

VOL. XXX

NUMBER 10

## RURALHOME

PETERBORO, ONT.

MARCH 9.



TRULY THE SUGARING SEASON IS ONE OF MANY SIDES AND WITH DELIGHTS FOR ALL

What man or woman cannot appreciate the many phases of sugar making, several of which are so well here depicted! Not the least of these is that of the small boy in the foreground who with evident gusto is drinking deeply of the sweets Not the least of these is that of the small boy in the loveground who with evident guarding deeply of the sweets of the maple. Sugaring, as we know it now a days, has become a serious matter-of-fact business, which under proper of the mapie. Sugaring, as we know it howeverage, has become a serious matter-or-ract ousness, which under proper analgement yields splendid profits. Some side lights on how to make the most out of a sugar bush, are given in an article, on page 4, by Mr. Andrew Reichardt, Dundas Co., Ont., whose "camp" is herewith shown.

DEVOTED TO

BETTER FARMING AND ANADIAN GOUNTRY LIFE

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### NEVER HAD AN ACCIDENT

You will have to go a long way to find a person who has had an accident with a "SIMPLEX" bowl. And, what's more! A worn out

### Simplex Link-Blade Separator

is as scarce as hen's teeth. There are several reasons why this Separator has the reputation of being a "no break, no wear" machine.

The "Simplex" bowls are made of a very



Note the heavy base and heavy rigid frame construction

ductile grade of seamless steel tubing, that even if it were subjected to an extreme pressure would stretch, but would not fly to pieces. The spindles are made of a special grade of high carbon steel, heat treated, to increase their toughness.

There is no safer or stronger bowl than the low speed "Simplex" bowl, and this is a point that you should think about especially in these days of cheaply built high bowl speed separa-

Our aim is to make a Cream Separator that is stronger than is actually necessary. When you buy a Separator, buy a good one. The safest way is to get in touch with our nearest agent.

## D. Derbyshire & Company

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WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

### Keep Your Stable Clean "BT" Litter Carrier



What work is harder or more disacresslate than cleaning out the stable. A "BT Litter Carrier will make this work easy, for with cleaning out the stable. A "BT Litter Carrier will make this work easy, for with which was the stable of manure can be removed from the stable of manure can be dumped directly wheeling, no climbing through anow or my theeling, no climbing through anow or my theeling has been supported by the stable of the s

Write to-day to

BEATTY BROS., Fergus, Ont.

During the year 1910, five cars of pure bred live stock were shipped to the west, the olin palace horse cars and two short cars. The following is a statement handed out by A. P. Westervelt of the receipts and expenditures in connection with these cars and details regarding the number and details regarding the number and details regarding the number and the state of t

Shipment, Feb. 23rd (2 cars) \$581.67 \$506.62 Shipment, March 29th ... 462.50 459.79 Shipment, June 1st, (2 cars) 709.45 672.37 No. in Shipment

Horses Clydesdales Thoroughbreds	Feb. Mar.		Shipment	
	23rd	29th	1st 8	Tota
			2	
Percherons Hackneys	7	-	1	
Cattle Ayrshires				
		7 2	10	1
Herefords Jerseys		1	-	
Aberdeen-Angus Galloways		1	11	1
Hols ein-Friesian	2	1	-1	
Suffolks	20			
Shropshires Oxford Downs		0	3	21
Sou hdowns	5		3	5
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Value per Head of Farm Animals

Western Shipments of PureBred Stock

During the year 1910, five cars of pure bred live stock were ahipped to the west, three long palace horse cars and two short cars. The form of the west, three long palace horse cars and two short cars. The five cars and two short cars. The five cars is a statement handed out by A. P. Wester the five the receipts and spenditures in connection with those cars and details regarding the number and kind of animals in each shipment.

Swine Registrations Doubled The swine-breeding industry is making rapid strides in Canada, as in-

The swine-breeding industry is massing rapid strides in Canada, as anidicated by the number of registrations of pure-bred stock recorded for the present year. The total in 1910 was 8,047, as contrasted with 4,485 in 1908, and 4,061 in 1909.

Of the 8,000 registrations for all Canada this year, nearly 3,000 were from Ontario. Quebec stands second, entering 1,426 animals. Manitoba registered 79; Alberta 448; Saskatcheard The Maritime Previnces and British Columbia show very little interest in Columbia show very little were shown of the columbia show very little interest in Columbia some very little wine. New Brunals, while British Columbia on sumals, while British Columbia on sumals, while British Columbia on sumals, while British Columbia cutered 157 registrations.

The Yorkshires and Berkshires are a long way in the lead, showing more than 3,000 each this year, which is a Value per He.d of Farm Animals
The average value per head of animals on farms and range in the Unitd States on Januara 1, 1911, compared with average value on the same
day in previous years, on the same
of the Bureau of Statistics, follows:

the Bureau of Statistics, follows:

AVERAGE VALUE PER HEAD OF FARM ANIMALS, ALL AGES, ON JAN 1 OF YEARS IN D. CATED Kind of Animals 1911 1909

Editor. Farm and Dairy.—A vonug breeder writes to ask as to whether I think he will stand any show for winning prize-money, if he takes up the official test work and makes an effort in that direction. As to prize-money, every Holstein-Friesian breeder nominally ha: an equal chance with all other breeders, but the breeding of the cattle and the skill with which they are handled are the all-important factors. It is rarely the that any animal not strongly cattle that any animal not strongly because the prise-money is won by those breeders and the prise-money is won by those breeders and the prise-money is won by those breeders, and the prise-money is won by those breeders, and those walk before one can walk any must creep before one can walk and those walk before one can run, and an and an and an and as the amount of money and and as the amount of money and and a the amount of money and as the amount of money and and a the amount of money and and a the amount of money and and and and and a the amount of money and and a the amount of money and and and and and a the amount of money and and a the amount of money and and and a

(first year recorded) 176.

### Items of Interest

All-cement houses, 500 in number, medelled on lines laid down by Edison, it is said, will be erected in Montreal this coming sprinz. The houses on, it is said, will be erected in Mon-treal this coming sprint. The houses will be entirely of cement and when they are completed not a piece of wood, apart from the doors and win-dow frames, will enter into their con-struction. The walls, floors, ce-lings, stairs, mantels, partitions, roofs, and outside trimmings, will all be of con-crete and will be practically in one piece without joints or other visible forms of connection. rms of connection.

they bred them, also had to begin on the lowest step of the ladder.

To win prize-mone is a great honor and at the amount of money and number of prizes for the present fisch prizes in the dean win more than three prizes in one of the four prize-divisions, one of the four prize-divisions, one of the four prize-divisions, one of the four prizes divisions, one of the four prizes in the wonly breeders making their first effort that may be prizes is but a part of that within the sevent of the four prizes in the gain in the development, it is the gain in the development, and the prizes for the prizes in the development of the four prizes is but a part of the them that the prizes is but a part of the that the thin self, that is most to be considered. If this be accomplished, even though no prize be won, the reward is great. Any man who proves the capacity and value of a cow beyond question, not only enhances the value of that cow hereself, but also the value of her off-spring and near relatives. And the reward is not all to be measured in dellars and cent. For off-spring and near relatives. And the reward is not all to be measured in dellars and cent. For off-spring and near relatives. And the reward is not all to be measured in dellars and cent. For off-spring and near relatives. And the reward is not all the provided the provided that the provided that the provided that the provided the provided that the provided References have already been made Reterences have already been made in this column, to the new record which is believed to be a world's record, made recently by the two year I dollar holstein heifer owned by E. B. 34 Holstein heifer owned by E. B. 35 Holstein heifer owned by E. B. 36 Holstein heifer owned by E. B. 36 Holstein heifer owned by E. B. 37 Holstein heifer owned heifer heifer owned heifer heifer owned heifer heifer owned heifer owned heifer heifer owned heifer heifer heifer owned heifer heifer owned heifer heifer owned heifer heifer owned heifer heifer heifer owned heife

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Vol. XXX.

Each Week



FOR WEEK ENDING MARCH 30, 1911.

No. 10

Only \$1.00

a Year

### THE UNDERLYING PRINCIPLES OF CROP ROTATION APPLIED IN PRACTICE. V. C. Good, Brant Co., Ont.

### A Prize-Winning Farmer Discusses his System of Crop Rotation Reasons siven for his Practice. Alfalfa for a flay Crop. Pastures Left but One Year.

HE general objects in view in the observance of any system of rotation are: 1. The growing of maximum crops with a minimum loss of plant food, together with a maintenance of soil fertility; 2. The destruction of weeds and the improvement of the texture of the soil.

Perhaps, a more important question than that of rotation is that of the selection of suitable crops to grow in the rotation. For example, it is more important to see that clover constitutes one of the crops than it is to observe any particular order in the rotation. Granting, however, that the farmer has made his selecion (which will be largely determined by the market, soil, and climatic conditions) with a view to obtain the most suitable crop, or varieties of crops, for his purposes, then he has to face the question of rotation. In treating this matter I think I can best throw light upon it by dealing with my own practice, giving reasons for adhering to, or changing, any particular method, and thus discussing in an informal way, some of the underlying principles.

### MR. GOOD'S OLD ROTATION

Up to the present time I have been following a five-year rotation: Hay, pasture, oats, roots and corn, mixed grain, seeded down. As I also grow wheat, I have been working that in on the side, on pasture or hay land plowed in July or August.

This rotation is, perhaps, somewhat unusual. and may need some justification. In the first place I prefer not to summer fallow for wheat, as I practically lose one year's crop, and get such a heavy stand of wheat straw that it will probably all go down and not only be difficult to harvest but smother out young clover. I also prefer to put oats upon a late-plowed sod, that has been top-dressed with manure the previous winter, that is the winter before it is pastured. In this way one gets a fairly good crop of oats that does not go down. Oats are, of course, a good crop to follow roots and corn, but for that I prefer the mixed crop, as it gives me bigger returns.

### DISSATISFIED WITH HIS ROTATION

In some particulars, however, I have become issatisfied with the foregoing rotation, and am ow changing. In the first place, I wish to use alfalfa as my main hay crop, and thus remove that from the rotation altogether. (Last season I thoroughly cleaned a field for seeding to alfalfa, as I have not yet got a really good stand of that most excellent hay plant. Two years ago, however, I cut 17 acres, largely alfalfa, and cut it again last year. But it was not good enough to leave permanently). In the second place, I find that a sod plowed for wheat in midsummer is apt not to get killed, and if there is any blue grass in it, as there usually is, it spreads rapidly and greatly interferes with the growth of young clov-

\* Mr. Good's farm was one of the successful competitors in the first year of the Dairy Farms competition as conducted by Farm and Dairy during the past wo years. This essay on his own clean practice rays written by Mr. Good as requested of him and required by the rules of the competition.

er. In the third place, I do not get a sufficient quantity nor a good enough quality of pasture the year after cutting hay, as the clover is mostly gone, and the timothy and other grasses are relatively poor pasture plants.

For these reasons I am working into the following five-year rotation: Pasture, oats, roots and corn, mixed grain, wheat, seeded down. Farm and Dairy readers will notice that the hay crop is not in the rotation, and that I pasture the fresh seeding. By dividing my pasture field with a temporary fence, and not letting the stock on it till June 1st, I have plenty of excellent feed until quite late in the summer, and can carry a relatively large stock on a small acreage. This pasture land is plowed deeply late in the fall and put into oats the next spring. The oats, following upon a clover sod, pastured all summer, have abundance of plant food but not enough immediately available to cause them to grow as rankly

### Warm Words of Commendation

Editor, Farm and Dairy.-Just now when the general press of our country is so overrun with reading matter suppressing our demands for an increased British preference, and trying to make us farmers go against our best interests and oppose reciprocity (much of this matter evidently being paid for by the special interests against us) we farmers owe a double debt of gratitude to you, and to another farm paper, for the way you have stood up manfully for our rights. I wish to commend you for what you have done for us farmers in this fight. -C. F. Marsh, Clarksburg, Ont.

as they would do upon a piece of ground fallowed the previous year. They will rarely go down badly

### THE OAT STUBBLE AFTER HARVEST

Immediately after harvest the oat stubble is plowed lightly with a two-furrow plow, worked down and seeded with rape. If the season is favorable I get quite a bit of feed for the late fall; and at all events, if the rape does not amount to much, the weed seeds will germinate and be destroyed later. This land I do not plow deeply in the fall but cultivate next spring to clean the surface; manure at the rate of 12 loads an acre, plow under with the two-furrow plow, roll, harrow and roll again. It is then left for a week or two, to allow the weed seeds to germinate, cultivated and harrowed again and seeded with corn and man-

I partly sprout my mangel seed before sowing, so that it may come on ahead of the weeds, and so that I may continue the cultivation of the seed bed as late as possible.

The corn ground I harrow once across the rows three or four days after sowing, once lengthwise, just as the corn is coming through the ground,

and once across the rows when the corn is about six inches high.

The corn and mangel ground is kept clean all summer and given surface cultivation next spring in preparation for sowing a mixture of oats and barley, with a sprinkling of peas, and about four pounds flax seed to the acre.

#### PREPARING FOR WHEAT

Immediately afer harvest I plow this stubble with the two-furrow plow and roll down. Later, when time permits, I top dress it with six loads of manure to the acre and work the manure in with the harrows. This is given surface cultivation until time for seeding to wheat, and the wheat I seed with a mixture of red clover, alsike, alfalfa and timothy the following spring. On ground thus prepared, there is no grass to interfere with the growth of the young clover, and the wheat is not supplied with available plant food so fast that it all goes down. The top dressing with manure almost guarantees a good catch of clover, as anyone who has made the experiment can prove for himself. I had a beautiful field of wheat last year on ground thus prepared, and a grand catch of clover which was not at all likely to be smothered out. I would rather lose 20 bushels of wheat to the acre than have my clover crop destroyed.

The rotation described in the foregoing looks after five fields, and the alfalfa hay a sixth. I have a seventh field which I can use for pasture, field crops, rape, or hay, as circumstances advise, besides two orchards, two small fields of alfalfa, and a garden near the buildings.

### ROTATION ADAPTED TO REQUIREMENTS

I have selected this rotation to supply me with hay, straw, grain and pasture of the desired kinds, and in the desired quantities for any purposes. I believe it will enable me to maintain or increase the fertility of the soil, prevent the spread of noxious weeds, and give large returns per acre.

I suppose every farmer follows some system of rotation, either by accident or design; and as the desirability of different rotations depends upon a number of conditions which vary in different localities, no one rotation or number of rotations can be claimed to be the best. It is, however, important that the average farmer study the question with a view to discern the underlying principles which determine all good rotations, and then, having in mind his own special conditions, he is not apt to go far astray in applying the principles to his own circumstances.

SILOS .- Stave silos are entirely satisfactory They should, however, be very carefully and staunchly built on a good cement foundation. The cost will run from \$1 up to \$3 a ton capacity. Cement silos are very durable and quite satisfactory, if well built. They will cost from \$2 to \$5 a ton capacity. Care must be taken to build of good material and to strongly reinforce with wires or bands. The round shape is es-sential to best results. Where wood is used only one thickness of two inch staves, or one thickness inch dressed lumber in square or straight line walls should be used .- J. H. Grisdale, Dominion Agriculturist, Ottawa.

### Two Brood Mares on 100 Acres G. A. Brodie, York Co., Ont.

The heavy horse outlook has never been more favorable than it now is. The breeding of this class of horses must continue to be one of the greatest factors in profitable agriculture for years to come. The great movement westward, and the expansion in all directions there, will create a new market for a great many horses yearly; the poorer classes of horses to the first settlers, but the good ones when conditions later afford it, thus making a market for all classes of heavy horses. The hurry-bustle in the west during certain seasons, wears out horses much more rapidly than in the east, thereby increasing the demand.

New Ontario also, with its extensive timber areas, with its development in the mining industry, that has created already a large market for our horses, and later its agricultural development, will annually increase in its demands for good horseflesh. Older Ontario also will use more horses in the future, as the tendency to-day is for a system of more intensive agriculture with more thorough tillage; indeed, to combat the increasing weed pests, such tillage is absolutely necessarv.

All branches of industry-agriculture, mining, railroading, lumbering and manufacturingseem to be on the increase. This is Cana-

da's growing time. This century belongs to her, and she is still very young. We can look forward for years to a good healthy horse trade.

#### FOR 100 ACRES

The breeding heavy horses is one of most profitable branches of agriculture. A team of heavy registered mares can profitably be kept on every 100 acre farm. Each can raise a colt as well as do its share of work during the busy season of spring seeding, after which it would have a few months run with the foal, and then do its share of work the balance of the season. Some of our more progressive farmers keep nothing but breeding mares to do the work,

relying on some that do not get in foal to do the road work

An average price for a good foal from a regisered, heavy mare would be \$150 for a filly rising one year old. For a horse colt we will get less, except for one extra good, good enough to leave entire, when he is worth considerably more. After paying the service fee, and the cost of keep of the colt, making due allowance for extra feed for the mare, and something for inconvenience, I consider \$100 to be a very conservative estimate of profit for each year a mare breeds. On every hundred acres, therefore, a few hundred dollars can be made yearly, and it requires little or no hard labor.

### SUGGESTIONS FOR IMPROVEMENT

To improve the horse industry, I would say, Do not keep too many in a locality, and do little or no intercrossing. It is in intercrossing the culls generally come. Stock judging classes at institutes should do good work, as it is education that is most needed. I believe the high prices for horses at the present time will do much to improve conditions. I notice a great change late-

ly in this locality. Most farmers know their business pretty well. They use the best sires regardless of cost, and are refusing to sell their good mares. An inferior stallion will not get any trade here.

We must import the best, breed the best, and try to induce ethers to do likewise. When a person once uses a good stallion and sells the coli, he has his lesson; no more scrub stallions for him. Let all who have not tried this experiment do so, and so add your quota to the improvement of the horse industry, and at the same time, improve your bank account.

### Maple Products of First Quality

Andrew Reichardt, Dundas Co., Ont.

There is a profit in sugar making, but a man must make an article such as the market demands and will pay the good prices for if he would reap that profit. Pure maple syrup should be of a delicate, clean maple flavor, and be of a transparent amber color, free from the least trace of sediment. Then it will command the highest price. The market is never overstocked with such goods.

There is no use of us talking about the old time method of boiling sap in pots and pans Fuel and labor both are too expensive, besides you cannot make gilt edge goods in that

A Nine Months' Old Filly of a Kind Worth Owning

Foals of this sort are sure money makers and ever being sought after by men who want to buy. This filly was sired by "Macov" and in a class of 17 doals by this horse at the Wingham fall farl year was awarded second prize. She is now owned by Jno. E. Homuth, of Huron Co., Ont.

way since the process of boiling is too slow. tap 1,800 trees and they are good ones. With my outfit I can boil my sap in daylight, often turning out from 50 to 60 gallons of syrup in 12 hours. I have it arranged so that we handle the sap only once before it is in syrup. Three men can do all the work in connection with our camp quite easily.

#### TAPPING THE TREES

As scon as the weather begins to warm about the middle of March or a little later, I start to my sugar bush. I use a 7-16 inch bit and bore a hole about one inch deep. I find that a bore of that size will run as much sap as a larger Lore; at the same time it does not injure the tree as much and the smaller the bore the more quickly the tree will heal. I have used a great many different kinds of spouts but I prefer the No. 2 Grimm spout to others. They are made so as to seal the bore from the air and it will not dry after the first few runs are over. Then there are no flanges or projections to close the sap cells and injure the tree. I know by experience that they are better than the old metal

spout, for one spring I had half my bush tapped with metal spouts while the other half was tapped with Grimm spouts. Where the metal spouts were used the trees dried up and did not run any sap for 10 days while those tapped with Grimes spouts were running well.

LARGE STRAIGHT PAILS ARE BEST

I use a 10 quart pail made almost straight It will then stay on the hooks much better. I am convinced that it pays to use covers for the pails. I use a Champion evaporator 5 by 16 feet. I prefer it to any I have ever used or seen. In the Champion the cold sap is directly ever the hottest part of the fire, it is a shallow boiler, easy to operate, and the syphons and inter-changeable pans do away to a great extent with the lime or silica and it is thus easier to keep clean.

For gathering, I use a galvanized iron gather ing tank, which strains the sap through a double sieve just as it is gathered. I often put on this a cetton strainer in addition. This straining is one of the secrets in making first-class goods One must keep every particle of dirt out of the sap, and everything the sap comes in contact with should be made of tin. We boil the sap as fast as it leaves the tree and draw off the syrup from the evaporator every five minutes. An evaporator that you cannot draw the syrup out of every five minutes is not what it should be. Long continued boiling injures the quality of the goods. I also prefer to have the raw sap over the hottest part of the fire as the nearer done syrup gets the more liable it is to burn.

In marketing my syrup I put it up in cans to suit purchasers, and put on each can a neat label containing my name and guarantee of purity. This gives the purchaser confidence in my goods. The maple syrup maker to hold the best custom must equip his sugar camp with the most modern outfit and then do his best to make a better article with each succeeding year. I hold a gold medal diploma from the Louisiana Purchase Exposition, St. Lcuis, 1904, and yet I try to do better every year.

Our local Government should exempt all maple sugar orchards from taxation and thus encourage the maple industry as well as foster the preservation of the ferests. We maple sugar makers ought to have an association in Canada not only to protect ourselves but the public, also, who now use an adulterated article all too commonly; we know that a great many of the so-called maple flavored syrups have not a particle of maple about them.

MAPLE PRODUCERS SHOULD AWAKEN

Dairymen and stockmen have their associations and if it is good for them why not for us? It is time sugar makers awakened to protect their own interests and not allow a can of syrup to have the word "maple" on it that is not pure maple syrup.

But netwithstanding these handicaps, the production of maple syrup and sugar is rapidly growing into prominence in Canada and justly so. Sugar-making comes in a time of year when other farm work is not pressing, and the trees require practically no care. The maple sugar bush is essentially one of our great natural resources and when equipped with a modern outfit for making maple syrup and sugar it is a profitable asset. If we all would equip our sugar orchards with modern machinery the same as we do the rest of our farm we would find in the maple the best paying investment on the farm. The maple takes care of itself the year round, and there is no preparing ground, nor sowing, we simply require to step in and take the sweets; and as soon as we banish all adulterated stuff there will be an excellent market for every gallon of maple syrup that can be produced.

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March 9, 1911.

### THE SEVENTH PRIZE FARM IN THE PROVINCE OF ONTARIO

### Mr. J. R. Anderson's Farm Described by W. F. Stephen, who, alone with Mr. Simpson Rennie, Placed the Awards in the Second Year of the Dairy Farms Competition Conducted by Farm and Dairy.

HIS farm of 200 acres, owned and worked by Mr. Anderson, is situated in one of the most favored and fertile sections in Prince Edward County. The soil is clay loam and loam; some of it is underdrained. At each end of the farm there are a few acres of swamp, which when drained will make very productive land.

The production of milk is the main business of this farm, and from this source is the principal revenue derived. Mr. Anderson keeps no books. Judging from what we saw, however, there was a good revenue each year. The proceeds from the cheesery for the month of June amounted to \$339.74; being 871/2 cents a cwt. for 38,984 lbs. of milk, given by 36 cows. Mr. Anderson operates his dairy nearly all the year, and does something in buying and selling stock as well. He keeps on an average about 70 head of cattle most of the

In another place a short distance from the home farm were the heifers and a number of good stockers, many of which were ready for the block. Among the dairy cows were noticed many superior individuals, showing Holstein breeding. registered Holstein bull, and two pure bred females form the neucleus of a future Holstein herd. BUILDINGS

The buildings are quite complete. The large barn and stable are nicely painted, as are also the piggery, hennery, implement shed and combined ice house and milk stand. These buildings make an imposing and complete steading. This, to the thoughtful passer-by indicates that there is "something doing" on this farm.

Less wood in the make up of stalls and partitions in the cow stable would be an improvement. Light and ventilation is fairly adequate, although both could be improved at

stave silo and corn silage forms a large part of the ration for cattle on this

The conditions of the crops when we saw them indicated that the land was in a good state of cultivation. The crops comprised 10 acres of oats, 17 acres of barley and oats, 24 acres of ensilage corn, two acres of mangels, 114 acres of potatoes, and acres of orchard. There is also some land eeded to alfalfa, and a large acreage of meadow.

The oat crop was splendid where the land was underdrained; elsewhere the crop was only fair. The corn crop excepting a few weak spots, was good. The mangels were a fair crop.

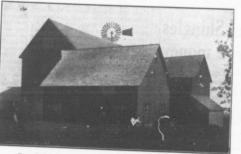
We noticed amongst the corn some sow thistles, which were being combatted with energy. This sow thistle is one of the most persistent perennials and requires constant watchfulness to keep it from getting established. If once it becomes rooted it requires persistent stirring of the surface of the soil to keep it from throwing its growth upward to get a breath of air. Like many other plants, the sow thistle requires plenty of air in order to propagate and flourish.

Silage and roots form the succulent part of the ration, alfalfa and clover hay the dry roughage. Oats and barley chop with some buckwheat added, together with bran, a little pea meal and oil cake go to make up the daily ration of the milking stock

The most complete ice house, milk stand and cooling device seen on any of the prize farms, was on this farm. It is situated at some distance from the stable. The milk cans are conveyed by a truck, which runs on a track built for the purpose, to the milkstand platform. The platform at the milk stand is covered to protect it from the rain, and is slatted on two sides to allow a free passage of air. Here the milk is cooled by sinking shotgun cans filled with broken ice into the large milk can. Nothing but pure air surrounds this milk stand; consequently the milk is always A1 in quality and flavor.

Swine are given considerable attention by Mr. Anderson. From four to six Yorkshire brood sows are kept, the offspring of which are reared, fed and marketed. The piggery, 30 x 50 feet, is divided into eight pens, with swinging partitions, so arranged that they form pens, and by swinging in, leave a passage way at the back by which the piggery may be readily cleaned. A raised floor in part of each pen, insures dry and comfortable sleeping quarters for the swine

About 100 Barred Rock hens furnish fresh eggs



Farm Buildings on a Prize-Winning Farm That Denote Prosperity could be improved at Farm suitenings on a Fire-Winning Farm in at Denote Flooperity slight cost, and would imCo., Ont., are here sheldings on Mr. Jas. E. Anderson's place in Prince Edward or prove the stable very ma. combined ice house and milk star Anderson's fine house, silo and stephen's description of this farm as given in the adjoining article.

Read Mr.

at all seasons, as well as fowl for table use and for

On the farm are 14 acres of orchard and an acre or so of vegetables and small fruits. In favorable apple seasons the orchard is a splendid source of revenue.

Here we found all the needful up-to-date implements required on such a farm, and they were in good order.

The water system is complete. From several good wells water is pumped by wind power to two large tanks over the stable. From these tanks the water is taken to the stables, to the milk platform, and to the house.

THE FARM HOUSE

The farm house, though not laid out according to the latest plans, presents a nice appearance, with its long verandah, fronting on a large, well kept lawn, with a few shade trees and beds of flowers. Hot and cold water (hard and soft) can be had in kitchen and bath room. The sanitation was quite complete, all the waste water and sewage being carried away to a cesspool some distance away. Nearly all the work on this farm is done by Mr. Anderson and his family, although some hired help is employed from time to time. Mr. Anderson has a most favorable section in

which to farm. A large measure of success has followed his efforts. He has made great strides towards perfection since entering in the Prize Farms Competitions as conducted by Farm and Dairy, but he realizes that there is much yet to be done before the goal of his ambition is reached, viz., that of first place in another Prize Farms Competition, (which, by the way, is being arranged for by Farm and Dairy).-W. F. S.

### A Shepherd's Duties at Lambing Time D. Innis, Victoria Co., N. B.

At lambing time the shepherd should be around often to keep an eye on the ewes and give assistance if required. But by all means, let nature do her work without interference, where possible. If lambs come early and in cold weather, there ought to be some preparation made for the ewes in a warmer place for a few days. Warmer quarters are necessary for a short time only. A lamb will stand quite a lot of cold after it is dried off and had a good drink of its mother's

If the ewes are not shorn of their wool before lambing, see that the bits of wool around their teats are clipped off so that the lambs can get at the teats readily. Dock the lambs' tails when eight or 10 days old. Shear the sheep as early as the weather will permit. Ten days after shearing, if there are ticks on the sheep, they will get on the lambs. Then I dip the lambs in Cooper's Dip. If the lambs have salt and sulphur where they can get at it at all times, they will not be infested with ticks.

FEED LAMBS SEPARATELY

In two or three weeks the lambs will commence to eat a little food. Fix a feeding place for the lambs where the ewes cannot go, and feed the lambs very fine clover hay, some oats and a little wheat bran. Be careful, however, in feeding the bran.

The ewes should have the run of a stubble field or scant pasture for a week or two after the lambs have been weaned. Care should be taken that their bags do not get spoiled. Heavy milkers are apt to be troubled in this way when the lambs are moved. When mating, put them into clover or rape. They should be in good condition before the ram goes with them. If the ewes are kept in good condition at the mating period, strong healthy lambs are assured.

To keep up the flock the ewes must be culled every fall. Old and poor milkers should be got rid of. Some of the best ewe lambs should be kept. Better still, some new blood may be introduced into the flock. Whatever may be your object in breeding, be sure and use a pure bred ram. You will then improve the flock and in a short time your ewes will be practically pure bred.

### Pointers for Corn Growers

E. D. Eddy, B.S.A., Seed Dept., Ottawa.

Secure seed that is acclimated. The best source is southwestern Ontario.

Secure varieties and strains true to type and adapted to your conditions. Avoid excessively large and late varieties.

Take every precaution against using seed of low vitality, and in making germination tests look for rapid growth as well as high percentage germination.

Insist on purchasing seed corn in the ear, and see that the ears are all of good quality and true to type and variety.

When practicable, purchase direct from the grower by the cooperative plan.

Place your order early so you will have plenty of time to examine your seed and test it before seeding.

Cleanliness is essential to quality in syrup .-C. A. Westover, Missiquoi Co., Que.

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How "Eastlake" Steel Shingles will save you money

Talk No. 1

### Quality

The Philosopher of Metal Town

Bank your dollars on quality. Inferior quality, whether in build-ing material or farm implements, is the source of constant worry and needless expense.

It's poor economy to save on first cost, and then-

Pay out two or three times the original cost in repairs, wasted time, inconvenience, etc.

In barn roofing much depends on quality-the safety of your crops, your implements and live stock. "Eastlake" Steel Shingles are an ab-

solute assurance of safety. They are made of the finest and tough-

est sheet steel, perfectly galvanized. The "Eastlake" workmanship is the best-careful inspection at each turn in the big "Metallic" shops guarantees perfection.

And perfection means satisfaction-a

roof that lasts a lifetime.
"Eastlake" Steel Shingles are highest quality, yet cost you no more than inferior roofing that requires replacing or repairing in a few years.

And an "Eastlake" roof means clean

rain water for household use.

Let us send you our illustrated booklet, "Eastlake Metallic Shingles." Write to-day-just your name and address on a postcard.

We also manufacture Corrugated Iron, Barn and House Siding, Eavetrough, Conductor Pipe, Ventilators, etc.

The Metallic Roofing Co.

Toronto - Winnipeg

## FARM MANAGEMENT or eight inches, tar paper and on inch lumber, with an air space with an air space and protected by a low red. To hold 500 bushels of potatoes and

Replace Seeder with Drill

Replace Seeder with Drill

I use a broad cast seeder, and have been thinking of getting a drill. Whates been thinking of getting a drill whates been thinking of getting a drill possess other takes it any, does a drill possess of the service of the service thinking to get the service the cover the oats after sowing thinking to rever the oats after sowing thinking to limit and for all kinds of land drill preferable to other kinds. Whates the control of the control o

### A Rotation for Alberta

A ROTATION FOR AIDERTA

I go in largely for hogs and want to know if you could give me a good rotation for a 160-are fam. Si acres broken, the rest to be broken time. I am anxious to get a rotation time. I am anxious to get a rotation anxious to get a rotation after amount of course of the result of the rotation and rotation autically for contract Alta.

As a rotation autically for some

Central Alta.

As a rotation suitable for your
work with pigs I would suggest: let
year, timethy: 2nd year, paper,
broken in July, worked all autumn,
and the plowing second time in autumn.
Apply rotted manure, or at least
manure fairly free from long straw;
3rd year, spring work manure in
3rd year, spring work manure in. manure fairly free from long straw; Srd year, spring work manure in, and grow mangels, potatoes or other hood crops; 4th year, barley; 5th year, barley; 5th year, barley; and oats; seed down for timothy. I would suggest that the pasture be used for swine as well as for horses and cattle. In this way it will be of greater use to yourself, and the land will be benefited.

As a nian for root-house and po-As a nian for root-house and

and the land will be benefited.
As a plain for root-house and potate house, I would succeed that the
walls be made of stone
that they go at least six feet
the surface of the soil, and that they
do not extend more than 18 inches
above the level of the ground. The
walls should be at least 10 inches thick
and the Luiding so placed thay it is waits should be at least 10 inches thick and the building so placed that it is easily possible to drain the bottom of the root cellar.

VENTILATING THE HOUSE VENTIATION THE HOUSE
Provision should be made for ventilation by having a tube leading
down on the outside of the wall,
with an opening through the wall,
mear the floor. If the root-house is
intended to hold more than 500 bushols two such according intended to hold more than 500 bush-els, two such openings each six by 10 inches in area should be provided for. Exits for warm air should be previded in the ceiling. The root-house might be roofed with cement, using steel girders to carry it, or with timbers covered over with soil, or with a common ceiling of one inch

To hold 500 bushels of potatoes and sa many roots would require a ser-house about 25 ft. long, 20 ft. with and eight feet high. Such a reshouse would hold en a pinch 2 serious would hold en a pinch 2 serious would be more satisfactory as a root he as for 1,500 to 1,800 bushels.—J.H. 6.

Facts about Silos Considered

In selecting a silo, there are a g ear be perfectly preserved, the sile be rigid and air tight. In order th be rigid and air tight. In order that the labor of feeding may be reduced to a minimum, the silo should be placed a minimum, the silo should be placed as near the feeding alley as is jos sible. Nothing but a round silo should be put up, as it is practically impossible to construct square or octage silos with rigid walls, and as the silage does not settle well in the corner there will always be a large amount of should silage.

In deciding upon the size of side which you wish, the first things to be taken into consideration are the number of cows to be fed and length of time you wish to feed them on sil age. As silage should not constitute age. As silage should not construe all the roughage fed, not more than 35 to 40 pounds a cow per day should be fed. The length of time which all age is to be fed will vary from 150 in 200 days—about from the middle of October until the first of May. Each cow will then require 200 x 40 pounds or four tans of silver. cow will then require 200 x 40 pounds or 8,000 pounds, or four tons of silage a year. A herd of 10 cows will require a silo holding 40 tons; a herd of 15 cows, 60 tons; a herd of 50 cows, 200

Where young stock is to be fed, allowance should of course be made for

### Importance of Early Sowing

Frere Chrystotele of Notre Dame de Free Chrystotele of Notre Dame de Levis, Quebec, one of the corps of crop correspondents, when sending in his December report, for the census and statistics menthly, wrote as follows:

"Many farmers, whether ground be ready or not, do not ground be ready or not, do not so their spring grain until a given date. This is wrong. One cannot too much impress upon farmers that the should sow as soen as the land is ready. This is what we do. Exper-ence has taught us that grain, which remains lange undergraund weight longer underground weigh remains longer underground weighs more than that which is in the earth for a less time, both having the sume conditions of favorable weather from seed time to harrest one year we sowed cats on April 26; it weighed 30 lb. to the bushel whilst that sown om May 15 of the same year, which ripened for or five days later than the order, only weighed 32 lbs. to the bushel,"

In this connection we may recall the In this connection we may recall the carly sowing experiments, carried on at the Central Experimental Farne at Ottawa during the 10 years 1800-1850. The average of these experiments showed that a delay of one week after showed that a delay of one week after the earliest time practicable for sow-ing entailed a loss of over 30 per cent two weeks of 40 per cent, and three weeks of 56 per cent, of the crop in the case of wheat.

A Winner of Two.—'I recently re-ceived a pair of bred Yorkshire sows sent me by Farm and Dairy for secursent me by Farm and Dairy for accuring two clubs each of nine new yearly subscribers to that paper. The pus were beauties and a credit to the breeders, Mr. J. E. Brethour of Burford, Ont., and Mr. W. F. Disney of Greenwood, Ont.

"I feel amply repealed for my work in securing the new subscribers and tonder my thanks to Farm and Dairy for such valuable premiums."—A. E. Juley, Peterboro Co., Ont.





Agents Wanted in Some Sections

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arch 9, 1911

as a roct he s Considered there are a g taken into that the silve that the In order the ay be reduced should be place should be place alley as is pos-cound silo should actically impos-are or octagor and as the silage

in the corner first things to ration are the fed and length ed them on sil not constitut per day should ry from 150 of May. Each of May. Each of May. Each of x 40 pounds of silage was will require a herd of 15 a herd of 15 f 50 cows, 200

te be fed, al.

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that the land Exper grain, whie in the earth veather from t weighed 3 , which rip lbs. to the

ay recall the carried on tal Farrient rs 1890-1800 experiments week after ble for sow-30 per ce and three the crop in

kshire sows y for secur-new yearly The pigs dit to the Disney of

my work in rs and ton-l Dairy for "-A. E.

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A Great Combination Cow Feed

J. H. Grisdale, Dominion Agriculturist
We supplement our corn with clover hay. We grow about 50 acres of hay every year about 50 acres of hay every year about 50 acres of hay every year about 50 acres of his property. The supplement that mixture as 200 tons. Lut we expect it to give as 200 tons. Lut we expect year we had 225 tons. Lut we expect that mixture of the corn ensilage and clover with turn of corn ensilage and clover with that will be at that combination; bran as a basis, 600 pounds, oats about 100 pounds, gluten meal about 200 peunds and oil meal. 100 pounds, and oil meal. 100 pounds and oil neal. 100 pounds are supplied to the clover of the clove

is that it is the most palatable food you can give.

There is no meal food that will be se acceptable under all conditions to the cow as a little ground oats. I have seen what might be considered a very seen what night be considered a very poor ration, giving good results properly ration, giving good results properly ration, giving good results properly results and results properly results and resu

Ration for Fattening Steer

Ration for Fattening Steer

I have a large bin of Swede turnips, red
clover, ground oats barley and buckedward, ground oats barley and buckedward, ground oats barley and buckedward of coarse straw. What combination of
coarse straw. What combination of
red oatse straw, what combination of
red oatse straw, what time they be
feel to steers and at what time they be
set gain from now until spring.

With the feeds mentioned, I would
suggest the following ration as likely
to give the best results: Swede turnips (pulped) 40 to 70 lbs., according
to size of steers; wheat chaff, sprinkled on roots, 5 lbs.; clover hay (according to size of steers) 6 to 10 lbs. Meal
mixture: corn, 100 lbs.; oil cake meal,
year, and the strain of the strain

P. 20 lbs.; buckwheat, 200 lbs.; barP. 20 lbs.; buckwheat, 200 lbs.; barpend upon unt of meal to feed will depend upon until of meal to feed when
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to make any very striking change in the meal raticin nor in the roughage either for that matter. Supposing the steers to have been getting three or four lbs. of meal a day, then I would suggest giving them four or five lbs. of the new meal ration Increase from laif lb to one lb. a day each at the same of a week or 10 days. Watch is the lower of the lower of the lower coming of each and slack up at once on the whole if more than one shows signs of both in the lower of the weeks change the proportions of the meal by doubling the corn meal and a fortnight later change again by doubling the quantity of oil cake meal.

Feed half the roots in the merning.

The Feeders' Corner

The Feeders' Corner is for the use of our subscribers. Any interested are insulface to ask questions, or send items of our subscribers. Any interested are insulface to ask questions, or send items of the mean individual of the subscribers of the steers comfortable by giving in the steers comfortable by giving and circuit. Allow steers are the steers comfortable by giving and circuit. Allow steers are the steers comfortable by giving the steers comfortable by giving and circuit steers. Allow steers the steers comfortable by giving the steers comf

generally speaking two meals a day is the best plan.—J.H.G.

Suggestion on Calf Feeding

Suggestion on Calf Feeding
Can I improve on the following ration
for calves. I am feeding first sing ration
ing clover hay, next about three quarts
ing clover hay, next about three quarts
and the single si

P.E.I.
The ration described seems to me about as good as could be devised with the fellowing possible improvements: Some of the grain might be fed whole, say the oats, part of the meal ration and part of the peas. The quantity of roots might be increased. The oil cake meal might be replaced to the extent of about half the quantity fed with ecrn meal. Straw is to expensive a feed for calves. It takes too might be considered to the constitution of the same age.—

J.H.G.

Our Veterinary Adviser

ABORTION-Cow aborted to weeks ago and gives little milk. She would have been due to calve in March will be seen to the calve in March 17 in the calve in the calv

to full term next time; but there is, of course, a danger of her again aborting. As the conditions are, as you state, it would certainly be safer to sell her for beef and buy a fresh

CRIPPLED PIGS—What causes pigs to get sufficient and pigs four and a half months old in the pigs four and a half months old in the pigs four and a half months of the pigs of

STRING HALT.—I have a mater series of that occasionally the behind feet with the consistency of the construction of the constr

We like Farm and Dairy very much, and would not be without it. —M. Carlyle, Cumberland Co., N.S.

To settle all doubt about which out throw harrow has the greatest capacity and lightest draft we ask you to test the "Bissell" Out Throw you to test the "Bissell" Out Throw hard hardwine a field competition with other out throw harrows. We know the "Bissell" will outclass the field, because it is so designed that the hitch is well back, the seat projects over the frame, and the arch is directly over the gangs. This construction removes all neck weight—statute of the provided by the property of the property of the provided by the enables horses to do more work. And because one gang is set slightly ahead of the other, the gangs can-not crowd or bump together. The

Test The "Bissell" in Field Competition with other **Out Throws** 



"Bissell" Out Throw works fast and does clean work. Like the famous "Bissell" in Throw, it al ways wins in field trials. We take take Out Throws and in Throws with two levers for hilly work, and in 16 plate wide cut styles for the West. Sent to Dept. R., for "Bissell" Harrow booklet. Remember, it isn't a genuine "Bissell" unless the "Bissell" name is stampade on the harrow.

name is stamped on the harrow.

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Half a million acres best selected lands in the Canadian North-

Special excursion in the spring to see these lands. Write now for particulars as to prices and location.

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A Few Good Agents Wanted



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You should You cannot separator before others. You should not you investigate all separate before others. You should not you investigate all separate be impressed with 1 H C skims, how much closer the I H C skims, how much easier it is to clean, and how much easier it is to clean, and how much easier it is to the constant of th

afford to buy any comparing it with

### IHC Cream Harvesters

IHC Service Bureau The Bureau is a clearing house of data. It aims to learn the best

ways of doing things on the things on the farm, and then farm, and then distribute the in-formation. Your individual exper-ience may help others. Send your problems to the I H C Service Bureau.

rable to mention the name of this publication when writing to advertisers

Ernest Robertson, Morrisburg, Ont.
A good orchard and one giving good results means lets of work, but there is good money in it. Last year was our off year. We cleared, however, we got A good orenard and one giving last year was the first year that we good results means lets of work, but really gave spraying a proper test. there is good money in it. Lass year We used two different kinds of was our off year. We cleared, how-ever, over \$000, but of course we got part of the orchard and Bordeaux a good price for cur apples. We have on the rest. We had good results

HORTICULTURE

HORTICULTURE

Some proper with Spraying Mix
Experience with Spraying Mix
tures

Ernest Robertson, Morrisburg, Ont.

Mortisburg, Ont.

Mort many years to a certain extent, but last year was the first year that we

from both, but we like lime-sulphur. In other years we have sprayed at the different times, but never used enough mixer to have very much effect. Three to the properties of mixture at one time was part to 20 parts of mixer turn at one time was part to 20 parts of the properties. Some years also seem to spot more than others, as goo our applies packed about two bbs. No. 2 to one of No. 1. Last year they are 75 per cent. No. 12. The difference was principally due to spraying.

spraying.
Our orchard is very badly in need
of pruning, and we find from the
interpretation of pruning that we have done that
it pays. You obtain larger apples
and of better quality. We were slack
and of better quality. and of better quality. We were slack of help last season and did not get as much done as we would like, but intend in the spring to do a lot of it. We know it will be money ahead.

### The Western Market for Ontario Fruit

Robt. Thompson Co., Ont.
A few of our growers have shipped fruit to Winnipeg and west for 20 years, I may interest Farm and Dairy readers to learn a little of our experience and to receive an opin-comparate to the state of the comparate to the same than the comparate of the com



### A Broken Down Tree Repaired

To have all the main branches broker from a tree does not mean that its use fulness is at an end. By top grafting, a shown in the illustration, the tree will be again producing fruit in a comparatively short time. Photo by Prof. J. W. Crow.

possibly seven or eight in a season, and that with varying success; some seasons we did well and occasionally we lost a car completely. About eight years age we had become almost dis-couraged. A number of our members decided the next season to make ano-ther effort, and work more in the line decided the next season to make another effort and work more in the line of special packing. They shipped a few cars the first season. The principal fruits were tomatoes, pears, apples and grapes, with a few peaches. Each season we have been more es. Each season we have been more apples and grapes, with a few peachess. Each season we have Leem mere
successful and have increased our
ahipments from year to year until
this past year we sent from the Cold
Storage and Forwarding Co., 183 car
loads by freight alone to points as
loads by freight alone to points as
Lethbridge, with good success, very
few complaints being received as to
few complaints being received as to
fear arriving in anything but the cars arriving in anything but the best condition. The assortment in the cars has multiplied until now we with asparagus, commence commence with asparagus, straw-berries, currants, gooseberries, and cherries for the first cars followed by the old standards as well as peaches, plums, and many vegetables. ADVANTAGEOUS FREIGHT RATES NEEDED

ADVANTAGEOUS PRESIGHT RATES NEEDED
We feel from our experience of the
past four years that if the special
freight rates could be extended to
points west and north of Brandon, that our cutput could be more than doubled with advantage to the con-sumers in the west and to our grow-ers. With the experience gained we are sending almost everything by

freight reaching Winnipeg on the fifth day in good condition.

We pre-cocl all cars containing the soft fruits. The great drawbook

The great drawback ss is that inexperienced shipp rs success is that inexperienced shipp rs without pre-cooling and icinig facilities start in to ship with no experience in loading cars and their car arrive in bad order in most case and are a drug on the market. They also break the market for the good and are a drug on the market. They also break the market for the god fruit. The wester market has included in the more stable that them more stable that years. Those who would ship the years. Those who would ship the years will be a successfully must secure about the pring facilities and be careful as the packing of the fruit in proper packages.

packages.

There is just one cleud on the
western horizon. If free trade were
given to the Americana fruits they
would rush in their surplus at times
that would demoralise market
and our Canadian growers and our Canadian
such times not obtain more
that the control of the control of the control
freight charges, and as a consequence
have te discontinue shipping. The have to discontinue shipping. The trade would again drift as of old in-to the hands of the American com-bine dealers and they would demand a 30 per cent. and even 60 per cent profit

profit.

At present the bulk of our fruit is shipped direct to the retailer. There shipped direct to the retailer. There is a growing demand for box packed fruits and fancy packages, these in many cases bringing deuble the price many cases bringing deuble the price of inferior packing. There is room to the west face all of an autumnt, for of inferior packing. There is room in the west for all of our output for some years to come



### CANADIAN AIRMOTOR

Is the only Free POWER

BUILT TO STAND

Storms, Wear, Tear and Time

Will work summer and winter all the year round. NEVER KICKS OR QUITS

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Downhem's Strawberry and Pheasant Farm SFRATROY - ONTARIO

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SETTLER

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Intario.

The soil is rich and productive and overed with valuable timber.

For full information regarding omestead regulations, and special comments of the c colonization rates to settlers, write

The Director of Colonization Department of Agriculture, **TORONTO** 

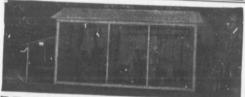


### BRUCE'S BIG FOUR FIELD ROOT SPECIALTIES

BRUCE'S GIANT WHITE FEEDING BEET.—The most valuable Field Root on the market, combines the rich qualities of the sugar Beet with the long on the market, combines the rich qualities of the sugar Beet with the long the company of the long of the lo

FREE \_Our handsomely illustrated 104-page estalogue of Vegetable, Farm and Flower Seeds, Flants, albs, Poultry Supplies, Garden Implements, etc., for 1911. Send for it.

John A. Bruce & Co., Ltd., Hamilton, Ont.



### Multiply Your Profits With This Proved Farm Power

"OU have invested a certain amount of money in your farm ma-To make that investment pay dividends, these machines must be operated at highest efficiency and the least possible cost.

Years of splendid service have shown that the most efficient operator of farm machines is an

### I H C GASOLINE ENGINE

All I H C engines are conservatively rated—each engine easily developing 10 to 30 per cent more than its listed horse power. The I H C is simple—its parts few and strong. easy to clean and keep in good condition, and gives it lasting qualities not

I H C Gasoline Engines are built in all styles and sizes, I to 45-H.P., verti-I H C Service Bureau cal and horizontal-stationary, portable, or tractor.

of tractor,

No matter what work you want done there is an I H C to do it. See the I H C local dealer and pick out the engine you need. Get it to work saving you time and money and insereasing your production. If you prefer, write for catalogue and full information to nearest beanch house.

International Harvester Company of America USA

The purpose of this Bureau is to furnish

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W eggs keep 36 broo

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FOR SA TWO CEL HARDWe SILVER good l pullets 500 egg 1911. J

WANTED us in sheds o Send fo particul treal. PURE BR in return Farm an subscribe bred sta

Manager

POR SALE Rails, Oh etc., all s stating Waste at THERE IS for Dairy the South

Agricultu the South vantages in milder greater v market." for sale i mountains the year ville is 1 criptive b receiville. innipeg on the dition s containing the rienced shipp rs with no experi-and their cars in most cases market. They

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brooder, we prefer the round Universal Hoover set right in the colony house. The temperature in the hover when the chickens are put in should be 75 de-grees. This temgrees. This temperature is held for three or four days and then reduced gr a du ally. The chickens should get plenty of fresh air. We clean out the brooder every merning without fail, putting in fresh material', Grit abould be.

material;
The Universal Heuse Accommodaties for 50 Chicks
The yoke of the edge
first to the chicken.
The yoke of the edge
is in the body of
the newly hatched
chicken. This explains why they do not want focd for
two or three days after hatching, and
it also explains why grit should be
given them immediately. Without
grit, the yoke cannot be worked up.

The Universal Heuse Accommodaties for 50 Chicks
One of the most satisfactory means of artificially
sufficient in a flower of the brood.

The Universal Heuse Accommodaties for 50 Chicks
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AUCTION SALE OF FIFTEEN IMPORTED CLYDESDALE FILLIES



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They are by Baron's
This is a rare
Cup. This is a r

D. McEACHRAN

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

HARDWOOD ASHES-Best fertilizer in use. George Stevens, Peterboro, Ont.

SILVER GREY DURKING EGGS from good laying strain, \$1.00 for 15. 30 good laying strain, \$1.00 for 15. 30 good laying strain breed laid over 500 eggs from Dec. 12th to Jan 11th, 1911. Jan \$1000 to 1000 to 100 WANTED—Persons to grow mushrooms for us in waste space in gardens, yards, sheds or cellars, \$15 to \$30 per week, Send for illiustrated booklet and full particulars.—Montreal Supply Co., Mon-treal.

PURE BRED FOWLS GIVEN AWAY FREE in return for new yearly subscriptions to Farm and Dairy. A clin subscribers will bring you a pair of pure-bred standard fowls. Well-Urculation Manager, Farm and Dairy, Peterboro, Ont.

FOR SALE—Iron Pipe, Pulleys, Beiting, Rails, Chain Wire Fencing, Iron Posta, etc., all sizes, very cheep. Send for its, etating wha. you want. The Imperial Waste and Metal Co., Dept. F.D. Queen street, Montreal

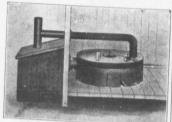
street, Montreal
THERE IS AN ENORHOUS DEMAND
for Dairy and Stook farms products in
the South. The U.S. Garms products in
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the Southern Dairymen will have some
difficulties that are not found in the
Northern sections he aiso has many adNorthern sections he aiso has many admarket. We have a lage list of farms
for sale in the rich Piedmont section
at \$10.00 to \$75.00 per acre. Foot of
montrials, no malaris, out door work
multiple of the Company of the Company
will be a section of

POULTRY YARD

The poultry YARD

Brooding and Feeding Chickens

W. H. Elford, Peterboro Co., Ont.
A brooder is a necessity where the eggs are hatched artificially. We keep chickens in the incubator 2t to 36 heurs and then transfer to the brooder. For a manner of the product of



Considerations in Marketing

"I have just purchased 41 turkeys from a lady who refined to sell them to me for three cents more per pound three months ago," said an extensive poultry dealer to an editor a farmand Dairy recently. "Some Farm and Dairy recently. "Some a slight advance in price. The labor and feed which are necessary to carry poultry over are not considered.

"Consider the case of this lady. The "Consider the case of this lady. The her weighed 225 pounds. We purchased them be a standard them has tall was 16 cents a but had a straight loss here of \$15.75. I addition these turkeys must have eighed 26 lbs. less than they did last fil. This at 16 cents a pound is \$4.60. The last free held would seat \$5.00. The last frees held in word and the cents a pound is \$4.60. The last frees held in the seat a pound \$5.00. The last frees held in the seat a pound \$5.00. The last frees held in the seat a pound \$5.00. The last frees held in the seat a pound \$5.00. The last frees held in the seat a pound \$5.00. The last frees held in the seat a pound \$5.00. The last frees held in the seat a pound \$5.00. The last frees held in the seat a pound \$5.00. The last frees held in the seat a pound \$5.00. The last frees held in the seat a pound \$5.00. The last frees held in the seat a pound \$5.00. The last frees held in the seat a pound \$5.00. The last frees held in the seat a pound \$5.00. The last frees held in the seat a pound \$5.00. The last frees held in the seat a pound \$5.00. The last frees held in the seat a pound \$5.00. T than they did last fall. This at 16 cents a pound is \$4.0. To feed these 41 turkeys for three months would cost \$30. The loss from both would cost \$30. The loss from turkeys over in hope of building the turkeys over in hope of higher market was \$40.75 and than or thrown in. It does not always to hold over poultry in the hope of two or three cents more per pound."

Poultry and Eggs

Poultry and Eggs

Poultrying in Canada has dropped off. We market only about \$25,000, off. We market only about \$25,000, off. We market only about \$25,000, off. We market only off. We market only off. We have done on the head of the h

Meanwhile, nobody thinks of blam Meanwhile, nobody thinks of blaming the Canadian hon. She runs up her capacity. Her briumphs in season are frequent and proud as the cacking shews. Staff pay 100 per cent, her first laying rar. But one hen cannot do more than the hen's work, no matter how she work is a matter beauth of a nation's strength but on her products, we must all but interested in the clostacles that come between the egg and the ultimate consumer.—Collier's

### BOLITEV VADO Chicke die, obles onsus and the He will probably find his remedy in co-operative marketing. Stallions for Sale

The winners of all Firsts, Sweepstakes and Medals at Toronto and Ottawa Fairs. Prices below all competitors, quality and breeding considered. Terms to suit the

Come to the Home of the Prize Winners

JOHN HAWTHORNE SIMCOE ONTARIO

**GUNNS** 

## **Prairie State Incubators**

Get the Most Chix

because they come closer than any other incubator to matching Nature's own conditions. The hen sitting on the ground is still, on a small scale, the most successful hatcher. But she can't hatch 20 or 30 dozen eggs at a time, and she won't hatch the at the right season to make whiter layers or cockerels that are ready for market at off seasons, when prices are highest.

The most successful Canadian poultry raisers therefore use the "Prairie State" Incubator because it practically equals, on a great big scale, the hen's success with her little setting.

Guns Prairie State Incubators are built not so much to sell, as to hatch chicks. Note that. We are making incubators and marketing them at rock-bottom prices simply because they will help in our campaign for "More and better eggs and poultry"—not because we want to make profits out of incubations.

Gunns Prairie State Incubators are honestly made in our own factory at Ste. Therese, P.Q.—the finest wood-working factory in the Dominion. No poor material or filmsy construction is tolerated, for we have a reputation for 40 years of square dealing at stake.

They are designed so that the heat is distributed evenly to every egg in There are no cold or hot spots.

the tray. There are no cold or hot spots.

The correct temperature is maintained, within a fraction of a degree, whether the temperature outside the incubator be zero or 80 degrees.

The moistened sand tray gives an absolutely even and easily regulated supply of moisture to every egg. This prevents drying up the eggs, and brings out big, strong, healthy chicks.

An even supply of fresh air, free from lamp fumes, is provided, greatly reasing both the hatch and the vitality of the chicks.

Thus Gunns Prairie State Incubator supplies so perfectly the conditions of natural hatching that it not only brings out a very high proportion of chicks, but the chicks live. When

### GUNNS UNIVERSAL HOVERS

are used for brooding, results are even better than those secured by natural methods. These Hovers enable you to raise chicks successfully at any season and in any numbers. Gunns Combination Colony House Brooders make the most convenient, practical equipment known.

PRAIRIE STATE INCUBATOR

most convenient, practical e Write for our book on Practical Poultry Raising. It ells all about the "Prairie State" line, and 'Prairie State" line, and profit by common sense methods that have proved methods that have proved auccessful. Meantime, note these prices:

GUNNS Prairie State Incubator No. 0.—100 hen eggs—\$18.00 No. 1.—150 " "— 22.50 No. 2.—240 " "— 32.00 No. 3.—390 " "— 38.00

Universal Hover

GUNNS With lamp, lamp case and smoke conductor \$7.00 GUNN, LANGLOIS & CO., LIMITED, 238 ST. PAUL STREET. MONTREAL. "Gunne Prairie State Incubator Gets Chix."



It is profitable to convers small or large amounts of skim-milk into dry Casein Write for our proposition and tate amount of milk you have daily in flush seaons The Casein Mfg. Co.

ELM GROVE POULTRY FARM

POB SALE — Good Cockerels. Single Comb Black Minoreas, S. C. White Leghorns,
Bose Comb Brown Leghorns and Rouen Du-ks. J. H. RUTHERFORD, Box 42. Long Distance Phone. CALEDON RAST, ONTARIO.

### ANENT RECIPROCITY

The United States Senate, the term of which expired at noon on Saturday last, failed to reach a vote on the proposed reciprocity compact. President Paft called an extra session of the Senate to consider the matter. The possibilities of the measure passing under the new Senate are said to be brighter than they could possibly have been

with the old Senate. The extra session will be called on April 4th.

Practically the only logical criticism that has yet been offered against the that has yet been offered against the reciprocity agreement was made in the Heuse last week by Hon. Clifford Sifton, who for 23 years has represented Brandon in the Liberal interests and who for nine years was Minister of the Interior. The sentiact expressed by Hon. Clifford Sifton are directly opposed to the views held by his constituents.

The Grain Growers Association in Manitoba through their executive re-pudiated the statements in Hcn. Clifford Sifton's speech in the House Clifford Sifton's speech in the House that the grain-growers oppose con-procity. They further declared for the ratification of the reciprocity reement, complete abolition of all and isso on agricultural machinery, and the increase of the British preference to 50 per cent. on the general tariff.

Senator Cox uttered last week some Senator Cox uttered last week some very plain words about the self-announced spokesman (the financial interests of the country of the financial interests of the country of the sout and out for the proposed reciprocity measures and states that for measures and states that for the farmers of Canada supply the bulk of the money in the banks and it will be woted, its vote would be voted, its vote would be polled for the surrement. polled for the agreement.

Hon. Duncan Marshall, Minister of Agriculture for Alberta, stated last week that the farmers of Alberta are

agriculture for alberta, salved maagriculture for a Alberta are
delighted with the prospect of free
trade with the United States. It will
give them a wider market.

"Protection," said Mr. Marshall,
"has not helped the manufacturers
as much as they imagined. It has
been the Lringing under cultivation
of much more land than for more more for the prices have
bught freely, hence the prosperity
in the east. Neither will the reciprocity agreement affect the manufacturers in the main."

The House of Commons was assured The House of Cemmons was assured last week by Mr. Carvell that it is the practically unanimous wish of the electorate of the Maritime Provinces, Conservatives as well as Liberals, for freer access to the United States martikage, the constitution of the Control freer access to the United States mar-kets in natural products. Mr. Carrell pointed out that his own constituency ran for 50 miles along the border line. "In my riding," said he follow ing the last few years, hundred farmers have gone over to the American production of the constituence of the constituence of the con-farmers have gone over to the American state of the confarmers have gone over to the American side, scarcely a stone's throw away. It was not because the land was more fertile or productive. It was because they were hampered by the tariff, and because they sought free access to the larger market.

It has become apparent that from the agitation on the part of the

Grange of the United States, the United States may admit free meat and flour from Canada without re-quiring Canada to remove the duties n these products. Treatment of Oats for Smut

Ireatment of Oats for Smut prepare a solution as follows: Mix one pound of solution and the solution with 40 or 50 gallons of water cured at a drug stere. After the seed the solution until spread them out on a clean floor and spread them out on a clean floor and spread them out on a clean floor and pennishe them with the solution until spread them with a shovel until all have been well dampened. Then shevel them been well dampened. Then shevel them been well dampened them to three hours sacks or carpets for two or three hours sacks or carpets for two or three hours. sacks or carpets for two or three hours. The oats should then be scattered and urned from time to time until dry As soon as dry, the oats are ready

As soon as dry, the oats are ready for seeding at once or they may be left for weeks until they can be used. Formalin solution is poisconus in considerable quantities but as recom-mended, is very weak. It will not in-jure the hands and is perfectly safe to handle.

What Ontario Counties Excel in

Editor, Farm and Dairy,—From Crop Bulletin, 106, of the Ontario De-partment of Agriculture, I have fig-ured out the counties in which each crop is grown to the greatest extent and in the largest quantities per acre and present the results bright. The county that produced the request quantity of fall wheat last greatest quantity of fall wheat last greatest quantity of spring wheat, Renfree, barley, Simcoe; oats, Huron; peas, Bruce; beans, Kent; rye, Northumberland; buckwheat Northumberland corn. Essex: corn for silo. Oxford. crop is grown to the greatest extent berland; buckwheat Northumberland corn Essex; corn for size (Voltret, 1988) (V land; small fruits, Halton; vineyards, Lincoln; garden acres, Middlesex, catborses, Simcoe; cows, Middlesex, cattle, beef, Grey; hogs, Essex; turkeys, Middlesex; geses,
Essex; turkeys, Middlesex; geses,
Grey; ducks, Huron; dischemental description of the control of the co

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The counties in which highest yields acre in various crops, were as pollows, fall wheat, Perth; spring wheat, Rainv River; barley, Perth cate, perth; persengues, Rainv River; barley, Perth cate, perth; persengues, Perth; under the persengues, Petropor, mixed grains, Perth hay, Storment; sugar bests, Durham La, Storment; sugar bests, Durham J. S. Orr, Middlesex Co.

Farm and Dairy's Proposal to hold Farm and Dairy's Proposal to hold another prize Dairy Farms Compete tion this year and next throughout Ontario and part of Quebec was endorsed recently by Marchael Priectors of the Eastern Ontario Dairy Dairy Convention in Perth. The annual convention in Perth. The Manual Gap and Gap of Manilla. and Gap and Gap of Manilla. and Gap and Gap and Charles Dairy Prize D tion reappointed Messrs. Henry Glendinning, of Manilla, and Geo. A Gillespie, of Peterbore, to act on the committee that will have charge of the competition and will pay their expenses while attending meetings. It was decided also to give \$150 towards the expenses of the competition.

Five thousand people visited the Five thousand people visited the good farming special train running over the lines of the Michigan Central last week. At one place as many as 1,200 ever in attendance. Mr. Putnam and all connected with this new venture in agricultural education are well pleased with its success.



### 60,000 Feet of Amatite Roofing

The accompanying view shows a series of buildings at the Saska-toon Exposition, all of them cover-ed with Amatite Roofing.

Amatite was selected because it Amatte was selected because it was inexpensive, easy to put on, required no care or attention or expense afterwards, and would give excellent durability.

give excellent durability.

If ordinary smooth roofing had been used, these roofs would require painting every year or two at considerable expense and trouble. Amatite, however, has a mineral surface which requires no painting.

Use Amatite for every roof where you want to save expense. It is the most economical solution of the whole roofing problem.

Amatite Roofing requires no skilled labor to apply; it costs no more, (in fact much less) than other roofings; and the fact that it requires no painting makes the total expense far below that of any other type of roof covering.

You can use Amatite for every kind of steep roofed building. We supply galvanized nails and liquid cement for the laps free of charge. Send for free sample and book-let. Address our nearest office.

The PATERSON MANUFACTURING CO., LIMITED

real, Toronto, Winnipeg, Vanc St. John, N.B., Halifax, N.S.

You can only buy one manure spre-

At least one-third lighter draft Genuine

Manure Spreader

Reversible, Self-Sharpening, Graded Flatthe Keversible, Seit-Sharpening, Graded Flat-Tooth Cylinder—and that is the Genuine Kemp, Because of this Graded Flat-Tooth Cylinder the Genuine Kemp is at least one-third lighter

the Genuine Kemp is at least one-third lighter draft than any other spreader. There is less friction on the Flat-Tooth Cylinder, because the teeth are wide and graded. On that account only one-third as many teeth are required, which reduces the friction when the manure is passing through the cylinder.

The square or round teeth on ordinary cylinders are not wide enough apart and the manure backs up, chokes cylinder, causing heavy draft

The manure cannot back up against the flat eth, and because the flat teeth are graded they teeth, and because the nat teeth are graded they will handle and thoroughly pulverize all kinds of manure from the clear gum to the strawy

There are many other exclusive improvements on the Genuine Kemp. Our big catalog describes and illustrates them fully. Send for a copy and learn some new facts about manure spreaders.

There would be twenty times as many manure apreaders in use in Canada today if farmers realized spreaders in use in Canada today if farmers realized with the Genuine Kemp will pay for itself faster than any other farm machine.

But send to us for catalog D. That's your first op. We are sole selling agents.

FROST & WOOD CO., LTD. SMITH'S FALLS, CANADA

### United States, the nay admit free meat Canada without reto remove the duties

### of Oats for Smut

for smut prepare vs: Mix one pound of nalin, 40 per cent. or 50 gallons of water formalin can be se-stere. After the seed thoroughly fanned, on a clean floor and th the solution until' pack in the hand, shovel until all have ed. Then shevel them r two or three hours nen be scattered and to time until dry to time until dry.
ee oats are ready for
r they may be left
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on is poiscnous in
cities but as recomcities but as recomcak. It will not in
id is perfectly safe

Counties Excel in

and Dairy,—From of the Ontario De-ulture, I have fig-ties in which each the greatest extent quantities per acre ults herewith. The iced the greatest heat last year was wheat, Renfrew; ts, Huron; peas, t; rye, Northum-Northumberland

for for silo, Oxford arrots, Lambton turnips, Welling-Wellington; hay, Kent; nt; pasture Northumber Ialton; vineyards cres, Middlesex cres, Middlesex, cat-teep, Grey; hogs,

icep, Grey; hogs, fiddlesex; geese, aron; chickens, sold, Huron; sex; sheep sold, ex; poultry sold, l, Grey.

crops, were as
Perth; spring
barley, Perth;
Russell; beans, as; buckwheat. cern for si atoes, Sudbury els, Perth; tur-d grains, Perth beets, Durham x Co.

roposal to hold Farms Competi-ext throughout Quebec was en-ne Directors of Dairymen's As-The Associa-s. Henry Glenand Geo. to act on the ave charge of will pay their

ng meetings. It e \$150 towards npetition. e visited the Michigan Cenplace as many indance. Mr. eted with this altural educawith its suc-

\*\*\*\*\*\*\*\*\* APICULTURE nassassassassassassassassas g

March 9, 1911.

### To Control Swarming

Morley Pettit, Provincial Apiarist There are three great problems in bee-management in this country, viz: brood diseases, wintering and swarm control. While the first two are very bee-management in this country, viz: brood diesease, wintering and swarm control. While the first two are very real, the swarming problem comes home to every beckper whether he realizes it or not. First two are very real, the swarming impulse the swarming impulse the first of the swarming impulse the swarming impulse it of the velop the swarming impulse it left to themseives. If he cannot control that impulse to swarm, the bee-keeper must either spend a great deal of time watching for and hiving swarms, or see lose eneugh swarms to take the short of the swarming is more than their order to say in the swarming is more than their order to say in the swarming is more than their order to swarming in the swarming is the swarming in controlling the swarming the speriments in controlling the swarming the speriments in controlling the swarming the swarming is speriments in controlling the swarming the called full reports last season. The average numer of last season. The average numer of last season in the velocious which these experiments in swarming is a wear of 0.8 colonies.

med in experimental groups was 11.7. Each group according to instructions was average of the second of the second

reducing it from 38 per cent. to 18 per cent.

As a result of this control of swarming and the extra attention given to the colonies of lot A, the average return in honley was \$5 pounds per colonies of the per center in those who carried the close of the colonies of the

Foul Brood.—The cause of American foul brood has been found by the United States Department of Agriculture to be a specific haeterium. European foul brood is also abacterial disease. Both of these diseases attack the developing brood, and as the adult bees die from di ago or other causes, the colony becomes depleted as there are not enough young bees emerging to keep up the numbers. When the colony becomes weak, bees from other colonies enter to rob the honey and the infection is spread.

Another Record Jersey

Over 1,011 pounds of butter has been made by a Jersey cow. Sophie 19th of Hood Farm. She is new one of four Jersey "pace-makers," Jacoba Irene, Olga 4th's Pride, and Adelaide of Beechlands, all with authenticated

Sophie 19th was scored 91% per cent. cf the perfect scale of points by John O. Couch, and is in the Ameri-can Register of Merit, Class AA.

### THE SIEGE OF OTTAWA

The complete story of the great delegation of 800 Canadian farmers who marched into the House of Commons, Otawa, on Decembers at least and informed the Dominion Covernment and the members at least they wanted, has been published in book form. Farmers from Nova Scotia to Alberta took part in the great demonstration. This book, "The Siege of Ottawa," tells how the great movement originated, and how it was carried out. Every farmer in Canada who believes in the rule of the people, should have a copy of this book. You should have one.

have one.

The contents of "The Slege of Ottawa," include the farmers' platform laid down at Ottawa; the tariff speeches made by delegates at the great convention in the Crand Opera House on December 16th and copies of all memorities presented to the Government on December 16th and copies of all memorities also sketches of the farmers' organizations in The book contains also sketches of the farmers' organizations in Ontario and the three Provinces, as well as the constitution of the Canadian Council of Agreement 18th and 18th an

records of over 1,000 pounds of butter in the year. The year's record which has given Sophie 19th of Hood Farm second place was begun January 1, 1910, at the age of four years and 11 months, after freshening on December 25, 1900, and was authenticated by the Massa-

April 14, 1907, to April 13, 1908, Lbs. Oz. October 1, 1908, to Sept. 30, 1909, 9924 12
January 1, 1910, to Dec. 31, 1910, 14373 3
Totals 33348 2 83 p.c. butter Lbs. Oz. 6 469 0 674 11 1011 5 2154 0



IF YOU WANT THE SEEDS DEALERS EVERYWHERE SELL RENNIE'S SEED! THE FINEST IN THE LAND

WRITE NEAREST ADDRESS FOR CATALOGUE WM. RENNIE CO LIMITED TORONTO MONTREAL WINNIPEG VANOGUVER

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FOR SALE—Two Steel Cheese Presses good as new, one Beach Curd Mill, two Vats in fair condition, at a bargain for quick sale. L. A. Southworth, Omemee, Ont.

WANTED—Cheese and butter maker to take charge of factory. Single man preceived. Apply, stating experience and salary expect-ed to Wm. Ferguson, Eversley, Ont.

CALVES RAISE THEM WITHOUT MILK Booklet Free Steele, Briggs Seed Co., Ltd., Toronto, Ont.

## RUBEROID ROOFING

In Red\_Brown--Green--Slate

RUBEROID Roofing is now as far ahead of all other ready roofings in appearance as .t has always been in service and durability.

Besides the business-like slate, or natural color, RUBEROID is made in beautiful soft shades of Red, Brown and Green.

These colors, mind you, are not painted on, but impregnated into the roofing. The sun cannot fade them out, nor the severest weather conditions wash or chip them off, for they are right in the body of the roofing

The only other roofings that can compare with Colored Ruberoid in appear-ance are stained shingles and tile. The shingles are far less durable than RUBEROID, and they constitute a very serious fire risk, while RUBEROID is strongly fire-resisting. The excessive weight and cost of tile roofs put them out of

For house, barn, stables, anywhere that ornamental effect is not essential, RUBEROID Slate Roofing will give you more service for your money than any

Where you want beauty as well as service you can get the most pleasing effects with Red, Green or Brown Ruberoid. We have devised a special tile effect that is

Call on the nearest RUBEROID Dealer, or write us, for information about it. and for our Booklet B on the Roofing Question It contains some striking facts

"SOVEREIGN" Sheathing Felt-a light-weight RUBEROID-makes houses cool in summer, warm in winter, dry always. It will pay you to get posted on its

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Dealers Everywhere. AND RURAL HOME

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#### OUR PROTECTIVE POLICY

OUR PROTECTIVE FOLLOW.

We want the readers of Farm and Dairy
to feel that they can deal with our assurance of our adverticers with our assurance of our and
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#### FARM AND DAIRY PETERBORO, ONT.

#### ANOTHER MARKET FOR OUR PRODUCE

Another market such as we are likely to have for our natural products will advantageously affect more people in Canada than would improved markets for any other line of production. In 1910 Canadian exports of agricultural products amounted to over \$90,-000,000, and of animal produce \$54, 000,000, a grand total of over \$144. 000,000, exported from canadian farms last year. Next come the products of the forest, other natural products, the exports of which amounted to over \$47,000,000. Next, the mines, the exports from which brought Canada over \$40,000,000 in cash. To this add \$15,500,000 for fish, which brings the total value of natural products exported from Canada last year to

over \$246,000,000. All of these products are on the free list of he proposed trade agreement with the United States; the value of all will be increased by access to their markets.

Compared with the great value of our exports of natural products, the exports of manufactured goods sink into insignificance. In 1910 the value of exported manufactured goods from Canada was only \$31,491,916.

In the light of these statistics, is it not evident why we farmers are demanding access of our products to the United Staes? What effect can a protective tariff have on the price of natural products produced on cur farms, our forests and our mines when we have such a surplus for export! It must be evident to the dullest intellect that the price of our produce is set in foreign markets and the wider these markets are the better the price is bound to be. And what better market could we gain entrance to than that of the .0,000,000 people, our neighbors to the south?

There can be no question as to the value of the United States markets for Canadian farm produce. The strongest argument that can be advanced in support of our position on this question, is to give market quotations at United States and Canadian centres. Just now United States markets are dull and quotations are lower than usual. Nevertheless comparison of Toronto and Buffalo markets last week show that when prime steers were selling at \$5.80 to \$6 in Toronto, they were bringing \$6.40 to \$6.60 for the same quality in Buffalo. Hogs were \$6.75 in Toronto and \$7.30 to \$7.75 in Buffalo. The average price for cheese in Canada last season was 10% cents. In the United States it ruled three and even four cents higher. Farmers who were exporting cream across the line practically free cf duty were realizing 10 to 12 cents more a hundred for milk than they would had it been manufactured into cheese or butter in Canadian factories. One of our leading apple men tells us that free access to the United States markets will mean 50 cents mere on every barrel of apples produced in Ontario. We all know from past experience what it will do for barley.

The trade agreement as proposed does not injuriously affect our manufacturers; yet it opens to Canadian farmers one of the best markets of the world, and one moreover, which is near at hand. Little wonder that our farmers hail with satisfaction the opening of the United States market te Canadian natural products.

### WEATHER INSURANCE AND FAIRS

The Ontaric Association of Fairs and Exhibitions in annual meeting in Toronto recently approved of a plan, submitted by the secretary, Mr. J. Lockie Wilson, Superintendent of Agricultural Societies for protection against rainy weather or storms at their exhibitions. The Legislature will shortly be asked to amend the Act to include this proposal.

The suggestion is that in case of loss sustained by an agricultural society by rainy weather or snow storms, the Department of Agriculture may on satisfactory proof, pay the society so affected an additional grant equal to 50 per cent. of the loss sustained this grant shall be payable out of the annual grant to agricultural societies, and the total sum thus given shall not exceed \$10,000 in any one year. The amount of loss shall be based on the average gate receipts for the three previous years but in no case shall a grant to a society for this purpose exceed the sum of \$300. The \$10,000 apportioned for this purpose is to be taken from the \$75,000, which is now the legislative grant to agricultural societies.

The object sought in this proposition is a worthy one and Mr. Wilson is to be commended for having presented it on a workable basis. It is an exceedingly difficult one, however, to regulate, so as to be of equal benefit to all. For instance, one objection is the limit of \$300, which may be paid out to any one society. A large society might easily lose through bad weather, \$1,200, or more, yet they can only receive benefit from the scheme to the extent of \$300. A smaller society on the other hand might lose a much smaller sum and receive from the Government the full amount or the limit to which they would be entitled. However, the proposal is a worthy one and can be improved from time to time.

### CROP ROTATION PRINCIPLES

Rotation is a problem for each man individually to work out and adopt to meet his special interests. The ques tion involves much more than simply following one crop after another and while probably most of us practise something in the form of crop rotation it is abundantly evident that "we of the rank and file" have much to learn in regard to how to retate our crops that we may secure maximum yields and at the same time maintain or perchance improve the fertility of our soil. Those who are out to 'mine' their soil are not so much oncerned with the question of crop rotation. Even such farmers, how ever, can work out rotations suited to their requirements that will be of decided advantage.

A retation requiring more than five years to complete the cycle, save under exceptional circumstances, is not likely to be advisable. A four year rotation is being adopted by many progressive men and a number of farmers with lighter soils are working wonders thereen with a rotation covering three years.

Clover and other legumes, corn, roots and farmyard manure are the important considerations in maintaining and improving soil fertility and in keeping the land free of weeds and in good mechanical cr physical condition. Each of these entering at least once in a rotation of three or four or five years duration are sure to give tolerably satisfactory results. The placing of them and what other

farmer must decide for himself. Th article on crop rotation, page three this week, by Mr. W. C. Good, a prizwinning farmer, is worthy of you careful consideration. It contain many points that may be of interest and of money value to you. Ques tions in regard to rotation and simi lar subjects asked of Farm and Dairy will be cheerfully answered by our experts in our farm management col umns. Write us of your difficulties in this connection that you have not yet solved satisfactorily.

#### OUR LOYALTY

It is a significant fact that opposition on economic grounds to the proposed trade agreement has practically ceased. The advantages to the class that it affects, the farmers, are so evident that there can be no disputing them. The growers of tender fruits, it may be said, are determined that this measure shall not go through and have petitioned the Senate to throw out the measure. The fruit growers, we must remember, however, are very small class in the community and even amongst themselves they are not unanimous; many of them claim that the advantages following upon the proposed agreement will outweigh the disadvantages. The opponents of the agreement unable to oppose it on economic grounds are now calling on patriotic grounds for us farmers to have nothing to do with it. We should, so we are told, trade in our home mar ket, or with the mother country. They tell us that freer commercial intercourse with the United States will eventually lead to political union.

Patriotism has been defined as the last refuge of the scoundrei; many of those who are now making such a noise about loyalty to the empire and so forth are much more concerned about the dollars and cents that they are now enabled to make but may not be able to do should the proposed trade agreement be carried, or worse still, should we, encouraged by our success, carry the fight still further into the territory of the privilged interests.

We once had reciprocity with the United States. The reciprocity bill of 1854 passed the United States Senate because the southern Democratic senators feared that if Canada was nct given freer trade with the United States they might wish to enter into political union for the benefit of the United States markets. Such a union those southern senators feared would add to the strength of the northern and anti-slave party, which was at that time fighting for the abolition of slavery.

Reciprocity accordingly was granted to keep Canada from annexing herself to the United States. Notice the inconsistency. We are now told that free trade will lead to annexation. Has human nature changed entirely since 1854?

When is a man more loyal,-when prospercus and contented, or when chafing under the burden of restricted markets for his products? When are crops to grow are questions that each Is it not when everything is going

well and p living? The tor markets loval is abso also to hum procity wit not lead to

March

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are quite e they are as Do you feel Remember that we can

Do you Whitley's, s made as mu cows, which Farm and 19th? That ed. was only She is typi Ontario kno much profit she is in a 5,000 cows a tricts of On is. We oug at least up to only a profit which she wa ley's chart n only 82 cent a cow for a cents! Thir milking that for a period much profit gcod average This cow

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This new d work bids fa able. We wh however, nee formation th these centres practical, mo possibilities o as developed convince any lie in knowin fit each of h ally. Let es who has not dairy record results will the trouble.

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#### UR LOYALTY

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n more loyal,-when contented, or when burden of restricted products? When are ngest in a country? everything is going

well and people are making a good | | | | living? The idea that wider and better markets will make the farmer less loval is absolutely centrary to history, also to human nature. Fear not. Reciprocity with the United States will not lead to annexation.

#### THOSE AVERAGE COWS

"Oh, my cows are not so bad; they are quite equal to the average and they are as good as my neighbor has." Do you feel that way about your cows? Remember it is those average cows that we can least afford to keep.

Do you recall that chart of Mr. Whitley's, showing the one cow that made as much net profit as 42 poor cows, which chart was published in Farm and Dairy, page 5, January 19th? That good cow, there represented, was only an average good cow. She is typical of over 500 cows in Ontaric known to have produced as much profit as is credited to her and she is in all probability typical of 5,000 cows and more in the dairy districts of Ontario just as good as she We ought to have all of our ccws at least up to her standard. She made only a profit of \$33.68. The cows with which she was compared in Mr. Whitley's chart made each a net return of only 82 cents. Fancy a man milking a cow for a whele year to make 82 cents! Think of him, if you will, milking that cow, or others like her, for a period of 42 years to get as much profit as he would get from a good average cow in one year!

This cow testing business is worth looking into. We need to know the actual net profit from each cow individually. Only then can we know which ones are those lcw-profit cows, that kind of which we must keep 42 to make as much as we can get from one cow in one year.

The practice of cow testing is becoming more and more popular. Each year sees more men becoming interested in the work. Now to still further popularize cow testing the Department of Agriculture, at Ottawa, is enlarging on their plans as followed during recent years. Three Dairy Recerd Centres are being provided for. One of these centres was organized two weeks ago at Woodstock. Another was launched last week at Peterboro, and the third is to be established in Quelec, probably at St. Hyancinthe. The men in charge of these centres will interest farmers in cow testing and will gather information to pass on for the benefit of the dairy public at large.

This new departure in dairy record work bids fair to prove itself invaluable. We who read Farm and Dairy, however, need not wait for the information that will be gathered by these centres to be ecnvinced of the practical, money-making, labor-saving possibilities of cow testing. The facts as developed in the foregoing should convince anyone that his best interests lie in knowing, not guessing what prefit each of his cows return individually. Let each interested dairyman, who has not already done sc, start a dairy record centre of his own. The results will many times compensate the trouble.

### FARMERS' RIGHTS

Resessassassassassassas We of the soil, who know how diffi-We of the soil, who know now caus-cult it is, to stand up in public and defend our rights effectively, are for-tunate in being able to rank amongst cur numbers, Mr. W. C. Good, of Brant Co., Ont. Born and raised on a farm, as a lad belenging to a lodge of the Patrons of Industry, an uncomof the Patrons of Industry, an uncom-promising independent in politics, and having had the advantage of a University education, Mr. Good is pe-culiarly fitted to render, as he does, yeoman service in the cause of farm-ers' rights and in the present for-ward movement of organized agri-

His father before him, the late Thomas A. Good took an active part in all things leadly pertaining to the up-lift of agriculture. He was one of the best informed and thorough



Mr. W. C. Good.

farmers of Brant county, where he was well known and where his inwas well known and where his influence for a better agriculture lives after him. Thus did the son, Mr. W. C. Good, early in life become infermed and seized of his responsibility to others in the community and to the cause of the farmers generally.

During 1896-1900, Mr. Good attended the University of Toronto, from which he graduated in Physics and which he graduated in Physics and Chemistry, taking also the English course all the way through. About the time he entered the University he be-came interested in socio-economic questions. This interest grew during his callege course, and on graduation he found himself with more real in-terest in the social than in the physical sciences. After graduation he spent part of another year at the Uni-versity on research work in Chemistry and at the same time doing some genuine though desultory independent genuine though desultory independent work in economics. It became more and more evident to Mr. Good from his studies that where the work of the 10th century had largely concerned itself with the production of wealth, the work of the 20th century would have to deal in an increasingly em-phatic way with the more equitable distribution and more sensible con-sumption of wealth.

In the spring of 1901, Mr. Good returned to the farm owing to his father's failing health. He made ar-Inther's railing, health. He made arrangements to take over the farm and had practically settled down when an unexpected offer of a position in the Chemical Department of the Ontaric Agricultural College was made to him.

(Continued on page 15)

### CREAM

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Anent Cream lesting

Editor, Farm and Dairy,—Anent
your letter asking me to discuss the
matter of cream testing, I must confiest that a question of this kind coming from Ontario sense to be rather
out of place, Lecause I have always
believed that the dairymen of Ontario were as far advanced as those
of any other district on the Centinent. of any other district on the Centinent. of any other district on the Centinent. I learned the dairy business in varicus creameries and cheese factories in Ontario and graduated in dairying from the Agricultural College at Guelle, specializing along dairy lines, and as I have already said, thought that Ontario was about the acme of accomplishment as far as dairy matters were concerned.

ters were concerned.

When you suggest therefore that I discuss the merits and demerits of testing cream with the pipette, as compared with the weighing of same,

WESTERN FARMERS LOSING
\$1,000,000 YEARLY
through selling unclean grain
from Sydney Fisher says: "Universal pinky Fisher says: with a pipette should be drawn out to the junk pile, or should find a proper place among the fossils of a museum.

There is absolutely no excuse for testing cream with a pipette. I will testing cream with a pipette. I will guarantee that we can place six samp-les of cream before one of these fos-sils, and out of the six he will not sils, and out of the six he will not have more than one sample tested correctly. I will further guarantee that the other five tests will be any-where from two to seven per cent. at tray. The proprietors of any cream-ary have a merket, right to fice on the tray. The proprietors of any cream-ery have a perfect right to fire on the spot any man who clings to the old fogey pipette methods.

fogey pipette methods.

A discussion of the relative merits
of the scales and the pipette for testing cream is so far behind the times,
that upt-odate dairymen are discussing them no longer. The question of
the present day is the grading of
cream. The testing of grann has been cream. The testing of cream has been settled long ago.—W. J. Elliott, Calgary, Alta.

Mr. Carr Replies to Mr. McLagan

Editor, Farm and Dairy,—On page 14 of the Feb. 23rd issue, of Farm and Dairy, was published a letter from Mr. P. W. McLagan, Montreal, criti-cising the prepased reciprocity agree Mr. P. W. McLagan, Montreal, criti-cising the preposed reciprocity agree-ment. If it will not taking too much space I will offer a few remarks concerning this gentleman's argu-

I agree with Mr. McLagan, when I agree with Mr. McLagan, when he says that the proposed agreement should be considered well as the second before being passed upon. But does he do this? I think net. In my opinion, his asymmetry is very much biased he do this? I think not. In my opin-ion, his argument is very much biased in favor of the moneyed buyer. He is not considering the farmer as he would

like us to believe.

Mr. McLagan informs us that we Mr. McLagan informs us that we must not forget that by obtaining an entrance to a market of 90,000,000 people, that are also throwing our own market of 7,000,000 open to them. Supposing we cut that 90 million in half and are that we will have accessed. and say that we will have a half and say that we will have access to a market of 40,000,000 or 50,000,000 people along our border, does it not people atong our border, does it not seem reasonable to suppose that we will derive more benefit from that 40,000,000 people than they will from our 7,000,000, especially when the farmers of the United States are not producing among produce for their farmers of the United States are not producing enough produce for their own market while we are producing a

Mr. McLagan denies that the Unitarr. McLargan ownes that the Varied States farmers do not supply home demands. He says, there is an overproduction of heg production of he d States farmers do not supply home

in Torcuto. Why? Simply because the pork packers in this country have such a monopoly that, as every Can-adian farmer who ever went into hog adian farmer who ever went inte hog raising knows, they can play with us in any way they choose, when it comes to paying for he hogs that we have striven to get into first-class market condition. Under the reciprocity ag-reement, this menopoly would be brok-en up and the buyers in this country

would have to pay a price equathat paid in the United States. H that paid in the United States. It me the reason for the strenuous object one raised by the pork packers of Can did Mr. McLagan also says that United States farmers are paid united states farmers are paid in more attention to intensive and say tife methods of agriculture. Does be wish us to take it as his opinion that wish us to take it as his opinion the Canadian farmer upon whom company he represents, as well many others, depend for their busic as of far behind the United St. farmer in knewledge as not to be get the same thing? We are go into more intensive farming. It makes he was the same thing and the same thing are the same thing and the same thing are the same thing are the same thing and the same thing are the same also be remembered that Canada millions of acres of land still unoccuied, much of which is being taken every year. We are going to increase our already enormous surplus of far our already enormous surplus of farm products. Without a larger market what are we going to do with it except swell the purses of buyers like Lovell and Christmas whom Mr. McLagan

and Christmas whom all, all and the presents?
This gentleman tells us that reciprocity will dear the second of the procity will dear the second of the secon Lagan claims. We can hold our cwn with the Australian product any

with the Australian product anywhere.

If Mr. McLagan attempts, as he
suggests, ranging over the United
States, from Kansas Maine to buy
dairy products he will only are at
years and the same and they are at
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ing so strenuously to defeat the agreement, also the canners backing deputations of fruit growers taking, we may be reasonably assured that they may be reasonably assured that they are not fighting in the interest of the "dear Canadian farmer", but in the interest of Mr. Bruer, but in the interest of Mr. Bruer, but in the material of Mr. Canner, as the case may be —H. N. Carr, as

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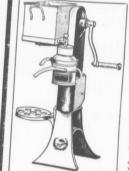
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WANTED—was men to work in cheese factory. One man for seven months and
one for six months. Men with one or
two years experience preferred. Address J. H. Mannell, Springfield, Ont.



### IS THERE ANY-Money in Dairying?



I once heard a farmer say, that, if the cows paid their own way, he had the manure pile for his profit. Easily se isfied wasn't he?

Don't laugh, maybe you are still easier satisfied and don't know that you have even that much profit.

Why plunge along in the dark? For all you know, instead of the dairy making money to keep you, you are making money to keep the dairy.

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First look to the QUALITY of milk your herd are giving. This is just as important as the quantity.

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the best results only the highest grade machine should be used.

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The above are FACTS which can be PROVEN by a TRIAL.

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is desirable to mention the name of this publication when writing to advert

y a price equal to nited States. H has strenuous objections packers of Can da rmers are ntensive and scen-riculture. Doe he as his opinion er upon whom the sents, as well as he United State as not to be lo We are go farming. It n that Canada and still unoccur s being taken going to increase s surplus of farm a larger market, do with it except

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or single, De Laval least one lory. Give lverwood, neese fac-nths and none or ed. Ad-

equipped of the Alberta, 0,000 ibs. d water d, large must be quarter or sale. to John

March 9, 1911. weekeekeekeekeekeekeekeeke will take charge of the cow testing

Cheese Department

Makers are invited to send contributio
to this department, to ask questions on
matters relating to cheesemaking and to
matter stating to cheesemaking and to
matter states of the use of the contribution.

Address of the contribution of the contribu \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Cow Testing in New Zealand

J. F. Singleton, Kingston, Ont.

J. F. Singleton, Kingston, Ont.

Two years ago in New Zealand they started their first cow testing association. This association and 28 members representing 800 cows. The average of the 860 cows. The average of the 860 cows. The average of the 860 cows. The average of the search of the year which is somewhat ionger than our factory season, was 6,819 pounds of mik testing 5 per cent. Here is an explanation of selvy New Zealand is Superintendent. Mr. Publow, on account of his health, some months age cannot be supported to the season of the New Zealand is Superintendent of the school. Mr. L. A. Zufelt, instructor in buttermany search and the season of the which is somewhat longer than our factory season, was 6,819 pends of milk testing 4.8 per cell, hounds of which was a comparable of which was a comparable of which was a comparable of the milk is a fastern or hard of the milk of

3.000 bb.

Last year New Zealand increased her export of cheese 39 per cent. This cannot be accounted for as it sometimes is by saying that they are going more extensively into cheese and the second of the control of neglecting their creameries, as last year the export of butter increased 18

means of scales and the Babocok test the poor cows could be detected, feeding and breeding could be carried on more intelligently, labor would be lassened, and grofits would be larger. Cov testing also has the effect of giving the man greater enthusiasm and greater interest for his work.

The care of cream on the farm was dealt with by Mr. Geo. H. Barr, Chief of the Dairy Divisin, Ottawa. A fuller report of his address will be given in Farm and Dairy in a later issue.

Mr. Burgess, of Woodstock, who

work in the vicinity of Peterboro un work in the vicinity of Peterboro un-til a permanent appeintment is made, gave concrete cases of men who had greatly increased (some of them up to 80 per cent. in three years) the production of their herds. He re-quested the farmers present to assist him in getting the work started.

G. G. Publow Retires From Dairy School

L. A. Zufelt, instructor in butter-making, will succeed Mr. Publow in the school werk. He entered on his new duties March 1st.

A presentation of a gold-headed cane was made to Mr. Publow by the staff and students of the dairy school.

Farmers' Rights

(Continued from page 13) This position he accepted although at the same time he kept an eye to the farm also. His father's continued ill health and his desire for a more independent out door life soon led him

neglecting their creameries, as last per cent, over the proport of butter increased 18 per cent, over the proving year. An explanation of the high test of the New Zealand milk is found in the fact that practically all of the factories pay for the milk by straight fat test, and the proving the past twe years, Mr. Good has been president of the North Brant Gordon proving the past twe years, Mr. Good has been president of the North Brant Gordon proving the past twe years, Mr. Good has been president of the North Brant Gordon proving the past twe years, Mr. Good has been president of the North Brant Gordon proving the past twe years, Mr. Good has been president of the North Brant Gordon proving the past twe years, Mr. Good has been president of the North Brant Gordon proving the past twe years, Mr. Good has been president of the North Brant Gordon proving the past twe years, Mr. Good has been president of the North Brant Gordon proving the past twe years, Mr. Good has been president of the North Brant Gordon proving the past twe years, Mr. Good has been president of the North Brant Gordon proving the man greater enthusian and the proving the man greater enthus the proving the man greater enthus the proving the man greate

farmers' of Canada. We can assure Farm and Dairy readers and others of many others who have cast in their interested in the farmers' cause that whenever occasion arises Mr. Good can be counted on as a spokesman for the great mass of unorganized, trained, and able to stand the great mass of unorganized, instructional training the standing training the standing training training to the standing training tra

THROWING OTHERS AWAY FOR SHARPLES TUBULAR CREAM SEPARATORS

All over Canada—all over the world—farmers are discarding common cream separators for Sharples Dairy Tubulars.

Why? Because the Tubular skims twice as clean as others

Why? Because the Tubular skims twice as clean as others—is guarunteed to save enough more butter fat, as compared to any other make, to pay at least ten per cent interest every year on the cost of the Tubular. No business-like farmer the cost of the Tubular. No business-like farmer the cost of the Tubular. The state of the cost of the Tubular is money. It is cheaper to throw a work of the tubular than to stand the loss caused by common machines.

Here is another enough the common separator and buy a Tubular han to stand the loss caused by common machines.—Are guaranteed forcers. Tubulars last a lifetime—are guaranteed forcers. Tubulars last a lifetime rator concern on this continent of the common separator concerns the continent of the contine 

THE SHARPLES SEPARATOR CO., pronto, Ontario. Winnipeg, Manitob

WESTERN LAND FOR SALE

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into pasture. You know how obstinate swine are—how hard it is to keep them where you want them. But do you know there is a fence

"Ideal" Fence keeps hogs where they are put This Heavy, Hog-Proof "Ideal" Woven Wire Fence has all the best of it with the pigs. Each "Ideal" lock grips the upright and cross wires in FIVE DIFFERENT PLACES—grips them so they simply CANNOT SLIP—and thus the hogs cannot move the uprights sideways, nor the cross wires either up or down. The uprights are all of large gauge No. 9 wire—HARD (not soft) wire, heavily galvanized, and all in one piece. The strongest hog cannot make the fence yield. He has got to stay where he is put, when you fence with "Ideal." For it is

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THE McGREGOR BANWELL FENCE COMPANY LIMITED WALKERVILLE ONTARIO CANADA

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[[ HATEVER betide, every misfortune must be overcome by enduring it.

### The Road to Providence

(Copyrighted)

MARIA THOMPSON DAVIESS

(Continued from last week.)

(Continued from last week.)

SYNOPSIS OF THE ROAD TO PROVIDENCE
dence, has taken into her home Elinora widow. Hving near the town of Providence, has taken into her home Elinora widow. Hving near the town of Providence, has taken into her home Elinora widow. Hving near the town of Providence at fame was mysteriously lost the face of the grodiness of heart and and endinger who has mysteriously lost the face for the grodiness of heart and her city, but among a lone neighbors there is a humory presented to the city, but among a lone neighbors there is a humory presented to the compilabing other domestic. He sarring to mix and base "light effective and accomplishing other domestic. He sarring to mix and base "light effective the sarring of the control of the providence of the control of the providence of the provide

in life is to be able to restore her powers.

66 W ELL, answerde Eliza confidently, "I think I can tend to her if Mother Mayberry is too busy to come. I was just a going to watch for Doctor Tom and ask bin anyway. Please come on home in anyway. Please come on home in anyway. Please come on home in the collection of the collection of the collection of the collection of the collection. I was a standard of the collection of t

on, Deacon!"
"Yes, Deacon, go along with her
right away," answered Mother Mayberry, as her eves rested on the serious face of the ministering child
with a peculiar tenderness tinged
with much respect. "And, "Li-a.
with much respect." with much respect. "And, "Lica, honey, stop by and tell me how Mis" Bostick does when you come back, and let me know if you need me to help you any."

and let me know it you need me to help you any,"
"Yes'm. Mother Mayberry," answered Eliza with a flash of pure joy
shining in her devoted little fast
when she found that she was not to be
unablighted, in her attendance on her when she found that she was not to be supplanted in her attender on her charges. "I was a-coming to see you this morning anyway about the place Mr. Mosbey burned his finger and I tied up last night. Please come on, Deacon,"

tied up last night. Please come un, Deacon,"

"And a little child shall lead them," said Mother Mayberry to herself, as she watch de breakfast party down the road Martin Luther, had come out from the table by this time and now trotted long at the Deacon's heels like a replete and contented puppy. Ex held plate carefully and Billy seemed about sure of arriving at his destination with at least half the bucket of coo water. "Yes, a little child—but some children are borned with a full-growed heart."

And true to her promise Eliza ap-

And true to her promise Eliza ap-peared an hour or two later to hold serious consultation over the black-smithing finger down the Road.

smithing finger down the Road.

"Liza," said Mother Mystery, as she prepared a stall for the finger and poured a cooling lotion in a small bottle for which the child waited easerly, "use a season and I'm proud of your being so kind and I'm proud of your being so kind and thoughful. Do they ever ask you where you bring 'em from "

"I always tell 'em, Mother May-berry. Deacon said I oughtn't to get things from other folks to bring to em, but I told him that you and Mis'

Pratt and Mis' Mosbey and Mis' Peavey would be mad at me if I just took
things from May to 'em and slighted
they cooking. I pick out the best
things everybody
light rolls, Mis' Pratt's sunshine
cake and cream Pratices. Cindy's
chicken, and Mis' Peavey for baked
hash. I took the custards from Mis'
Ellinory to please her; out Mis' Mosbey's is better. I wanteem to have
the best they is on the cate of the con'Bless your dear little heart, the
best they shall have always!' exclaimed Mother Maybey; as she
lugged her small confrare close

claimed Mother Mayberry, as she hugged her small confrere close against her side and wheel away a tear with a quick gesture. "Now you can go fix up Nath Mosbey's finger to suit your mind, Sister Pike," she added with a laugh as she bestowed the hottle.

The rest of the morning was filled to the minute for the Mayberry houseto the minute for the Mayberry house-hold, which seemed possessed with a fremy of polishing and garnishing. After Cindy had done her worst with broom and mop. Mother Mayberry with feather duster and cloth, Miss Wingate threw her energies with abandon into the accomplishing of a most artistic scheme of decoration. She set tall jars of white locust blos-

Wingate threw her energies win bundon into the accomplishing of a construction of the control of

And in accordance with time-honored custom the stroke of one found the Providence matrons grouped along the Road and up Mother Mayberry's front walk, in the act of assembling for the good work in hand.

for the good work in hand.

"Come in, everybody."

"Come in, everybody."

"Come in, everybody."

"Mother Mayberry, as she welcomed them from the front steps, mighty glad all are on time, or I have got the best of things to rell as I have got the best of things to rell as I have been saving by the hardest hew she was something the corb and to the corb and to the corb and foam over in spite of all."

"I'm mighty glad to hear something good," said Mrs. Peach as something good," said Mrs. Peach are would have got into astonishing misery. Did you all into astonishing misery. Did you all into astonishing misery. Did you all

tone. 'Looks like the world have got into astonishing misery. Did you all read in the Bolivar "Herald" last week read in the Bolivar "Herald" last week about that explode in a mine in Delysus; a terrile flood in Louisianny, the man that killed his wife and six shiften in Kansas? I don't know what at eric a-coming to. They just went out a six shifting about the good trade what when the shifting about the good trade with the shifting about the good trade with the shifting about the good trade when the shifting about the good trade when the shifting about the good the shifting and the shifti

moved their hats, laid them on Moth-er Mayberry's snowy bed and settled themselves in rocking chairs that had been collected from all over the house for the occasion. Gay sewing bags had produced and the army of thim-bles and scissors had been buckled on. Mother Mayberry still stood in the centre of the room watching to see that

Vines One Year From Planting Vines One Year From Planting
Many a verandah may be improved in
appearase and be made into a real at
appearase and be made into a real at
reactive, we have a summer by plant
ing a few with the planting and as will for
cummer' or insulation of the planting
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for any dealy experienced if she planting
as any current and as any current as a summer and as any current as a summer and as any current as some of the climbing
roses.

all the guests were comfortably seated.
"Them were mighty bad happenings, Mis' Peswys, and I know we all feel for such the being sent on the 
Lord's people," and being sent on the 
Lord's people," such the Mayberry 
seriously, though a small property 
the corners of the Widow Them 
the corners of the Widow Them 
the corners of the Widow Them 
the property 
mouth and young Mrs. Nath 
Moshey 
bent over to hunt in her bag for 
an unnecessary spool of thread. Mrs. 
Peavey's nature was of the genus killjoy, and it was hard to steer her into all the guests were comfortably seated. joy, and it was hard to steer her into the peaceful waters of social enjoy-

"I don't think any of that is as bad "I don't think any of that is as bad as three divorce cases I read about in a town paper that Mr. Petway wrapped up some calico for me in." answered Mrs. Peavey, continuing her lamentations over conditions in general, which they all knew would get to be over conditions in particular if something did was intervene to stoo the tide of did not intervene to stop the tide of her dissatisfaction.

"Divorces oughtn't to be allowed by the United States." answered Mrs. Pike decidedly. "They are too many people in the world that don't seem to be able to hitch up together, with-

out letting folks already geared roam loose again. But what's the news, Sister Mayberry?" There came times when only Judy Pike's uncompromi my vety output you will be already on the table.

table. "Well, what do you think! Tom Mayberry have got this Providence Meeting-house Sewing Circle a good big sewing order from the United States Government. Might drawers and aprons and chimsess and all sorts of things and—" "Lands alive, Sister Mayberry, you "Lands alive, Sister Mayberry, when the country of the count

Lands anve, Sister Mayberry, you must be outen your head!" exclaimed Mrs. Peaver with her usual fear-the worst manner. "What earthly use can

Mrs. Peavev with her usual fear-the-worst manner. "What earthly use can worst manner." What earthly use can the United States Governmen hav-for night drawers and chimetes?" "Now, Hettie Ann, you "Now Hettie Ann, you for heave my say out," remonstrated Mother Mayberry as they are the Mother Mayberry as they are the mennity at Mrs. Peavey's scandalized mennity at Mrs. Peavey's s that the Government have sent Tom down there to study about, so he can find the bug that makes the diseas-and stop it from spreading every-where. While he's a-working with 'em he has to see that they are provided for; and they condition are shameful. He wants outfits for the women and children and Mr. Petway have the or-der to buy the men's things down in children and Mr. Petway have the or de to buy the men's things down in the city for him. He's going to pay us good prices for the work and it will mean a lot of money for the car pet and the repair fund. A quarter apiece for the little night draw.

ers without feet to 'em is good money. He wanted to give us ers without reet to clin is good money. He wanted to give us fifty cents but I told him no. I wasn't goin' to cheat my own country for no little child's night

rigging. A quarter is fair to liberal, I say."
"That it is, Mis' Mayberry. and thank Doctor Tom, too, for giving us the order," answered Widow Pratt heartily. "When can we begin? I'll cut 'em all

giving us the order, answered Widow Prat heartily. "When can we begin? I'll view all out at home, so as to save time, if you will give me, so as to save time, if you will give me so save to ow with goading curiosity in

her keen eyes.

"Well, it hasn't been a bit to
"Well, it hasn't been a bit to
well, it hasn't been a bit to
well, it hasn't been a bit to
well, it hasn't been a bit to
well and Mr. Hoover, Mis' Peav.

"So and a lovely rose color
else and a lovely rose color
else all the love whave got for
a distance of the service of the service of the
welding cake for the family and here's
a box of beopermints Mr. Hoover has

wedding case for the family, and here's a box of peppermints Mr. Hoover has sent everybody. He said to make you say sweet things about him to me, Have one Mis' Peavey, pass the box!"

With which a general laugh and buz of inquiry went around with the box of sweets, provided by the widower.

"Well, we think we'll just build a long, covered porch acrost the fronts of the two housese to connect them to be the work of the two housese to connect them to be the work of the work o "Well, we think we'll just build a

(To be concluded next week)

eady geared roam what's the news. There came times e's uncompromis-irs Peavey on the

this Providence ag Circle a good rom the United Night drawers

Night drawers r Mayberry, yo

ad!" exclaimed

you didn't let remonstrat hey all laughed y's scandalized are for them r at Flat Rock

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A quarter night draw

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answered "When ly.

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ou think!

March 9, 1911.

"With God all things are possible.— Mark x, 27. God is love.—I. John iv,

Love is the greatest power and force in the world. No other power can compare with it. Love is God. If we work in the power of love we work in the power of God, and all things

in the power of God and all things are possible unto us.

When we think of striving to comply with all the requirements set forth in the teachings of the New Testament we may well, at times, feel hopeless and discouraged. The immensity of the task compared with our weakness, is sufficient to make us feel the impossibility of the undertaking. Christ subuly of the undertaking. Christ was the subuly of the undertaking. The world was the subuly of the sub

love God with our whole heart and soul and mind and strength, and our neighbor as ourselves, that is all that will be required of us.—St. Matthew sxii, 37-40. Our supreme duty, therefore is to love God and our fellowmen.

Love is the magic talisman that makes hard tasks easy. When our makes hard tasks casy. When our is manifested in our voices and in our jeanifested in our voices and in our solves and in our output of the standard of the stan is manifested in our voices and in our yeyes, we have a power over our friends and over all with whom we come in contact that can be acquired in no other contact that can be acquired in no other contact that can be acquired in no other cannot work for the contact that can be acquired in no other cannot work for the contact that the key which unlocks the human heart. If I can prove to a man that I come to him out of pure love: if a mother shows by her actions that it is pure love that prompts her advising her boy to lead a different life, not a selfish love, but that it is for the glory of God, it won't be long before that a selfish love, but that it is for the glory of God, it won't be long before that the contact in the contact in

acceptably. God is unable to use many of us, because we are full of irritability and impatience. It is easy to reach a man when you love him: all barriers are broken down and swept away.

"There is no way so sure to win our families and our neighbors and those about whom we are anxious to bring to Christ than just to show forth the fruits of love in our lives. If we have a man for you and love and gentlemes as and for yound love and gentlemes and the properties. not only being temperate in what we drink, but in what we eat, and temperate in our language, guarded in our expressions, if we just live in our

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The Upward Look
our Greatest Duty

The Upward Look

The U

This quality of love can be acquired in but one way. We must ask God for it. We must study about it in His Holy Word, and pray that it shall be given to us. Half-hearted seeking and praying will not be sufficient. We must be in earnest. When we are we will soon find a change taking place in our lives. This change will be just in proportion to the intensity of our destremant of the proportion to the intensity of our destremant of the proportion to the intensity of our destremant of the proportion to the intensity of our destremant of the proportion to the intensity of our destremant of the proportion to the intensity of our destremant of the proportion to the intensity of our destremant of the proportion to the intensity of our destremant of the proportion to the proportion to

Work yet to be done by Women's Institutes

Miss Ethel Raby, Hagerman's Corners, Ont.
Some find taut with our Women's Institutes, claiming that we spend too much of our time oiscussing cooking, picking, preserving, etc. This should not be the aim and object of our Wo-men's Institute, though some seem to think it is. Recipes are all right, and the majority of us enjoy a wen cooked meal, but in this day when help is scarce, would it not be better instead of exchanging recipes and telling each of exenanging recipes and telling each other how to prepare elaborate dishes, which so many have neither time of strength to do, if we should learn how to simplify our cooking and other work to simplify our cooking and other work as well, and learn how to save our-selves as many steps as possible. A cheerful united mother, at a very simple dinner, is worth more to her family than a weary exhausted one, though the feast she serves be elaborate. The simple meal is better for us. We all know the result which often

follows eating rich food.
One successful Woman's Institute One successful Woman's Institute has a rule that at no meeting shall there be permitted any conversation or discussion of either dress, discass- or domestics. As for disease and do-mestics it is very important that we understand how to govern both and, could we not do worse than discould we not do worse than discuss these at some of our meetings, to learn much that would be helpful to learn much that would be helpful to learn such the thereasting every little ache. us without rehearsing every little ache and pain and symptom, and without telling all that Bridget did, or did not

the might bringes un, or one how do.

It is not our object to draw women away from their home or have them neglect their duty. Our object is to do all we can for the betterment of conditions in our home life and to set the most and the best out of life that we can by the giving of our very best services to our home and community I am sure that our meetings are helpful and encourraging, they cannot help but do good. If a cour meeting helpful and encourraging, they cannot help but do good. If a woman is to be always shut up in her home she will soon become too narrow home she will soon become too narrow woman is to be always shut up in her home she will soon become too narrow minded. It does one good to be able talk over and exchange opinions of different subjects. In organization and union there is strength. We should accomplish much, then let us as members strive to be as helpful to each other as we can. It may have been only a cheerful

word A grasp of the hand when meeting, But if hope revived at the message

heard

Or courage came from the greeting, How grand to think of a soul waxed strong

of a burden lighter growing decause you happened to come along When life made it dreariest showing,

For this is the true, good comrade-In the life we live together,

grip Though rough be the way and wea-

ther. ther.

I think as a Woman's Institute, our work is without limit. A great trouble day is to keep our boys and girls of the second of the second of the second of the second our girls going off to the second our second our second our show are we to get them to take sufficient interest in housekeeping and in the home life to keep them there. So many girls look upon our 'arm life as simply a drudgery. We must make our home life more interesting, more our home life more interesting, more so many girls look upon our farm life as simply a drudgery. We must make our home life more interesting, more attractive, get them to take an interettriactive, get them to take an inter-est in the work, have different sources of simple and healthful pleasures, which they will enjoy.

The products of our homes are our boys and girls who are to go to make up the rising generation. Herein is our field of labor, and a field in which neither time nor trouble is wasted. How great the responsibility of a mother in training up her children in such a way that in future years as men and women she will be proud of them, and they in turn will book back to their mother and call her blessed. Let us strive to make our home lives as bright as possible. The The products of our homes are our back to their mother and value.

Let us strive to make our home lives as bright as possible. The culture of flowers in one's home helps much to brighten life. It will have much to brighten life. It will have an influence which in after years without toil. much to brighten life. It will have an influence which in after years will not be forgotten. Flowers are God's messengers, fragrant without toil, beautiful without art.

Another great field in which we will find plenty of work is the temper
M. L. Winslow, Peel Co., Ont.

That holds to a friend with a firmer ance field. Intemperance is doing ance field. Intemperance is doing more to drag down the standard of our manhood than any other evil to-day. We have a chance to do great work here if we are willing. Let us do all we can to help on the good cause.

Let our object and work be in future the unlifting of physical services.

Let our object and work be in future the uplifting of character, the better-ment of our home life, the forward-ing of every good work. Let us work so that we will compel people to ac-knowledge the benefit of the Wo-man's Institute and so that there will be no such safter. be no such paltry excuses as that a recipe book will take the place of the Woman's Institute meetings.

Letter Writing

Have you any unkind thoughts?

Do not write them down.

Write no word that giveth pain;

Written werds may long remain.

Have you heard some idle tale?

Do not write it down;

Gossine nuclear

Gossips may repeat it o'er. Adding to its bitter store, Adding to its bitter store, Have you any careless jest? Bury it and let it rest— It may wound some loving breast, Words of love and tenderness, Words of truth and kindliness Words of comfort for the sad, Words of counsel for the bad-

Words of counsel for the bad-Wisely write them down. Words though small are mighty things Pause before you write them. Little words may grow and bloom With Litter breath or sweet perfume, Dean kefore you write them.



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pairs. w I'm d the r was

### Rest and Recreation in the Home

Mrs. D. Miller, Peterboro Co., Ont. The home-maker is the one who orrs, creates and carries ders, creates and carries on those things which go to make a home. This is woman's sphere. No higher posi-ticn could the Creator have given woman, than that of being wife and

mother.

Life is not merely existing or even just providing food, raiment, shelter, good times and education. Were that all, we were little better than the animals, for they attend to all these things in so far as their needs go.

Life is doing working for God and things in so far as their needs go. Life is doing, working for God and for others, making the most of every talent we are given. In fact it is to be as God-like as it is possible

Recreation is Recreation is simply recreation, making ever again, a renewing of strength after toil. Rest is a state simply recreation, strength after toil. Rest is a state free from motion or disturtance. To be able to do her best work, the home maker must fully possess all her pow-ers, physical and mental. No woman No woman can do her best when exhausted, any

can do her best when exhausted, any mere than year of any one of good work with worn out machinery. Leave for rest and recreasing in one fundamental principle of life, in one fundamental principle of life, which was the source of happiness. We all know the source of happiness. We all know has not been used to be the source of the principle of the property of the source of the property of the pro who loves her home the most, and is

Write to-day

J. H. Connor & Son

OTTAWA, ONT. Limited

There
no need
place t
cover
the CO
ER BAL
EARIN
ASHER 4

dripping we on the kitche

floor, because it is hinged and when open the water drips back into the mach-

most conscientious in everything she does, is apt to be the one who takes to time to rest. She persists in ig-terior in the state of the state of the state of the followed by rest. When do we ap-preciate rest? Is it not when we are tried of the more tired the more we enjoy the rest. That condition of complete exhausticn, when even sleep is denied far more apt to be reached by the home-maker than by the pro-vider and is a condition in which no by the home-maker than by the pro-vider and is a condition in which no one should ever be. We should do ne should ever be. We should do much work and then rest absolutely ad completely.

and completely.

Change of occupation is as good as
recreation. To a certain extent this
is true. It is well to remember that
if one piece of work is tiring us too much. if one piece of work is tiring as too much, we can renew our strength along that line by doing something totally different. We often work just totally different. totally different. We often work just as hard at our play as at cur work but a different set of muscles and nerve cells is working. We are in fact recreating. Often this bit of re-creation is really better for us than is actual rest.

woman, no matter how she may A woman, no matter how she may love her home, or how dear every ene in it may be to her or what joy che in it may be to her or what joy or pleasure she may take in the work for that home, must have rest. She cannot go on continually at the same annot go on continually at the same nonotonous grind. The whole nervous system cries out for something dif-erent. The exhausted home maker monotonous grind. ferent. The exhausted home maker does not often realize what is the matter with her. The needed change may simply be to ge to another room and do some other work. Our men like to see us looking well ferent

ren when about our work. The ke to see the hair neatly and be mingly arranged; a neat appn of the best of the half heatr and of the best of the half of neck finish. The woman who cares for her appearance has a much greater influence with men. Besides, she feels more comfortable. After the day'. After the day's work it comfortable. After the day's work it is imperative to have a few minutes to renew our appearance. That renewal of appearance, especially brushing the hair and bathing the hair and bathing the manufacture of the property of

LEISURE FOR READING, ETC. LEISURE FOR READING, ETC.

The home maker should have leisure to indulge in games, music, studies with her family, else the family will unintentionally look upon her as mere drudge and treat her as such.

This touds to keen the famile tength: a mere drudge and treat her as This tends to keep the family to er, to make home dear when mother can jein in with and the amusements. Amusements the anusements. Anusements are just as necessary to keep her mind alert and do her just as much good as they do the others. The home maker should have leisure of a starting more of which there is the starting more of which the starting more of th

to do a certain amount of visiting: not gossiping, but pleasant healthy intercourse with other people, else in

spite of all her care she may become narrow. It is bad to find a woman spite of all ner bad to find a woman narrow. It is bad to find a woman narrow in a rut. Our nervous system demands intercourse with our feltem demands intercourse with our feltem demands manning are only oven insanity are low beings. Many cases of nervous prostration and even insanity are caused by lack of outside friendly in-tercourse. The home maker should have leisure to inform herself concernhave leisure to inform nerself concer-ing current events. This earth-ours is a little world, but still it s is a little world, but still it go and many important thin ppen. We should have some id-things outside ourselves. Al-uld we have some knowledge happen. should we have some knowledge of current literature. All these things require time but it is wenderful hew much can be done in a few minutes, rightly used. How much better one feels for the change. How much easier the actual work becomes, when the home maker feels that she and those she loves are Lroadening in the best sense.

Absolute rest and absolute relaxaevery nerve and mr tion of every herve and myscie is an imperative necessity some time every day. It should come in sleep, but it cay. It should come in sieep, our should come to the one who wo hard and is intense in her work. hard and is intense in her work. The harder we work and the more intense we are, the greater is the necessity for absolute rest. It is certainly better to wear out

It is certainly better to wear our that to rust out, but do not for the lack of little rest and recreation, which is little rest and recreation, which is little rest and recreation, more time to do your work—break yourselves to pieces, "Only the tired yourselves to pieces," more time to do your yourselves to pieces. "Only the tir-toiler can taste Sleep's glad repose toiler can taste Sleep's glad repose", but do not become so worn you cannot sleep rest. Do you not notice how every higher seven the proper rest, not only brightens yeven for your home? You rest to keep your home? You rest to keep your home? You rest to keep your you have hearful for those you love. You pagarance for those you love. You games, they would be to the pagarance for those you love. You games, study, visit, all that you my games, study, visit, all that you my games, study, visit, all that you my games, they have better how to do. leisure to attend to your appearance for those you love. You play games, study, visit, all that you may help your family or know better how to do things for them.

Then too, some Then too, some provision should be made for a complete change. All na-ture has it because God made its turn those things made by man re-ouire rest. All have much work to de, but all must reest.

#### ... To Launder Embroidered Linens

An embroidered piece should net be put in with the regular wash, but should be washed by itself in an earthen bowl, to avoid the possibility of rust or other stain. Take fairly hot water and makea. He was a light sude of pure white soap. Wash quickly. If the linen is soiled, the price of pure white soap. Wash quickly. If the linen is soiled, the price and the price of pure white soap. Wash quickly. If the linen is soiled, the price general rubbing. Rimse would general rubbing. Rimse general rubbing. Rimse general rubbing. Rimse general rubbing. Rimse man the piece flat between two dry towels on that no part of the embroidery can othat no part of the embroidery can othat no part of the same linen, and other part of the same linen, and part of the embroidery can touch any other part of the same linen, and wring or twist so that the dry linen will absorb the moisture. Do not put in any solution of starch. Leave in this condition until the silk is absolutely dry.

Lay the piece face down upon a well-padded ironing board, spread a clean white cloth over the embroid ery and iron quickly and lightly with ery and fron quickly and fightly with a hot ircn, being careful not to press too heavily upon the embroidered portions. A hot iron placed upon embroideries in which the silk is wet embroideries in which the silk is wet will produce a steam, which will take the life from the silk and ruin the embroidery. If the linen centre has the life from the silk and rum to-embroidery. If the linen centre has become too dry, use a dampened cloth te run the iron over. This method will leave the linen sufficiently damp for pressing, and it will hold its natural stiffness.

If the housekeeper is in an especial hurry to heat or cook quickly, before putting the stew-pan on the fire, rub some laundry soap over the bottom

### The Passenger Pigeon

The search for the Passenger Pigeo The search for the Fassenger Figers will be carried on for another year No person was successful last year infinding this finest and noblest of a wild pigeons. Whereas forty or fift wild pigecns. Whereas forty or fifty years ago great flocks comprising hun-dreds of thousands, or even millions were frequently observed, much doub exists as to whether there are any left exists as to whether there are any left to-day. Its range extended over the portion of the American continen-east of the Rocky Mountains and a-far north as Hudson Bay.

Last year many reports were received to the effect that the long-lost pigeon had been found, but on further con had been found, but on further enquiry, and en demanding a deposit of \$5.00 as an evidence of good faith and care in its identification before we incurred any expense in confirm-ing the discovery, it turned out that some other bird had been mistaken for it, and nothing more was heard of

All finds are to be reported to Dr. C. F. Hodge, Clark University, Worcester, Mass., or to the undersigned. The awards are offered solely and only The awards are obered solely and only for infermation of location of undis-turbed nestings. We do not desire to turbed nestings. We do not desire to obtain possession of any birds, dead or alive, but we are working solely to

or alive, but we are working solely to save the free wild pigeon.

To insure intelligence and good faith informants of nestings are advised to encless, agree to forfeit, at least \$5.00 in case they have failed to identify the birds correctly. This is constant, as the content of the content of the only fair, since the amount may cover only fair, since the amount may cover only fair, since the amount may cover only a small part of the costs occas-ioned by a false report. The money will be immediately returned if the birds are found to be the true wild passenger pigeons.

passenger pigeons.

In sending reports give exact data, hour, number in flock, direction of flight, and descriptions of the nest, the eggs and the birds themselves.

Last year the Mourning Dove, the Fan-tailed Pigeon of the Pacific Slope, were mistaken for Passenger

Passenger pigeons nest during April or May, making rude scanty platforms of twigs through which the eggs can be seen. The nests are usually from 10 to 30 feet above the ground and are apt to be found in any woodland. There is usually one (sometimes two) There is usually one (sometimes two) celliptical white egg one and a half inches by one inch, in each nest. The Passenger Pigeon is 16 inches long from bill to end of tail, of slender build, and has a long graduated tail, that is, the central tail feathers are





#### er Pigeon

assenger Pigeo r another year ful last year in d noblest of a d noblest
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Dove, the he Pacific Passenger ring April

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thes long of slender ated tail, there are

to brownish.

The Mourning Dove is shorter by four inches and both sexes have black spcts on the ears and brownish backs.

The forchead of the adult is viaaceous

March 9, 1911.

The fore-based of the adult is vinecous. The fore-based of the fore-b

oughly wash them. Then put them in a draining pan and pour sufficient scalding water over them to thoroughly rinse the dishes, let them drain a few minutes, and then dry with a clean, dry towel. I have very little use for a towel at all, only to rub and polish a little, as they drain almost perfectly dry. I can recommend this method to every tired girl who dishless dish washing and consideration. who dislikes dish washing and considwho distlices that washing and considers it the least pleasing of all work. This method saves washing and drying towels, and if the above rules are practised, one towel will last a week.

"COUNTRY GIRL."

Here's a Home Dve That ANYONE Can Use.

HOME DYEING has lways been more ing- Not so when you use

JUST THINK OF IT!



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Farm and Dairy ....\$1.00 \$1.35 The Home Journal... 1.00

Farm and Dairy .... \$1.00 The Home Journal .... 1.00 Canadian Horticulturist or Poultry Review ... .60

Address, Circulation Manager

**FARM & DAIRY** Peterboro - Ont.

#### No Occupation

about twice the length of the cuter on s. The male is blue-gray above and on the head, and ruddy underneath; the female is duller colored inclining to brownish. (Suggested by the Census Blanks, which place housewives under the classification of "No occupation.")

of "no occupation."

From the Census blanks we learn,
That the one who runs the churn,
And that patches up your breeches,
In our shirst takes a few stitches,
And the one who bakes the bread,
And each day makes up the bed,
Milks the cows, feeds the hens,
Nalls the pickers could be feed to the consideration.

Nails the pickets on the fence, Skims the milk and feeds the calves. Skims the milk and feeds the caives Makes cough syrups and good salves Does the cooking, sets our tables, Sings us songs and tells us fables, Make her dresses, darns the socks, with the coloring of the common place work and the socks, and the colors, and a concealed position with a field plass and ascertain for a certainty that they are passenger pigeons before reporting.

\*\*Poish Washing\*\*

First in line in every bousehold is the cooking. This occupies about three-quarters of our time. Next is the dish washing. Almost every we man considers herself master of this commonplace work, and every one has a method of her own. The method I follow, and which gives the most sat isfactory results, is to neatly pile my dishes in the dish pan, pour over them some soapy water and thoroughly wash them. Then put them in a draining pan and pour sufficient scalding water over them to the oughly rinse the distance of the control of the pantry act as warden, or the mothes on the wall, but and water all the flowers, is the dish pan, pour over them some soapy water and thoroughly wash them. Then put them in a draining pan and pour sufficient scalding water over them to the oughly rinse the distance of the control of the pantry act as warden, when the control of the pantry act as warden, or the control of the pantry act as warden, or the control of the pantry act as warden, or the control of the pantry act as warden, or the control of the pantry act as warden, or the control of the pantry act as warden, or the control of the pantry act as the children. The basis and washing, wind the choices, manks the children, recks the baby, Knitting at the same time, maybe, Knitting at Puts the mothballs in our elethes, Dresses up some new scarerows, From the store keeps all the tags, Scours kettles, mends the bags, Irons out our Sunday shirt, Ne'er lest the little chiefs get hurt, And keeps all of them a-living, Raises turkeys for Thankegiving, And in sewing circles sews (Clothes the heathens wear as beaux, Carries slep down to the pig, And makes laprobes for our rig, Propping up the fence post leaning. Never misses spring housecleaning, Cuts the grass from off the lawn, Keeps the green, puts water on, Washes windows, fills the lamps, Cute us of our colds and cramps, Cuts the traps te catch the mouse, See the traps to catch the mouse, See the cold of the cold of

Where she surely without fail
Attends every bargain sale,
When she tries to get a vote
(From the Census blanks I quote),
All the housewires of our nation,
Simply have—"No occupation."

... The easiest way to clean carved picture frames is to use a small paint brush.

#### Gourds

Gourds

For covering ammer houses and arbors the gourds are very satisfactory. They grow like, like—vell, they grow like gourds of the Jonah variety—and that you will remember, if you are familiar with Biblical story, was very rapidly indeed, and their leaves will be large enough to serve as sunshades, individually, while collectively they will form a screen that is perfectly aun-proof. I would not advise the proof of the collective and general appearance to be satisfactory at close range.

### 

THE COOK'S CORNER
Recipes for publication are requested.
Incurries regarding cooking, recipes, cit., gladly answers, cit., gladly answers, cit., gladly answers, cit., property for the Household Editor, Parm and Dalry, Patarboro, Ont. r.

OATMEAL GEMS.

To 2 cups rolled oats add 1½ cups sour milk. Mix and let stand over night. In the morning add 1 even teasp. soda, a little salt, 1 egg, ½ cup sugar, and 1 cup flour.

#### CRANBERRY MARMALADE

CHANBERRY MARMAIADE
Pick over and wash 2 quarts cranberries and put over fire with cold
water to barely cover. Cook until
tender and press through a siever.
Add 4 pounds sugar, 12 pounds
seeded raisins, and contained pulpe
(cut fine) of three orange peel until tender. Cook all until thick and
set away in glass jars.

#### CREOLE SOUP

Cook 3 tablespoorfuls of chopped green peppers and 2 tablespoorfuls of chopped onion in a constant of the period of the period onion in the constant of the period of the vinegar.

#### MARSHMALLOW FUDGE

If your marshmallows get a little stale before using up, try making marshmallow fudge. Put 2 cupfuls marshmallow fudge. Put 2 cupfuls granulated sugar and 1 cupful milk in a saucepan and let the mixture come to a boil. Add 11/4 squares of chocolate, grated, and 2 tablespoorfuls of butter. Cock about 10 minutes, and then remove from the fire and beat until the fudge gets rather stiff, but not so stiff that it will not pour easily. Break marshmallows into several pieces, place in the bottom of a dish and pour the fudge over them.

#### ... Stuffed Apples

Stuffed Apples

Have on hand half a dozen Northern Spy apples, all uniform in size. Pare very closely, just merely removing the skin, being very careful not to cut into the flesh of the apple. Divide into even halves, dig out the cores so as to leave a cavity in the centre of the apple, put a little water in the bottom of the bake dish, arrange the apple halves in order in the Lake dish, and cover with a liberal cupful of swear. Writch very closely while baking, and do not allow them to break eff. The beauty of the dish consists in preserving the halves as whole as possible. As soon as the apples are cooked tender and soft, arrange them neatly on a shallow plate, leaving on piece of apple in the bake. range them neatly on a shallow plate, leaving cne piece of apple in the juice, which should be retained in bake dish. Add a cup of brown sugar and cook down until the apple develops into a rich brown sauce. Fill the cavities in the apples with this rich brown sauce and serve with whipped gream.

### \*\*\*\*\*\*\*\*\*\*\* The Sewing Room

Patterns 10 cents each. Order by num-ber and size. If for children, give age; for adults, give bust measure for walsts, and waist measure for ekirts. Address all orders to the Pattern Department.

#### น้องจองจองจองจองจองจองจ FANCY WAIST, 6886



#### FIVE GORED SKIRT, 6896



#### HOUSE JACKET, 6885



HOUSE JACKET, 6885

The simple breakfast jacket is one fast jacket is one fast jacket is one fast jacket is one has one tuck over each shoulder in a gruines. The right front is cut in two big scalips, but it was a shown in the small view, if preferred, and the neck higher with a turned over collar, the province of over collar, the province of the pro

### FOUR-PIECE SKIRT, 6888



I SKIRT, 688
The four-piece skirt is practical, smart and greatly in demand. This one takes straight lines yet is straight lines yet is the four pores. The front and back gores are four pores, the front and back gores are to give the effect of yet the effect of yet the effect of yet in yet is yet in ye

wide.
The pattern is cut for misses of 14, 16

#### ... CARE IN ORDERING

Be sure and state size, also number of patterns. Do not send illustrations of patterns. Order by number and size only. Your address is also quite necessary.

### OUR FARMERS' CLUB \*\*\*\*\*\*\*\*\*\*

NOVA SCOTIA

ANTIGONISH CO., N.S.

ANTIGONISH, Feb. 25.—During the past
month we have had more frost than
during the same length of time in the ANTIGONISH CO., N.S.

OUR FARMERS' CLUB | little stormy reather. Feed is pleutiful. Stock is communitative. Correspondence Invited | Correspond

PRINCE EDWARD ISLAND

PRINCE EDWARD ISLAND
KING'S CO., P.E.I.

MONTAGUE, Feb. 22—Winter
on P.E.I. has the coldest for many
years, several time the coldest for many
years, several time ga 20 below zero.
ice in the straits has the heaviest
since 1955. Most people have their win-



Safe because it will stand shocks and ill usage. Safe because it is a complete barrier against all kinds of stock. Safe because its tough, springy steel wire will give real service.

## SS The Fence that Saves Expense

is built of No. 9 galvanized wire of guaranteed quality. To this best of wire add the Peerless method of construction and Peerless lock and you have a fence

without a rival.

We've built Peerless fence twice as good and twice as strong as is necessary
under ordinary circumstances so that neither accidents nor extraordinary wear
taken affect it. saves you money because it is long lived and never requires
repairs. We know there is no fence made that will give you more lasting satisfaction. Write for particulars. faction. Write for particulars.

We also make poultry and ornamental fencing and Sates—all of it of a quality that our customers appreciate and we are proud of.

THE BANWELL HOXIE WIRE FENCE COMPANY, Limited, Hamilton, Ont.

No doubt your most important grain crop is the Oat crop NOW IS THE TIME TO GET YOUR CROP READY

Mow is the time to get your crop ready

If you have a clean, pure seed and a variety that yields you a crop
of over 60 bushels per acre, THEN there is no necessity to go further
than your own granary. But on the other hand, If YOU ARE NOT

SATISFIED with your own seed, its purity, and its yielding quali-SATISFIED with your own seed it; prity, and its yielding qualities, then WE THINK WE CAN MEI P YOU.

THE SATISFIED with your own seed it;

THE SATISFIED WE ASK ARE REASONABLE

As it is impossible for you all to each and and seed in the seed of the seed of

As it is immediate to you all to call and see our stock we will be a state of the property of

## GEO. KEITH & SONS

Seed Merchants Since 1866 124 King St., East, - Toronto, Ont,

PRESCOTT, Feb. 25.—We have more snow than for three or four years. Our creamman are out of the property of the

HALIBURTON CO., ONT.

KINMOUNT, Feb. 27.—We are coming to the ond, and the one was the one where unique in the way. Then a long winter unique in the way. Then a long winter unique in the way. Then a long winter we have the way. The snow has been three dead or the level of t NORTHUMBERLAND CO., ONT.

NORTHUMBERLAND CO., ONT.
EDVILLE March 2.—The coating of slippery ice upon the large free everywhere
makes it very difficult free everywhere
makes it very difficult free everywhere
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themselve the falling Some case, of
such falls in Batt have been known
to requit fatally a with serious injury.

All. HASTINGS CO., ONT.

S.H. HASTINGS CO. ONT.

SIDNEY CROSSING. Feb. 27th.—Winter crops will be damaged with the property of the prop

STONE WELLAND CO. ONT.

STONE UCARRY, Feb. 27—The Beatie
Cow Versie assistance of Goc. A. Putin score and the second of Goc.

Superintended on Feb. 20th and

God. The second of Goc.

God. The second of God.

G WELLAND CO., ONT.

NEW WESTMINSTER DIST., B.C.

LILLIWACK, Feb. 21.—The weather continuish line with frosts at hier set
tunshine is fine with frosts at hier set
tunshine is fine with frost coming back
appearing. The bins are coming back
to their summer bear all out door
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### -GRANGE NOTES

GRANGE ORGANIZED AT STEWART'S

GRANGE ORGANIZED AT STEWART'S
The forward MALLing or organized
agriculture took root in a tengthe mantick of the state o

ter's wood hauled, and are hauling mud now. Sleighing is earn good, but not over six inches of snow on the level-now of the l

The meeting at Drayton, Ont. in the interest of the Grange was fairly successful. The audience was small but energetic, and those present decided to or anize a Grange on Larch 4.

Farmers everywhere are well pleased with the new tariff proposals, and a decided stimular given threby to an organization preference to the proposal form of the proposal forms of the proposal forms

GOSSIP

GOSSIP

SALE AT GUELPH

The annual sale AT GUELPH

bulls held last week gars bred Shorthorn

bulls held last week gars bred Shorthorn

to the Gnelph Fat Stock Clift, do suggested

of the Gnelph Fat Sto

### HELP WANTED

At once for work on Stock and Fruit Ranch Man and Wife. Furnished House provided and everything found. Single Man or good atrong Boy. Apply with particulars of experience, salary expected, etc., expected, etc.,

CRESCENT VALLEY RANCH,

Crescent Valley, B.C.

FOR SALE

Cheese factory, good buildings and quipment, good dwelling above curing coom. For further information address D. C. FLOTO. 171 BALDWIN STREET TORONTO, ONT.

AGENTS WANTED

AGENID WANIEU

55.00 a day sasy. No experience needed.
selis on sight. Absolute necessity to farm.
ers. Done work of 30 men. Pays for itself
in one hour. Write today. MODERN
MACHINERY CO.. Box 87, Sarnis, Ont.



SYNOPSIS OF CANADIAN NORTH-WEST LAND REGULATIONS

SYNOPSIS OF CANADIAN NORTHWEST LAND REQULATIONS

Any person who ale the sole head of a family, or any male the sole head of a family, or any male the sole head of a family, or any male the sole of the sole of

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The price of wheat has been see-sawing somewhat during the past week, but
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COARSE GRAINS.

The volume of coarse grains coming in is small and prices have been steady. Corn is still on the decline with barley

Wagon Paint

Makes the Wafon last longer

The waron maker smiles when he sees the way some farmers neglect their warons with the warmer was the warmer was the warmer was the warmer was the warmer warmer. The waron maker knows the value of paint-knows the valu

MARTIN-SENOUR WAGON PAINT

is made expressly for painting lumber wagons, sleight ments and tools. It readily flows from the brush, is of with the control of the control

¥

The Martin-Senour Co., Limited Montreal

This coupon entitles you to a free can. Be sure you get it.

P O

Present this coupon to any Martin-Senour Dealer, and receive free a half pintsample can of RED SCHOOL HOUSE PAINT To Dealer—You are authorized to bonor this coupon when presented. The Martinsance Coupon You are authorized to honor this coupon ted. The Martin-Senour Co., Limited

Toronto, Monday, March 6th—We never expect either the wholesale or retail recovered either the wholesale or retail recovered the recovered either the wholesale or retail recovered the recovered either the wholesale or retail recovered the r

St. 50: red clover, No. 2, has also to 58.75; red clover, No. 3, bus. 85.00 to 58.70; red clover, No. 3, bus. 90 to 58.70; red clover, No. 3, bus. 90 to 58.70; red clover, No. 3, bus. 90 to 59.70; red clover, No. 3, bus. 90

HAY AND STRAW

HAY AND STRAW

The demand rown in Toronto is good, quotations are or have in Toronto is good, quotations are or have in the form of the first in the

DAIRY PRODUCE

Trade in dairy produce this past week has been dairy produce this past week has been been for both the produce of trade was large but store. The volume of trade was large but store of the produce dairy prints lie to 19c; inferior choice dairy by the farmers market, choice dairy but the farmers market, choice dairy large and 126 for large and 126c for twint.

There has been another slight break in the case the considering the considerin

HORSE MARKETS

The demand for horses from the Canadian West is opening up a little and a few ear loads are going forward from country coints. The trade however is anything but lively. Quotations are as fol-

was: Good heavy draughters \$550 to \$550; medium weight. \$100 to \$250. Good agricultural horses bring \$150 to \$250. and fair quality ones \$100 to \$250. Express \$350 to \$350. Express \$



Have You Seen The New "Galt" Shingle?

In justice to yourself, you should at least investigate "Galt" Steel Shingles before deciding on the roof for your new barn or the new roof for your old barn. Present wood Shingles are failures and are being discarded—to use them is a step backward. Don't put a fourth-class roof on your finite-class barn. "Galt" Galvanied Steel Shingles is the roofing. Galt "Galvanied Steel Shingles is the roofing. Steel and for the inture. Roof your new barn with "Galt" Steel steel and you won't have to apologies for it now or at all time in the further.

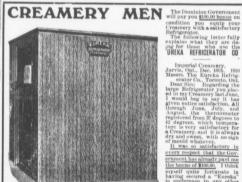
Steel Shingles and you won't have to apologue for it now or at any time in the future.

Listen, you won't have time two months hence to investigate this reofing question. And yet the roof of your barn is an important part of your establishment of the selected carefully.

Won't you drop us a card mean for our booklet "ROOFING ECOMOMY" telling all You haven't paper and ink handy, tear out this advertisement, write your name on the line at bottom and mail to ms. We'll know what you mean. You'll never have a better chance than right now.

THE GALT ART METAL CO., Limited,

Watch for the advertisements with The Kids from Galt.



Imperial Creamery,
Jarvis, Ont., 1986, 1910.
Mesers: The Eureka Herrigerastor Co., Toronto, Ont.,
Jarvis, Ont., 1986, 1910.
Mesers: The Eureka Herrigerastor Co., Toronto, Ont.,
June Creamery Inst. June,
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BBII Calves aired by Conn Hengerviel Fayne De KCI, wide John State of the two great cows. Grace Paynes of the two great cows. Grace Paynes and great company of the mile in the grace of the gr

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Bons of Poutle for North Control for Investigate to the world's record ow Poutle. Cite of the World's record ow Poutle. Cite of the World's record own Fourle for Investigate to the World's record average in the aughters whose 7 day records average in the aughters whose 7 day records average in the sughters whose 7 day records average in the large first the first of the breed, living or dead. He is the sire of the breed, living or dead. He is the sire of the breed, living or dead. He is the sire of the breed, living or dead. He is the sire of the breed, living or dead and he live has a point of the world.

We also offer some of Rag Apple, for a first world, whose dam Pontials Rag Apple, it as for the world. The world has a first world and her full first plus young sire's dam and her full first plus young sire's dam and her full first plus young sire's dam and her full first world.

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Montreal, Saturday, March 4th-There
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from Great Britain was not of cheese
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With name and numbers—for
cattle, eheep or hogs. Sample
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For Quick Sale Eight grade Holstein cows and three one-year-old heifers in calf. Seven of the sociations been in the Cow Testing as sociation of averaged 1.012 lbs milk, 32 per cent. fall my grade 1950. I am di-posing of all my grade Write to day for particulars and price, or come to see me.

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ELMDALE DAIRY HOLSTEINS ELMOALE DARRY MULSTEINS
FOR SALE-One searling bull, and bull,
calves, sired by "Paladin Ormsby,"
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ibs. butter in 7 days, and 7 days dam
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butter 60 days after calving. butter 60 days after calving.
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Afr Wr F Pete gi Pleasant, Ont.

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RKET, ONT. teins months old, e Paul De in the ad-e bulls are erformance. ticulars or oes reason.

ICK. EWOOD, Ontario D 16th, 1910. t dame in on days.

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CRUMB'S IMPROVED STANCHION

March 9, 1911.

Holsteins For Sale Two highly bred Holstein bulls fit for service, sired by the great Mercena's Sir Posch 2nd. Prices moderate for quick

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Choice bull calves by a son of Nether-land Assgir De Kol champlan Hecord of butter, 880 lbs., and out of two year old Becord of Performance beffers with re-form aged Record of Reo bus milk, and from aged Record of Reco

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59 A.R.O. daughters, two of which have records of over 28 lib. butter in seven at the joint of the felleville bleist Holder in Breeders' Club in Bellstein Breeders' Club in Breeders' Clu

responsibility and tried to live up to it, their club would not be as effective as it might be. He told what had been a sear old, will be offered. They are a continuation between the continuation of the continuation required the cost of their seep. Thus it was possible to determine the net profit derived The bulls used by members of some of the associations had to be tested for the associations had to be tested for the continuation had to be tested for the continuation had to be tested for the associations had to be tested for the associations had to be tested for the clubs selected the bulls with the clubs selected the bulls with the clubs selected the bulls with the retreated sever and the cowe hat could be club to the clubs selected the bulls with the retreated sever and the cowe that could be continued. The Department of Agriculture recognized this and was arxivous to encount.

Mr. Hume natives diving helfers a little longer than two years before having them freshen in order that they might attain length of the continuation of

we'll in the post and will do overer in feature.

Feature, Month and the state of the first annual anction sale of the Belleville District Holstein Breeders' Club will be held in Belleville. April 7 with the belleville District Holstein Breeders' Club will be held in Belleville. April 7 with a constant of the state of the state

milk, making 8437 lbs. of butter in thirty days.
Amount he breeders who are consignation and the breeders who are consignated to this sake, awe F. E. Mailbry, and E. B. Mallory, of Frankford, A. D. Foster, of Bloomfield, James A. Caskey, of Madoe, S. J. Foster of Bloomfield, W. Anderson, of Rossmore, U. A. Brethen, pure bred cattle will be sold. The Glub has decided to fine any breeder who is found returning any animals to his stables 555. This money will be retained The State of the Market of the State of

"We now have representatives of this herd at both ends of the Dominion, having some times ago sold to Samuel Dickle, Central Onslow, N.S., a son of our Felbon be Kol, with a three-year-old Felbon be Kol, with a three-year-old the times of times of the times of the times of the times of times of the times of the times of the times of the times of times of times of the times of t

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A pair of choice calves dropped in March and Ap-ril 1910, both from Re-cord of Performance dams testing high in but-ter fat.

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WAN'T you to do as he did—for your own good. Like a great many other people he had seen many of my advertisements. Had read some of them, just as you are reading this one. The time came when he was figuring on a new roof and he read one of my adverting his good and he read one of my adverting the same as wood shingles and were Shingles cost about the same as wood shingles and were likely and the same as wood shingles and were he read that slate cost six times as much, and so called "away roofing" cost hirry-three times as much. That Oahaw, roofing "cost hirry-three times as much. That Oahaw, roofing according to my advertise times, and the same shows the same time to the desired to be everything man could desire in a roof-meeting to the cost of the shoot of the read my guarantee. That time presead him as being very straightforward, dependable, "If that means all it says: "A perfect roof for 25 years, or a

new one free," he thought, "why this advertisement is no idle boast." "By using Oshawa Steel Shingles I settle the roofing question definitely for at leasa 55 years. If this concern is financially reponsible that guarantee scens to cover everything." "Guess I'll send for their booklet, end with the roof years of the roof of the

Do Send for My Book of the facts. The Facts About Roofs A. A. Pedia The book is free. Write to our nearest office for a copy.

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Figure the cost now, material and time, for covery kind of roof you know anything about, over kind of roof you know anything about, and are diginated Steel Shingles you'll not a support to the covery which will be considered the control of the covery who will be considered to the covery with the substantial of the covery will be covered to the covery will be cover

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Some makers of metal shingles (notice they don't say "steel") talk boastfully about roofs of theirs which have stood of theirs which have stood of their shich have stood holes, a perfect roof, no leads, no rusted when the stood of the NEXT 25 years. Do they Feellar does.

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Can you afford to put on a roof that will need a some disting next year, more fixing seasin the some disting next year, more fixing seasin the much fixing and so on, until it needs so much fixing and an entirely new roof is necessary? Can an entirely new roof is necessary? Can are entirely new roof is necessary? Can are entirely new roof is necessary? Can are entirely new for a contract to the contract of the c



Here Are Two Patterns of Oshawa Steel Shingles

They come in squares 10 r 10 pt --covering 100 square feet of roof. They re stamped from heavy sheet settled -28 grant squares from the squares from the squares of the squares from the squares

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