. What coussed he be up to? He would go and see. ment, for in he paused in astonishbolt upright the midde of the floor, Johnson: his on his hind legs, sat Mr. folded his front paws appealingly world his wistful eyes raised with a world of entreaty in their patient before to aindy-faced man who sat berore a large desk. The gentleman vas smiling broadly. His first intimation of the little fellow's presence had been when, chancing to glance up from his work he discovered him sitting there; all the bursting overflowing love of his loyal heart shining in his eyes, appealing straight to the brosd
passionate humanity of the man
His little frien
eyond his ken,-and so, help, help aekno his ken,-and so, in pathetic acknowledgment of his own limitafor aid. he had come to this stranger or aid.
Catching sight of Gabriel in the
年way, he ran joyfully toward him
Is this your dog, my little man?:
nquired the gentleman pleasantly.
"This is Mr. Johnson, sir," said Gnbriel gently, with unconscious correction.
The child Theman repressed a smile refer to his little most unscrupulous to way, stoutly maintaining thas in this a dog only in appearg that he was named him for appearance. He had who had given him friendly old man invested himen him to him and had ateributes. with all his endearing
"I think
ir, where trying to ask you sir, where we can find Mr. Ludwig, oxplained Gabriel politely. "He is the gentleman who is to give the concert So int
Mr. Johnsosted had the man been in Mr. Johnson that he had not at onee his the child's crutch. Now, as most of flance fell upon it, a shadow al nost of pain saddened his face. He had once had a crippled child of his
"Co
said kindly and sit down, Loy," he What can I do for youp," Mr, Ludwig.
"I am so glad yoce brightened.
naively, "I am so very tired" he said come to tell you very tired. We have siek, and cannot sing that dad is very to-night $\mathrm{H}_{\mathrm{e}}$ is sing at your concert disappointed, because sorry and-and things for him to have this meant great "Aings for him to have this chance." Mr Ludwi Mr. Newton's son?" asked ${ }_{\text {Mr }}$ "Yes, Ludig gravely.
"I am sorry to hame is Gabriel." illness. I was afrail of your father's Did it mean so afraid of it last night, this concerts so much to him to sing nt is if yon would like me about it-that quick tive nature So nature.
of his with insight as unerring as that clear blute friend, Gabriel raised his and was eyes to Mr. Ludwig's face pathetic ears the simg into his symhopes and struggles ale story of their note of selfishness in it fory with no helpless boyhood in it for his own longing to lighten in some way the burden.
Just then a big, worried-looking "I'm in lak entered the studio. My sopra ${ }^{\prime}$, lessly bad and has gone hopeand bad, and I've moved heaven his earth to get some one to take his place. I can't give that congreThey'veny old thing. It won't goThey've been used to the best, go. worked like have anything else. P've worked like a dog to make it a success, and now the whole thing is ruined is out you can help me out. A fellow country, wuch with things in the own h, Lut I hoped that, being in something, you could put me next to "I wish I could,"
regretfully, "but, answered Ludwig, vices are not much in fact is, , boys
"But you surely know my line.
hello! Who have you of some oneheno! Who have you got therep"-
catching sight of Gabriel,- "a pupil? "A little", boy?
A little," admitted Gabriel modest${ }^{\prime}{ }^{\prime \prime}$
You can? Let's hear you," and rushing impetuously to the piano Durland picked up a handful of music "What lying about.
On to can you sing, child p"
On top of the pile lay the song his "I ather was to have sung that night.
pointing sing that one," he said, pointing to it.
axalaimed Durland incredone of the That? Why, boy, that is is." of the most difficult things there
(To be concluded next week)

## REFRIGERATORS AND ICE BOXES

More and more is the using of ice boxes or refrigeraturs becoming essential in our rural homes. Many farni 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.
conbrbueting an tob box.
In constructing a refrigerato ice Lox, it is well to remember that it is wisest and best not to fill the walls with sawdust, or any other filling. Sawdust only acts as a conductor and will become damp and wet, thus rotting the walls of the dead air spaces between the walls. These dead air spaces are the best non-conductors of heat and cold, known to science. You can do this by science. You can do this by
using tongue and grooved using tongue and grooved sheeting with a ply of heavy paper. The spaces need only to be a half inch apart,
space is a consideration. space is a consideration,
In no case should galva In no case should galvanized iron or zine be used as
a lining to a refrigerator, a lining to a refrigerator,
although we realize that this is a common practice. They cannot be kept absolutely 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 lininges. No one would care to drink milk from a galvanined can, or use butter which had been kept in a galvanized Lox. Spruce in a galvanized Lox. Spruce
wood is Nature's lining for a wood is Nature's lining for a refrigerator. It is also a noncause condensation when excause condensetion when ex-
posed to the outside warm posed to the outside warm
air. It is generally supposed that a wood lining cannot be kept dry and that it will become destroyed in time. This is a false impression. It is possible to so construct a refrigerator as to keep it perfectly dry. There are refrigerators on the market which are lined with spruce and which have been in use for 25 and are perfeetly sound to-day. Such a condition could not be possible, if there was any dampness, regarding ice boxes constructed in this way
Such a refrigerator is manufactured by The Eurcka Refrigerator Company of Toronto. When a Eureka refrigerator is properly filled with ice, wet matches can be placed in the ocoling chamber over night, or from ten to
twelve hours, and the matches will tweve hours, and the matches will
be found perfectly dry upon removing, and can be ignited any where in the cooling chamber of refrigerator. core of repriobrators.
One thing we can not lay too much
stress on in regard to refrigerators and that is cleanliness. They should be always kept clean. Another thing: Do not stint the iee supply. A wellfilled ice box will give very much The ice supfly in in overy respect to become exhausted. If, however, for any reason the ice does run out, the contents of the refrigerator should be removed at once and doors opened. Otherwise, contents will soon Lecome
tainted and spoiled as the circulation tainted and spoiled as the circulation principles of a refrigerator will serve to bring about this condition quicker than some other receptacle where these circulation principles do not exist.
Before introducing food, air well the Before introducing food, air well the
interior by opening the doors and lid, 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 provision and ice chambers regularly
cleanse ice rack week Remove and pipe and trap are clear.
To purify the interior of a refrigerator that has become odorous from neglect, or other local cause, the following mediums may be suggested: Rub the walls with a damp cloth, moistened with warm soda water, or with water in which two tablespoonsful of sweet nitre to the pint has been put. Place in the storage chamber a saucer of charcoal, renewing chamber a saucer of charcoal
or sunning it occasionally.
dont's.

## D <br> Don't put in hot, steammg,



As up-to-date Refrigerator Showing System of Circulation The flues are so arranged that warm air pansea from the provision chamber to the bighest point over the fice, flows over the whole mass of ice where it is oooled and freed from mostare, then and fown naturally rack where it is further cooled provision charmber, whith it rapidiy tulls, forcing
the warm air up the flues on the the warm air up the flues on the sides to make
another current.
ripe food or fruits. Don't cover the shelves with paper or cloth and obstruct the circulation, which has equally as much to do with preservative results as a low temperature.
Don't leave the doors open or ajar, While carrying articles to or from the refrigerator, or while chipping off ice
for domestic purposes. Better keep for domestic purposes. Better keep a small Lox for that purpose, and not
rob the refrigerator, charging it all to ice consumption, and letting in the warm air.
Don't starve the refrigerator. If its ice capacity is 75 or 100 lbs., don't expect it to run perfectly with 10 or 15 lbs., supplied irregularly. Don't put it in a cellar, laundry or other damp place, or on a porch exposed to sleet and atmospheric changes. It is made of kiln-dried lumber, and not guaranteed unless properly used.
Don't cover the ice with cloth, news 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 beantifully," 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 printers' ink" and decaying paper, and the waste water outlet to become

## blocked.

Don't ignore these common-sense rules, and complain because the refrigerator smells musty, the drip pipe or trap becones choked up, and water overflows into provision room, or doors swell and joints open because the dry (not green) stock has alsorbed moisof these The user can avoid the cause cannot.

## Recipes for publioation are requested, Inquires regarding cooking, recipes,

 Peterboro, Ont.
Oit, Farm and Dairy,

## 

## OANNED RHUBARB.

It is an easy matter to can rhubarb Pare fresh, tender rhubarb and cut in one-inch piéces. Pack closely in a jar and fill up full to ove:flowing with cold water. Allow the water to settle, then pour in more fresh water and make sure there are no air bubble left in the jar. if the jars are sealed
closely, same as for ordinary canning, closely, same as for ordinary canning,
rhubarb canned in this way will keep a year. Rhubarb can also be boiled with sugar, and canned.
hHUbARB pie.
Skin and cut stalks of fresh, tender rhubart in half-inch pieces, then measure out $11 / \mathrm{cups}$. Mix scant 1 cup sugar with 2 teasp. flour and 1 beaten egg. Stir the cut rhubarb into this and bake the mixture between two crusts.
bhebarb sauce
Peel and cut fresh, tender rhubarb into one-inch pieces, Put in saucepan with a very ittle 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.
Rhubart can also be baked in an Rhubart can also be baked in an
earthen pudding dish. If baked slowly for a long time, it will have a rich, red color.
strawherrigs preserved whole. Simmer mashed strawberries about 20 minutes, adding no sugar. Then a pt. of sugar. Heat the sugar and 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 over whole hulled berries, which
should Le in readiness in heated glasses. When cold cover with brandied 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 strawberry jam or fresh berries, crushed and sweetened, and serve with a meringue or whipped cream.
btba wherry preserves.
Allow 1 lb . sugar for each lb. fruit, and place together over a slow fire with no water. Be careful not to mash the berries when stirring, and
when skimming is required set the vessel on back of the stove, so that the sec on back of the stove, so that the
scum may rise to the surface. When scum may rise to the surface. When
the sugar is dissolved Loil fast for 30 minutes. Then remove the fruit and place in jars. Boil syrup 5 minutes longer, pour over the berries in the jars and seal.
stenmed bhown brgad.
To 2 eups sour milk add 1 cup corn meal, $1 / 2$ cup white flour, 1 cup rolled oats, $1 / 3$ cup molasses, 1 heaping teasp. soda, and a little salt. Steam 3 or 4 hours.
holled oats prop oakgs.
Soak 1 cup rolled oats in 1 scant cup hot milk. While this is soaking $\operatorname{mix}$ up 1 cup sugar, $1 / 2$ oup butter, 2 oggs, 1 cup seeded raisins, 1 teasp. Turn and 2 teasp. cream of tartar. Turn on the rolled oats and add flour onough to make quite a stiff batter Drop by spoonfuls in a well-greased baking pan and bake in a quick oven.
Rolled oats oustard pudding.
Soak 1 cup rolled oats in 3 cups hot milk for 2 hours. Add to this 2 wellbeaten eggs, a little salt, $1 / 2$ cup sugar, and flavor with nutmeg. Bake about 20 minutes.
attmbal mush with bliobd applize.
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 much appreciate the privilege of seeuring a fine lithograph picture $12 \times 18$ 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 subscription to Farm and Dairy. PicV. and Queen Mary, will also be sent for one new subscription at $\$ 1$. State clearly which pietures are desired.

## Develop the Social Side

There is no question whatever that the domestic ,ife on the farm could be made more interesting than it is at the present time. There is too muct farm drudgery unrelieved by the brighter side of social life. The unvarying round of monotony tends towards mental depression. The beautiful side of country life is not cultivated in the manner that it should be.-Dr. E. Ryan, Frontenac Co., Ont.

*     *         * 

Musin Folios, your choice of a large selection, free, in return for a new subseription

## $\left(\begin{array}{c}\text { Buying A Piano } \\ \text { Made Easy }\end{array}\right.$ 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 plano of your choice by easy payments.

## New ScaleWilliams PIANOS

## 10

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

> Write us for detalls of these two selling plansand our beautifully tllustrated catalogues of New Scale Williams Planos and Player Planos.

TRE WILIAMS PIANO CE. Helted osaawn, owr.

## manct emess

Whatpeg, Man, $\mathrm{man}_{\text {a }}$ Fortage, Ave .


## Plumbing with Power Force <br> 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, eto., 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 by means of a smaller pneumatio tank
located in the bascment. While located in the basement. While this
system may look somewhat system may look somewhat complicated, it is in reality very simple. Being positively automatic it requires no atwindmill. The than the oiling of the a hydraulic cylinder which provided with the operation of the mill by controls and fall of the pressure in the rise Water tank. The water lift is so con-
structed that when soft water tank equals the press in the hard water tank, the pressure stop working and will not start again until water has been drawn off and the pressure reduced, This will be found a very c
tory outfit for

homes, or for
farmers $w$ for
farmers who
have a stock
or dairy farm
and wish to
advantages of
modern plumbing in their homes.
system can be pperated desirable, the pumping engine or gasoline engine.

## How the Competition Helped

The winner of first place in District 1, in the recent dairy farms' competifell to Muted by Farm and Dairy Moose Creek, Onts. Victor Begg, of success of Mr, and Mrs. Begg has al success of Mr. and Mrs. Begg has al-
ready been made in Farm and Dairy, but we are pleased to publis an interesting letter from Mrs Begg, describing her home, and some
"We methods used in her household.
house," writes Mrs Begg, "after our house," writes Mrs. Begg, "after en-
tering the competition,-except paint the kitchen inside and except paint front of the house and fence in the I was the house.
I was very sorry when our flowers Were not in bloom when the judges
were around beautiful all around were something had dahlias around the lawn. We ers. We have numerous other flowtrees all along the road and around the house and garden. We always

## Woman's Kitchen Friend

 This kitehen rack should be in evergwoman's home. You cannot afford to do woman's home. You cannot afford to de the articles shown are without it.

veniences. Handles are black, and well You can that regulation size and length. wo new subseribers to Farm and Dairy at 81 each. Get the boys and girls to Work securing two of your neighbors to subscribe. It will surprise you how eas. Tly this can be done. Addrees Oifroulation Manager, Farm and Dairy, Peterboro, Ont.



Mr. Begg put some hundreds of dol lars on the stablos and larns recently vanized tined all the outside with gal appearance as well as comfort. He very fond a nice hen house. I an very fond of hens. Last winier I
wintered al out sixtv and after keeping the house in all the eggs we ing the house in all the eggs we
wanted, I sold about $\$ 70$ worth, heWanted, I sold about $\$ 70$ worth, he-
sides selling a lot of hens and chickens
Our main house is veneered with brick. The kitchen is clap boarded
and last yeur was painted and last year was painted white.
Our wood shed and kitchen shingled with Oshawa steel shingles. The Upward Look

## 

## A Simple Test

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 yet! how searching. Into what unexpected groups it divides us. Whether or not we are Christians is deMethodists or Catholics, PresbyterMethodists or Catholics, Presbyterians, or Mohammedans. Not by whe-
ther we are rich or poor. Not by the ther we are rich or poor. Not by the
clothes we wear, or the houses we clothes we wear, or the houses we
live in, be they palaces or shacks. live in, be they palaces or shacks.
We may go to church regularly, say long prayers ostentatiously, give large sums of money for charitable purposes, and yet fail to pass this test. (8t. Luke, 21, 1-4; I. Corinthians. $13: 3$, rev. version), ( St . Luke 18,9-14) Christ knew that in our ignorance we would be apt to apply earthly teste to spiritual matters, and to prevent us from making grievous mistakes He warned us to be careful about the conclusions we reached. "Not everyone," he sad, "who saith unto me, Lord ! Lord ! shall enter into the Kingdom of Heaven; but he that doeth the will of my Father, which is
in Heaven." (St. Matt. 7.21), and in Heaven." (St. Matt. 7:21), and
the Father's will is that we shall love 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 can find God is by adopting some special creed or form of belief. That was not what Christ said. In fact. was not what Christ said. In fact. said: Beware of false prophets. which come to you in sheep's clothing, but inwardly they are ravening ing, but inwardly they are ravening
wolves. (St. Matt. 715) And then wolves.' (St. Matt. 7.15). And then
He told us how we can tell the true He told us how we an tell the true
from the false prophets: by their lives; 'Ye shall know them by their fruite.'
And so it is with us. Unless we 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 whet
Christ's disciples.
Be not deceived." The words which all of us shall one day hear sound not of theology, but of life not of churches and saints, but the hungry and the poor, not of creeds and doctrines, but of shelter and clothing, not of bibles and prayerbooks, but of cups of cold water given in the name of Christ."
the presence of humanity that we shall be charged. And the spectacle itself, the mere sight of it, will siient. ly judge each one of us. Those will bs there whom we lave met and helped; or there the unpitied multitude, whom we neglected or despised. tude, whom we neglected or despised.
No other witness need be summoned. No other witness need be summoned.
No other charge than lovelessness No other charge than lovelessness shall be preferred against us.
"Beloved, let us, therefore, love one 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.


GUIMPE 6628.
This aimpie little suimpe that is tuck.
to form ite own soke to form ita own yoke
is alwaya a pretty is alwaya a pretty
one for the younger obildren. This one is made with moder ately full sleeves
into bands and ean be made either to the wrists or to the elbows as liked. It ean be finished With a collar or in Duteh style.
Miterial
for medium required for medium size (4
yrs. is
$1 \% / \mathrm{yds} 21$ or
 wide, with 1 yd . of banding and \%yd of edging.
6 The pattern is cut for girls of 2,4 , and BOY's BLOUSE 649.

boya $\underset{\text { prefer }}{\text { preat }}$ the blouse to the outing shirt for general wear. It is comfort. able and beooming $\underset{\text { and ate. it }}{\text { angether de- }}$ Birable. If in abso-
lutely
simple plain, genuinely mas. plain, genuinely mas.
culine in effect and is finished with the patoh pooket that
is both useful and smart. Material required
for medium size (14 years), is $3 \%$ yds. 24 or $~ 77,-2 \%$ yds 36 in . wide.
The
16 yra pattern is out for boys of 12, 14 and CHILD'S DRESS 6625 .


Dresses with shap-
ed yokee below which ed yokee below which
they are full and soft are alwayn at. tractive for little ones. This dreas can gathered. The eor ing applied below the tucks and threaded with ribbon gives a pretty Empire ef. feet, but is not necee: sary.
Mat
for medium required 3 yds. 24 or $27,2 \mathrm{yds}$. 32 , or $1 \% / \mathrm{yds} 44$ is wide, with $2 \% / 2 \mathrm{yds}$, of edging 3 in . 44 in . 51/ yds. of insertion and $11 / \mathrm{yds}$. of beading. will be malled for 10 eta 2 and 4 yra , and will be mailed for 10 eta.
french chemise 6952.

beading.
Materia
3/ yds. $36,2^{2}$, of insertion, $1 \% / \mathrm{yds}$. of narrow, 12 yds yds. wide beading, 3 yds. of edging, 4 yds, of The pary for frill, to trim as illustrated. medium thern is cut in three sizes, small. medium
10 ots.

## Hooks and Eyes

Sew the eves on the left front of waist, the desired distance front of with the loops out far enough to make hooking easy, then laste the right ront carefully over the left, lapping as much as may be desired, turn waist wrong aide out, put a hook in every eye, and sew them in position.


SPRINGHILL AYRSHIRES. Parm and Dairy representative lately
paid a visit to the farm of Messra. Robert
Hanter paid a visit to the farm of Messra. Robert
Hunter si Sons, Maxville, Ont. Ayrahire
men will be men will be glad to learn that the semior
member of the firm is much improved in member of the firm is much improved in
health. No Ayrshire breeder is held in
bit heath. No Ayrshire breeder is held in Mr. Robert Hunter. OVer 90 head of Ayr-
shires were in the shires were in the stable, all were looking
in splendid form. Lessnessock Drward in splendid form. Lessnessock Durward
Lily, the stoek bull is developing into a heavy animal. His youngsters carry the
good quality and growth of the sire, which good quality and growth of the sire, which
indicates his prepotency

## arest prepotency

cows are imported and are from the choio ets strains in seotland. This firm has made yearly importations from Scotland,
with one exception, since 1900 porters of the beet and as sueceseful ex-
hibitors at hibitors at the leading Cannectian exhi-
bitions the Messrs bitions the Messrs, Hunter have a wide and enviable reputation, consequently
they have a wide market to which to they have a wide market to which to cater.
Frequent sales are made to breeders in Frequent sales are made to breeders in
Conada, the United States and Japan The following sales have been lately made;
A. H. Bagendorf, Spencer, Masa, six head: A. H. Sagendorf, Spencer, Mass., six head;
among these-were the noted cows, Castleamong these-were the noted cows, Castle-
maing Violet. Barboig Big Nancy, Ardyne Rosebud. Queen Bee 2ndignd two yearlings.
Alex. R. Peacock. Pitebur, Alex. R. Peacook, Pittsburg, Pa., three
head, Lessessock Vulcan. (The Toronto Junior Champion, Notherthatt Mirlie Sth
and Lesanemsock Hopewell Rose ry W. Pardie. Boston. Mass., five head of youngsters. Josiph Thompson, Sardis,
B. C., three head: Wh J. Walker. Wincheo ter, Ont., two head. in which was ineluded the reserve junior champion fomale, at
Seattle last fall: J. P. Graves, Spokane Seattle last fall: J. P. Graves, Spokane,
Warh., three head. J. H. Black, Genoa, Que, two head.
from the new importation orders to fll from the new importation lately removed
from quarantine and of which notes were published in a former wissue. That the
Mesers. Hunter Messens. Hunter $\&$ Sons have That the
to improve the much herds of Canada cannot be gainsaid and we trust they will reap to thainsaid, and ward of their labors.-W. $\boldsymbol{F} .8$.

## RECORD OF AYRSHIRE COWS AND HEIFERS FOR 190.,

 mature class.Annie Lantie 2nd, 15589 - E. Cohoon,
Harrietsville, Ont., 15134 lbe. milk; 598.4 lbs , fat.
Primrose of Tanglewyld, $-15945-, W o o d ~$

FIRE, LIGHTNING, RUST AND STORM PROOF


Write for Booklet
The Metallic Roofing Co. TORONTO \& WINNIPEG lbs. fa
Deisy
dissee Bros., Rothsay, Ont., 1355 Ibs . milk.
529 lbe. fat. Mariea, -15136 , Hon. Wm. Owens, Mon-
tebello, Que., 11428 its. milk, tebello, Que., 11428 lbs. milk; 418.37 Mos.
fat. fat.
Marjorie, $-16535-$, Central Experimental
Farm, Ottawa, 1073s lbs. millki 461.26 Iba Parm, Ottawa, 10785 lbs milk; 461.26 lbs
fat. Bertie of Springhill, -8736-, Robert
Hunter \& Sons, Maxville, Ont., 10182 Ihs. Hunter $\begin{aligned} & \text { \& Sons, Maxville, Ont., } 10182 \text { Ihs. } \\ & \text { milk: } 561.02 \text { Ibs. fat. }\end{aligned}$ Scotland Princess.
ner. Rycknan's Corners, Ont., 10, 10182 Tur,
milk: Nellie Gray of Hiekory Hill, -15332-, N. Dyment, Olappison's Corners, Ont., 9 ,
981 Ths. milk: 981 lhs. milk; ${ }^{402.88}$ Mbis. fat 9943 lbs. milk: 328.19 ibs. fat.
Barton Princess, $9273-$.
Barton Princess, $\rightarrow 923-, ~ A . ~ 8 . ~ T u r n e r, ~$ $3 y \mathrm{ckman}$ 's Corners, Ont., 9380 lbs , milk:
385 lbs fat. Little Queen
Son, sardis, B
C., 9397
fal lbs, milk; 575.44 lhs Son, sardis, B C., 9397 lbs. milk; 575.44 lbs .
fate
White Heather, -17998 8t. Thomas, Ont., 9501 lbs. milk; 368.50 Ibs Nellie's Jewel, -16671-, James Begg, Bt.
Thomas, Ont., 9093 lhs. milles 994.64 . Thomas, Ont., 9093 lbs. milk: 394.64 lbe. Neidpath Rose 3rd, $-10126-$ W. W. Bal. antyne, Stratford, Ont., 9037
576.40 lbs. milk Dairymald
Dairymaid, $-13847-$ II. C. Hamill, Bos
Grove, Ont., 8629 lhe, mill. Grove, Ont., 8629 lbe. mills; 378.12 lbs fat.
Buraside Brown Gus. A. Langelier, Cap Rouge, Que., 9057
Iss. mill. 5 2ndi ibs. mille; 3535,94 lbs. fan Rouge, Que
FOUR YEAR OLD
Molly. -27600 . E. Cohoon. Harrietsville, Ont. 11268 has. milli, 372.42 lbs , fat
Bonnie Dos Bonnie Doon, $-19457-$, Wooddiessee Bros.,
Rothsay, Ont
 Lassie of Highlands, $21491-$. F. .h. Har
ris. Mount Elgin, Ont, 9309 lbs, milk; 410.54
Ibs, fat Ethel
Thomas Belle, -21349-, James Bege, St Thomas, Ont.. 9258 lsh . milk; 385.66 lbs . fat Snowflake of Hickory Hill, -32481-, N milk: 362.41 the fat Olio of the Willows,
Howiek, Que., 8614 lbs. milk: 33066 . Brown, Lady, Menie, $-18727-$ milk: 330.66 ths. fat Son, Menie, Ont., 8006 libe. milks; 297.80 lbs.
fat.
taree year old class
Canadian Princess, $-20100-$ A ner, Rvekman's Corners, Ont., $113 \mathrm{~m} / \mathrm{lbs}$.
milik, 52191 Ihs shannon lis. fat.
H Trannon Bank Prances 2nd, - 23520 , Wedar Grove, Ont., 9133 Ihe, milk H Tran, Cedar Grove, Ont., 9133 lbs . milk
360.32 lbe fat. Julia, -25590 -
say. Ont., 8562 Ibs. Wooddivee milks 377.3 lbe, fath A Co., Menie. Valley, -20330-, Alex. Hume fat. Star's Annie Laurie, -21543-, E. Cohoon
Harrietaville, Ont Harrietsville, Ont., 8230 lbs . milk; 330.87 Its. fat.
Dairy
Hueen of springhill, $-23743, \mathrm{R}$ Hunter \& Sons, Maxville, Ont., 8023 lbs.
milk: 331.85 lbe, fat.
 Greenshields, Danville, Ont., 8184 Ibs . milk
316.16 tbe , fat. 316.16 tbe.
Beauty H. Tran, Cedar Grove, Ont., 7677 Ibs. milk
354 47 Ihs, 350.47 1bs. Fedat. Grove, Ont., 767 lbs. milk:
Daisy, $23582-$, Wooddissee Bros., Roth.
 say, Ont., 7591 lbe, milk; 527.665 the, tot Miss Orlia, -20098-, Ous. A. Langelier,
Cap Rouge One. Cap Rouge que.
TWO YEAR OLD CLASs Jemima of Springbank,
Turner 27689-, A. 8 Turner, Ryokman's Corners, Ont., 8839 lbs.
milk, 395.33 lbs, fat. milk, 3 Bespis ths. fat.
Ballantyne, Stratford. Ont 21466 , W. W. Ballantyne, Stratford. Ont., 7625 lbs . milk:
350.70 lhs. fat. Sybella, of springbank, $-27691-$ A. 8 .
Turner, Ryckman's Corners, 0 . milk: 30224 the this Corners, Ont., inat lbs. Madeline B., ${ }^{-23601-\text {, James Begg, St. }}$ Thomas, Ont, 7135 Ibs. milk: 292.96 lbs , fat,
Ardyne Carntyne, -27349 , Ardyne Carntyne, -27349 , R. Hunter í
Sons, Maxville, Ont., 7019 lbs. milk: 31204 Dasy of Westland, -21799 -, Ous. A. Lan-
gelier. Cap Rouge gelier, Cap Rouge, Que., 6950 bs. milk: Madge. -2700 Madge, -2700 . Wooddissee Bros, Roth-
say, Ont., 6663 This. milk. 300.06 . say, Ont., 6663 lhs. milk; 301.0 Blos lis. fat.
Princess, -25381 - Wooddisues
 Rothsay, Ont., 678 lbs milk; 292.04 lbs . fat.
Isleigh Mis Sandy, -23827 , Gus. A. Langeller, Cap Rouge, Que., 6744 The. milk 288.75 lbs fat .

Hunter brain White Rose, $-26548-\mathrm{R}$.
 Nildpath Rose 10th. -21459 - W. W, Rallantyne. Stratford, Ont., 6442 lbs milks,
295.99 lbs fat.

Bessie 18th of Neidpath, -24459-, W. W.
Ballantyne, Stratford. Ont Ballantyne, Stratford. Ont, 6461 lbs. millk, W.
259.5 Ibs, fat Hot Seotol
Harris, Mt. Elgin, Ons, $23704-$ Frank H Marris, Mt. Elgin, Ont., 6066 lbs . milk, 258.61
lbs. fat. scotia Vapperton, Ont, 5880 , W. W. Bowley Cat. Lany 4th 5880 lbe. milk, 244.98 lbs . Grove, Ont., 5782 1bs, W. H. Tran, Cedar To May 1st, 1910, 89 cows and heifers have 32 mature the test.
32 mated
mater
52 mature cows averaged 10851 lbs mIIk
nd 401.80 lbs . fat. 8 four los. fat.
and 365.80 lbs , fat. averaged 9570 lbs . milk 18 three-year-old
and 346.5 ths . fat. 37 two-year-olds
and 297.65 lbe of fat
Canadian F. ATEPRHEN, Secretary,


MILK FROM PHYsi
POINT
Holstein-Friealan breedern are mended for the aggressive advertising com paign, which they have conducted in re cent years, and are still conducting, to show the qualities of the Holetein breed of cattle and of Holstein milk. The quall tieular, are well set forth in milk in parletter which was read in the following Herrick, at the banquet of Mr. J. E. E. K. ian Breeders Association, in Toronto lasi
Milk is
ther one product contains of man. No elements of nutrition so admiralyential bined. Recent analysis show that com contains a much higher value in food un its than was formerly thought. In fact
some authorities elaim some authorities claim one quart of good milk contains as many food units as one Now of beef.
Now, if all this in true of rood mith in
general, how much more bred Holstain much more true is it of pure the points of superionity oum up briefly we find: This milk is of Holstein milk, ceptionally large, healing, produced by ex: eile. even-tempered mothers, whose, doders are veritable mprings, whose udBreeders call this vitality in of vilality. sicians eall it the anti-scorbutic prineiple that is, the principle opposed to scuryy other forms of mal-nutrition. Is this
theory? No! Experience, times wint theory? No! Experience, times withoul
number, has proven to that these conditions to my satisfaction speedily vanish when Holstein malnutrition speedily vanish when Holstein milk it
used.

FAT IN RIGHT PROPORTION
the right proportion for humen fat in finely divided and emulsified state. Th a are facts proven by the mieroscope and the difficulty with which the cream in separated. Again. practical experience proves the value of this feature in infant and adult feeding.
milk is admirably proportion of Holstein such a consistency that when brought in contact with the digestive elements is arst converted into a light flocoulent lated which is then digested and assimi digestive the least posaible tax on the stein milk sistency, froe from infant in of normal con ditional evidence of perfect sour odor, ad tion and assimilation. Fine Holstein mills
rood. To strong, healthy the idenl infant ous constitutions it may be necessary modify it, to reduce the percentarg to fat and casein, and increase the carbohy drates. Any intelligent physician can work out a natisfactory formula. For aduit feeding. again I repeat Holstein of yours "whideal food. Get that friend - yours who cannot drink milk becanse milk, and he will by it to try Holsteln MILK V8. MEAT
Milk is superior to meat. On general and scientilio principles meat is a poor lood unita, as the proteid mittrogenous in what we call the ""end product." That is the elemental mubstances have that worked up into their moet highly evolu
tionired forms, and naturally the next step elemental forms, fromelution back into ths successively elaborated by plant were cow and steer, It in not denied that grain, furnishes energy, but it never that meat never will furnish the basis of a rational untritional diet. We, as a nation of meat eaters, live, not because of, but in spite Is it going too far to claim that the sturdiness and hardiness of the people largely great dairying countries are not and milk products? Whese use of milk thrift, sobriety, industry ean gaineay the bellence of the Dutch and general ex Swedish, Norwegian, Scottish and Naniah, England peoples? Among them immoral ty. vice and pauperism, are at a minimational They have model munieipal mind national governments. They are produe ers and consumers of milk! in the Holatein breed you have dairymen, boon from Nolstein breed you have a pricelesp
bature. It is your privilege duty and obligation to give humanity the, duty and obligation to give humanity the
benefit of this gift. Labor in season and bent of season. Get the cooperation of in.
out telligent physicians. It is not exaggeration to may that infant mortality could be reduced 50 per cent. if all infants were fed
intelligently on sanitary purs bred Hol intellirently on sanitary pure bred Hol-
stein milk 80 per cent. of infant have a nutritional 'sasis. Faithfully sons for more and better Holsteins. (Sgd.),
E. C. White, M.D., Springfield, III,

OFFICIAL RECORDS FOR MARCH, 1910. Helbon Jontinued from May 5) Helbon Jess Posch (12919) at 2 years, 11
months and 1 day of pge, 9.56 lbs. butter
fat, equivalent to it 95 phn fat, equivalent to i1.95 Ibs. butter: 8324
Ibs, milk. Owned by $\mathbf{W m}$. Blaght, Bealton,
Ont. Olive Mercena Posch (8905) at 2 years, 6
months and 21 days of age, 9.24 the, butter
fat fit, equivalent to 11.55 age, 9.24 lbe. butter
milk. Owned by Elias Snter; 271.1 lbs. milk. Owned by Elias Snyder, Burgess-
ville, Ont. Lady Posch Faforit (9383) at a years, and
days of age, 9.69 ths 2 days of age, 9.69 lhs. butter fat, equi-
valent to 10.86 lhs, butter: 284.8 hbs, milk.
Owned by Elise Sinder, Owned by Elias Snyder, Burgessville, Ont
Roas Kent Meehthile Roas Kent Meohthilder, Burgessville, Ont
months of age, 8.56 ithe, butter fat equivi, 9 ent to 12.70 lbs. butter. 2689 libs, milk.
Owned by William SIloght, Bealton, Omt
Wedo Princess (11899) it, Wedo Princess ( 11899 ) at 11 year 10 months
 ville, Ont. Welcome Pride (11898) at ${ }^{2}$ years,
months and 18 days of age, 807 lbs . butter
fat fat, equivalent to 10.09 lis . butter: 3190 lis. milk, Owned by L. H. Lipsit, Strat Yeaks, 9 months and Paul 3rd (9008) at 2 lbs, butter fat, equivalent to 10.08 age, $1 \mathrm{bu}, 00$
ter: 3265 has. mills. Owned by D. C. Flatt Test made after eight months after caiv.
ing-Jenny Bonerges Ormahy years, 9 months and 19 days of agg, it it 2
ibs. fat, equivalent to 14.39 ibs. butter.
li4. 62 lbs mill. Owned 274.62 lbs mill. Owned by D. D. C. Flatter,
Son, Millgrove, Ont.
\&. W, erpmow, HOLSTEIN.FRIESIAN OFFICIAL RE.
CORDS FOR APRII May Eeho (3372) at 9 yrs., ${ }^{3}$ months, 11
days of age, 20.40 lbs. butter ent to 25.50 . bs, butter; 663.7 , bequival. milk.
Owned by F. Mallory, Frankford, On. Homestead Meria DeKol Prankford, Ont.
7 months, 27 days of age
at
at
yrs Tat, equivaient to 20.69 ibe, butter; 436.3
lbs, milk. Owned by M. L. Haley, Nellie Mantel (5741) at 5 yrs , 10 monthe 16 days of age, 16.47 lbs . butter fat, equiy, Owned by R, Connell. Roebuck, Ont, milk.
Fourten dibl Fourteen day record, Nellie Mantel (5741 at 5 yrs., 10 months, 16 days of age. 31.62
Ibs., butter fat. equivalent to 35.55 the
butter. 1185.7 ibs. milk. Owned Connell, Roebuek, milk. Owned by R
Bearie 18 , Bespie of Villa, Nova (6080) at 5 yrs,
month, 17 days of age, 15.75 ths, bueter equivalent to 19.69 Ibs, butter; butter fat,
mili.2. Ibs, Owned by A. G, Golding mil W, Ont bed by A. G. Golding. Downs.
 fot, equivalent to 19.12 ibs. butter; 509.4
its. milk. its. mikk.
28 days of ame reoord at $5 y$ yre., 11 months, alent to 76.97 ibs. butter; 2073.6 lbs. milk
Owned by 7 ibler Owned by Thomas Hartley, Downsvilew. Ont.
Laidy 10 months, 23 of the Valley (3069) at 9 yrs.
 Thirty-day mecord mill 353.5 23 days of age, 60.74 ths. butter fat, equival.

Ruby DeKol (3889) at 8 yrs., 5 months
of age, 14.75 lbs, butter fat, f age, 14.75 lbs . butter fat, equivalent to (Continued on page 28)

## 8 <br> MARKET REVIEW AND FORECAST <br> -9\%-**

Toronto, Monday, June 6.-It is the gen-
eral feeling that the elass of immigrants 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 thanked. The meakures adopted, however, are not altogether to the liking of the
English authorities, and it is said protesta have been made to the Federal Govern The in regard to the matter.
bringing into the form the states is bringing into the Northwest a splendid
class of setters:
over 50,000 have entered the country, within the last two months. The enormous development oceasioned by this influx ralis for mones and the banke are Eoing to have their hands full in meeting the demands creat ed by the wonderful expansion. Farmers, in sertain sections, are still finding trou
ble in getting help, and are turning to ble in getting help, and are turning to
improved machinery to offset the deficien, improved machinery to offset the deficier,
cy in human help. Call money in Toront. cy in human hel
$5 \%$ to 6 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
present state of the crop, and the pedge of vast reserves being carried in ledge of vast reserves boing earried in
Europe, having helped to pave the way Europe havigg helped to pave the Way
for their onelaught on the balls. On Ori. day, July wheat closed at Chicago at
$93 \% / \mathrm{s}$, eptember, at $90 \%$, and December, at $8 \% / / \mathrm{c}$ a bushel. There was a spasmodic upward tendency on receipt of cold weath-
er news from the Northwest er news from the Northwest and pessi-
mistic reports of the state of the crop in mistic reports of the state of the orop in
France. Looal dealers quote, No. 1. North-
 mixed winter wheat, 94 c to 95 e outside.
On the farmers' market fall wheat is sellOn the farmers market fall wheat is sell-
ing at 96 c a bushel, and goose wheat at ing at 960 a bushel

## COARSE GRAINS

There has been very little change in re. gard to the prices of coarse grains the past week. Trade is sluggish. American corn is quoted by local dealers at 660 to 67 e a bushel: Canadian corn, 6 lo a bushel, Toron $\begin{array}{ll}t 0 \\ t 0 & 35 \mathrm{e} \\ \text { a } \\ \text { a }\end{array}$ to 35 e a bushel: Ontario white, 32 e to 34 c ,
outaide: 360 a bushel on track , Toronto. outaide: 360 a bushel on track, Toronto.
Peas, 700 to 71 c ; barley, Sto to 62 . rye 67 c
 farmers' market, the following prices rnle, oats, 390: peas, $70 \mathrm{c} ;$ barley, 47e; rye, 54 e ;
buckwheat, 54 c , bushel buckwheat, 54 c a bushel.
In Montreal, the market is easy with
prices ranging an followa: Canadian west prices ranging an follows: Canadian west-
ern oats, 34 c to $35 \%$ : Ontario white oata, ern oats, 34 c to $35 \%$, Ontario white oats,
$321 / \mathrm{se}$ to $34 / \mathrm{se}$ a bushel: American corn, 64 c to $65 \mathrm{c} ;$, peas, 80 c ; barley, 54 c to 56 o ; rye, 70 e ; buckwheat, 54 e a bushel

> HAY AND STRAW

The hay erop this season gives every eastern portion of this province. Reports from varions scarces bear out this be-
lief. Clover, eapecially, seems to be in Hief. Olover, eapecially, seems to be in
aplendid condition. aplendid condition.
Quotatioas by dealers are the same as
those given last week, namely fot those given last week, namely, first class timothy, 813.50 to 814 a ton; inferior qual. good deat of hay is being sold on the farm. ers' market, some of it fetehing as high as 822 a ton. Loose strar is selling at 88
a ton, and straw in bundlea, 814 to 815 a Ion. Montreal, No. 1 timothy is quoted by dealera at 815 to 815.50 ; elover mixed, 811.50 to 812 :
ton on track

## the wool market

The local quotations for wool are as
follows: Washed fleeces, 200 to washed, $121 / 10$ to 14 c : rejecte, 16 o a Ib . washed and $18 \%$ to 13 c a 1 b . for unwash ed fleeces.

s18 a dealers are quoting Manitoba bran Toronto, and Ontario bran, s19, and shorti 821 a ton, on track, Toronto
at 818.50 and , Monitoba bran is quoted at 818.50 and shorts, 821 a ton: Ontario
bran, 819, and horts, 821.50 to $\$ 22$ a ton
on on track Montreal.

## EgGs and poultry

The organization of ege centres in the
County of Peterborough, wihch is being actively pushed by this organ, is evoking great enthusiasm amongst the farmers,
and up to date five centres have been ea and up to date five centres have been ea
tablished. The movement is getting the en dorsement of the Peterborough Ponltry dorsement of the Peterborough Poultry
Association, and everything points to exciting interination. This movement here is every prompect of she county, and come to poultry and egg raisers from the more general adoption of the soheme that
must undoultedly follow from the eforts now being made. Two weeks ago, we ad vised owners of fowl to get rid of them a prices ruling at present on the market. I Is not amiss to again call the attention of thase of crested to the econo
tage of following this course.
rages are coming in in ever increasing quantities to the loeal dealers, and pricen range at 18 e to 20 e a doten for case loto On the farmers' market new-laid eggs are quoting poultry at the kame figures as given last week, vis., dressed chickens, 19 to 200: turkeys, 180 to 200; geese and ducks. Eres to 160; and fowl at 120 to 140 a lb Eges are quoted at a lower Agure by deal
ers, in Montreal, owing to the large suppries on hantreal, owing to the large sup, plies on hand, and the storage capacit3
being exhausted. Prime quality are sell. ing at 18 e to 19 e a dozen in case lote, and inferior grades at 13 o to 15 c a dozen

## potatoes and beans

The priee of potatoes is showing a high er tendency, although far below the fig ures current at this time last year. The farmers have evidently come to the con-
elusion that it is more profliable to feed their cattle with more prontable the feed ship them to the eity. Local dealers quole Ontartos at 400 to 450 a bag, and In Montreal there are no Ont In Hontrat there are no Ontarios what are quoted at 40 c a bag on track, Mon-
treal.
On the local market the price of beana at 8200 to 82.10 a bushel, and three quoted pickers at 82.10 to 82.20 a bushel.
In Montreal prices rule easy, at the same figures as last week, viz., primes, 81.90 to 81.92 a bushel.

## hides

Following are the local quotations for to i1. iss bulls , steer and cowhides, 10150 16 e : हheep skins, $\$ 1.25$ to $\$ 1.15$; tallow, $5 \% \mathrm{co}$ to $6 \%$, horsehair, 330 a lb. At country points dealers are paying ${ }^{10}$ to 81.15 for sheepakins: calfakins, 130 $\$ 3$.

## DAIRY PRODUCTS

The Quebee Goverament, however ex-
vellent its way of dotng most things may cellent its way of dotng mose things may mothod of dealing with the provineia) cheese industry. The cheese bought on the Brockrille chese market is generally recognized as of superior quality to the
Ouebee brand. It is understood that the Government intends to get over the diff. culty by auctioning off the Quebee artiele as "finest" cheese and making good to the farmer whatever disparity of price be tween the two brands there may be. This is one way of fostering an industry. A8
The Trade Bulletin aptly remarks, "If the Government desires to see the Quebeo farmers get the same price which Broekville gets. it should teach them to improve ing up the difference to them."
ing up the aiferes them.
acreasing quantitics but prices are firn

- last week's quotations.

Whoice creamery prints, 220 to 23 e ; dairy orints, 190 to 200 ; separator prints, 200 to 21e: inferior quality, 140 to 16 e a lb . On the farmere' market. ehoice dairy
butter is being zold at 260 to 27 o a lb ., and butter is being sold at 860 to 27 om al ., and
ordinary quality, 21 e to 22 e a lb . ordinary quality. 210 to 220 a ib
In Montreal, choice ercamery buter is
anoted by dealers at 23 e to $25 \% \mathrm{e} \mathrm{a} \mathrm{lb}$. nuted by dealers at 23 e to 25 ze a it.
On the local market new cheese is sell.
twins. Fodder checese is and 12 e a 1 b . for HORSE MARKET.
The horse market has been very quiet tinterest wast and there is nothing of atill being shipped to the West. Prices remain unchanged from those recorded $\$ 200$ to $\$ 300$ : asrieuttural and general purpose, 8150 to 8280 ; drivers, 8125 to 8240 , expreasers, 125 to 8250 ; serviceably sound
horses, 850 to 8100 . LIVE STOCK
Reports from Chieago and Buffalo indicate a steady tentre of the high prices
at which eattle have been offered for at which eattle have been offered for
the past few menths. There is an easier feeling in the hog markets, however, and prioen weem to be slowly lowering, being week's quotations. There is no easement athough of cattle on the looal market,
and sheep show a marked deeline, owing to receipts of large consignments. A feature of the sales during the
week has been the demand for milch week has been the demand for milch
cows and epringers, which have sold vows and springers, which have sold at more than ordinarily good prices.
port eattlo and choice butchers have also been in good demand
Following are the prices current
local market the prices current on the Choice exporters, 86.50 ,
Choice exporters, 86.50 to 87.50 ; medium,
36 to 86.25 ; ordinary, 85 倍 86
Butchers' eartinary, 85.25 to 85.75 .
Bote cows, 85.50 to 86 medium, 84 to 85.85 : bulls, 84 to 86 . Stoekers- 83 to 85.25 , aecording to qual Feedora-Cholee steers, 84.50 to $\$ 5.60$ bulls, 83.50 to 84.25.
Canners- 82 to $\$ 2.75$.
Canners-82 to 82.75 .
Milch Cows-Choice, 860 to 875 imedium, 840 to 845 ; ordinary, $\$ 50$ to 835 : springers sheep-Ewes, 84 to 85 ; bueks,
ambs, 83 to $\$ 6.50$, according, to to $\$ 4$ ambs, 8 to 86.50 , according to quality
Hogs, f.o.b., $\$ 9.15$ to $\$ 9.25$; fed and wat In w, 89.50 a ewt. II Montreal, ehoice export steers, ar
enllipg at 87.25 to $\$ 7.50$; medium. 86.25 to 86.50 , ordinary quality, 85 to 85.50 a cowt. Cholee butcher cown, 85.60 ; medium,
$84 . .75$ to 85 ; ordinary, 83.75 to 84 a owt calves, 83 to 810 , according to quality sheep, 84 to $\$ 6$ a cwt in lambs, 83 to 87 PETERBORO HOG MARKET Poterboro, Monday, June 6.-The delivery of Danlih hogs on the English markets last weok totalled 34,000 . The demand for
bacon in the old country is fair. The de bacon in the old country is fair. The delivery of hogs on the local markets is heavy. The George Matthewe Co. quote the following pricen for this week's ship-
ment of hogs: fob., country points, ment of hogs: f.o.b., eountry points, 89 a owt; weighed off cars, 89.50 a
livered at ahattoir, $\$ 9.25$ a ewt.

MONTREAL HOG MARKET.
Montreal, Saturday, June 4.-The loeal market for live hogs has been fairly
steady this week. Supplies from the coun. try were eomparatively light, and turned out to be just sufficient for the demand, ed, sales being made at about 810 awt for selected lots weighed of cars
The demand for dressed hogs is good, frosh killed abattoir stock selling freely at $\$ 13.75$ to $\$ 14.00$ a ewt.
EXPORT BUTTER AND CHEESE. Montreal, Saturday, June 4th-Prices in the country this week have been fairly well maintained, the averago price paid being practicully the same as the week before, although there was a greater var iety of quotations. At Belleville, as high as $10 \%$ was paid, while at Brockvilie a
large number of cheese were sold at $10^{\prime} / \mathrm{l}$ a lb . The bulk of the offerings, however, sold at $10^{\circ} \mathrm{c}$, and this neems to be the price at which the bulk of the export trade was done, as the beat prices available in Mon treal for export was about 11 e a lb . There is every prospeot of these prices being maintained during the ensuing week, as the demand from Great Britain at this date is grood and is likely to continue so. The heavy make keeps up, the receipts for this week amounting to 55.799 boxes. fully 20 per cent more than at this time tures and herds are all reported to be in pood shape, the increased production is likely to continue for some time yet. The hipments for the weeld however, are very ifht, and amount to harely 35,000 boxes for all parts of the United Kingdom, and atock are already beginning to acoumulate here.
The market for butter is very firm, and there is every indication that prices are approaching the lowest point for the pre-

## Well Drilling

summer or winter; pumpe and fixtures
alwage nummer or winter; pumps and fixtures
always on hand. P guarante water.
Fifteen years experience. Fifteen years experience. Eight wasoline and steam drilling machines. your while to write for terms and

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

## OUR <br> STICKNEY <br> GASOLINE ENGINE


simplerthan
ny other on Yo market.

IN 10 MINUTES

Won't easily
get out of get out of
kower.
Power is ouaranteed Our Booklet
Oo. 57 is full of

ONTARIO WIND EMGIME AND PUMP CO.
TORONTO, ONT


## THE IDEAL Gried fete silo



Save your llay Decrease Giraia Bills Produce More Milk Make More Money
With one of our Silos you can do it. Thousands in use. Built in all sizes, and shipped Free Catalog.
CANADIAN DAARY SUPPLY Co. MONTREAL

## FARM FOR SALE

100 aeres, in County of Wentworth, Ont Land suitable for mixed farming and
stook. Only a few hours' drive from three stook. Only a few hours drive from three good market towns. Good roads.
A bargain at 83,500 . For full particulara
M. C. VALENS, Dundes, Ont.

## HOLSTEINS   <br> thos. hantiev downeview, on

## LYMDLLE HOLSTEIMS


 BROWN EROS, LVw, owt.

## EDGEMONT HOLSTEINS

 For sate, one yearling binl,, fit for seen formance Cows.a. H. MekENzIE,

FOR SALE
 Am alto in a position and offor cows in calf
to
 Prancy III Butter in 7 daymby zi. A. Aid
stook guaranteed to be juat as represented.

LaKEVIEW HOLSTEIIS




 E. R. osien, Bronto, Ont.

## AYRSHIRES

## AYRSHIRES

2ix ․ . JAS. BEGQ, Rural No. 1, St.Thomas, Ont

BURNSIDE AYRSHIRES Fresh importation just landed of 12 of
the choieegt young bulls I have ever land-
ed, from the beat berds in Seotland, such
As Osborne's. Anchenbrain', Netherhall.
Bargenooh, Barr of Hobeland, Snd Miteliel Hargenooh, Barr of Hobsland, Netherhali,
of Lochfergus, and Mitehell of Lochfergus, all ft for service. Also in
female cows, ${ }^{2}$ year olds, 2 year olds, and
30 choice 1 year old holfors. Correspond-
ence solicited. R. R. Wirse, Burnslde Stoek Farm, Howlek, Que. CHERRY BANK STOCK FARM Have yet one yearling bull fit for see
vice, a good big fellow with lots of gunl
y: atso three lat y: atso three last fall bults.

## P. D. Meanthur, North Georgetown,

## STADACONA FARM show a Record for FARM






Satetle of both eexed and all ageg tor
GUS. LANGELIER
"La Bols de la Roches" Stoek Farm

 HON. L. J. Ponoert, $\begin{array}{cc}\text { B.5-26-10 Proprietor } & \text { Ste. Anne de Reflevme, Ower }\end{array}$

## TWO AYRSHIRE BULLS FOR SALE


 cords. of oins wire good realk and fat re-
Prioe tor service. Prioe tob. with oresiteredy por service.
cach.
Also caeb. Also
Bire. Write.
Sire. Write,
W. F. STEPMEN, Huntingdon, Que.

## HOLSTEINS

BULLS! BULLS! BULLS!

| oo days. | Write for |
| :--- | :--- |

GORDON H, MANHARD

## HOMESTEAD HOLSTEIN HERD

Headed by the great young sire, Dutch Dam, Tidy Pauline De
28.44. Sire's dam. Oolantha, butter 7 dayn butter 7 days, 36.22 . Average of damana pire's dam, 31.8s lbs.
Bull calves off
Bull calves offered, one to seven month,
old, from dams up to 251 , lbs old, from dams up to $251 / 4 \mathrm{lbs}$. butter in ?
days. EDMU
ox 254

LAW \& BONS

## RIVERVIEW HERD

Offers bull calves at half their value for
the next, 30 days, One ready for service
one wired one sired by a son of King of for servico
dam daughter of King Segia. Record Ibs. butter, 7 days, as Jr . 2 year old. ${ }^{18.37}$ E.10-6-10 Bachine Rnplds, Que
GLENSPRINGS HOLSTEINS Three Fine Young Bull Calves, from
R. O. and R. O. P. oows for sale. Also COUNT GERBEN 4431, born April 24,1904
 Butter in
at
3
yra.,
16.16 days,

 E. B. Mallorv, Frankford, On

SUMMER HILL HERD REGISTERED HOLSTEIN CATTLE Worls year our herd has made two
ordids.
Records, and two Canadian Reo. ordenie Bonerges ormbby 8216, calved aee a
two year old
 Bhe almo mard






 Oanadian champlon under two years oid.
We own two daughters from Franey 3rd. choice heifers bred to Sir Admiral a few by 4171, sire of World's Champion. This. 15
the place to secure foundation Btock.
Phone sa71. the place to Becure foundation stock.
Phone 2971, Hamilton. Trains met
Hamiliton if advised.

D. C. FLATT \& SON, Millgrove, Ont | R.R No. 2 | ETP. |
| :--- | :--- | :--- |

## HOLSTEINS <br> WIMNERS in THE RIMG

## Winners at the pall

Juat the kind weall want. They combine CONFORMATION
PRODUCTION
Rall nad Helerer Calue for

## "LES CHENAUX FARMS"

Vaudreull, Que.
Dr. Harweed. Prop. $\quad$ D. Boden, Mar.
sent. Next weelt's recelpta will be June
made, and strictly finest in every respeet made, and strietly finest in every respect,
and as the price is low compared with
this time toat this time laat year. We are likely to with
a coniderable demand for poses, which is likely for storing purupwards. The finest of to influence prices ehips butter has been selling Enstern TownKet this week at 23 e to $231 / \mathrm{ce}$ a Ib ., with
ordinary
goods quoted ordimury goods quoted at about $1 / \mathrm{e}$ a lb lh
less, and country markets are expeeted
to rule aliout to rule about 22 c to $22 \% \mathrm{e}$ for next week's
receipts. chesse markets
Orysler, Ont, May 27,-Best bid, 10 13-16e board, salemmen expecting over until nex Cowanaville, May $28 .-96$ better prices,
cheese all rold for offered cheese all sold for 10 . e. boxes offered
Camplellford. May $31 .-1190$ boses hoand Campbellford. May $31 .-1190$ boxes board two factories sold.
the bulance, but only
twice of S:irling. May $31 .-970$ boxes boarded; alt
aold at $10 ~ 9.16 \mathrm{c}$ Alexandre, June 2-648 cheese, all white
nold at $10 \%$. Belleville, June 2-3355 white and 100 olfored offered. Sales were 510 at $10 \% / \mathrm{ec}$ ing 19 11460 and $10 \% \mathrm{c}$ Brockville, June $2 .-2235$ eolored and 1315
white offered. Best offer, 10 Kingston, June 2.- 1050 white and 522 col all the board was cleared out ic: nearly Tweed, June 2 .-250 white cheese boardWinchester, June 2.-1127
ad of which 160 were colores register. white: $10 \%$ offered, and a few sold on the
board. Ottawa. June 3.-390 colored and White checse boarded; nearly all sold at
109.16 c . 10 9-160.
Perth, J
Perth, June 3, -1300 boxes cheese boarded
-1000 white and 300 colored 1000 white and 300 colored. Ruling price
was $100^{\circ} \mathrm{s}$.


Prof. F, G. Helyar of
Mt. Herman School, Mt.
Herman, Mass, Herman, Maschool, Mt, We could not get along
without Warriner stanch without Warriner Stanch-
ions.:
A.end address for book-
WALA, ACNR, CDEMR BI of information to.


Dr. Bell's Veterinary Medical Wonder curen kidneys. The soth century wonder. Agsonts wanted
in every county. Write for and in every county. Write for a w free trial 1 gronts wanted bottle. This
offer oaly good fer 60 days, Limited to soo botilen DR. BELL, V.8., Kingeton, Ont.

## MISCELLANEOUS

TAMWORTH AND BERKSHIRE SWINE. Boars and sows for sale. J. W. Todd
Corinth. Ont. Me. Hampahin Aaple Leaf Stock Farm. Et One sow, eirht months old, $\$ 36$. One old, $\$ 12$.
not allin, 830 . Rno
 NELSON FOX, Harrow, Ont. TAMWYORHS ANO SHOOT HORNS FOR SALE Young and matured sows sired by Imp
Boar, dams by Colwil's choice Canada
Ohamplon Boar in Ohamplon Boar in $1901-23$ and 05 . Ala
oboice pigs of both mexes. Two choice year ling Shorthorn bulls, choice family. year- Ex.
cellent milking strain. Three ehoice helf. ers, 8 years old, in calf to eholce heif.
Prices right. A. A. colw

## AYRSHIRES

## SPRIMEMILL AYRSHIAES

ages for sale. Stock shown with of all
ROBT. HUNTER \& BONS

## AYRSHIRES

Ayrshires of the right stamp for pro-
duction combined with good type and quality. Write for prices.

Pieton, June 3.- 22 factories boarded $2 x 27$ boxes colored. Highest bid, $109.160 ; 2247$
aold. Nap
colored and June 3.-Cheese boaded, 900 colored and 1200 white, which sold on the
board and curb for 10 , c . Iroquois, June 3-540
white cheese offered: 260 colored and 460 white sold on the board at $101 / \mathrm{c}$. And 101 sold on the street at same price. Balance Cheese sold N. Y., June 4.-1700 box cheese sold at 14 c . Cowansville, Que., June $4,-120$ boxes of
cheese boarded: all sold at $100 / 0$. cheese boarded: all sold at $10 \%$.
London, Ont., June 4. -1388 boxes, 488 280 white sold bolanea colored, boarded Bt. Hyacinthe, Que., June 4.- 600 boses
cheese sold Watertown, N. $\dot{Y}$, June 4.-Cheese sales.
8800 at 14 e .

## GOSSIP

LARGER DAIRY PROFITS
A large catalogue full of suggeations for to hand from W. A. Drummond has come question is one of theronto. The firm in quegeion is one of the largest manufactur a few of thair popular line. Sterliac milk pail, Purity Cooler, include Milk Tester, Automatio Scales, Milk Oans, The Root Sanitary Cooler a few of hundreds of useful and are only articles listed in the eand conveni tuajority of this firm's goods will The more for any man who owns one make they will send a eatalom \& Co., state that and Dairy reader free. Our readery Fhorm at the advantage of this offer, mentioning they are in need of.

LARGEST PROFITS WHEN UNDER OFFI. CIAL TEST
A breeder anks why I do not sometimes give cost of production, and the value of
product for each dollar's worth of foed product for each dollar's worth of food
consumed: saying that he sces that the consumed: saying that he sees that the As-
sociation sometimes usos this methor sociation sometimes uses this method in its duction beeause, except in teste condueted der lock and key, where all feed is kept un tereated person, it is in charge of a disinto determine it in such a way as to ressible the general credence of breeders, receive can therefore constitute no part of and it fleial test: but from my own experience, can assert that the period of largest net profit for Holstein-Friesian cows is the period during which they are under officiat
test. test.
As to the caloulations of the returns that is the method of caleulating consumed profit-a method that looks plausible but. is misleading, inimical to the interests of false in its conclusions, and the utterly of dairy heresy. If we are to tol rankest method of reasoning to its lo follow that aion, the smaller the dairy animal more profitable: and saying nothing of the cheapness of their traditional diet of tin oans and rubber boots, but merely on selected as the most doat would have to be mal. Per cent, proff desirable dairy ani ation but one factor- thakes into consider and it ignores the fuctors of cost of food Holstein-Pricsian frotors of time and eare Holstein-Fricsian breeders care nothing their feed last the longest posor making but they look sharply to getting posible time est possible net proflt. They do the largto know how little value in foed want will consume in a given time, but cow much net proft over and above the how of the food consumed she will return dur lng that time. Measured by the false the butter fot prod. profit, eapecially wher. ed, the Holstein-Friesian is alone consider. advantage: but on the boof is at a dis she will always be found of net proft When it comes to the prat at the front. lifting the mortgage, per cent, proftrk of be thrown overboard, and the entiremust liance placed upon the net proft gained - M. H. Gardner, Supt., Advanced Registry, Delavan, Wis.

A G00D RECORD BOOK."-I received which was sent me by Farm few days ago, return for a new bubsoriber and Dairy in pleased with it. A farmer can keep a much account of everything on his farm through the use of one of these record books.-W, ip MeArdel, Quebec.

## OUR FARMERS CLUB 

 ONTARIOcarleto / co., ont.
NORTH GROWER - Seeding is ali done with the exception of corn and part of the
root crop Last year's grass seeding is looking well. Lat Old mear's grass eveding is
lowe and pastures,
however, hastings co., ONT.
AOTINOLITE.- Farmers are almost done
seeding. Everything is looking fine and seding. Everything is looking fine, and
there is every prospect of a bountifui har. there is every prospect of a bountiful har-
vest. Butter, eggs, and every kind ot meat continue to sell for high prices.-
T. K.
haliburton co., ont.
NMOUNT.-There is a unusual number
tallions on the road, all breeds being
large. Small pigs are still scarce. A
number have been shipped in from points
$\begin{aligned} & \text { on the T. B } d 0 \text {. Butter factories are in } \\ & \text { full swing. } 25 \text { a }\end{aligned}$
$\begin{aligned} & \text { full } \text { wwing. } 25 \mathrm{a} \text { a } \mathrm{lb} \text {, being paid for butter } \\ & \text { fat. A car load of horses were ahbs }\end{aligned}$
the west last week. The following pricen
peterboro co., ont
PETERBORO. - The annual meetivg the Farmers' Institute of West Peterbor
ough will be held on the farm of the proexident, J. J. H Garbutt, on Friday, June
17th, at 2 oclock tion will be given by the district geatative of the Agricultural Department, H. C, Duff, B. \&. A. of Norwood. It to the intention to finish the afternoon with a
pienic and the Women's Institute of Take feld, are expected to be present. The
Farmers' Institute excursion will be to Farmers 1nstitute excursion will be to
Cnelph and the Experimental Farm, on
June 9th - W June 9 th.-W. $C$.
DURHAM CO., ONT.
8)LINA.-During the past $10 \begin{aligned} & \text { days cold } \\ & \text { and unsettled weather has prevailed. }\end{aligned}$ and unsettled weather has prevailed
However, the crops have steadily advanced appzreatly acquiring a much needed stim-
ulus throngh the influenco of uhis throngh the influenee of frequent
shower. This lecality shows a uniformity of crops in general that would be difficult
to surphess. Fall wheat is developing luxe," and your correapondent has seldom seen wheat more promining at this period
of the season. The spud and scuffer thou'd now be given their annual exer cise and it is gratifying to note, that
Ifrererally they are not given absent treatment. they are not given absent
Herops, red clover and alfike are alike growing merrily along to
their harvest. -J .

Victoria, co., ont.
OAKWOOD.-Seeding is all finished. In the majority of cases the root crops are
being rushed into the ground. Althourt somewhat copious showern tend to retard work on the land The fall wheat everyIn very ocomion an abundant harvest. Only tion of winter-killing apparent. Some tionally rich land have attempted to cheok the abnormal growth by topping the thickest spota with the acy the. Others, by a litheral npplication of salt, hope to
overcome the tendency of the dense wheat to down when it reaches maturity.-
R. W . H . METZ. WELLINGTON CO., ONT,
veather in accound of so muoh wet farmers are juat through seeding. ©ome the than the carlisst sown crope look better than the later ones. Hogs are about 9o a lle: young pigs are searce, selling at
siofa pait: grnin is lower; buckwheat is
 450, butter. 230, and egge, 18 Be . Egga are

WATERL00
YaTHRLOO-TLO ONT.
ing corn. Quite a number bury plant. The corn. Quite a number of new silos is growing nicely the warm spring grain is growing nicely the warm weather of tavorable for germinnting mangel and
and sugar beet seed. Pastures are good and cattle are being put out. Most of the fat 87.00 per owt. for $1,200 \mathrm{O}$ b at atom 8650 to huron co., ont.
GODRRIOH. - Moderate rains, followed along. Fall wheat is in solendid condition
having wintered perfectly. Clover is doing We thick is many fields the stand is not
as desired. The spring
and grain was retarded for tired. The spring weather but is now in trood condition. The new sueding of olover has germinated
well and preding well and promises a good stand germinated have now been on pasture for some stock and generally speaking are in good thrifty condition. Foals are now arriving and
atthough some fatalities majority some fatalities have ocourred the - D. G. 8. have been strong and healthy. middlesex co., ont.
TEMPO-To show the difference between the present and the past, the son of an this story about his father, who water Rook in the twenties, when 1 first took ap land I found the rattlesnakes so bad aronnd. Even that I was afraid to move frightened that my oren got po badly
I conld only with great dificulty manage to drive them. I had built my first log cabin upou a small hill tom there were several swampy pool bot the warm days of spring and summer the snakes would crawl up from there and
sun then sun themselves in the sand around my curled droo. I have seen big fellows lay ureet reads hills of potatoes with heads vietim. Thy to strike their fangs into a ling often mate myed singing and ratand I was afraid to put my foot to the ground. But I fought them to $a$ finish."

## ELGIN CO, ONT. TALBOTVILLE.-Indications all point to

 an abundant harvest. All fruit trees have near here has this to say nhout farmer tomatocs: "I plant my tomatoes far from the birn so as to be away from the poul.tys, for they dearly love tomatoen plant them in a long row and immediately marroufat put in two or more rows of frosts begin to cor table use. When the to cover the tomatoes. Une the pea-straw light protection, the tomatoess are that fron front, but will ripen nicely." - J. E. O.

## GOSSIP

holstein priesian official Re CORDS FOR APRIL, 1910. 18.44 lbs . humued from page 20) by George Kilgour belmer, milk. Owned 3 days of age, 1471 at 6 yra, 10 mos,
 stiock, Owned by Walter Bs. Schell, Wood
Rosia Lee DeKcl (3127) at 9 yrb, 7 mos

 Centre Viow Anna 2nd (6950) at 5 yrs ,
3 months 19 days of age, 1570 at
 Oentre, Ont. ${ }^{\text {ibued by P. D. Ede, Oxford }}$
 botter: 388.5 the milk. Owned by A. D
Foter, Bloomfield. Ont.
Faid, 10 days of age. 13.64 at 5 yrs. 2 monthy,
 Ruby Dean (6579) at $5 \mathrm{yre}, 17$ days of
 Gh Geo Kilgour, Delmerf Ont

 26 Aberta, Maid $(6209$ at 4 yrs., 9 months
 Minnie,$~ A b b e k e r k ~ D e K o l ~(7349) ~ a t ~$
month, 23 yra.
days of
 milk. Owned by Orrin Strader, Brinaton,
Ont. ${ }_{14}$ Laura Jewel (6853) at 4 yrs , 9 months, 14 days of age, 14.13 lbe butter fat:
equivalent to 17.66 the butter: 365.4 lbs Vicw, Ont
Posch Blossom (6739) at 4 yrs, 8 monts24 davs of are, 13.75 lhe, butter fat, equival.
ent to

 Ont
$26{ }^{\text {Madam }}$ days
Posch ( 6591 ) at $4 \mathrm{yrs}, 4$ months,
 Starlight Canary Burke (7600) at 4 yra.
menth, 8 days of age, 11.53 lbs. butter

Hazel Maiden. Meredes DeKol (10115) at
3 Yrs, 6 moths, 14 days

 Franey Boncerges
yrs., 8 monthe
6 ${ }^{40018}$ that, equivalent to 2026 lbs . butter: Son, Ming milik. Owned by D. C. Flatt \&
Korndyke Pat Pat



 ${ }_{16}$ Fourteen-day 16 days of agecord at 32.85 yrs, 5 months,
equivalent to 33.56 buth buter fat,
milk Owiter, milk. Owned by Thomas Hartley, Downs
view. Ont.
 glent to 17.00 , lbs. butter; 442.7 tas equiv Owned by Benj. B .Leavens, Bloomfield,

 Mfay Dekol Abbekerk (8140) at 3 yra, 8
 Ont. Owned by Orrin strader, Brinston,
 fat, equivalent to 14.58 age, lbs. butter; buter liser
lbs. milk. ${ }^{\text {liss milk. }}$
days of daye 1ecord at 3 yrs., 7 months,
cnt to 55.31 , 44.24 he. butter fat, equiva Owned by Thomas Hatter: 1402 Ths. millk.
Ont.
Gaza Aeoneth Calamity (6814) at 3 yra
month, 26 days of



 8.shell, Woodstock, Ont.
Vraney

 Ingrove, Ont
Inka DeKol Sylvia (103s2)
 Owned by R Connelt, Roebuck, Out. Millk.
Fourtecn-day reeord at
 R. Connell, Roebuck, O.t. Milk. Owned by
Roebuck, month, 7 dayse of age, 12.51 the , butter fat ${ }^{1}$,
equivalent to 15.64 ibs. butter.
 7 Fourteen-day record at 2 yre, 1 month.
 milk. Owned by R. Connell, Roebuck,
Bonny Tensen DeKol (12988) at 2 yrs,
months, 15 days of age 1205 lba buta
 Millgrove, Ont
Versted A Ioseo (10601) at A Son,
 Owned by bis David butter: 338.7 Ths, milk.
Centre, Ont. Emma of Evergreen (10645)
28 days of age, 1191 Ibs
 Sora Dekol Veeman Roebuek, Ont. milk.
 Oe, milk. Owned by P, D. Ede, Oxford Bunlight Colantha (10024) at 2 yrs., 13
days of age


 milk, Owned by M. L. Haley, 876.6 lbs .
ford, Ont zi dacy Cubana (9139) at 2 yrs., 11 months,
 Owned by Wm. Slaght. Bealton, On, milk
 alent to 14.14 libs, butter, 351.2 lbs , millk.
Owned by Walter 8. 8chell. Woodet Summer Hill Josephine ( 11499 )
10 months, 4 days fat, equivalent to is are, 10.59 lbs. butter The equivalent to 13.24 ibs. buter; 281.7
Milk. Owned by D. C. Flatt \& Millerove, Ont,
Calamity Calamity Teake Johanna (10379) at ${ }^{2}$
yrs., 16 days of age, 10.13 lbs, butter fat, equivalent to 12.67 F ibse butter: 329.5 las,
milk. Owned by ic . Haley, Mande Calamity DeKol (10906) at 2 yrs dent to 1258 are, 10.06 lhos, butter fat, eqniv. Owned by R. Connell, Roebuck, Ont milk.

## NOTICE TO SUBSCRIBERS. When sending in ohange of address, please give your old address as well as the new.

Barbara Calamity DeKol (10e97) at 11 yr.


DeKol Hasketon Belle (10158) at 2 yrs,
month, $Z$
$Z$ fat, equivalent to ${ }^{2} 2.40$ age ibs. butter: 22.92 lbs Millgrove, Owned by D. C. Platt i \& Bon, Hilda of Nober (1002s) at 2 yrs, 21 daye,
of age, 9.72 bos. butter fat, equivalent to
12.15 ibs. hutter, 3102 , 1215 The buter, 310.2 the, equivalent to
by W. J. Bailey, Nober, Ont
owned
 months,
fat, equivalent to ate, 9.65 libe, butter
lbs, milk, Owned butter; 316.8
ville, Ont. ville, Ont.
Tensen Posch DeKol ( 9567 ) at 2 years, 4 months, 14 days of age, 9.60 lbs, years,
fat, equiter
1 bs . milk. Thirty-day record at 2 years, 4 months,
14 days of age, 37,14 equivalent to 46.43 lbse butterter fat,
milk. Owned by Thomas Hartley, Downs view, Ont
Daisy Kirk (11190) at 2 years, 10 mos,
 milk. Owned by Thomas Hartley, Downs
view, Ont.
Beil Wayne DeKol (10383) at 2 yra, 19
 Owned by k. Connell, Roobuck, Ont, milk.
Helbon Spink Posch $(122 a 0)$ at 2 , yre
 Julia Mercena Posch (11381) at 1 year, 10
months, 14 days
 Ont. Owned by Wm. Slaght, Bealton, Burke Hengerveld 2nd (11260)
months, 21 daya of
 Nancy Posch Jewel (9569) at hocbuck,
 $15 \begin{aligned} & \text { Thirty-day record } \\ & \text { dat } \\ & \\ & \\ & \end{aligned}$ equivalent to 43.5 S Ibs, butter butter fat 1270.5 fhe
milk. Owned by Thomas Hartiey, Down. Vifw, Owt Oed by Thomas Hartiey, Downs
Poweh Netherland Catemit peach Netherland Calamity (10096), at
year, 11 months, 22 days of alke, 831 tha butter fat, equivalent to 10.39 lisa, butter;
26n lbs milk. Owned by R. Connell, Roe.
bnek. Ont Centre View Gentle (10552) ${ }^{\text {monts, }} 25$ days of age, 8.00 the year, 10 fas, equivalent to 10.00 Ib. hus.er, 2609
as. mill. Owned by P. D. Ede, oxford
Centre, Ont. a .W. CLEMONS

Secretary.


## 9 Every Farmer's Wife in Canada Ought to Read this Advertisement

IF 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. $\mathrm{Bu}^{+}$here would be no such danger : farm buildings were roofer Jshawashingles. They pro $\quad$ any building against lightnin far better than any lightn; rod system possibly can.

## afe Against Fire

And, at, certain times in the yenr, 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 net dread it at all when the buildings are covored 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 oror. It nevercan be fromawood-shingiedrof.

## 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 reads that, that the actual cost of an Oshawashingled roof is less than five cents per year 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 wet-proof, windproof, fireproof and lightning jproof for a
quarter century, and that will be a good 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 hushand 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 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, please0SHAWA 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 to the square. When considering metal shingles always learn THE WEIGHT OF METAL per square offered and be sure that the weight is of the MEIAL ONLY.

Make the weight test yourself. 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.

DONT 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. Go on and plate your house inside and out with steel. Cover tho surface of your barn with steel. In a word, "Pedlarize" every building on your farm. This way:

## Make Your House

 FireproofFinish the interior of every room in your house with Pedlar Art Steel Ceilings and Side-Walls. These aro 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 to the danger point - which doesn't take long as a rule. They are easily put in place, They can easily be painted and decorated

## Make Your House 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 "skyscrapers" of the great cities, Also, such a house will be much warme in winter than if it were built of solid brick-and so it will save its cost in fuel savings. It will be cooler in summer It will be kanitary inside-you can wash the ceilings and walls clean with soap and-water. It will be a handsome, sub. stantial, and enduring proof of your fudgment in choosing the modern build. ing material-steel-Pedlar-made Stcel.

## Make Your Barns Safe

With Pedlar Steel Siding you can finish the outside of your harn most ceonomically, and your cattle will thrive better in bitter weather than if they wero housed in a solid concre fary. This heary-gauge seamless steel fmish, keeps out the wind and keeps in the animal heat. enough to pay its cost over and over, It costs but itfle; it is simple to put on, and it whather imbers. Most Shporlant of all, with Oshawa steel shimgelly the rooimakes harns practically proof against 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 Pediar secialties. We will send you samples of any of them: prices; illastration, and samples of the Oshawa Steel Shingle as well-all just for the asking.
## GET SEVENTY-EIGHT POUNDS OF STEEL TO THE SQUARE GET A TWENTY-FIVE YEAR GUARANTEE

