Issued Each Week-Only One Dollar A Year

VOL. XXXI.

RURAL HOME

PETERBORO, ONT.

MARCH 21



In matters pertaining to the Maple industry, as indeed to other natural, or agricultural industries, we farmer have given our whole attention to production, and have not given thought sufficiently to the selling. Serious handleaps to the industry have developed owing to gluted markets in congested disease and to the wide-spread sale of adulterated, and so-called Maple products, which never came from the Maple tree, yet because and to the wide-spread sale of adulterated, and so-called Maple products of the Maple, and because of the less cost of manufacture and displacing the natural products. We Maple producers should look alive in regard to these matter and as urged in recent issues of Farm and Dairy attend to the matter of advising members of parliament to support the legislation now being sought to protect from fraud the important Canadian Maple Industry.

— **Cene showing sugar exemp on Jos. Mountain's farm, Perth Co., Ont.

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WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

"WILL we get a good price for cheese this year?" "How'll butter pay?" "Are more farmers going in for Dairying?" "How have the cows wintered?" is the condition of the feed supply?

In a word "How About Dairying in 1912? These questions will be answered so far as

'tis humanly possible, April 4. Tis humanly possible, April 4.

The purpose of our Great Dairy Annual, out April 4th is to give these answers from the recognised leading authorities in a position to grows where our three positions of the position of the



ers Talk Politics with

The "Big Interests" do their Talking with the Farmers' Member

Experience with a Grade Sire

Malcolm H. Gardiner, Delevan, Wis In Farm and Dair; of February 29 I made some remarks on the value of the official tests, and indeed any kind of tests, to the plain farmer-dairyman of tests, to the plain farmer-dairyman in patching up those holes in his in-tellect that allow the bulk of the profit he might get from his work to slip away and escape his grasp, and I in-timated that the only way to successimated that the only way to successful, money-making dairy farming was through a selective process and the grading up with pure bred dairy blood. A man may argue that with the aid of some system of testing he has discovered and got rid of all the cows in the herd that fell below the herd average in production, he can by saving the heifer calves from the resaving the heifer calves from the re-maining cows soon have a herd as good as the best; but if he tries it without the use of a bull with fixed dairy qualities he would be apt to meet with sore disappointment. It know, for I have travelled that path myself, and found it pretty thoroughly peset with thorne

In looking backward men do not as a rule speak of their failures; they prefer to dwell on their successes. My life has been what men call successful but it has been so because I have kept but it has been so because I have kept a sharp lookout for my own nistakes and have never been pigheaded in pursuing what I felt to be a wrong course. The man who happens to get hold of the hot end of the poker and then holds on shows ground then holds on shows good judgment. In the hope that it will serve as a warning to such that it will serve as a warning to such men as want to improve their dairy herds but think they can best do it by the use of grade or cross-bred bulls, I am going to tell of one of my own early mistakes

MY OWN EXPERIENCE When as a young man, urged on by ambition I overtaxed my strength and suddenly found myself with shattered health, I turned to the land and outheain, I turned to the land and out-door exercise as the only means for recovery. I knew little or nothing of good farming, but read everything I could get hold of, and tried to sort out that which seemed to be reason out that which seemed to be reasonable and to fit my circumstances. The farm was a grain farm, heavily mortgaged and showing little profit. I saw that it must be changed into a stock farm, and chose dairy farming, stocking with the best cows and heif-ers of common blood I could pick up paying 25 per cent, more than the

know that the bull was such an important factor in a dairy herd, and I had spent all the money I could raise had spent all the money I could raise for the cows. I had read about the black-and-white Dutch cattle that were just beginning to appear in the Middle West, and had heard of the folly tof a man about 10 miles from me who had about 18 months before paid \$8.50 for a yearing bull; but while I in thought the price beyond reason, as Hand also leaves land in better the price beyond reason, as Hand Co., Ont.

far as I could learn the breed was just

what we needed MY FIRST MISTARE

A neighbor of this man with a herd largely of Short-horn blood had bred his best cow to the pure bred Holstein bull, and the cow had a fine bull calf. buil, and the cow had a fine buil calf. A neighbor of mine proposed that we buy this calf in partnership, and as the dam was certainly a fine dairy buy this call in partnership, and as the dam was certainly a fine dairy cow I agreed and we bought the calf for \$40. He was certainly as fine a Holstein (?) calf as one would wish to see, becoming as he grew much more attractive than his sire, and I was very proud of him—for a time. In due time his first calves were dropped, nice calves all of them, and nearly one half showing the black-and-white half showing the black-and-white markings; and the cows were again bred to him. My neighbor was much pleased, but I had been reading pleased, but I had been reading, studying and thinking during the 18 months and had begun to fear I had made a mistake.

made a mistake.

I went to my neighbor, told him my conclusions, and proposed that we sell the bull and buy a pure bred animal in his place; but he assured me that in his place; but he assured me that he was satisfied with the animal, and quickly accepted the price I made on a give or take basis for my half interest. I have not the space to tell here of my purchase of a pure bred bull but will go on with my story. In time the tweether the my story. bull but will go on with my story. In time the two crops of heifer calves came into milk; but in no case did 1 find them better dairy animals than their dams at like ages, while in most cases they were inferior, and my neighbor's experience was the same, only he had four crops of calves to my two. He sold the bull for beef at con-siderably above \$100 and had no us-for any black-and-white animal from for any black-and-white animal from siderably above \$100 and had no use for any black-and-white animal from that time on. I got rid of the heifers as fast as possible; but I lost two years of time and no small amount of money because of my ignorance of the laws of heredity.

WHY WE WERE WRONG

Here was our mistake. Because his dam was a good dairy cow individualdam was a good dairy cow individually, and because he had the best of dairy blood on his sire's side, we expected the get of this bull to show high dairy quality; entirely failing to consider that we were expecting the one fourth of Holstein blood in the progeny to dominate the other three fourths of largely non-dairy blood tourths of largely non-dairy blood. The tail cannot was the dog. My friend showed the courage of his convictions. Holsteins were no good, and he showed his grit by keeping hold of the hot end of the poker for 28 years. But two years ago he more than survised we have the same than the same th by Dayling we market price.

They were a good lot, largely of the hot end of the poker for 28 years. Short-horn blood but good milkers for But two years ago he more than surther the kind, and I wanted to improve the pired me by coming to consult me herd as a dairy herd. I did not then the herd as a dairy herd. I did not then the bull was such an important the bull was such an important the property of the poker for 28 years. The short was a such as a s

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Vol. X

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Mr. Cot chased his firm, but concerns. ducts, if 1 well known and are m ing materi THE

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This leads Cottingham's says: "I pur recommended arpents of h potatoes and crops mentio but in varying much less pot tatoes consun grain. All food in differ me to see how mine the fate only one gene varying in th

Again, the gard to the nitrogen in ti heavy loam, w nitrogen what be applied, fir crop upon whi with regard to Each Week

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FOR WEEK ENDING MARCH 21, 1912.

No. 12

MORE TESTIMONY TO THE VALUE OF COMMERCIAL FERTILIZERS J. Egbert McQuat, Three Rivers, Que.

Where Mr. Cottingham Falled to Give Commercial Fertilizers a Fair Trial. Personal Experience with Fertilizers on Corn. Fertilizers Were Tried on Oats Also.

OME time ago a very interesting article entitled "Do Fertilizers Pay?" appeared in the columns of Farm and Dairy, in which their use was condemned. I cannot agree with-Mr. Cottingham's opinion of fertilizers in general, although what he says of his own results are undoubtedly true. In taking up this discussion I am not endeavouring to champion fertilizers unconditionally, because my experience with them has not been very great, and therefore I must write conservatively. Instead of making any sweeping statements, I shall only endeavour to show that the writer is hardly in a position to render a final judgment of "uselessness" upon fertilizers.

Mr. Cottingham does not state where he purchased his fertilizer. Perhaps it was from a good firm, but it would have been fairer to the honest concerns, who are not afraid to own their products, if he had mentioned that fact. It is a well known fact that many fertilizers are useless, and are made up of filler and low-grade fertilizing materials

THE SAME FOODS, DIFFERING AMOUNTS

It is well known that three different elements, nitrogen, potash and phosphoric acid, constitute the three principal foods of plants and crops, These are all found in a varying degree in all soils. Different crops absorb all these materials, but in different amounts. A fertilizer is supposed to contain these elements in concentrated and readily available form. A reliable fertilizer is one which contains the plant food in that proportion demanded by one particular crop. No one fertilizer can thus be made to apply unconditionally to all crops.

This leads us to notice a weak point in Mr. Cottingham's test of fertilizer. In his letter, he says: "I purchased two tons of fertilizer specially recommended for wheat and corn for use on three arpents of hoed crop, viz.: Fodder corn, roots, potatoes and Indian corn." Every one of the crops mentioned, demands the three plant foods, but in varying amounts. Thus grain requires much less potash than corn or potatoes, while potatoes consume more potash than either corn or grain. All of these crops require their plant food in different proportions. It therefore puzzles me to see how a fair test could be given to determine the fate of fertilizers upon the farm, when only one general fertilizer was used upon crops varying in their food demands.

THE SOIL COUNTS TOO Again, the fertilizer should be chosen with regard to the soil. A sandy soil requires more nitrogen in the fertilizer applied to it than a heavy loam, while a peaty soil needs no foreign aitrogen whatever. A fertilizer therefore must le applied, first, with due regard to the special crop upon which it is to be used, and, second, with regard to the nature of the soil. As far as

one can judge from the article, both these pointed were neglected to at least some extent. Since these conditions were not fulfilled, it is hardly fair to pass judgment.

MY OWN EXPERIENCE

Last spring I wished to apply some fertilizer to our field of western corn, owing to a scarcity of I first wrote to Macdonald College (Chemistry Department), asking them what would



Is Any Other Crop Harvested With Such Ease?

In this illustration Mr. Jos. Mountain, Perth Co., Ont., is seen tapping his trees to get the sap shaf feeds the boiling plant shown on the front cover of Farm and Dairy this week. Notice that the cover of Farm and Dairy this week. Notice that the cover of the cove

be a proper fertilizer to apply to western corn in a field composed of a heavy loam with a little clay in it. I promptly received a reply from H. S. Hammond, B. S. A., telling me the proper amounts of each of the three plant foods to use upon this field. Having received this analysis, I sent to the German Potash Syndicate, Toronto, ordering these materials, each in separate bags. On their arrival I mixed them up myself and thus knew exactly what I was doing. I did not have the advantage of a fertilizer attachment, but spread the material along the rows by hand on about two acres of corn, leaving six or seven rows at one side unfertilized.

RESULTS WERE BENEFICIAL

The season was a very unfavorable one, yet I think I can safely say that the results were beneficial. Besides a very dry June, which hindered the action of the fertilizer, a hail storm did a great deal of damage on July 21st. Up till this time the corn made a very strong and vigorous growth. No manure had been applied in this field for a great many years, and still the fertilizer gave the corn as good an appearance as corn grown in previous years, where manure had been used. The hail storm gave the corn a severe setback, and so I would not pretend to compare it on

One thing that was very noticeable was the large number of ears on the corn as compared with previous years; the same strain of corn was used for three or four years. Another feature was that those rows unfertilized were not so good in color or in height as those fertilized. I have that much faith in fertilizer that we intend trying it again in the spring, because it showed up under adverse circumstances.

GOOD ON CORN AND OATS

I have a letter from a Mr. Boyd, of Mount Flats, Que., in which I received an answer to some questions I asked him. This gentleman has had good results from the use of fertilizer upon both corn and oats. He also states that there was a slight Leneficial after-effect upon the ground on which the corn had been grown. It has been used considerably in his neighborhood, and he says that as far as his experience goes he has had good results.

In writing this article I have only attempted to show the necessity of knowing the exact conditions and of following them, if we would give fertilizers a fair trial. Even then we cannot judge them for conditions over which we have no control often interfere with our first attempts, such as I have mentioned in my own case.

Selection and Breeding of Dairy Cows

By Prof. W. J. Kennedy

In selecting dairy cattle it is always difficult to judge accurately with the eye. The real test must be the weigh scales and the Babcock tester. The cow is a machine to convert food into milk, thus she must have a large middle and a strong constitution to insure best results. She must also have a large udder, large milk wells, large crooked milk veins and good sized teats. Her head should be lean and angular in appearance, with the eyes standing out prominently. The neck should be rather long and lean in appearance, the shoulders pointed and the back-bone rather prominent. The skin should be loose and soft to

In selecting herd bulls, either mature animals which have already demonstrated their worth as sires or younger animals from high-testing dams and sires, only should be used. Remember that the best and surest results will always follow the use of a mature sire that has sired heifers with good records. A good dairy bull should be kept until he is 12 or 15 years old, in fact as long as he is a sure sire. Real good sires are so rare that when we do find one, he should die only of old age.

All treeders of dairy cattle should secure yearly tests on each and every cow in the herd. Shorter tests do not really mean very much. It is the cow that stays by her job that is really valuable.

ARTICLE 15.

If our township taxes were to be increased five to ten dollars a year without apparent reason, most of us would raise a vigorous protest. Why? Becquee we know what our taxes are usually and bout what we feel they ought to be and we object to paying more except for services rendered. When, however, five or ten dollars a year, and possibly more, is added by the railway companies to the cost of the goods we buy we do not say anything. Why? Because we do not know how it is done. In fact, we do not realize that it is done. Creat, therefore, is the power of indirect taxation.

We, the people of Canada, have been very good to our great railway corporations. We have given them hundreds of millions of dollars in direct money grants and millions of acres of land. In addition we tax our railways less shan railways are taxed anywhere else on this continent, and we pay higher railway and express rates than people pay in many other communities.

in return for all this our great railway magnates continue to exploit us in order that they may squeeze a few million dollars a year more out of our pockets into theirs.

"MELON CUTTING"-A SIMPLE PROCEDURE

"Melon cutting" is a comparatively new method of defrauding the public. It is a method our great financial magnates are becoming very tond of. The men who control the Canadian Pacific are some who have been using it quite extensively. It is well, therefore, that we should know just how it is done.

OUR UNDERSTANDING WITH THE C. P. R.

The people of Canada have an understanding with the Canadian Pacific Railway Company, in fact it is embodied in its charter, that when it is able to pay more than ten per cent. each year, on its capitalization its rates shall become subject to government regulation, or in other words be reduced. Such a reduction in rates would be of benefit to every man, woman and child in Canada. We should have had a reduction in rates long ago, in fact several of them. We have not as yet had even one. This is the simple way in which the company is getting shead of us.

Suppose this is a period in the company's history when its capital stock is \$225,000,000. Suppose it is paying seven per cent, on that capital, or \$15,750,000, in dividends each year. Because this stock is paying such good dividends, and because the Canadian Pacific Railway Company is known to possess great assets, a \$100 share of stock in the company (par value) is really worth much more than \$100, and people would pay more than \$100 for it. Now suppose the Canadian Pacific Railway desires to build a new branch line that will cost \$25,000,000. To raise this money the compar decides to sell more stock. Instead, however, of selling only \$25,000,000 worth of stock, it sells \$75, This stock, also, is not offered for sale to the public. It is distributed among the present shareholders of the company in proportion to their present stock holdings. Perhaps each holder of C.P. R. stock will be given an allotment of one share of new stock (at par value, although it is usually worth more) for every nine shares of stock already possessed, and for every share of the new stock thus purchased a bonus of two shares is given free. Or the new stock may be issued at 33% cents on the dollar in the proportion of a new share to each three C.P.R. shares already held. At any rate, \$75,000,000 of new stock will be issued to the shareholders of the C. P. R. for only \$25,-000,000, and we, the people of Canada, will be called on hereafter to pay railway rates that will enable the C.P.R. to pay dividends each year on that \$50,000,000 of watered stock, or if its dividend rate is seven per cent., \$3,500,000 a year. This \$3,500,000 a year represents just that amount of indirect taxation, which we, the people of Ganada, will have to pay each year to the shareholders of the Canadian Pacific Railway Company. As some of the shareholders of the C.P.R. hold several million dollars worth of stock in that company the bonus in new stock which they thus receive is equal to a gift of several hundred thousand dollars. A shareholder of the C.P.R. who receives \$100,000 of this watered stock, expects us to pay him at least \$7,000 a year dividends on it here-

Now, why does the C.P.R. sell \$75,000,000 of ctock in this way instead of only \$25,000,000? For two reasons. First, in order that it may increase its cripital stock to such an extent that it will never have to pay over 10 per ont. on it, and thus give the government the right to lower its rates, and second in order that it may in this indirect way pay its shareholders really much more than ten per ont. on their stock.

HOW WE ARE AFFECTED

How does this affect us? Very directly. Suppose we happen to be shipping milk or cream or poultry or eggs to some city—and every farmer does ship his farm products in some form either directly or through a buyer—and we begin to feel that our freight bills are unduly high and make complaint accordingly. "Why," says the C. P. R. in answer, "we are only earning seven per cent. on our capitalization. We can show our bocks to prove it." And, hitherto, we farmers have been content to fet it go at that. In consequence, the extra freight we thus are forced to pay is maintained not only on all those products of our farms that we ship but it is added also to the cost of the goods we buy, including our farm implements, clothes, tea, sugar and boots, and we wonder why the cost of living is so high.

One of Canada's chief railway authorities, an ex-minister of Canada, has declared that the C.P.R. to-day is paying something like 60 per cent. on its original expenditure. In consequence we are all paying more in freight rates than we should and as usual the burden falls mainly on us farmers because we form the greater part of the population of Canada. This, in its way, is one of the factors which is helping to promote rural depopulation. A farmer who waters his milk, if detected, is hauded into court by the government and heavily fined and ever after that is held in suspicion by, his neighbors. A railway company which waters its capital stock by millions of dollars, does it with government assistance, and the millionaires who are thus created are called financial genuless. Some are given titles.

If we but realized it, we have the power to stop all this. We could bring such pressure to bear upon our members of parliament they would refuse to give the C.P.R. power to increase its capital stock. In addition, we could secure power to tax the roadbed of the company in accordance with its value. There are many other ways in which we can protect ourselves when once we realize what it all means. We have a great power that we can use through united action. It is time we used it, as we have never done before.

Milk Fever Preventable

C. E. Smith, Brant Co., Ont.

During the last eight years we have not had a case of milk fever in our herd. We have always tried to avoid it, thinking that prevention is better than cure.

In the first place our cows have daily exercise, weather permitting. We always try to have our cows quite loose in their bowels. We try and feed plenty of roots and ensilage, and if these fail to have the desired effect we give a pound of salts about a week or 10 days before freshening and repeat with half-pound doses as often as we think advisable. Careful observation will direct as to the time the dose is required.

After freshening we do not milk the cow dry for two days, taking only what is needed to feed the calf. The cow is kept as quiet as possible and given plenty of water. We do not consider the heavy producing cows as any more subject to milk fever if properly handled and fed for at least two weeks before freshening than is the ordinary 3,000-pound cow.

A Successful Corn Grower's Method

A. E. Wismer, Essex Co., Ont.

The first essential of successful corn growing is the selection of good seed. I have me it a practice annually when husking to pice the choicest cars. These are placed in a room that is heated, and left there until thoroughly dried. If the corn freezes before it is dried it will not germinate. I never shell it until I am ready for planting. I have found that from 96 to 98 per cent of corn so treated will germinate and rapidly continue in its growth. Those who did not select their seed corn last fall and those who live in sections where corn does not mature should buy their seed corn on the ear from the best grower they can find, and test its germinating powers before planting.

I have also followed the practice of rotating my crops. I prefer to top dress a meadow, then plow it and use it for corn. I have found through experience it is Letter to plow the land in the fall. It then holds the moisture during the following year better than if plowed in the spring. Early in the spring I work the soil, let it rest for a time, work it again, cross work it, drag it and then plant.

METHODS OF PLANTING

I plant the seed in hills three feet six inches each way for husking and for feed in drills three feet apart, and the stalks from four inches to six inches in the drill. By using the hill method one can cultivate both ways. Cultivation is work that makes our crops a success. I cultivate at least once a week until the ears have grown to be a good size.

I have found that Small White Cap or Wisconsin No. 7 can be grown successfully in our district. Both varieties yield a large amount of corn, and are especially good for the silo, the Wisconsin being preferable to the White Cap, as the foliage grows very close to the ground.

For several years I have been successful in winning prizes offered for both fields of corn and for corn on the ear. This year 47 entered for the prize offered by the Essex Agricultural Society for the best field of standing corn. I won first place; and at the Tilbury Corn Show I took the first prize for the Small White Cap taken from the same field. Hence my methods have been successful with me on my farm.

Modern utensils are required in the production of maple syrup just as much as in any other branch of farming, if a first class article is to be produced at a profit.—C. A. Westover, Missiquoi Co., Ont.

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Should Cows Face Each Other?

C. P. Blanchard, Colchester Co., N.S.

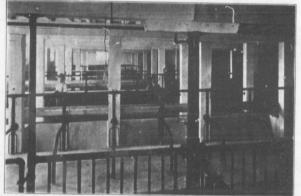
10-31-htul, convenient and economical way in which to build cow barns. I was amused at the arguments used by your correspondent, N. C. Campbell, Brant Co., Ont., in Farm and Dairy, with reference to the danger of infection in the case of tuberculosias animals when they stood in rows facing each other. It would seem as though he sas having one row of cows tuberculosis and tho other row healthy, because your diseased cow is much more likely to infect the cow alongside her than the one across the passage.

First, let us see about the ease of attendance. From our experience of over 40 years I would say that in attending a barn of 30 cows you will say at least 30 minutes each day, which means The syrup is finished (boiled down to 13 lbs. 2 ozs. per Imperial gallon) in the evaporator, strained through felt strainer and when cool put up in one-gallon cans and labelled.

The secret of good syrup and augar making is to get the sap into syrup as quickly as possible after it seeps into the bucket. This necessitates a modern evaporator and clean metal utensis. The evaporator should be large enough to handle the sap as fast as gathered, and to do this with any machine the best of dry wood is necessary. Shallow boiling is also essential. I do not use overered buckets, but in a very stormy season they would be a great help with the would be a great help with the second statement of the second se

More Ideas on Freshening Cows

C. W. Thompson, Hastings Co., Ont. Our cows that are going to freshen soon are



Fittings Such as These are Possible to the Small Stable Too
Convenient, sanitary, up-to-date in every particular are the interior arrangements of the dairy stables at the
Hamilton Asylum Farm. Notice the steel partitions and stanchions, chain fasteners, and continuous watering
trough. All of these conveniences can be adapted as well to the small stable as to the large.

fully 100 hours during the stabling season by feeding from a central passage. We have our feed passage, interest feet wide from stanchion to stanchion, with hay chutes in the centre, which also act as ventilators and take away all draught from the heads of cattle, which is a most important thing. We advise having a feed carrier for about feed, with track in centre of passage, and never to hire a man to milk whom you have to watch because he will ruin your cows under any circumstances.

We don't know much down here in out-of-theway Nova Scotia, but one thing we do know, and that is to kick any man out of the stable in short order who will ill-treat a milk cow in any way, and also that it is possible to have a herd of Ayrshire cows that will make an average of 10,000 lbs. of milk a year and produce a sound, healthy calf at the same time in 12 months.

Experience in Syrup Making H. H. Brown, Stamstead Co., Que.

It ap 1,800 trees, using 14-quart tin buckets.

Not of these are painted white outside to preserve the tin from rust and to reflect the rays of the sun, thus assisting in keeping the sap cool. My evaporator is a five by six-foot Champion. My gathering tank and storage tank are of galvanized iron. The sap flows by gravity from the gathering tank to the storage and thence to evaporator.

I strain the sap twice and skim the foam from the evaporator frequently to remove impurities. being fed on good, wholesome food, so that when they freshen they will be in as good condition as they were when they ceased milking. Our young heifers that are going to milk we feed better than the mature cows, as the heifers have to grow physically as well as nourish their calves.

As the critical time approaches the cow needs better feed than she required in the fore part of the winter. All grain rations are discontinued one week before the cow freshens in our stable and kept away from her for about 10 days after she has freshened, or until all sign of fever has disappeared from the udder. The grain ration, however, is replaced by bran or roots to keep up the strength of the cow and at the same time keep the blood cool. I do not think it well to allow a cow to stand around the yard during the winter, especially if the wind is blowing. I think this is one of the reasons why so many cows retain the afterbirth.

Just before a cow freshen: I give her a pail of water fresh from the well, and as soon as she freshens I give her another half pail and every half hour until she refuses to take it. I keep the cow as warm as I can and free from draughts, and I have had very little, if any, trouble with freshening cows since I Legan this method of treatment about eight years ago.

On a heavy soil the poultry house should be floored. Anything is preferable to boards. Have eight inches of gravel under the cement. On sandy soils no floor in the bouse is required.

Artificial Brooding of Chickens

Chas. G. Golding, Assiniboia E., Sask.

The best time to prepare a brooder for chickens is about the time we place the eggs in the incubator. Having gotten our incubator sicely under way we take time to thoroughly overhaul our brooders, although we have, of course, cleanded them at the end of the previous season and replaced any worn-out or damaged parts. In using outdoor brooders we place them outside in a dry sunny place, and open them wide to receive the cleansing effects of the sun. We mix some hot whitewash and carefully go over the whole interior. This is, with some brooders, rather an undertaking, but will well repay the trouble, as so much depends on the condition of the brooder, especially during the first few days of the chicks' life.

Having cleaned and whitewashed the brooder we take a look at the lamp. Right here is where the first step in economy comes in A dull, dirty lamp throws less heat than a clean, bright one. We take the whole lamp burner to pieces, and, after cleaning of all the dust from it, take a piece of fine sandpaper and secur all the brass parts till they shine and all that black accumulation is removed. We put a clean wick into the burner, and put the lamp back into place. Our brooder is now all ready for lighting.

GETTING UNDER WAY

On the morning of the 21st day of incubation we fill the brooder lamp two-thirds full of good, clean oil and light up, closing the brooder door and ventilators. We don't turn the lamp too high till things get warmed up a bit. By the morning of the 22nd day the brooder is ready for the chicks. We remove the chicks carefully from the incubator and cover them over with a light blanket to protect them from draughts, as many a chick receives its death blow between the incubator and brooder. It is well to remember that the chick has been accustomed to a temperature of 102 to 105 degrees, and that the change from that to the chill outside air in spring is too violent for any chick to encounter with safety. We place all the chicks under the hover (unless we notice a deformed one, which we think it Letter to dispose of at once) and leave them there.

SAND AND OAT HULLS IN BROODER

When we first lighted the lamp we covered the floor of the brooder with a light sprinkling of fine sand, and on top of that about half an inch of chaff. We use oat hulls for this purpose. How do we get them? When we fatten our cockerels in the fall and early winter, we feed them on oatmeal made by getting oats chopped fine and then run through the fanning mill, turning the crank backwards. The fine meal comes out under the mill and the cracked oats and hulls come down where the grain usually runs. We pile this up in an out of the way corner for the time, as at this time it is the meal we want. Later on we put all this chaff through the mill again. This time we turn the crank slowly the proper way. We put no sieve in the bottom, and the light chaff is blown out and the cracked and hulled oats fall under the machine. The chaff is used for bedding for the chicks, and the hulled and cracked oats mixed with cracked wheat and barley and any other grain we can get makes fine chick feed.

Having gotten our chicks under the hover we leave them alone for about 24 hours. You may or may not open the ventitators at this time; we always open somewhat, generally those on the side of the brooder, away from the prevailing wind. If the wind changes we close them and open the others. After 24 hours we find our chicks busy. They have found out that there is more to that brooder than the hover, and in the spirit of ad-

(Concluded on page 9)

YOU

are at all interested in

Home-Mixed Fertilizers

I would like to send you my book on the subject. It contains full information, formulas and lots of information to farmers who want to get the most and the best for their money. The book will be sent free upon request by post card from you.

Dr. WM. S. MYERS, Director of Propaganda 17 MADISON AVENUE, NEW YORK

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No matter what kind of work you want your engine to do. Whether you need 1-H. P. or 45-H. P.-whether you want a vertical or horizontal engine, one that is portable, or of the stationary type—there is an I H C that will just meet your requirements. Also a line of Traction Engines in 12, 15, 20, 25, and 45-H. P. sizes-varied types.

The I H C line of Gasoline Engines has been developed to cover every farm power need. The men who are responsible for their design and construction know conditions on the farm, and they know what is required to do all farm work efficiently and economically.

The next time you are in town call on the I H C local dealer-explain the work you want your engine to do, whether operating cream separator, feed grinder, fanning mill, thresher, spreader, turning grind-stone, sawing wood, etc., and he'll show you the engine to do it-do it quickly-efficiently-and economically-just as others like it are doing for thousands of other farmers.

He'll show you, too, the many advantages of IHC construction-points you ought to know about if you want the most satisfactory farm power you can buy. Or, if you prefer, write nearest branch house for further information

CANADIAN BRANCHES—International Harvester Company of America at Brando algary, Edmonton, Homilton, Lethbridge, London, Mentreal, North Battleford, Ottaw agina, Sankatoon, St. John, Weyburn, Winnipeg, Yorkton.

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IHC Service Bureau

ose of this Bureau is to furnish far rmation on better farming. If you sy questions concerning soils, crops, etc.. write to the I H C Service Bu and learn what our experts and

************ FARM MAINAULINAMENTAL CONTROL FARM MANAGEMENT

How should fertilizers be applied to corn, broadcast or in hills? In what proportions should they be mixed?—P. A., Dundas Co., Ont.

While it is a common practice to

While it is a common practice to apply fertilizers to corn in the hill, I would advise broadcasting them for the following reasons: The wider dis-tribution of the fertilizers through the tribution of the fertilizers through the soil encourages a more extensive de-velopment of the root system, which results in the crop being able to draw its nourishment from a much wider area. Fertilizers concentrated in the area. Fertilizers concentrated in the hill tend to restrict the root system, as the plant finds a readily available supply of plant food directly within its reach. The advantages of the wider root system are many; the plants stands more firmly in the soil,

plants stands more firmly in the soil, leaves more humus in the soil and, beeded the fertilizers, which it absorbed to the fertilizers, which it absorbed to the soil of the s

Cement for Wall

How much cement will it take for a wall one foot thick for a barn 50 by 30, with eight foot walls, with three doors four feet wide; how many cords of stone filling, and how many yards of gravel? Is one foot thick enough?—J. H., Peterboro Co., Ont.

A barn 50 by 30, with walls eight A barn 50 by 30, with walls eight feet high and one foot thick, including footings, would require 48 yards of gravel and, if made in a proportion of one to seven, 48 barrels of cement. If J. H. has any field stone they could be worked into the wall during construction. The auntity of stone could be worked into the waii during construction. The quantity of stone that would be used would all depend upon the kind of gravel that was used, the finer the gravel the more stone that could be worked into it. With the uniform gravel one would be able to use five cords of stone would save the same quantity of gravel and about 41-2 barrels of cement to each cord of stone used.—H. Pocock, Mgr., London Concrete Machinery Co.

Roots or Corn, Which?

Roots or Corn, Which?

I have been following with interest the arguments put forward in Farm and Dairy for the allo and have just about deedded to build one this summer. There deedded to build one this summer. There was not a corn, compare in value in the two!—A. L. Dundas Co., Ont.

Experiments to determine the feeding value of the dry matter in silage and mangels have been carried on at several experimental stations, and the result would indicate that while the dry matter in roots is more digestible than that in corn silage, dairy cows whose feed rations consist largely of beets or silage, yield somewhat better returns for the dry matter in the silage. The difference in favor of the silage. The difference in favor of the silage. The difference in favor of the silage is the silage of the silage of the silage of the silage is the silage of the sider the relative cost of dry matter in these two feeds, however, there is no doubt as to which is the most economical. The dry matter in silage can be produced for one-third the cost of pro-ducing the same feed in the roots.



S CREAM EQUIVALENT

50-1b. bags, 62.25, at all dealers

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Valuable Book



BEATTY BROS. BOX C FERGUS, ONTARIO



Sells direct to buyers at factory prices on and Wire Fence, all styles; Gates arbed, coiled and plain wire; Staples nee Hooks; Tools. Special prices car of the control of

Febro House: Itoms: Itoms to the money, give you be fencing and quick service. Here are same ple prices: All No. 9 Fence 9 strands, 26c per odd, etc. If years in Canadian fencium. My printed matter explained matters. My printed matter explained matters.

March

CREAME for Scotsbi

RUSH You

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CREAMERY MANAGER WANTED amery manager wanted by conductive control of the very conductive control of the very conductive control of the very conductive cond COTSBURN CREAMERY CO., Ltd SCOTSBURN, NOVA SCOTIA.

RUSH Your copy to Farm and Dairy be-fore Saturday. This week we had to overcrowd and then held out two pages of commercial advertising, which came too late on Monday morning.

SITUATION WANTED

Steady man seeks situation on farm (by the year). Life experience among stock. Two sons good milkers. Apply, with full particulars.

EDWARD PAVEY, HALLS BRIDGE, ONT. BABY

Now is the time to order. Get the very best laying strain of Single Comb Buff and Single Comb White Leghoras from "UTILITY" POULTRY FARM, Stratford, Ont

T. G. Delamere, Proprietor



Milk Record



LSTEI

will be sold by **Public Auction**

Tues., N March 26

Being the entire noted herd of S. Macklin, Weston, Ont.

All Holstein Breeders and other good dairymen will recall how these cattle have been always successful at the great Toronto Exhibition. They have made attractive records as well as winning premier honors in the show ring.

The offering includes eight heifers by that famous Bull, Schuiling Sir Posch, twice Grand Champion at Toronto.

These are of the low down blocky and straight type that can win anywhere in the show ring.

They are splendid producers milking up over 60 lbs. a day as 2-year-olds. (See catalogue for full particulars of 7 day and other records.)

BELLE POSCH, one of these heifers, was Jr. Champion at Toronto as a yearling

MURIEL POSCH, another, as a 3-year-old last year was first at Toronto. She milked 60 lbs. a day last year in August.

There will be 21 milking cows in sale, also the stock bull CORA'S BRIGHTEST CANARY—four nearest dams average over 27.5 lbs. of Butter in 7 days.

Have been offered \$5,000 cash for this lot, but preferred to sell them by auction and let all have the opportunity to get this richly bred, high producing and prize winning stock.

WRITE AT ONCE FOR CATALOGUE

TERMS OF SALE—Cash or 7 month's edit with interest at 5 per cent.

Rigs will be at Central Hotel at noon on day of sale to convey those coming from a distance.

S. MACKLIN, Weston, Ont. Elmdale Stock Farm J. K. McEWEN, Auctioneer.

The Holstein Breeders

Belleville District

Where they breed and sell" CHAMPIONS

Will SECOND ANNUAL SALE At Belleville, April 3rd and 4th

Mostly

Females



Mostly Females

In quality and numbers nothing like it ever happened in Canada before

THINK OF IT!

Two - Year - Old Heifers

(By or bred to the great sires of the Belleville District)

Lulu Keyes, the 19,250 lb. 2-year-old, in type and individuality as attractive as her record.

Not one, but several Cows and Heifers that have milked from 80 to 90 lbs. per day, and from 18,000 to 19,000 per year (official).

Come to the Sale where you have a Choice

Not One -- but Scores of Good Ones

With such a large of ering there will sure be good young cattle at prices to suit every pocket-book.

In last year's sales were several animals that have been re-sold at big advance.

WE WON'T WEARY YOU

Watching the auctioneer wearing his life out trying to sell-A huge surplus of buil calves Three teated or aged cows

These nerve-racking, interest-killing accessories of almost every public sale, will be as scarce as the proverbial hen's teeth at Belleville.

WE BELIEVE

A satisfied customer is the greatest asset of any business.

This is our Second Sale. The kind words of appreciation encourage us to believe the First Annual Consignment Sale of the Belleville District gave general satisfaction and the buying public appreciate the stand we took of Giving every man a Square Deal, selling every animal catalogued without complaint or quibble.

We are more determined than ever to not only retain the golden opinions of our friends, but by perfecting some minor details, to give to the buying public the best opportunity to buy right and buy satisfied.

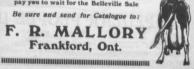
Others have advertised theirs as the greatest sale.

We Can Deliver The Goods

If you want One or a Carload, it will pay you to wait for the Belleville Sale

Be sure and send for Catalogue to:

Frankford, Ont.



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Caldwell's Molasses Meal

is a Milk Producing Food

palatable, nutritious and economical. Feed it and your cows will yield more milk than they are now doing and put on flesh. Contains no spices or drugs. Write for booklet and direct from the mill prices.

Caldwell Feed Co., Ltd. Dundas, Ont.

Room for More Poultry

A. P. Elliott, Glengarry Co., Ont. A feature of the market reports all over Canada for the past month has been "Canadian eggs almost unob-tainable." It is certain that we poultry men need not fear over produc-tion. Practically all of the eggs used tion. Practically all of the eggs used in Montreal and Toronto during February came from the United States. Even the cold storage stocks were exhausted. These eggs were not imported because dealers or consumers profer eggs from the States, but Lecause the Canadian product simply could not be obtained at any prics. We are not producing it. Dealers are We are not producing it. Dealers are willing to pay two to five cents dozen more for our eggs than for imported ones, but even with that inducement we are not supplying the market.

Professor Graham has estimated that it costs only a little over 10 cents a dozen to produce eggs in the winter. It costs us a trifle more than that to produce eggs in winter, but we know that there is a great big profit in winter eggs at 40 cents a dozen. We have had no trouble in obtaining 45 cents and 50 cents a dozen for our eggs delivered direct to customers.

why not? condition of the egg market

this winter makes it an unsolv problem to me why we farmers unsolvable problem to me way we farmers are not going into poultry more extensica-ly. Several of my friends have told me that they "cannot be bothered". They would not be so indifferent did they appreciate the large profits that

flock of poultry.

With the greatly extending market for our products, both east and west. for our products, both east and west, we farmers can go into the poultry keeping on almost any scale we will and still be sure of a profitable mar-ket. With early hatched pullets, well fed and kept in the right type of house, the fresh air kind, there is no house, the fresh air kind, there is no thought the surprise of the product of the supply the best armers should not winter months, and there is a big pro-fit in it for use. fit in it for us

Care for the Chickens Jos. Shakespeare, England

The lice-infected brood hen is at the more sickness among chickens than all other things put together. The nest and the sitter may be treat ed for lice before the eggs are set, but, as often as not, the latter is neglected at the time the eggs are due to hatch, with the result that no sooper do the chicks enter the world than they begin to cater for the lice that

they begin to cater for the lice that become attached to them and feed upon them by drawing from them their very vitality. In a little while the chicks become bloodless, refuse to take food, droop their wings, and present a ruffled and dejected appearance, and if they are the produ of eggs secured from specialist breedor eggs secured from specialist breeders, such breeders generally get the blame in the form of abusive letters relating to lack of vitality on the part of their stock birds.

CLEAN THE BROODERS

The same remarks to a very great extent apply to chicks placed in exten apply to chicks placed in un-clean brooders. Thousands of chicks annually succumb to the ravages of insect vermin through being placed in brooders that have received no over-hauling prior to being tenanted. If the brooder is cleansed, disinfected lime-washed and thoroughly dried be Inne-washed and thoroughly dried be-fore the chicks enter it, lice may not be troublesome, but if the structure has been lying idle since the previous rearing season, and is put into use without due regard being paid to its interior condition, it is likely that its inmates will soon be infested with in-

Whether chicks are to be artificially or naturally brooded, the hens, brood coops, brooders and the chickens themselves should be thoroughly treated for lice before rearing operations begin. Once give the chicks a clean start in life and you give them a start in life and you give them a strong safeguard against illness. Once let them become debilitated through the ravages of lice and you fit them for the reception of disease.

To be Exact

"What's that sign you're making there?" asked the grocer. "Fresh eggs," replied the new

clerk.
"H'm! Make it read. 'Fresh-laid
eggs' while you're about it."
"What for? Everybody knows the
eggs were fresh when they were laid."
"Just so and that's all it's aafe for
us to say about them."—Catholic
Standard and Times.

A strong chick a month the young-er, will go ahead of the month older chick, before fall comes, and will be of some good when it is grown.

"Here is my Letter to You. It is Worth One Thousand Dollars"

If you're going to buy a horse, you look at his feet. But if you buy a building, you look at the ROOF last. A horse isn't worth more than his feet, and a building isn't better than its roof. I want you to roof right. I want you

to get the right stuff from me at the right price. I want to make your roof a good deal better than your building, because then you Il get everything out of the building that it can give in shelter, protection and proper storage. The right roof does more than anything else for any building.

an anything cise for any outland. My Oshawa Shingles have taken 50 years of my thought and time and invention. hard work. I tried to make a perfect shingling. nard work. I tried to make a periect sininging.

I worked for years to get just the right kind of
metal to last longest. I worked to get the easiest and best lockjoint that ice couldn't pry open. and nest rockjoint that for countrie pay open.
I worked and estimated hard to get a roof neither too heavy nor too light. I worked for a time-proof shingling. I have got it for you.

When you use this Oshawa Shingle of mine It will last 100 years. what do you get? First, you get a shingle so what do you get? First, you get a sningle so good to-day, that it gives perfect service. It suits any building. It meets every kind of need for a roof at low cost and with long service. Second, you pay a moderate price. This is because many buyers unite on using my Oshawa Steel Shingle. The Canadian Government Bernier Arctic Expedition used my shingle against Arctic ice and blizzards. The North-

West Mounted Police use it, another Government proposition, against Arctic snow on permanent construction. The West Indies uses it against terrific heat and rain. You find it in Japan because it stands earthquakes. My Oshawa roofing is on

quakes. My Ushawa rooning is on the farms of South Africa. Here is ONE, roof the farms of south airica. Here is ONE roof mat is periest in every climate in the world from Arctics to Tropies. World sales are my from Arcues to Fropics. World sales are my reward for high quality. Third, you have a roof that is easy to lay and lay right. You root that is easy to my and my right. You can lay it and lock it yourself. It will not leak

can lay it and lock it yourself. It will not leak
nor burn. It is lightning-proof.
But 1 want you 1 want you to know (E.OFING
roposition first, this book post-card.
I will end you see the proof of the

years from now.

Send for this book of mine now, to my nearest, or the state below. If you are about to build a harm, it was below. If you are about to 10,000 easily to the you, even fyou do not buy a roo! all you dried you were you do not buy a roo! according to be pediar Roof from my your according to the building. I will be looking for your enquiry.

your enquiry. Yours truly, (Sgd.) 9. A. Rede

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REGINA CALGARY Room 7. Crown Block

HALIPAX ST. JOHN QUEEC MONTREAL OTTAWA TORONTO LONDON CHATHAM 16 Prince St. 4246 Prince William St. 127 Eus du Funt. Ell-4 Oraș St. 425 Samos St. 111-113 Ray St. 60 Eing St. 30 Eing St. 30 Eing St. 30

VANCOUVER VICTORIA

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The eg six times seen the But we seldom a Perhaps are apt yet we l what ap manner For th hover te the actio hermom they hug little mo see them

on edge i they can moved ar gradually and at a colony h goods box

sticking For the

Artificial Brooding of Chickens

(Continued from page 5)
venture and exploration, first one and
then another have poked their little
heads under the protecting curtain
and taken a look round; now is the
time to start feeding, but very caretable

FIRST FEEDING

A few crumbs of bread may be dropped so they can see them falling, and some they will be flinging chaff and sand round in a manner that reminds us of their mothers. In an anxious hout for crumbs. We give them all the clean water they can drink, and change it often; it soon gets warm and dirty. We take an ordinary tin that will hold water, punch a nail hole about one inch from the open end, fill with water, with just a pinch of roup powder in, invert in a saucer, and the seed of the control of the

tain for our chicks.
For the first few days we feed little, very little and often, if we have the time; if not we feed three times a day. Be sure and don't feed too much; a very good plan is to measure into a cup one pinch of feed for each chick. This we find plently for a start and gradually increase as they grow. At this period of the chicks' life a great deal depends on the attendant using his own powers of observation. The methods one person finds successful may be fatal for another.

FEED FOR WEEK OLD CHICKS

After the chicks are about a week old we place a trough about four inches wide and with one and a half inch sides in the brooder, or in the run outside if the weather is such that the youngsters can be out, and put their feed in this, keeping some feed in the trough all the time and scattering the changes of feed—choice morsels—in the litter to keep their feet going. Of course in nice warm weather we aim to get the chicks outside the brooder as soon as possible, because contact with mother earth is very good for them.

We get some liver, and let them go at it. They cannot get much off, but they are always trying. During the winter we take every opportunity to secure livers when the neighbors are killing. We beit them till they will crumble up, dry them in a pan till they are quite dry, crush them up fine, and we have good meat meal. We put it away in a dry place and we can keep it as iong as we like.

BOILED EGGS FOR CHICKS

The eggs tested out of the incubator, boiled half an hour and nixed with six times their bulk of grain or bread crumbs are also good. We have even seen them cut in halves and piaced where the chicks can peck at them. In the constitution of the control of the co

For the first two weeks we keep the hover temperature round 90 degrees. If the chicks find that too warm they som come out, but we rely more on the action of the chicks than on the thermometer after the first week; if they hug the hover close we think as little more heat is good. We life the see them spread out, with their heads sticking out from under the centain. For the run we place 12-inch boards on edge in front of the Irooder. Whether they can fly over these, they are removed and the chicks are allowed free range. At three weeks they are gradually weamed off artificial heat, and at six weeks they are put into colony houses, which may be dry goods hoxes covered with tar paper to

keep out the wind or rain or any of the colony houses advertised by poultry supply companies, according to the means of the operator.

HOW COLONY HOUSEN ARE BULLY
OUT colony houses are built after
the pattern of the cyphers colony
house, and the cyphers colony
house, and the state of the colony
house, and the state of the colony
material and half are three feet by six feet, two and a
half feet high at back, three and a
half feet in front; frame of three-inch
by one-inch stuff, sheated with halfinch lumber, and covered all over
with tar paper, fastened on with
laths. The door is a frame covered
with cotton, and the twelve-inch by
24-linch window has no glass, but a
cotton curtain to let down if required;
otherwise it is left open to get lots of
fresh air. Two boards, four inches
with, five feet eight inches long, are
vide, five feet eight inches long, are
nailed to eight-inch supports and placroots.

These birds are all hopper fed on whole grain, mainly wheat screenings. We give them free range, plenty of water, grit and table scraps, and, if possible, cut bone or scrap. At four o'clock every afternoon we mix a mash of ground oats, wheat, Larley, brain and aborts, and if we could get have been been supported by the same of the scraps of the same of the scraps of the same out if it is the native same of the same out if it is the intention to hurry them along they must be separated from the rest of the flock and fed much more same of the same out if it is the intention to hurry them along they must be separated from the rest of the flock and fed much more stores.



Better Cultivation Gives Bigger Crops

and the PETER HAMILTON CULTIVATOR does more perfect work than any other machine you can place on your farm because the different groups of three rows of teeth are sub-divided again, and the front teeth are attached to one tooth frame and the back row to a different tooth frame, and consequently all the teeth cultivate to the same depth and work up every inch of ground.

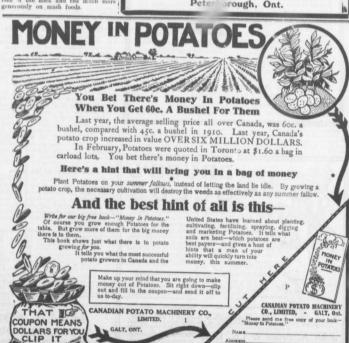
The Multing Terror are tracked in the patch to the state of t

The Whiffle Trees are attached in line with the sections. The draft is light, and there is no chafing of the horses' necks.

The Sections are made out of heavy extra stiff steel, and will not bend, and the teeth are reinforced with an exceptionally good helper, and will stand all kinds of rough usage.

For "RESULTS" buy a Peter Hamilton Cultivator. It means Dollars in your pocket.

The Peter Hamilton Co., Limited



302

It Does the Work!!

VERY farm paper tells you to "cultivate." It is good

EVERY farm paper tells you to "cultivate." It is good advice. The great question with you is, "What machine?" We say right here that this is one of the very best Spring Tooth Cultivators or the market.

Why Becauss the "Champion" has a frame of best heavy steel, braced with strong steel braces securely rivet-dpart topart—man as substantial, long-wearing Cultivator. A colid steel arle carries to frame as extensions on Ford & Wood "Champion" Cultivators as sections, and these sections on Ford & Wood "Champion" Cultivators designed. Each section can work ind-pendent of the others, when negative ground is encountered. True yadapt themselves to all inequalities of the land. That means every bit of your field cultivatid—nothing missod—were upon post self—ull weeds out or torn out by the roots. This is applied by that convenient lever in front and put on all teeth at This is applied by that convenient lever in front and put on all teeth at The Spring Steel. Each has deep for "Champion" dewn to its work. Teeth are made of best quality Spring Steel. Each has a placed spring to lend additional strength when working hand land.

The 2-inch narrow points on "Cham-

working hard raine.
The 2-inch narrow points on "Cham-pion" Cultivators are reversible— which means double wear. For weed which means double wear. For weed or thistle cutting wide points are supplied—change can be quickly made. You should get this "Champion" Cultivator. It will prove a valuable asset to any farm.

Ask us for Booklet on Seeding and Cultivating Implements. post card will do.

THE FROST & WOOD COMPANY, Limited SMITH'S FALLS, ONTARIO

For Sale in Western Ontario and Western Canada by COCKSHUTT FLOW CO. Limited, BRANTFORD, WINNIPEG

SOMEONE wishing to place \$5,000 as a | communicate in regard to same to FARM loan at 5 per cent on first class On- & DAIRT, Peterboro, Ont. Will connect sario Farm Laud. glit-edged security, may you with responsible party desiring loan.



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Advocates Mulching Trees

Samuel Armstrong, Peterboro Co., Ont.

Is this theory any good? There, are large sections in Ontario where farms can be had very cheaply that are admirally suited so far as sort climate is concerned to produce the highest quality of apples. They are, highest quality of apples. They are, however, so worn out with constant cropping and so full of quack, sow thistle, mustard, and so forth that the thistle, mustard, and so forth that the cost of manuring and cleaning the land makes the cost of getting an orchard into bearing on such land al-most prohibitive. Here is my usea of how such land could be made to grow good orchard at a minimum of ex-

Donse:
Plant trees in rows 50 feet apart
and 30 feet apart in the row. Cultivate the first year, then about July
sow a strip of alfalfa about 35 feet in
width down the wide rows. The
mover would be run over this before
the weed seeds are allowed to move the and everything raked over around the and everything raised over alound the trees. In succeeding years the only thing to do would be to run the mower over the whole orchard three or four times a year, and fork every-thing near the trees.

My experience in mulching fruit has been somewhat limited, but where tried I have found results always good. Now, Mr. Editor, I would be pleased if some of the readers of Farm and Dairy would give their experience and Dairy would give their experience or opinion of this method of orchard treatment. One thing I am sure of and that is that the cost of this system and that is that the cost of this system would only be a fraction of the ex-pense of any other plan of getting moisture and fertilizer at the same time.

Best Varieties of Potatoes

What is the earliest variety or varieties of potatoes, and also which are the best quality and best producers?—N. R. best quality and best producers?—N. R. Trials made at the Central Experimental Farm, Ottawa, would indicate that the best varieties of early potates are Rochester Rose, Early Othio, Irish Cobler, Eureka Extra Early and Rayges. Bovee.

In the same trials the most pro In the same trials the most productive variety of early potatose was the Rochester Rose, the average yield bushels. The most productive varieties of all were the medium late sort, Dalmeny Beauty leading with an average production of 270 bushels. All of the varieties of a row of cool and the varieties of a row of cool onality. ed are of good quality

How Many to the Acre

The number of trees or bushes necessary in order to set out an acre of land often trouble the would-be planter. In the following table the trees or bushes required per acre for both the square and hexagonal method of planting are given and will save much

Distance			T	riangular	Samara
4)	feet	apart			27
- 35	**	44			
39	44	**			35
25			***********		50
				80	70
20		.41		125	110
18	**	111		155	135
16	66	41			
15	**	64			169
12	**	44	***********		195
10	**		***********	350	305
				505	435
8	**	44		775	663
6	64.	42		1,600	1,210
4	44	12		1,000	
z	**	46	**********		2,725
	**	**	ATTERDRETE TORK		4,840
2					10.560
			-		

If you have poor varieties, top graft. It is not hard work.—J. W. Clark, Brant Co., Ont.

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When we

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LYONS SECIS

as our herd

bull, although

a very big price was paid

for him, it was

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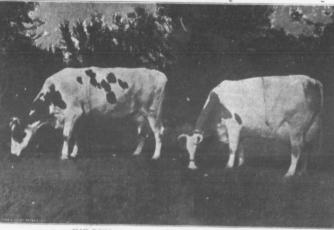
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MAY ECHO

NETHERBY QUEEN JANE

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Bull No. 1-SIR ECHO (No. 12,982) born May 4, 1911—a beautiful, straight, deep calf, mostly white, and certainly a breedy-looking animal. (Price \$500.00.)

DAM, MAY ECHO (No. 3372.) Record, 23,707 lbs. milk, 1,042 lbs. butter, in one year, freshening inside of 15 months.

—A record not equalled by any other cow in Canada, dead or living, and it is doubt-ful if such a record has been made by any cow in the world under similar conditions. Three or four cows have given more milk, but they did not freshen in time to qualify them for Record of Performance, and, of course, it is needless to say that there is a considerable difference between the amount of milk given by a cow if she is carrying a calf, during such a record, or cow in the world under similar conditions.

May Echo made this record under the care of a very young, inexperienced man-in fact, almost a boy.

SIre, INKA SYLVIA BEETS POSCH (No. 3563), sire of May Echo Sylvia—record 21 lbs. butter 7 days as a senior yearling, and sold for \$1,000.00 as a heifer.

Bull No. 2—KING NETHERBY (No. 12981), born March 23rd, 1911. A beautiful type, straight and breedy, with a wonderful constitution. (Price, \$350.00.)

Sire, Comet Johanna (No. 11657). DAM, NETHERBY QUEEN JANE (No.

This Cow also holds two Canadian Records—Milk in one day, 111 1/2 lbs.; milk in 7 days, 753 lbs.; butter in 7 days, 28.55 lbs. The above record was made under very unfavourable conditions, she having fresh-ened at 10 months and 2 days. She was giving 40 lbs. of milk a day 2½ months SIR LYONS SEGIS (No. 11,495)

SIR LYONS SEGIS (No. 11,495)

Born Nov. 9, 900. Sir Lyons Segis is a beautiful, straight breedy jooking built and a royally bred one.

and 123.5 he butter in 3 days and the straight breedy jooking built and a royally bred one.

2. His 6 nearest chains average 31.50 butter in seven days.

2. His 6 nearest chains average 31.50 butter in seven days.

2. His 6 nearest chains average 31.50 butter in seven days.

3. His 6 nearest chains average 31.50 butter in seven days.

4. Seven days and his 2 grand dams and off his greater, dams the four average 182.51 be, butter in 30 days.

4. Seven days and his 2 grand dams and 30 fishers dams have 1.50 bits of the seven days and his produced a 30 fish caughter averaging 28.50 and 30 fishers dams have 20 lb. records of their own and the three 30th. dams with the 3. Seven of his sizes in the first 4 generations have 11.50 bit.

5. Four of his sizes in the first 4 generations have 11.50 bit.

6. Four of his sizes in the first 4 generations have 11.50 bit.

6. Four of his sizes in the first 4 generations have 11.50 bit.

6. Seven days segis not only comes from high butter record families on both sides but his dams and sires are produces of families on both sides but his dams and sires are produces of families on both sides but his dams and sires are produces of families on both sides but his dams and sires are produces of families on both sides but his dams and sires are produced family on the sires of the

before freshening, and in order to get her dry it was necessary to feed her nothing but straw for nearly a month, the result being that she was so thin at time of fresh-ening we had no idea of putting her in the test. She syave 57 lbs. milk at her first milking (which we believe to be another unbroken record), and even then she was not milked dry, as it was considered dan-gerous.

We hope to increase her 7-day record to over 30 lbs. at next freshening.

Our readers must remember that these Our readers must remember that these two great cows have never had the same chance as those owned by American breed-ris, Men who have visited Allison Stock Farm after seeing the only two 37 lbs. cows, Yuz, Pontlae Pet and Pontiae Clothilde De Kol 2nd, have stated that neither of these cows show the wonderful marks and capacows show the city of either May Echo or Netherby Queen

Remember, these bulls are low priced, and if you don't think so, just visit some of the American breeders and you will be asked from \$1,000 to \$5,000 each for young sires from dams not as good as these.

We have also some extra nice young bull calves, one from a three-year-old heifer with a record of nearly 27 lbs. of butter and sired by Sir Admiral Ormsby, and others with similar records.

Come and see these bulls and get your choice and at same time we will show you some good cows and our herd bull, Sir Lyons Segis, which we think is the best bred bull in Canada. Note the few facts regarding him given in the panel herewith.

We have also about 20 pure bred Clydesdale Mares in foal ; five extra well bred Stallions and some nice Fillies for sale. We would be delighted to show these to you

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The Hamilton Asylum Farm

The Hamilton Asylum Farm

One of the enthusiastic farmers and breeders of Canada is Dr. English, auperintendent of the Insane Asylum at Hamilton. Atthough he has the responsibility of managing that large institution with its 1200 immates and some 200 assistants, Dr. English takes a close interest in the 52° acre farm, as well as in the live stock. The herd at the institution includes a number of pure bred Holstein cat'ile. For several years Dr. English has shown his interest in this breed by attending the annual meetings of the Holstein Breeders' Association in Toronto.

Of the farm proper 30 acres are 30° acres are 50° acres Of the farm proper 340 acres are

although she had been in since Decem-

although she had been in since December, 1910, was giving about 46 lbs. of milk advanced by the state of the stable and is giving contained as the stable and is giving contained as the stable and is giving contained to the stable and is giving contained to the stable and is giving contained to the stable and is giving conducted that even in winter there was very little foul air. Milking is conducted at 5 a.m. and 5 p.m. Chain ties similar to those in use at Guelph are used and are giving excellent satisfaction. The water

use at Guelph are used and are giving excellent satisfaction. The water troughs run in front of each of the cows. It is claimed that these have given better satisfaction than small basins that were used previously. The



A Large Piggery Having Many Desirable Features

The large and convenient pigery at the Hamilton Asylum Farm, illustrated herewith, is described in the adjoining article. To the left of the central building is another wing of equal size to the one shown.

Photo by an editor of Farm and Dairy

under cultivation, about 100 additional acres being in lawns and gardens. The buther cattle and sheep are bought in Toronto, about 24 head of cattle and 12 sheep Leing purchased every three weeks. These are required for the maintenance of the patients and staff. The milk used, about 1,100 bis. a day, is produced on the farm, as well as is the pork. As present the niggeries are undergoing. present the piggeries are undergoing considerable repairs and extensions. When completed they will be among the finest buildings of the kind in Canada. The cattle barn and stable is a commodious, well-arranged building and reflects credit on the institu-

An editor of Farm and Dairy paid the farm a brief visit recently and received a cordial welcome from Dr. Received a corrain veicoine from Dr. English as well as from his capable assistants, Messrs. F. M. Regan, farm superintendent, and R. Salter, the dairyman. Farm and Dairy is much appreciated at this institution and its various articles carefully read.

SOME OF THE HOLSTEINS The dairy herd is a credit to the management. The stock is mostly grade, but the animals show every indication of being heavy producers. Several grade cows were noticed that would have stood high in the would have stood high in the grade classes at any of our large exhibitions. An exceptionally fine Holstein bull, An exceptionally fine Holstein bull, Canary Ormaby, a two-year-old, bred by George Rice, heads the herd. This is an unusually well-proportioned animal, being evenly balanced throughout, smooth, deep, long and vigorous. The junior bull of the herd is Sir Wayne Korndyke. The herd comprises among is pure breds, a heifer valued at some-thing over \$500, as well as an un-usually fine cow, Johanna Rue, which,

mangers are of cement but are not so high as to prevent the cattle from obtaining plenty of fresh air. It is possible to flush them out when de-

Any one thinking of building a Any one thinking of building a modern piggery, who can conveniently do so, would obtain valuable suggestions by visiting the piggeries. The center building is 49x45 feet and contains an upright boiler and an iron receiving tank for swill in which the food is cooked. From this building there are extensions on two sides of 100x49 feet. As yet only one of these 100x49 feet. As yet only one of these has been completed the other being under construction.

These extensions have a fall of 18 inches from the center building to the ends. There is a passage down the center, the pens being on either side. It is possible to run the feed from the feed from down these passages way conveniently. Each year sages very conveniently. Each has a sleeping division 10x10 feet with has a sleeping division 10x10 feet with a fall of two inches towards the cen-ter, as well as its proportion of the fall 18 inches towards the end of the building. Between the sleeping pen and the cen-tre walk is the feeding sec-tion, also 10x10 feet wheeling sectre walk is the feeding section, also lox10 feet with a fall towards the end of the building. A slight passage leads from the feeding pen into the sleeping pen making a small third division. The sleeping pens are lined with plank both on the floors and on the sides. Dr. Eng. the moors and on the sides. Dr. Eng-lish considers this advisable as the building is made of cement and he finds that the pigs are less subject to rheumatism when protected by the Loards. The sleeping portion of each pen is considerably higher than the reading division. eeding division.

CA

M

Farmer

feeding division.

About 16 breeding sows are kept.

Ab present, including young stock, about 260 hogs occupy the pens. These were noticed to be in an unusually thrifty condition and of the true bacon type. A mechanical apparatus is used for opening and closing the windows. This is convenient and assists in providing ample ventilation. tilation.
At the end of the extensions to

At the end of the extensions there is an uncovered coment receiving the control of the manure. By the use of least of the manure of the manure and the control of the manure. This piggery, an illustration of which appears in this issue, was completed last summer, Dr. English stated that the manner in which the stock has improved since it has occupied the new premises has been surprising.

(Continued on page 18)

The Best Built Rollers

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A poor sheep eats as much as good one

good one.

The profit making nature of sheep farming now-a-days is the mutton end. We should preserve the quality end. of the fleece as much as possible but



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Mr. Hector Gordon
The new president of the Canadian
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breeder and a successful exhibitor of
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will not suffer under his management.

mutton conformation should receive

first consideration in our breeding. Sheep will make as good use of raw other line of stock, and yet they are the most neglected.

In selecting breeding stock do not put too much emphasis on the size. It is a secondary consideration pro-viding the animal is smooth and trim.

There is no food to equal corn in preparing lambs and sheep for mar-

keting.

There may be a danger of having the breeding ewes too fat. This is a danger, however, that too few of us ever get near. Feed them well.

In breeding sheep as in all other lines of live stock, the conservation of vigor should receive first consideration.

Valuable as blood is in breeding we would not select a ram without first looking to his individual merit, then to his pedigree. He would have

then to his peciagree. He would have to be pure bred in any case. It is well to start with well bred stock. If we would keep them so, however, we must give them good feed. Otherwise they will degenerate.

The Hamilton Asylum Farm

(Continued from page 12) Both Berkshires and Yorkshires are kept. Until last year Berkshires were kept exclusively. Last season a pure bred Yorkshire boar and six sows were

bred Yorkshire box and kix sows were purchased, A pure be Berkshire boar is also kept. Dr. E. Berkshire boar is also kept. Dr. E. Berkshire bear is also kept. Dr. E. Berkshire believing that the progent Yorkshire believing that the progent of Yorkshire believing that the progent of th without it.

Good breeding means good selec-tor Cat-alogue, helfer calves should be carefully se-farmer's Cement Tile Machine Company to do.



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FARM AND DAIRY PETERBORO, ONT.

CONSULTING THE PEOPLE

Farm and Dairy is in hearty accord with Premier Borden's announced intention of submitting the whole question of nava! defence to the people of Canada. In matters of great public importance such as the question of establishing a Canadian navy, involving as it does the expenditure of many millions of dollars a year, practically for all time, it is always a safe course to consult the people. If they want it they will say so. If they don't, then it would be a great mistake to force it on them.

The submission of this great question to the people will create a precedent which will be of great value. The advisability of incurring the proposed naval expenditure will be freely discussed through the press and on the public platform. Thus the public will be enlightened on many points

gent decision on this matter that is of | that in the end we ourselves must foot such great importance. While the the bill. cost of submitting this question to the people for consideration may be great, the value of the educational campaign that will accompany it will greatly exceed the expense involved.

COOPERATIVE LEGISLATION

A great hindrance to the extensive adoption of the cooperative principle of doing business by our Canadian farmers has been the poor success that has attended the movement in the past, due to lack of uniformity in the societies formed. Each cooperative society has been the result of one man's ideas. Many of these societies, particularly those formed by the fruit growers, have been a success. But many of the societies that have been formed were based on faulty principles and have failed in consequence.

Cooperative legislation such as is now being introduced in the Danish Parliament, regulating the formation, constitution and government of cooperative societies, would in Canada do away with many of the mistakes that have led to the failure of our cooperative societies. If in Denmark, where they have made such a marked success of cooperation, they now recognize the need of cooperative legislation, how much more necessary is it in Canada, where we are just starting out in the practice of cooperative buying and selling.

We in Canada are in great need of reasonable cooperative legislation, both provincial and Dominion. Our law makers would do well to enquire into the legislation that is now being formulated by the Danish Government and take advantage of their years of experience with agricultural coopera-We farmers would welcome wise legislation of this nature. The objection of a small class in the community to cooperative endeavor should not be allowed to carry weight in preventing such useful legislation.

ECONOMY IN EXPENDITURE

The continual demands that are be ing made on the Dominion Government for financial assistance to projects which properly come under provincial supervision would seem to indicate that we Canadians are coming to regard Federal subsidies almost as so much found money. One of the curses of indirect taxation is that it breeds waste and extravagance in expenditure. We hardly realize that the taxes that fill the Dominion treasury really come out of our own pockets. We pay a little more for the clothes we wear, the food we eat, or the implements we must purchase to work our farms, and we do not stop to consider that part of that price is due to the tariff which the Government levies to supply itself with funds. Did we have to pay the the same time it will pay us farmers same amount of money directly into the hands of a tax collector, as we do for municipal purposes, we would soon cease our demand for Federal assistand will be able to give an intelli- ance to provincial projects, realizing our incomes,

Under our present system of taxation there is no public revenue so carefully expended as that which is raised by direct taxation for municipal purposes. Experience teaches us that the nearer that we can keep taxation to the place where the money is expended the more economically and wisely will that money be used.

Agricultural extension work and the building and maintenance of good roads are properly projects that come under provincial supervision. The alacrity with which some of our farmers and good roads enthusiasts have received the news that federal assistance will be given in both these departments would indicate that these enthusiasts do not sufficiently realize that they pay the bill in the end or that they will get the most for their money under conditions as they now are where the expenditure is more or less under the eye of the tax payer. If we farmers wish to encourage economy in the expenditure of public funds, we will insist that provincial projects be conducted by means of provincial funds and not by federal aid which too many will regard like "money from home."

CONSERVATION

The vital relationship that exists between live stock farming and the conservation of soil fertility was a subject that was referred to time and time again at the National Convention of Live Stock men held in Ottawa recently. Delegates from one end of Canada to the other were unanimous in their declaration that the only way in which the fertility of our soils can be economically maintained is by the more extensive practice of live stock farming in Canada. Leading agriculturists from every province of the Dominion decried the great waste of fertility that is going on in our country and without exception the remedy suggested was more live stock.

The conservation of natural resources has become a by-word with the most of us. Through the press and from the platform we have been educated to the immense importance of conserving our natural sources of wealth. The greatest of all natural sources of wealth lies in our soil and in its ability to produce human food, We may prosper for a time by robbing the soil of its fertility and by being miners instead of farmers, but in the long run we will have to resort to some system of farming that will conserve the natural fertility of the soil. Our Governments, which are doing much to forward the policy of conservation, can approach the problems in no better manner than by encouraging the live stock industry, as was suggested by the delegates at the National Live Stock Congress. At individually to adopt the soil enriching policy of live stock farming.

By stopping the leaks we add to

In Ontario the average yield of potatoes is a little over 100 bushels an acre. In the State of Maine, the

average yield is 2's Fertilizers bushels an acre. for Potatoes. the Maritime Pro-

vinces, from when a come a large part of the potatoes comsumed in Ontario, the average yield s almost twice the Ontario yield. Why this difference? The farmers of Maine use 1,200 to 1,500 bushels an acre of high grade potato fertilizer for the crops. This means a considerable expenditure, but their increased prodution more than justifies the outlay In Maritime Canada commercial potato fertilizer is used universally, and Maritime potatoes, classed as "Del wares" on the Toronto market, are noted for their high quality and sell for ten cents a bushel more than the Ontario product. Is there any reason to believe that commercial fertilizers will not give as good results in Ontario as they have in Maine or in the Maritime Provinces?

One seldom makes a mistake in cutting down acrea, a and doubling cultivation

The "civilized" countries of Europe naintain a standing army of 5,000,000 men, and the total war budget of the nations runs up to £300,000,000, or almost \$1,500,000,000 If the productive power of industry determines the size of armaments. Europe must be almost at its limit. They are now spending nearly seven hundred million dollars annually on warships alone.

Compulsory Spraying

(Canadian Horticulturist) British Columbia has had a law for ome years making the proper spray ing of orchards compuls have heard no complaints against this law. While this may mean that it has not been strictly enforced, still we have reason to believe that the law is being applied as conditions require and that it is being attended by satis factory results

The state of Ohio, where conditions are closely similar to those which prevail in Ontario, has now followed this van in Unterio, has now rollowed this example. A law passed by the last legislature requires all orchards in which there are ten or more trees to be sprayed at least once between November first and April thirtieth. The preparation used must be such as will destroy San Jose, oyster shell and scurfy scale, a fine of twenty-five to one hundred dollars is to be imposed for each year spraying is not perform-ed. This law goes into force next

We are so afraid of preceding pub-lic opinion in Ontario there is reason to believe that we are falling behind other provinces and states in several important respects. A compulsor; spraying law in Ontario, as well as in compulsory our other eastern provinces, would not be any more drastic or any more of a hardship than the sanitary laws now generally in force which require the patrons of cheese factories and creameries to keep their stables clean, wash their separators and other dairy uten sils regularly and to maintain clean ly conditions generally in connection with the handling of their dairy pro-This matter of compulsory deserves to be given more spraying

consideration than it has yet received in our eastern provinces.

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Words of Commendation

Editor, Farm and Dairy .- I notice by label on my paper that my subscription is run out, so thought it better to renew at once, as we would not care to miss any of the numbers not care to miss any of the numbers of Farm and Dairy. We look for-ward to the future, when we farmers still enjoy those rights for which Farm and Dairy and The Weekly Sun are striving so hard through their col-umns to obtain.

I consider that I have lost \$100 cash on 12 hoge and 250 barrels of apples that I have sold since September 21st by the failure of the reciprocity agree ment. I was pleased to see the report

XXI

One of the most progressive ideas in modern advertising that we have noted in a long time is on display last week and again this week in Farm and Dairy, and in several other farm papers in Canada.

We refer to the advertisement "MONEY IN POTATOES." sent out for the Canadian Potato Machinery Co., Ltd.

Potatoes are a money crop When properly handled in a big way they are immensely profit-

Growers in the State of Maine, and in our own country,-more particularly in the Maritime Provinces.-have become independently rich from their crops of po-

Experimental work has demonstrated beyond a doubt that Ontario farmers can grow this crop. and grow it most successfully.

All our farmers are even now growing potatoes, -only they are producers in a very limited way.

Our farmers have never gotten down to growing potatoes as a business

As a result, not enough potatoes are produced in Ontario to supply local needs. Toronto has for years imported a great percentage of her good potatoes from far-away New Brunswick!

Now, the Canadian Potato Machinery Co. has grasped the situation. They see what a veritable Gold mine is within reach of every farmer who can and will grow potatoes.

They have gotten out a book giving the latest information on how to grow and make the most money out of potatoes. This company knows full well that as our farmers become interested in growing more potatoes, then more and more will there be demand for Canadian Potato Machinery. Then will their factory run full time. and BUSINESS in this line BE AS THEY WANT IT-verily as they have made it!

WONDERFUL ARE THE POS-SIBILITIES OF ADVERTISING BY MEANS OF THE PRINTED WORD! WONDERFUL IS THE POWER OF ADVERTISING IN LEADING FARM PAPERS LIKE FARM AND DAIRY, which is,-"A Paper Farmers Swear By" Dairy, and to read the resolutions

Dairy and to read the resolutions contained in the report.

I would say "Keep on in the fight for farmers' rights and legislation by referendum." Wishing Farm and Dairy every success.—F. W. L. Tamblyn, Durham Co., Ont.

Neck and Shoulder Troubles

Collar galls are very common among work horses, and in many cases are quite painful. The swelling which takes place is often termed a cold abscess, but it is really due to small parasites, and when they are destroyed and prevented from multiplying the and prevented from multiplying the sore shoulder soon gets well. Now, the first and most important step to be taken in line of treatment is a re-moval of the exciting cause, if possimoval of the exciting cause, if possi-ble. It is not always convenient to discontinue working the horse until the shoulder heals, but it is general-ity possible to relieve the parts of some pressure or friction which aids in giving partial relief.

A change or readjustment of the collar, or a removal of a portion of its filling often relieves the sore part or parts of pressure, making it possi-ble for soothing or healing remedies to do good work. Very often a sweat pad placed under the collar will give great relief and make it possible to heal the sore without resting the

GIVE IMMEDIATE ATTENTION

Whenever the shoulder, neck back chafes and becomes raw or flamed and swells much, it is time to get busy, for delay in treatment often leads on to a condition of the shoul-der requiring surgical work before a der requiring aurgical work before a recovery can take place. When a col-lar gall appears the hair should Le clipped off, the shoulder washed clean, hot applications applied and kept up for hours and sometimes days. We should apply peroxide of hydrogen to sore parts three times a day; 10 min-sore parts three times a day; 10 min-lowing remedies, which are made by dissolving, a quarter of a pound of lowing remedies, which are made by dissolving a quarter of a pound of acetate of lead in a gallon of clean, cold water, or dissolve six ounces of powdered alum in a gallon of clean water, adding one ounce of tannic acid to either lotion and apply to always of the control of t

shoulders should be breated anissep-tically and the same dressings which are applied to shoulders should also be applied to the face of the collar pad. By applied to the face of the collar pad. By treating the collar with a lotion com-posed of carbolic acid one part, and 30 parts of water, or either the lead or alum lotion the sore is not rein-fected. It is also important to air and dry the collar and pad as often as coasible.

OTHER GOOD ANTISEPTICS

A lotion made by dissolving one part bichloride of mercury in 1,000 parts of water acts fairly well. A healing powder made by mixing equal parts boracic acid, oxide of zinc, powdered alum and iodeform is useful in dressing raw surfaces. When treating sore shoulders, necks and backs clip off the hair.

Whenever there is a small opening

backs clip off the hair. Whenever there is a small opening leading into the gall and extending deep it should be opened up freely, then fix the horse so that he cannot rub the sore parts. These cases must be treated antiseptically or a nasty suppurating sore follows, and when it heals the parts remain inflamed. A heals the parts remain inflamed. hard bunch frequently forms w can never be gotten rid of unless it is cut out. When we do remove such a bunch (sitfast) we should remove the skin that covers it or we will have a wrinkled condition of the skin.— W. C. Fair, V. S.

If we only knew how much we lose by leaving our machinery out in the snow drifts we would be more keen on implement sheds.—A. C. Hardy, York Co., Ont.

TRADE in your old separator on account of a new

CREAM SEPARATOR 38,796 Users did so Last Year

26,569 in the U.S. Alone It's come to be an accepted fact that DE LAVAL cream separators are as much superior to other separators as other separators are to gravity setting systems, and that an up-to-date DE LAVAL machine will on an average save its cost every year over any other separator.

Aside from the actual saving in more and better cream and butter and in time of separation and cleaning, easier running, greater durability and less repairs, there's the pride, comfort, and satisfaction which none but the owner and user of a DE LAVAL machine can feel in his separator,

In consequence thousands of users of inferior and worn-out separators of various makes take advantage every year of the educational allowances which the DE LAVAL Company continues to make and trade in their old separators

APPLIES TO OLD DE LAVAL USERS ALSO

While all this applies particularly to the users of inferior separators it applies likewise to the many thousands of DE LAVAL machines 10 to 25 years old. They are not worn out and are still superior to other new machines of to-day, but there are so many improvements embodied in the modern DE LAVAL machines that these old DE LAVAL users can well afford to make an exchange and soon save the cost of doing so.

SEE THE NEAREST DE LAVAL AGENT

He will tell you how much he can allow on your old machine, whether a DE LAVAL or some other make, toward the purchase of a new DE LAVAL. If you don't know a DE LAVAL agent, write to the nearest DE LAVAL office giving make, number and size of your present machine and full information will be sent you.

DE LAVAL DAIRY SUPPLY CO., LIMITED 173 William St. MONTREAL.

OF USE EVERY DAY

Is this favorite

WESTERN STOCK KNIFE



This Busy Farmer's Friend

Known as the Western Stock Enife, is especially made and designed for the use of cattlemen and farmers. It is strongly and perfectly made. It is light to carry in your pocket.

It is strongly and perfectly made. It is light to carry in your pocket.

Has two extra fine steel blades and a special castrating blade, brass lining and bolster ends.

Choice of buff or stag handle lose such a constant friend, and which will fill the special constant friend and the special cast friends and the special cast frien

FARM AND DAIRY, Peterboro, Ont.

RELIABILITY

Feature you can count on when you buy a NO STEEL BOUNTIES



Baker mills have no freak features to exploit. The man who buys this mill makes a good investment. He does come to the feature of the feature

ball-bearing turntable and self-regulating device All working parts covered with a cast from shield, thus protecting same from ice and siect. We make a full included toward, galvanised steel tanks, pumps gasoline engines, etc. Write for catalogue.

THE HELLER-ALLER CO.

Windsor, Ontario

For the Land's Sake

Bowker's Fertilizers

They enrich the earth and those who till it. By the use of a good fertilizer, any farmer can add greatly to his profit through raising bigger crops. He can make each of his acres produce more, or he can cultivate fewer acres, and still produce as much as he is getting now, but with less labor and expense. This is a big item, if hired help is scarce

We have a fertilizer to fit every crop and every pocketbook. Each one is ready to use, and easy to apply. Our catalogue gives full information and directions. Many years of experience in both Canada and the United States, the best facilities, and prompt service are behind every bag we ship.

If we have no agent near your farm, we want one. It pays to sell as well as use our fertilizers.

Write today for our catalogue and calendar. Both will be sent promptly and without cost. If interested, ask for agency proposition, but write anyway for

BOWKER Fertilizer Company, Original and largest manufacturers of special fertilizers.

GREAT DAIRY ANNUAL

Of Farm and Dairy, April 4th. Watch for it! Get your advertising copy in for it by Friday, March 29th

95 AND UP-WARD AMERICAN

AMERICAN SEPARATOR CO. BAINBRIDGE, N.Y.

WANTED

Assistant for cheese and whey butter fac-tory. Apply stating experience and salary expected to S. GIBSON, SCOTCH LINE, ONT. SCOTCH LINE, ONT. **GASOLINE ENGINES**

1 to 50 H.P. Stationary Mounted and Traction

WINDMILLS Grain Grinders, Water Boxes, Steel Saw Frames, Pumps, Tanks, Etc.

COOLD, SHAPLEY & MUIR CO., LTD. Brantford Winnipeg Calgary

The Sarnia Fence Company's Petitions are Effective with the Government

Sarnia, March 15th.-No doubt it will be gratifying to every farmer who signed the Sarnia Fence Company's petitions against the renewal of the steel bounties, to learn that they have been effective with the government. It goes to prove what a power the farmers are if they will only unite and stick together. The Sarnia Fence Co. sent out 25,000 of these petitions, and the great majority of them reached Ottawa; five hundred thousand farmers told the government that they would not submit to be taxed in favor of a few capitalists. The government realize that the farmers are united in this matter, and the result is that you are relieved of this unjust tax for the present. You must bear in mind, however, that government aid, is too rich a plum for the steel interests to let slip without a fight, and they are now making statements to the effect that the opposition to the steel bounties is the work of some New York Steel Corporation, who do not want to lose their Canadian market. This is absoluately untrue; the Sarnia Fence Company is a strictly Canadian Company operated on Canadian soil by Canadians with Canadian capital. This statement is made by the steel interests with the desire to, if possible, counteract the effect of the petitions sent to your member. Without tions sent to your member. Without Steel Corporation, who do not want tions sent to your member. Without question the steel interest will make strenuous efforts to induce the new tariff commission (which the government propose to appoint) to give them increased protection in the form of additional duty on all iron and steel products, especially fence wire and wire rods. The Sarnia Fence Co. propose to present to the tariff commission the farmers' side of the situation, and, if possible, persuade them to give the steel interests no further protection at the expense of the farm-er. This is a matter in which you are or. This is a matter in which you are vitally interested, whatever amount of duty or protection which is put on wire must be paid by the farmer as the price of fence must be increased whatever the duty amounts to. Now the Sarnia Fence Company cannot ac-complish this without the support of the farmer and we want you to keep. the farmer, and we want you to keep the matter before you and at every opportunity state your views to your member, give him to understand that member, give him to understand that if he does not oppose the giving of a Lounty on all steel and iron products or the placing of a duty on fence wire or wire rods, that you will resent it and if he will oppose this in the interests of the farmer he will have the product of the control of the product of the control of t your support. Don't let party politics influence you in this matter, by uniting and standing together against this injustice you will receive proportion-ate consideration at the hands of the government

have decided to continue our special cut prices on Royal Fence for the balance of this season or up to July 1st, 1912

Yours very truly,

The Sarnia Fence Co., Limited SARNIA, ONTARIO

WANTED

6 or 8 H. Power, horizontal center crank engine. Must be in first class repair. Apply FARM AND DAIRY, Peterboro, Ont.

GOOD SEEDS

Are the foundation for bountiful cro-Care, time and trouble in selection of the selection

Seed Oats

Our alook has been selected from all over obstain. They all test about 3 over obstain a selection of the varieties we have with prices of the paper. BAGS FREI is seen, and they are they are

Barley

BAGS FREE O.A.C. No. 21, our best lot, test 49; lbs. at 1.35. O.A.C. No. 21, good sample, test 48 lbs. at 1.20.

Clovers and Timothy

Herewith find prices good for or week from date of issue of this paper of the paper

Clover				
	Gold Ex.	66	1	12.00
Alsyke,	Ocean	44	1	14.00
	Sea	165	2	13.25
	Bilver	**	1	11.50
- 65	Lake	40	3	12.50
imothy, Diamond			1	9.50
**	Crescent	ic	0	8.50
**	Circle	**	3	8.00

Fertilizers

Order along with your seeds riate of Potash \$48.00 p \$48.00 per ton 58.00 " 19.00 " 57.00 " Murrase
Sulphate 19.te
Acid Phosphate 57.00 "
Nitrate of Soda 57.00 "
Our catalogue tells you how to mix
Our catalogue tells you how to mix

Geo. Keith & Sons SEED MERCHANTS SINCE 1865

124 King St. East Toronto

CHEESEMAKER WANTED

For sixty-ton factory for coming season. by hundredweight. Factory in Western Ontario. Maker to furnish, except boxes.

BOX 271, FARM & DAIRY, Peterboro, Out.

CREAMERY FOR SALE

Runs summer months only. Make 70,000 to 75,000 lbs. New Eureka refrigerator 729 ft. Good supply of ice in. Fine town on R. B. Worth more than is asked. Owner wants to go West.

Address Box 814, Farm and Dairy, Peter. >

WANTED AT ONCE COMPETENT BUTTERMAKER

To take charge of all inside work in creamery. Good wages. All year round job. Cottage available. Apply, with references to

BOX A, FARM AND DAIRY.

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Adulteration of Milk Prevented

J. J. Parsons, Haldimand Co., Ont.

We have paid by test, that is, fat test plus 2, for milk for cheese-making at our factories, for the past three seasons. As far as I can find out, pay by test is quite satisfactory to the patrons, and I must say it is most

satisfactory to me.

One reason, if no other, for my pre-One reason, if no other, for my pre-ferring the test would be the relief from the fear that some patron may be tempted beyond his strength to resist to tamper with his milk in some manner that would lead to trouble. Previous to introducing this plan of Previous to introducing this pian of paying for milk, we found cases of adulteration and had trouble. Since we adopted this plan our milk is of better quality generally and none of it low enough in test to cause suspicion of any wrongdoing in handling it. We get a better quality of milk in

the hot weather, as this system of paying induces patrons to take better care of milk by cooling it. We are also quite satisfied that the cheese made is better and that there is some increase in quantity from the same amount of milk.

I cannot see why all factories have not seen fit to adopt this plan of paying for milk by test. I believe it is the only fair way to pay for milk used in cheese-making.

A Heavy Responsibility

The veteran "Dan" Derbyshire of Brockville, Ontario, has suggested the establishing of two chese vats in the cheese factory and the working up of good and bad milk separately. There is something attractive in the idea at is something attractive in the idea at first sight and as a temporary demon-stration it might be all right, but it seems to us a very heavy responsi-bility to place on the shoulders of the cheesemaker, with the additional danger of not doing justice to the patrons after all.

If the makers have to grade the If the makers have to grade the milk in the usual rush of receiving it, it will be hard for them to discriminate very finely and they may easily turn into the poor vat milk that ought to go to the good one, unless ought to go to the good one, unless indeed the poor vat is used only for such milk as under the present rules ought to be condemned and sent back. ought to be condemned and sent back. But, even in that case, the difficulty still remains that patron A may have better milk than patron B, but the latter has chilled his milk more and so the maker may be fooled, or the milk of both may be chilled so as to render discrimination very difficult.

IS IT PRACTICABLE?

So while the Derbyshire idea would so while the Derbyshire idea would be an excellent object lesson, which we believe would amply repay the cost if used temporarily, we have our doubts as to its permanent practica-bility. The maker who now favors a director or his best girl's father by accepting milk which ought to be re-turned will also favor been been been. turned, will also favor these by put-ting into vat No. 1 milk that ought to go into vat No. 2. And even if he to go into var No. 2. And even it he is absolutely fair there will always be the suspicion of partiality unless indeed he is in the exceptionally happy possession of the confidence of all his

patrons.

No! If the farmers and the maker desire to do absolute justice to all, let the maker return all such milk which is evidently unfit for cheesemaking and let him set the fermentation test or, better still, let the patrons appoint some one to set the fermentation

wassessessessessessesses | test at least for all the milk of which Cheese Department which was a series of the maker is not certain enough to be willing to guarantee the quality of the results in the cheese. If this is done and a record kept of the results it will be suggest subjects for discussion. Address suggest subjects for discussion. Address interior The Cheese Maker's Denatures. In the control of the results it will be suggest an expectation of the results of the results it will be suggested to the control of the results it will be suggested to the control of the results it will be suggested to the control of the results it will be suggested to the control of the results it will be suggested to the results it will be suggested t

ABSOLUTE JUSTICE

Ansolute Justice
This system will give absolute justice as nearly as it is possible, and it is not a theory but has been practiced for years in Switzerland, where a committee of farmers attends to the test. "Tis true it will cost a good deal but so does all justice and the effect of improving the cheese, if commerced the state of the proving the cheese, if commerced the state of bined with payment according to fat percentage, will be enormous.

A combination of the system might

be made with the modern Danish milk scoring system, where several cream-eries (factories) combine in hiring an expert milk scorer; the way to resume is to resume and the step should be taken fully so as to leave no open-ings for discriminations.

Meanwhile we recommend the Derbyshire proportion as a practical ocular demonstration, more effective than the fermentation test, in opening the eyes of the milk producers that take good care of their milk to the unjust robbery from which they suffer by mixing it with milk not fit to make into cheese. Having made to make into cneese. Having made such a demonstration and being arm-ed with facts and figures, the maker should have no difficulty in gaining the consent of the patrons to a per-manent system of control be it the old Swiss, the modern Danish, a combina-tion of both or a new and better plan of which we have not yet even dreamt.

The men who handle the product in the cheese factories and creameries must be competent. They must be educated and must qualify for their positions. There is too much money positions. Inere is too much money placed in their hands daily for them not to know their business. Dairying is the great business of Eastern Ontario.—D. Dertyshire, Leed Co.,



WHERE MONEY IS MADE

Finest homes, biggest barns, heaviest crops are found on dairy farms. Dairy farming improves the land. Wheat or similar crops without dairy-

ing robs the land. Why not follow the lead of keen business farmers who are making most money? Such men use highly productive land because it pays them profits which inferior land cannot pay, and they use and recommend the highly productive SHARPLES

Tubular Cream Separator

Vol. All There Is to the Light, Simple, Sanitary Dairy Tubular Bowl for similar good reasons. Tubu-Sanitary Dairy Tubular Bowl lars have twice the skimming force of others, skim twice as clean, pay profits no other can pay.

of others, skill twice as Grean, pay profits no other can pay.

The widely known T. Eaton Estate, here shown, near Georgetown, Ont., Is but
farm and as Mrs. Eaton's summer home.

No disks in dairy Tubulars. Easy to clean. Were a lifetime, Guaranteed freever by
No disks in dairy Tubulars. Easy to clean. Were a lifetime, Guaranteed freever by
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Hanker the Sharples Separator Co.

Cheese Making Outfit - For Sale

Lucess Making Uutilit - For Sale Gang Steel Press, Richardson make, for 14 large cheese. Six 14% inch large Hoope; Scillon Hoope for 15th. heese: diameter 0% inches; 3 Bandgers. Everything company for the c

Wallacetown, P. O A KEILLOR .

Extra Money

You can earn money in leisure hours, or when you go to town to the blacksmith shop, to the mill, to the choses factory or creamery, by speaking to your friends and neighbors about Farm and Dalry and getting them to subscribe. We pay a liberal cash commission for each new subscriber you get for us. It'll pay you to get busy on this proposition first time you are out.

THE RURAL PUBLISHING CO.,

DRUMMOND Sells Dairy Supplies by Mail Cheaper Than You Can Buy Anywhere Else And Guarantees the Goods part strainer

You will find that it pays to have all your dairy needs supplied direct from the largest dairy supply house in Canada. You can alway get exactly what you want at the lowest prices saked any supplied it PROMPTLY. And you run on take of disappointment—just read our guarantee. Any of the following articles shipped promptly on receipt of price.



The Beaver Babcock Tester

Used by all the Gov't Testing Stations. This 4-botter has a state of the testing Stations. This 4-botter of the testing Stations. This 4-botter of the testing the testing Stations of the testing Sta 3 or 30 cows. 2-bottle Tester - \$4.25 - \$5.50

Beaver Coolers and Aerators

Write NOW for FREE Catalogue W. A. DRUMMOND & CO. Sterilac Sanitary Milk Pail

Note its elever construction. The funnel is detachable. As the sulk falls on the slant detachable. As the sulk falls on the slant the strainer into the paul. All duft falls on Capacity 14 Quarte a deep shell inside the funnel—not on the Price \$2.50. counter. You can use ordinary choses doth for straining. Capacity 14 quarts, no joints on the inside: it is easily cleaned. Price \$2.50. Used by all up-to-date fatures and dulrymen.

Other Things You Need in the Dairy

Decimal Milk Scale \ 30 lbs. by oz. \$3.50, by tenths - \$4.00 Sterile Atmospheric Milk Fever Outfit. Cures 90 per cent. of milk fever cases. Complete \$3.00 fever cases. Complete - \$3.00

Hard Milker Outfit in Handsome Case, contains Bistuory, Teat
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EVER bear more than one kind of trouble at a time. Some people bear three: all they have had, all they have now, all they expect to have.

-Everet Hale. The Second Chance

(Copyrighted) NELLIE L. McCLUNG Author of "Sowing Seeds in Danny" (Continued from last week)

(Continued from less week)

Pe rl, the oldest daughter of John Watson, a O. P. H. section man in Miliford, Man, receives a sum of money and starts in to educate herself and the rest of the family, she prives or more selected but seeing that her small brothers are getting into bad habits in town or selected but seeing that her amail brothers are getting introduced to the children at a country of the family on to a farm. We are next introduced to the children at a country of the seed of the country school. At the Pioness' Pioness again take up their education at the country school. At the Pioness' Pioness again take up their education at the country school. At the Pioness' Pioness again take up their education at the country school. At the Pioness' Pioness again take up their education at the country school. At the Pioness' Pioness again take up their education at the country school. At the Pioness' Pioness again take up their education at the country school. At the Pioness' Pione

"HURSA pursed her pretty lips. Arthur, it really is, to scold me, when well enough—oh, yes, real well came so far just to see you, and —and I liked him fully when he ided to come to Canada—it was so Pearl and Martha retired hastily to decided to come to Canadasplendid and dashing of him, splendid and dashing of him, a thought, and I was simply wild to come, too, for the adventures!" "The what?" Pearl asked.

"The adventures. It must be per-fectly jolly to chase Indians and buffaloes and bears. Wouldn't it be a lark send one home?"

Pearl winked hard, wondering if it was an Indian, a buffalo, or a bear wanted to send home

After dinner, for which Arthur stayed, Thursa said she believed she would take a rest-she had so many letters to write, too, to people sae met on shipboard, and such delightful people.

Arthur begged to be let stay a little while longer, but Thursa said very decidedly he must go now and not come back until the next evening, for she really must get her letters done-there was one in particular that must be sent by next post. "Do you know a Mr. Smeaton in Brandon," she asked, "Mr. Jack Smeaton?"

Arthur did not know him.

"He was on the boat and was so jolly! He was teaching me Canadian words. We did have good fun over it. He told me to be sure and let him know how I liked you when I saw you."

Arthur winced.
"I said I would come and see anyway, for I said I couldn't believe you had changed so very much in two years. He said it was always well to take thirty days to consider any serious steps and he taught me the word for it—'a thirty days' option'—that's it, Arthur. That's what I have on

She laughed merrily, but Arthur pleaded with her not to say such things.

Then Thursa became very serious Then Thursa became very school.
"Now, Arthur, for heaven's sake,"
she said, "don't act like the aunts.
That's what I've listened to all my
life. Calm yourself, my dear. That's what I've run away from. I might as well have stayed with them if you're going to do it. It's wicked of you, came so far just to see you, and when you know how tired I am." Pearl and Martha retired hastily to

the kitchen.

Arthur apologized in due form, and Arthur apologicul in due torin, and Thursa's good humour came back. "Now, then, Arthur, run along, because I am going to have a long sleep, and then I have some very serious thinking to do. The aunts serious thinking to do. The aunts said that is what I am incapable of doing, but I've done some that would have surprised them if they had just heard me at it. Now I am going to do some more. It's so horrible to be in a quandary. It is as bad as it was

Thursa?" he asked gently. me about it.

"Oh, no, Arthur, dear me, no—I haven't got half my thinking done yet. I'll tell you after I get it done. am so happy to think that I got I am so happy to think that I got away without any of the aunts that, really, I am not very worried about anything. You know I wasn't perfectly sure that I was away unsuch a fright—there was something swimming behind the boat! But now, good-bye, Arthur. Kiss me, if you like. There, now, that will do. Yes, I do like you, Arthur, you're a good sort. Good-bye till to-morrow evening." Two days later Arthur took Thursa

over to the house. She was quite rested now from her journey, and in her scarlet coat and hat she was more bewitching than ever.

"It is very pretty here in the sum-mertime, Thursa," he said, as they stood together in the little porch. "I had some flowers last year, and the trees are growing nicely. It will the dearest place on earth to me when you are here. ious to be together always, dearie, you and I? I wonder if you know how

you and if I wonder it you know now beautiful you are, Thursa?"

Thursa knit her brows in deep thought. "I wonder if I do?" she said quite gravely. "I've heard quite a lot about it lately, and I don't oba lot about it facely, and I don't object to hearing it as much as my aunts would wish me to, I fear. It seems pleasant, really!"

Arthur laughed joyously. Her

beauty dazzled him.

Then they went into the house that he had built and furnished with much loving care. Thursa was interested in everything; the shining new pots she said they were "such jolly little dears," but what were they all for? Arthur tried to explain, but Thursa became impatient at the mention of cooking and washing dishes, and cried out petulantly: "Why don't you dishes, and tame a squaw and have her to do all when I was choosing a gown for my do it. I know I read I really never can first party; I lay awake nearly a whole night trying to decide between a researd and a pink-violet. It was persectly maddening, and I did have such a head the next day."

"Are you in a ouandary now,"

Arthur's face showed to cooking or was all when the cooking on the cooking of the cooking o this? I simply loathe cooking or up. It is horrid, messy

Good? Well, Just a Few!

"Tell ment. "We will have to get someone to show you how," he said, after an unpleasant pause. "You will not disunpleasant pause. "You will not dis-like it so much after you learn how. Thursa. It is really pleasant work, housekeeping is, and I am sure you will learn to be a famous little house-wife." wife

"Don't bank too strong on i thur. Isn't that the right word? Mr. Smeaton taught me that. This idea of having to cook has upset me dreadthur.

She sat down in the rocking-chair and rocked herself in her agitation 'Arthur, I shall go staring mad if have to mess around and try to cook.
I know I shall. I feel it beginning on me, and I shall have rough hands and my skin will get red and blotchy, just like a cook's, and there will always be a greasy smell on my clothes. I am going to cry, Arthur, I am now, really, and nobody can stop me, and I do cry dreadfully when I start."

"Oh, don't cry, Thursa!" Arthur pleaded, with all the helplessness of a man in the presence of tears. "Don't cry, dearest. You'll break my heart if you cry the first day you come into your new home. I don't want you to cook or work or do any thing, only just to stay with me and love me and let me look at youyou are too beautiful to ever have to work, darling."

Contrary to her expectations, Thursa did not cry, but looked at Arthur with a very shrewd expression

Arthur with a very shrewd expression on her pretty face.

"I'd rather stay here and take a chance on it—that's a Canadian word, too—than go back to the aunts and have to work antimacassars and put up with them trailing around after me always—that was perfectly and the stay of the s maddening—but it seems to me—"she went over to Arthur's new side-board and looked critically into the glass—"it seems to me a girl like me—you see I am not what you might call a fright, am I, Arthur?—and here in Canada there are abundant opportunities for good marriages—I think I really should do pretty well."

Arthur stood beside her looking a her image in the glass. When her meaning became clear he turned away hastily to hide the hurt her words had given him.

had given him.
"You mean that I am not good
enough for you. You are quite right,
I am not. You are a queen among
women, Thursa."

"Queen nothing!" Thursa cried mpatiently. "You make love like they do it in Scott's novels. The upatiently. "You make love like they do it in Scott's novels. The aunts made me read it, and now I simply loathe anything that sounds like it. Now, Mr. Smeaton said I was a peach."

Arthur consigned Mr. Smeaton and Arthur consigned Mr. Silvanda and all such cads to a hotter climate.

"Good for you, Arthur!" she said, laughing, "you can ride the high horse, too. I like you like that. Now,

r. Smeaton said—"
"See here, Thursa," Arthur broke

"did that cur make love to you?"Madly," she said. "And you let him-and listened?"
She clapped her hands and laughed

"Listened? I didn't have to listen hard. He was near me, you know, and he did make love so beautiful. I

wish you could have heard him."
"I'd have bashed his head for him," Arthur said hotly. "Who is

him," Arthur said hotly. "Who is he, anyway?" "He has a dry-goods store in Bran-He's a linen draper really, and

don. He's a linen draper tenan, is only six-and-twenty, but he is awfully clever, and so charming. When I sent you word that I was staying to see the shops I meant that I was staying to see his shop. He took me to his own home, and his mother and Photo taken on farm of Bobt. Snowden, Huron Co., Ont. sisters were lovely to me. He want

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(19)

got to count how many times he pro-posed to me in Brandon; but I wanted to be perfectly fair, and would not marry him until I had seen you."

Arthur said not a word, but walkwar to the eastern window. It was a pleasant day in early winter. He could see the curls of smoke rising from the neighbours' houses into the frosty air, and the long gray wreath of it that the morning train had left still lay on the Finger Hills. A mirage had lifted the old spruce

This Washer Must Pay for Itself

Well, didn't that. I afraid

A MAN tried to sell me a horse once. He said it was a fine horse and had nothing the matter with I. I wanted a about horse. I didn't know anything much. And I didn't know anything much a know anythin right."

I ike didn't like that. I was alraid the horse wasn't have sold over half a million that wasn't have sold over half a million that wasn't have sold over half a million that Now, I have sold over half a million that Now, I have sold over half a million that Now, I know what our '1300 Gravity's Now, I know what our '1300 Gravity's horse wasn't have sold over half a million that Now, I know what our '1300 Gravity's horse wasn't have sold over half a million that Now, I know what our '1300 Gravity's horse wasn't have sold over half a million that Now, I know what our '1300 Gravity's wasn't have sold over half a million that Now, I know what our '1300 Gravity's wasn't have sold over half a million that half wasn't have sold over half a million that half wasn't half

mail. I have sold over half a million that way.

Now, I know what our "1900 Gravity" Washer will do I know it will wash the washer will do I know it will wash the in less than half the time they can be washed by hand or by any other machine. I know it will wash a tub full of very other machine ever invented know no other machine ever invented whose more machine ever invented to the work so easy that a child can run it at work so easy that a child can run it at our "1900 Gravity" Washer does the work so easy that a child can run it at our transfer of the country of the c

might.

So, said I to myself, I will do with my
"1500 Gravity" Washer what I wanted the
man to do with the horse. Only I won't
walt for people to ask me. I'll offer first,
and I'll make good the offer every time,
or on a month's free trial. I'll pay the
freight out of my own pocket, and if you
don't want the machine after you've used
it a month, I'll take it back and pay the
light too. Surely that is fair enough.

freight too. Surely that is fair enough, int if?
In one of the the "190 Gravity"
Doesn't prove that the "190 Gravity"
Doesn't prove that the "190 Gravity"
And you can pay me out of what it saves for you. It will save its whole cost in a few months, in wear and tear on the clothes alone. And then it will save 50 washwoman's wages. If you keep the machine after the month's trial, I'll let you pay for it out of what it saves you. If it saves you do cente a week, send me 50 cheerfully, and I'll wait for my money until the machine itself earns the balance. Drop me a line to-day and I'll wait for my money until the machine itself earns the balance. Drop me a line to-day and I'll wait for my money walter that weaken otches in 6 minutes. Address me personally - A. W. Rach, Manager, 1996 Washer Co., \$57½ Yonge St., Toronto.

ed me to marry him at Montreal, and bush on the Assiniboine into vision. asked me again at North Bay, and Every mark on the landscape stung twice in Winnipeg, and I really for him with remembrances of happy got to count how many times he pro- days when youth and love and hope were weaving for him a glorious dream.

He turned suddenly and caught her He turned suddenly and caught her in his arms. "Don't go back on me, Thursa! I won't give you up!" he cried. "He can't love you the way I do. You haven't been in his mind, day and night, all these years. He doesn't love you, dear, like I do, and be can't have you. I tell you, I won't give you up. You are mine for ever."

Suddenly his arms dropped and he put her away from him. "Let me think a minute, Thursa," he said, in his usual tone. "This has come on me suddenly. Stay here until I come

(To be continued)

************ The Upward Look ILE Ohmain Foor

Rendering Thanks

In everything give thanks, for this is the will of God in Christ Jesus concerning you.—I. Thessalonians 5:

Have you ever looked in the co cordance for passages in your Bible in which the words "thank" or "thanksgiving" appear. If not, if you will do so you will be surprised to find how often, and the connections find how often, and the connections in which these words are used. We are literally told in detail what our text tells us in brief, that we are to give thanks in all things. We are to come before God with thanks, we are to enter into His gates with thanks and praise, we are to let our requests be made known unto God with praise, we are to give thanks for our daily bread, we are to sing to the Lord with thanksgiving. we are to give thanks bread, we are to sing to the Lord with thanksgiving, we are to give thanks for spiritual blessings, for moral blessings, such as wisdom and know-ledge, for temporal blessings, such as our raiment and comfortable

Should we look also for reference to the word "rejoice," we will find that God expects us to rejoice under all manner of circumstances. We are to rejoice in all that we put our hand to, we are to rejoice in every good thing we are to rejoice in God's salthing we are to rejoice in God's sar-vation, we are to rejoice evermore, we are to rejoice even in the midst of manifold temptations. It our lives are not filled with re-

joicing and thanksgiving we are not living as God wants us to live, as he has told us that we should live. One reason many of us are not more suc-cessful in living the overcoming life is because we have forgotten how to give thanks for our blessings. We can hardly expect God to shower more blessings on us until we remember to give thanks for those we have already received.

received.
Giving thanks, even in the midst of our troubles, is not so hard when once we remember and learn to believe that all things, even the hard things, work together for good for those who love God. Christians should reflect God's love. When love abounds in our heart praise and thanksgiving will come natural to us.—I. B. N.

. . . Good Polish for Oilcloth or Lino-leum.—Save all ends of candles and melt in the oven. Mix with it suf-ficient turpentine to make a soft paste. This is really an excellent preparation.

Great care should be taken to dry towels thoroughly before putting them away. If placed in the linen presses without being well aired, while still damp, a mould is likely to form upon them, which, it is said, produces skin

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Extra Cooking that Pays

By Hilda Richmond "In my home there is but one breakfast" said a capable looking matron with emphasis, "and every member of the family must be at the table unless positively ill. I have enough to do without extra meals. I cook a good, hot, substantial breakfast with no extra dishes for anyone, and then I get at my day's work when it is finished. The reason some woand then I get at my day's work when it is finished. The reason some women are always behind with everything is that they potter too much with their cooking, especially in the mornings. We have our meals on time and are all present, so I get my work done in season."

This all sounded very well, but neighbors who were intimately acquainted with the family had no desire to follow the energetic lady's plan. They were guilty of having several breakfasts in their own homes

plan. They were guilty of naving several breakfasts in their own homes often, and also of preparing extra foods for different members of the family circle, but they took it all good naturedly and several of them said politely that Mrs. F. had the reputa-tion of being the best housekeeper in the neighborhood, much to that lady's sutisfaction.

But as a matter of fact her children were delicate and her aged father-in-law the object of pity of the whole community though she was kind in her way to him. The little folks and the aged man dutifully wrestled every morning with buckwheat cakes, saumorning with buckwheat cakes, sau-sages, doughnuts and often pie and fried potatoes which the men found so appetizing, but really they left the table hungry. What was suited to ac-tive, hearty men was poison to deli-cate stomachs, and the good lady paid dearly for her system and her fixed rules later on.

It pays to prepare tempting things for old people and for invalids and children, and it isn't pampering them children, and it isn't pampering them a bit to see that every meal includes something nourishing for them as well as for the workers of the family. Often the mother of the family should have something extra herself, but she scorns the idea and goes on until a spell of sickness confines her to her spen of stekness confines her to her bed. Many and many a case of serious illness might have been avoided if on-ly women knew how to feed them-selves and their families.

THE " MEN " NOT ALL

What if the men do like cakes and

potatoes and fried mush? That is no sign that they agree with delicate children and women closely confined to the house, and old folks. Such to the house, and old folks. Such persons need hot cocoa, a thing despis-ed by most men, soft boiled eggs, not eggs fried in ham grease, toast, rice with milk, broths, hot milk, well cookwith milk, broths, hot milk, well cook-ed cereals and various other foods the men think not "filling" enough in winter and apring. And it pays to take the time to prepare all these things, for none of them are much trouble.

If the mistress of the house is too busy to get so many things ready at once she will do well to encourage the elderly and delicate members of the family to remain in bed, as well as the children, for a second breakfast. is always annoying to stop in the midst of cooking and dress children and comb hair, while the habit of alchildren lowing them to eat in their night clothes unwashed and uncombed clothes unwashed and uncombed should never be permitted to exist. Often children cry for things they should not have and the second breakfast gives the mother a chance to dispose of all tempting but indigestible foods. Rules are all right and system a good thing, but above all rules and systems the health of the family must be considered, or the whole scheme is a failure.—Indiana Farmer.

Household Suggestions

Many people have wondered if the iny appearance that a suit of shiny clothes is apt to acquire can be re-moved. It can to a great extent, by frubbing the shiny spots with very fine, black emery paper, that can be purchased at any hardware store for a few cents.

When packing a pasteboard hat box

in a trunk for a journey, sow the hat to the bottom of the box. No amount No amount of jolting of the box. No amount of jolting of the trunk can then crush or injure the hat or trimmings, as it will remain firmly in place. Anis is an especially good plan when the trimming consists of expensive plumes

By heating a lemon thoroughly be-By heating a lemon thoroughly be-fore squeening it, nearly twice as much juice will be obtained, as other-wise would be the case — a bit of economy easily put into practice. The ordinary wire screens for doors and windows offer no protection from prying eyes. This can be remedied

by giving the outside of all screens a coat of thin, white paint. Strange as it may seem, the paint will not be It may seem, the paint will not be noticeable, and while those inside may look out through the screens, out-siders can not see into the room. The paint should be made as thin as possible with turpentine, and applied with a broad, flat brush.

Cut a round piece from an old stocking. Whip the edges to prevent ravelling, and sew on the wrong side of the stocking, where you catch the hose supporter. This will keep the finest hose from being torn, and if done neatly is not disfiguring to the stocking.

When blankets become thin, torn, faded and frayed at the ends, cover them over, or spread them between sheets of silkaline or silk and tuft them with ribbon or worsted. In place of an old, untidy blanket, you now have an attractive covering for your bed

your bed.

Ironing may be made easy by several thicknesses of newspaper, instead of cloth, being used when pressing.

This prevents the shiny appearance which often follows the use of a damp c'oth. Using a newspaper when pressing tucks in dress skirts instead of cloth will render the iron much ier in use.

To remove obstinate stoppers from glass bottles, dip a piece of woollen cloth into boiling water and wrap tightly about neck of bottle. In a few minutes, the stopper can be

If, when boiling milk sauces If, when loiling milk sauces, cutards, stews, porridges or liquids, yuplace a large clean marble in the kettle, it will automatically do the stirring during the sooking process and will save standing and wastig precious time doing it with a spool it prevents any burning, and you cen attend to the rest of your work which the nurble is busly helping you. Fruit cake which is steamed is much more delicious than that which is

Fruit cake which is steamed is much more delicious than that which is baked. Steam the cake three hours, then allow it to dry out in a slow oven for half an hour. Each piece of fruit is plump and tender instead of hard and dry, as is often the case when the cake is baked. Steam in large pans, or in square cocoa tins to make small cakes. Small cakes are easy to pack away, and may be brought out one at a time, as needed. Further-more, when wrapped in tissue paper, tied with ribbon and ornamented with a sprig of holly, they make delightful Christmas remembrances

A Priceless Possession I have deliberately forgotten all the

unpleasant things and the others. When a little pleasure has flashed for a moment against the dark, I have made that jewel mine.

I call it my Necklace of Perfect Joy. When the world good wrong, I have only to close my eyes and remember the links in my chain. set with gems, some large and some small, but beautiful with the beauty which never fades. It is all I can take with me when I go. My material possessions must stay behind, out my Necklace of Perfect Joy will bring me happiness to the end, when I put it on, to be nevermore unclasped.



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the deceased would want to share in the
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This is a phase of farm life which is much neglected and unappreciated. Few people realize the great importance of recreation; they think it is a luxury, or useless waste of time, little realizing how necessary it is, not only for the physical well being, but the mental as well.

mental as well.

A farm woman's life is often one of nothing but drudgery, and yet why should it be so? The old ideas that 'a man's work is from sun to sun, a woman's work is from sun to sun, a wo-man's work is never done" has long since been dissipated. Too many wo-men feel that they must do it all and that servants are not necessary, even if one can afford them.

WHEN JUST STARTING

There are two kinds of farmers' wives—first, the wife of the man who is making a start, with money short, owing to the necessity of getting the farm on a paying basis. His wife farm on a paying basis. His wife needs recreation more than anyone else, except himself, perhaps, but she seldom feels she can spare the time from the pressure of work; the feel-ing that she must accomplish just so much and a little more seems paramount. There is no reason why every afternoon, after luncheon or dinner, she should not lie down for fifteen minutes. Suppose the table is piled high with unwashed dishes, clothes to be ironed, etc.? All the more reason why she should give herself a change to recuperate. All her tasks will be better done for this needed rest. Lie down, alone if possible; if not, give the babies a toy or book and relax. Get your mind off the work; start your rest by looking over a magazine; then perhaps you will become drowsy, and if you can sleep for only 10 min-utes, you will feel like a new woman, and your work will go twice as quickand well.

Few women appreciate the necessity of relaxation and absolute repose to the tired nerves and muscles. think about the work, forget all about it; try and cultivate thinking only the pleasant things—your flowers, the next basket social, and the Grange meeting. This will be hard at first, but in time it will come. It will surprise you when you get up, to find how refreshed you are, physically and mentally.

The other farmer's wife is the one hose farm is paying well. She can afford to have servants and many things her sister farmers cannot have. but half the time she doesn't have but half the time she doesn't have them. She thinks she must work her-self to death, in order to have a little more "for the children," and right here she makes a big mistake, not only for herself, but for the children. They look at her, and knowing that the farm is paying well, they think her

unsympathetic, when from cold and working so hard she is always too tired to be interested in their affairs, and she to be interested in their affairs, and she is to tired to have any fun or any interest in the outside world. Instead of the home being a pleasant, restful place, it is full of hurry and the bustle of work, and drives the children away to the city, where, in homes of their father's financial standing, there is the peacefulness of a well-equipped home, with a mother not worn out by work, but interested and ready to be one of them.

Rejuvenating the Lawn

The rejuvenation of an almost worn-out lawn is a frequent spring problem. A light application of white clover and blue grass on the lawn, after it has been thoroughly raked, will often bring good results. Do not be afraid to rake the surface severely. The breaking of the roots of the old stand of grass will be con-

Have You Made Your Recreation, Mental and Physical ducive to good results. If it can be had, a light top-dressing of well-rotted manure may be applied before the raking is done; and the seed sown

after the raking.

If the lawn has been covered with If the lawn has been covered with coarse manure, as a protection dur-ing the winter, the heavy coarse parts may be removed, and the finer parts will then take the place of a top-dressing. Very often a sickly-look-ing lawn may be built up and given a better appearance by giving it a top-dressing of commercial fertilizer. for this purpose ground bone is one of the best materials. It should be sown broadcast very early in the spring, at the rate of about 300 pounds an acre.

SUMMER TREATMENT Of course, the sowing of seeds and the "rejuvenation" will be of little account unless the lawn receives good count unless the law care during the season. Poultry should not be allowed to run about the lawn. They keep the grass in a care with a lawn. foul condition, and prevent its giving the best results. As soon as the grass makes sufficient growth, a lawn mower should be placed upon it and it should should be placed upon it and it should be kept cut quite closely during the early part of the season. This will help the turf to thicken up, and will be productive of a good lawn in after years. If there are small clods and trash on the ground, it should be rolled, and the trash should be raked off before the lawn mower is put on.

The stronger one can make the turf,

The stronger one can make the turr, the less trouble there will be with weeds. Usually, if there is a very heavy stand of grass and a good well-knit sod, dandelions and other weedpests will not give much trouble.—K. A. Kirkpatrick.

. . . How to use Milk

Milk is a fluid which readily coagulates in the stomach and forms a curd. Now the curd of the milk of different animals differs much in its constituency, hardness and digesti-bility. Cow's milk form a very hard, indigestible curd compared to that obtained from the milk of an ass, for example. All milk coagulates when ample. All milk coagulates when acted on by the gastric juices, so that Nature is careful to provide this fluid in such a form that it can only be swallowed in driblets, and after com-plete mixture with the saliva. While water is provided in running streams and ponds and lakes and seas, so that men and animals alike can drink themselves full in deep draughts, milk is provided in reservoirs, called udders, from which it can only be ob-tained in tiny streams by much pull-

ing at a teat.

This gives a key to the whole posi-This gives a key to the wine posi-tion. In order to use milk properly, and in such a way that it can be readily digested and assimilated, it is necessary, firstly, to dilute it, and, secondly, to imbibe it in driblets. The practical method of carrying out these principles is to take half a pint these principles is to take nair a pint of new milk, specially drawn from a healthy cow, add to it half a pint of distilled or boiled water, or a little less of rice water, or wheatenade, or oatenade, and then to sip it, or, in case of invalids, to suck it. like cocktail, through a straw or glass tube. There are many people who are gradu-There are many people who are gradually dying of starvation because they can digest nothing, who would be restored to a considerably increased standard of vitality if they would only learn the proper method of using milk.—Family Doctor.

. . .

"You may as well keep smilin'
For there aint a bit o' sense
Of fidgetin' and rilin'
An' a longin' too intense;
For most things worth the gettin'
Are sure to find the place
When you're peaceful. an' a settin'
With a smile upon your face."

EGGS & BUTTER

(21)

Ship your New Laid Eggs and Fresh Dairy Butter to us.

PROMPT RETURNS EGG CASES SUPPLIED

Established 1954

The DAVIES Co. TORONTO

OLD COUNTRY DOMESTICS

Capable Scotch, English and Irish maids. Parties arriving twice a month

Apply now. The Guild, 71 Drum-mond Street, Montreal, 47 Pembroke St., Toronto, or 227 Bank St., Ottawa



-TO-MANITOBA, ALBERTA

SASKATCHEWAN The only through line LOW COLONIST RATES

For settlers travelling with livestock and Special Trains Will leave Toronto **Each TUESDAY** MARCH and APRIL

10.20 P.M.

Settlers and families without livestock Regular Trains Leaving Toronto 10.20 P.M. Daily Through Colonist and Tourist Sleapore

Colonist Cars on all Trains No charge for berths Through Trains Toronto to Winnipeg and West

Ask any C.P.R. Agent for copy of "Settlers' Guide



That's the kind you make with Maxwell's "Favorite" Churn .-Hand 8 Foot with Roller

MAXWELL & SONS





Tin makes a good roof if you Canvas makes a good roof if you

Any felt makes a good roof if you paint it.

Even paper makes a good roof you paint it.

But Amatite makes a good roof if you DON'T paint it.

if you DON'T paint it.

On a painted roof, the paint is what gives the real protection. The rest of it has a function except to provide a seam or broken surface with no seam or cracks, to which the paint can be applied. Anything which has strength enough to keep the wind from blowing it away or the rain from beating it in, will be waterproof if you use paint enough. proof if you use paint enough.

Amatite Roofing, however, needs no painting. It is a real roofing.

a roofing that can be left out in the rain without the slightest damage.

The wearing surface is mineral matter embedded into a heavy coating of pitch and never needs

We shall be glad to send you a sample of Amatite free of charge if you will send a postal request for it to our nearest office. The sample will show you what the mineral surface is like.

Everjet Elastic Paint A lustrous carbon black paint, very cheap, very durable—for protecting all kinds of metal and wood work.

The Paterson Mfg. Co., Limited

MONTREAL TORONTO WINNIPEG VANCOU St. JOHNS, N.B. HALIFAX, N.S.



Soft flours are are consequently, called pastry, and are, consequently, called pastry flour. It does not follow, however, that good pastry cannot be made from the stronger flours. It face, separiments made at Macdon-structure, Guelph, have clearly shown in the possible. More short-shown in the possible of the stronger flours. The greater gluten to get best results. The greater gluten to get best results. The greater gluten good color of expansive powers and good color of expansive powers and good color of the possible powers and good color of the possible powers and good color of the possible powers are gluten to good practice to purchase these more expensive flours and then use larger quantities of shortening in order to obtain the same results that cheep the good practice of the possible powers and the same power powers are guitable to the power of the power of

Fractically the inatter recoives itself into one of cost.

SHORT PARTHY.

I b. flow.

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The shortening may be a mixture of butter and sweet lard or sweet dripping. If the fingers are cool, the shortening may be rubbed into the flowr, otherwise, it should be cut into it with two knives until thoroughly may be should be shorted by the shortening may be rubbed into it with two knives until thoroughly in the should be flow.

Mix india the flow.

Mix india the flow.

Mix india the flow.

Turn out on a floured board, and knead only enough to make the ball amooth, when it is ready to cut into pieces for rolling out to line pie plates.

The quantity of shortening may be the great of the plates of the plates of the plates.

I be desired.

The quantity of shortening may be lessened for a plainer past.

I bl. flour library FARTY PARTY.

I bl. flour library for the library library

This requires a hot oven at first to puff it, but a cooler one to complete the baking.

PUFF PASTRY. % lb. flour.

Note that the cools water. Wash the forcold water. Wash the foot of the water and the water and the water and the water. Wash the foot into the water and kneed ough with ice water, and kneed ough the water and kneed out the water and the wa

Pastry

Recesessessessesses The Sewing Room

Patterns 16 cents each. Order by number and sise. If for children, give age; for adults, give bust mea. sure for waists, and will measure for skirts. Address all orders to the Pattern Department. give age; for give age; for give age; for walst, and give for white, Address all order for shirt. Address CHILD'S DRESS, 728.

CHILD'S DRESS, 728.

The simplest dresses are a controlled to the controlled to the



DRESS, 7326.

The simplest dresses are the prettiest for the younger children. This one is made in just two pieces with under-arm seams and shoulder seams that are closed for a portion of their length

are closed for a por-tion of their length only, the closings be-ing made beneath the shoulder strage. For the 6 year size Yards of material 7, Yards of material 7, Yards of material 7, Yards of material 7, Yards of 20 or 27 for the trimming. This pattern is cut in sizes from 4 to 8 GIRL'S NORFOLK COSTUME, 7336.



The Norfolk cos tume is a very coming one to little girls, and it is ex-ceedingly smart this season. This coat season. This season be made can be made or without a yoke that is applied over it, and the suit is adapted to all seasonable materials For the 10 year size will be required 51-2 yards of mate-51-2 yards of material 27, 43-4 yards 36, 31-2 yards 44

inches wide This pattern is cut in sizes for girls of 8, 10 and 12 years



SKIRT, 7327. The seven gored skirt is one that is always in demand. skirt is one that is always in demand.
Here is a model that takes straight lines and is of moderate and is of moderate width. It can be made in several ways as illustrated with the high waist line and tucks at the and tucks at the July high waist line and tucks at the front edges, or with out the tucks and out to the natural waist line and finished with a belt.

For the medium size will be required size will be required 534 yards of mate.

For the modium size will be required in the regular of the state of th



Semi - princesse gowns such as this one can be made from many differ ent materials and consequently, are adapted to many uses. In the illususes. In the illus-tration mohair is trimmed with plaid

For the For the medium sise will be required 91.4 yards of material 27, 5.34 yards 36, 46.5 yards 41 inches wide with 1 yard 27 for the trimming: the width of the skirt at the lower edge is 2 yards.

This pattern is cut in aises for a cut in aises for a

n sizes for 38, 40 and

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GRE (C Space part of about the lin's her as a for Notherla officially officially ances of chine, I Var Fr cow has one mon 18.25 lbs grandsir De Kol, a great is one o side. A (importe

> TIN Ottawa grown is Ontario. of Seed No. 2 (No. 3

Above f.o.b, No This e heavy vigorous Compa member ed befor Farmer money tand whitransfer

MAR Spokane, Seattle, 1 Vancouv

Victoria,

Portland Proportie

WES

The Gr est line, tween W

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

SALE DATES CLAIMED
April 4, 1912: J. W. McCormick, More-

vood, Ont., Holsteins. March 26, 1912: S. Macklin, Weston, ont., Holsteins.

March 27, 1912: C. C. Kettle, Wilson-

illo, Ont., Holsteins and Yorkshires.

May 25, 1912: Thos. Hartley, Downview.

E. F. Osler, Bronte, March 25, 1912

March 25, 1912; E. F. Osler, Bronte, Ont., Holsteins and Glydesdales. April 4, 1912; Wm. Slaght, Bealton, Ont., Holsteins. April 3 and 4, 1912; Belleville Dist. Breeders' Sale. Holsteins.

GREAT HOLSTEINS AT AUCTION (Continued from last week)
page does not permit us to say but a

(Uontsmued from last week) space does not permit us to say but a space does not permit us to say but a space does not permit us on the last space does not be superior animals in Mr. Macklin's berd. Mol De Kol. one of his cows, as a four-year-old made 20 lbs. 2 cos.; Notherland Boss made nearly 12 lbs. as not permit to the last space of space of the last space of space of the last space o

TIMOTHY SEED

Buy The Best

Ottawa Valley Seed, Capital Brand, grown in the best hay growing section in Ontario. Every bag inspected by officer of Seed Commission, Ottawa. No. 2 Govt. Standard, lb. 16c; bush. \$7.68

No. 3 " " " 15c; " \$7.20 Bags 20c extra

Above prices for five bags lots and up.
1.0 b, Navan, Ontario.
1.0 b

MARSHALL RATHWELL, NAVAN, ONT.

GRAND TRUNK RAILWAY

Low Rates PACIFIC COAST

MARCH 1 to APRIL 15

Spokane, Wash.

Nelson, B.C. Seattle, Wash. San Francisco, Cal. Vancouver, B.C. Los Andeles, Cal. Victoria, B.C. San Diego, Cal. Portland, Ore. Mexico City, Mex.

a two-year-old and is sired by Aaggle Grace Bir De Kol, son of Manor De Kol, another of the great bulls in the States. She is a good tester, going 5.7 in fat. See a good tester, going 5.7 in fat. Delta Gem, another cow, has an official record of 29.44 lbs. She has a daughter that has made over 12 lbs. in the year-ling class. She is not big, but is of excellent type. Manor De Kol's Cora Grace, another oow in this offering, has made another cow in this offering, has made something over 15 lbs. and is one of the best bred animals Mr. Macklin has. Her teats are a little short of perfection, but she has everything else to commend

While Mr. Macklin has 37 animals cate ogued, he expects by the time of the sale

The second of th

Brightest Canary's dam is Canary Mec-codes Brightest having an official record of 27.5 lbs. The four mearest dams of Mr. Macklin's etoch bull average over There will be 21 milking over all told in this sale, and when it is known that Mr. Macklin refused a cash offer of \$5,000 for his herd it can be appreciated how faith he has in the excellence of mach 25 milking and 15 milking and 15 milking and Mr. Macklin which he is offering on March 26th. March 26th.

QUEBEC HOLSTEINS FOR SALE
We take the following from a letter recently sent to Farm and Dairy by F. L.
Brown. Beith, Que. who advertises his
Holsteins for sale elsewhere in this issue:
Holsteins for sale elsewhere in this issue
to be a support of the sale of the sale of the sale
Holsteins for sale elsewhere in this issue
Holsteins for sale elsewhere in this issue
Holstein for sale elsewhere in this
Holstein for sale
Hols QUEBEC HOLSTEINS FOR SALE tand they were very common). Every one of this cross proved to be extra milkers. In 1896 I bought from McDuffy and Butters, Stanstead, Que, my first registered cow. Lize of Sunnyside (No. 1521). She proved to be a good one, and all of my registered cows in sale (except two) trace back to her

back to ber.

"In the year 1902 we bought from N.
Sangster, Ormstown, the buil Manor De
Kol Colanthus Bnd (No. 2,22h, a sen of
Manor DeKol Colanthus (No. 2,22h, who
Manor DeKol Colanthus (No. 2,22h, who
Casen: the was a sen of the colanthus colonia of the colon

and ready to make records any time

NOTES ON McCORMICK'S HOLSTEINS Some months ago mention was made in these columns of the approaching sale of pure-bred Holstein-Friesian cattle at tness columns of the approaching sale of pure-bred Holstein-Friesian cattle at Brookland Farm, Morewood, Ont. This sale is now close at hand, and Mr.McCor-mick will dispose of this fine herd on April 4th, 1912. Mr. McCormick's aim has been to build up a herd of cattle rich in butter fat, together with large milk pro-ducing qualities, and this success can be seen in the records of his animals has been doing official testing only for the past two years, and the results should the past two rears, and the results should satisfy the most sanguine. Although his cattle have done so creditably he regrets he did not begin testing sooner, for the he did not begin testing sooner, for the statement of the sooner, for the statement of the sooner, for the that with the praining like a state of that with the praining of the records could be greatly increased. In his herd two-year-old heliers have given 1,000 lbs. of milk each month for 11 months, while mature over have given around 14,000 lbs. of milk

Protraind, Gre. Mexico City, Mex.

Proportionate rates from other points in Ontario.

Ontario.

THE POPULAR BOUTE TO THE POPULAR BOUTE TO WESTERN CANADA YIA CHIOAGO THE GROWN HAVE A STANDAY THE GR





Holsteins

(23)

Clydesdales

The Lakeview Stock Farm, Bronte, Ont. WILL SELL BY PUBLIC AUCTION, ON

Monday, March 25th, 1912

Pure Bred Holstein-Frieslan Cattle and Clydesdale Mares

The sale will be held in a building specially arranged at the LAKEVIEW FARM, near BRONTE, ONT., and will offer breeders the best chance of the season to procure the best blood on the con-

If you want a grandson of PIETERJE HENGERVELD, COUNT DE KOL, out of a cow with a 24. lb. record, this is your chance to get him at your own price.

If you want to get a sound young cow with a 20 lb. record, in calf to Count Hengerveld Fayne De Kol, you will find her here. If you want a BIC, SOUND CLYDESDALE MARE, of rich breed-Ing, or a team of them, they are here to be sold.

WRITE FOR CATALOGUE AT ONCE Hamilton Radial to Trafalgar—Cars every hour. G. T. R. to Bronte (25 miles West of Toronto.) Morning Trains and Cars Met on day of Sale.

COL. D. L. PERRY Auctioneer

E. F. OSLER

Roof or repair with Preston

Safe Lock Shingles--follow the Improved Preston Specificationinsure yourself with the Free Preston Guaranty Bond--and you need fear lightning no longer, so far as the contents or the structure of your house or your barn is concerned. For here at last is the COMPLETE roof---the new Preston Shingle roof---which resists fire, wet, rust or wind, and which is, withal, SAFE against damage by lightning.

PRESTON

Safe Lock Shingles

This COMPLETE roofing---the only roof safe at ALL points--will cost you less than cedar shingles won't need paint nor repairs: and will give you treble value for the money.

There is a new edition of that encyclopedia of roofing facts called "TRUTH ABOUT ROOFING." You are entitled to a FREE copy. which we will promply forward you postpaid if you ask. The edition is limited. ASK NOW.

MANAGER

METAL SHINGLE & SIDING CO., Limited PRESTON ONTARIO

Branch Office and Factory: Montreal Que.

HOLSTEINS

FAIRVIEW FARM HERD

Too much money is spent every year for poor bulls. Why not buy a good one? Sons of Pontiac Korn-dyke, Rag Apple Korndyke, and Sir Johanna Colantha Gladi for sale: 150 Johanna Colantha Gladi for sale: 150 head in herd. Come and see them

E. H. DOLLAR, Heuvelton, N.Y.

"LES CHENAUX FARMS" VAUDREUIL, QUE.

HOLSTEINS-Winners-in the ring and t the pail. Gold Medal herd at Ottawa

air. They combine Conformation and Proand Heifer Calves from our win-Bull and Heller nors for sale. DR. L. de L. HARWOOD. D. BODEN. Prop. Man.

FOR HOLSTEIN BULL CALVES

SALE HULDILIN DULL URLYES
Bull call, born Feb. 2, whose four nearent dams average 77 lbs. of butter in 7
days. Another born May 15: dam first
days. Another born May 15: dam first
of butter in 7 days. But on the 20 lbs.
of butter in 7 days. But of on the 10 lbs.
of butter in 7 days. Also
it dam dayther of dam of number 2
calf with official record at 2 years and 13
days of 14 80 lbs. butter in 7 days. Also
David Caughell. Yarmouth Centre. Ont.

AUCTION SALE

The Lakeview Stock Parm will offer for sele at their harns near Bronte, Out., on Monday, March 26th, 1912. Pure Bred Hol-etein-Friesian Cattle and Resistered Chieffale Mres. Col. D. L. Perry of Chieffale Mres. Col. D. L. Perry of the March Col. Col. Col. Col. Col. Col. which will be held unfer cover, rain or shine.

which will be used shine. Send in your name for catalogue and arrange to attend this sale. E. F. OSLER. BRONTE, ONT.



High Testing Nisser Korndyke De Lynden Holsteing het. Dam 125.77 lbs. of butter in 7 days testing 4.75 per cent. fnt. His dister, Boutsle Poseb DeBoor. 23.03 lbs. butter 7 days testing 4.75 lbs. of butter 7 days testing 4.75 lbs. of butter 7 days testing 4.75 lbs. butter 8 days testing

DeBow. 25 05 lbs. butter 7 mays tessue.
4.56 per cent. fat. Champion 2-year-old
living in Canada.
Buy a bull to head your herd, a full
brother to the shove sire. Also a son of
brother to the shove sire. Also a son of
cont. fat. at 13 lb. dom setting 4.5 per
cont. fat. at 13 lb. dom setting 4.5 per
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cont. fat. at 10 lb. dom
cont. fat. at 11 lb. dom
cont. fat. at 12 lb. dom
cont. fat. at 1

LYNDEN, ONTARIO

Head of Pure Bred Yorkshire Swine.

Col. WELBY ALMAS, Auctioneer

Y. F. GULLEN, Clerk

from some of the best blood obtainable.

MARKET REVIEW AND FORECAST

Toronto, Monday, March 18.—Trade is air, say the dealers. Wholesalers do not

fair, say the dealers. fair, say the dealers. Wholesalers do not grow very enthusiastic, however, over pre-sent conditions. The volume of business being done compares favorably with last year, but probably a larger part of it is

year, but probably a larger part of it is being carried on credit.

The budget as introduced at Ottawa would show that our statesmen have abounding faith in the contirued pro-sperity of the country. There will be much relief in many quarters to note that no tariff tinkering will be indulged in for the present at least. Many are well in for the present at least. not be renewed pending investigations

will not be renewed pending investigations by the tariff commission. Produce markets, generally, are favor-able, with no extreme changes one way or the other. Small meats are the stronger feature

With an advancing market in the Old with an advancing market in the Old Country and steady quotations on this side of the water, the tone of the wheat market is decidedly firm. No. 1 Northern is quoted at \$1.131.2; No. 2, \$1.101.2; No. 2, \$1.06.12; Manitoba feed wheat, 76c. It is generally believed that there is not much more Ontario wheat to be marketed, Quo-more Ontario wheat to be marketed. tations are steady at 95c to 96c

COARSE GRAINS

Rye and barley are down. Other quota Bye and barley are down. Other quotations steady. Barley, maining, 36 to 56c, 17ed, 66c to 78c; oats, C.-W., No. 2, 25126; 17ed, 66c to 78c; oats, C.-W., No. 2, 25126; 17ed, 66c to 78c; 17ed, 66c to 78c; 17ed, 56c; 17ed, buckwheat, 72c to 73c

POTATOES AND BEANS

POTATOES AND BEANS
Potato prices are coming down somewhat. Not only are Irish potatoes coming in more liberally, but more local potatoes are being marketed. Wholesale deal-toes are being marketed. Wholesale deal-toes quote \$1.55 to \$1.50 on track and \$1.70 out of store; Delawares, 10e more. Irish potatices sell at \$1.60 to \$1.75 out of store. Montreal potatoes in car lots are \$1.65

EGGS

As compared with a drop of 10c last week, eggs only went down two cents this week. Deliveries were not sufficient to further d-press the market. Dealers are quoting 28 to 25c for new laid eggs, and the retail price is 30c to 33c. At Montreal dealers quote 25c to 27c.

Holsteins-

CLARENCE C. KETTLE
Wilsonville, Ont.

1899.68

S. A.

32 Yorkshire Swine

will be sold

AT PUBLIC AUCTION

At KNIGHTON LODGE STOCK FARM One Mile East of Wilsonville, Ont, (Norfolk Co.)

WEDNESDAY, March 27th At One o'clock

These are a choice lot of Cattle, and are in A.I. condition, bred

are also offering our stock bull, Starlight Schulling De Kol.

Trom some of the Dest Diodo obtainable.

The Holstein Herd includes females of families such as De Koi, Pletertje, Posch, Schulling and Wayne, of which there will be in the sale 10 females, from two to six years old, 3 heifer calves, 2 bull calves, 2 cows due by date of sale.

Lunch at noon for those coming from a distance. Telephone 330 Rural, connections with the Bell lines.

Catalogues ready by March 12th; apply for same early. All trains will be met at Vanessa Station on forenoon of date of sale. T. H. and B. trains connect with M.C.R. trains at Waterford, and G.T.R. trains at Brantford.

offering includes 18 Head of Pure Bred Holsteins and 32



Quotations remain steady. New Zealand butter practically monopolizes the v sale trade in Eastern Canada. The plete reduction of cold storage stocks plete reduction of cold storage stocks would indicate high prices for the coming season. Wholesale quotations are: Dairy prints, 36e to 36c; creamery prints, 36e to 46e; solids, 36e to 35e; inferior, 26e to 21e. Cheese are quoted at 17e to 171-4e for twins and 16 3-4e to 17e for large.

LIVE STOCK

The market is satisfactory. Prices realized a week ago to-day for choice cattle run up to 87.55, the highest prices of the year to date. Light supplies of high quality stock maintained quotations right up to Thursday, when the market dropped on large receipts. The closing fagures, however, were 10c to 15c better than those that ruled at the end of the week previous

than those that ruled at the end of the week previous. Strong advances in the Liverpool market and the prevence of United States. Monado the prevence of United States. Monado the prevence of the United States. States are strong and the prevence of United States. The Monado the Week of the Week

to 860.

Sheep and lambs are most decidedly up, due to light supplies. But-hers are paying for ewes. 85.25 to 85.75; bucks and culls, \$3 to \$4.75.

culls, \$3 to \$4.75.
Light supplies of hogs have caused a further advance. Packers now quote \$6.90 to \$7 f.o.b. country points, and \$7.25 to \$7.35 on the market.

Supplies of stock at Montreal have been in excess of requirements, and high quality and good demand have maintain-ed advanced quotations. A few of the ed advanced quotations. A few of the choice ones have sold at \$7, but the bulk of the trading was done at \$6.75 for choice steers. Good steers bring \$6.25 to \$6.50. Choice cows bring \$5.50. Here also the Choice cows bring \$5.50. Here also the market for mich cows has weekened and prices have declined \$10 to \$15 a head. Choice milkers are now quoted \$65; com. to med. \$59, and springers. \$30 to \$40. Sheep and lambs are firm and quiet, with ewes selling at \$5 to \$5.55, bucks and culls, \$4 to \$4.50, and lambs. \$6 to \$7.10. Calves are \$3 to \$12.

GOSSIP AYRSHIRE BREEDERS ORGANIZE

On Wednesday, February 21, a numb Ayrshire breeders from the counties of Elgin, Oxford and Norfolk met in Till-sonburg and organized the "Southern Counties Ayrshire Breeders Club." Owing to the severe weather conditions the attendance was smaller than anticipated, as many of the roads and railway lines as many of the roads and railway lines were blocked with snow. In spite of the fierce blizzard prevailing all day a goodly number of breeders showed that they were possessed of the hardy characteristics for which their favorite dairy breed are noted, and the meeting made up in a process of the control of in numbers

The objects of the club will be the prono objects of the club will be the promotion of a fraternal spirit among the members. advertising the merits of the breed, improvement of the type and quality of the herds of the district and cooperation in buying and selling pure bred Ayrshires.

bred Ayrshires.

The following officers were elected:
Press. John McKee, Norwich; vice-press,
E. D. Hilliker, Burgesewille: sec-trees,
J. L. Btansell, Tillsonburg: directors,
J. L. Stansell, Tillsonburg: directors,
J. L. Stansell, Tillsonburg: directors,
J. L. Btansell, Tillsonburg: C. Cohoon,
J. Sames Bergs, St. Thomas: E. Cohoon,
J. Sames Collier, H. Harris, Mt. Elgin;
J. Sames Collier, Beachville, and Wm.
J. Sames Collier, Beachville, and Wm.
Johns Collier, Department and rendered value. able service in organizing

We all like Farm and Dairy and think your special numbers are e credit to the paper.-C. Holley, Missiquoi Co., Que.

HOLSTEINS AVONDALE FARM HOLSTEINS

Arthur C. Hardy, Prop.

We offer bull caives, all ages, and all out of tested dams. One is a son of Sir Johanna Colantha Gladi, being a grand-son of Colantha Johanna Lad and Pon-tiae Korndyke, and from a 25 lb. three-year-old dam. Also HORN DORSET SHEEP and YORK SHIRE PIGS.

Address all correspondence to H. LORNE LOGAN, Manager

Brockville, Ont.

HOLSTEINS If you are wanting HOL-STEINS, any age, either sex,



CREATEST VIEW HOLSTEIN HERD Offers build from 7 to 11 mos. old sired by Karl Joseph. son of Karl Bos, whose dam and grand dam have the largest of dam and grand dam have the largest dam and grand dam have the largest certain authenticated records ever made even-uddered. high-der dams are large ven-uddered. high-der with ARCHIBALD PARKS. NAPANEE OVY

AUCTIONEER My lifetime has been devoted to Breading liolateina and selling Dairy Cattle. Has sold sales from the Atlantic to the Pacific My cynopiene to me you.—ROBERT E

HOLSTEIN BULLS

WOLSTEIN BULLS

Bired by Prince Henerveld Pieterie,
whose dam has a record of 33.58 lbs. butter in 7 days and is the highest record
in 15 days and is the highest record
in 15 days and is the highest record
in 15 days and is the 16 days and
in 15 days days and in 15 days and
in 15 days days and in 15 days days
in 15 days days days days days days
from dams having records over 20 lbs.
each at years old. We are also offering
pring. Blown Roba, LYN, ONT.

BOWN Roba, LYN, ONT.

RIVERVIEW HERD

Offers bull calves from 2 to 10 mos. old SIRED BY KING ISEBSLLE WALKEI, whose 5 nearest dams and sister average 50.18 LBS. BUTTER IN 7 DATS and 115.27 bs. in 30 days from dams of likewise breading. at exceptionally low figures, to P. J. SALLEY, LACHINE RAPIDS, QUE.

WOODLAND A son of Netherland No. 18 of No. 18

N.B. Having sold all my yearling bulls, I am now going to offer the young son of Disone's 2nd Dam of Lulu Keyes. He is 3 weeks old, light in color, straight and well formed. Price \$125.

E. B. MALLORY FRANKFORD ONTARIO

LIVE STOCK AUCTIONEERS.—The Suc cess of your sale depends largely on the man who handles it. Terms reasonable F. H. MCCULLOUGH & SONS, Navan, Ont

SUNNYSIDE FARM HOLSTEINS

For Sale—Bull Calves from 1 to 9 months old, all from high producers. Dam of one of these won first in aged cow class and second in dairy test at Sherbrooke Fair. The others are equally as good.

The others are equally as good.

Also a few choice heifer caives and one
yearling, bred to Schulling De Barring
ton, a Sycarold bill, the barring
three first prizes at Sherbrooke Pair. This
great bull is also for sale. Two cost,
three and five vears old, some of the
Calamity strain, also a few choice high
grade yearling and two 3-year-old heifers.

Write or come and see them. Prices right. GUY H. MONTLE. ROCK ISLAND, QUE.

March AY AVRSHIR

r sale—E Hon. W. OW River Side I

CITY R. O. P. for sale; on of 1911 bul Write or ph JAMES BEG

Burns Winners 1 ests. Anim . Canadian Long dista R. R. NESS F

World's Cl oduction. lves, all f andson of a lot. Ad WOODDISSE R SUNN

Imported choicest bre been select young bulk "Nether H as well as a for sale. W. L. W. L. (Phone in

AYR Three bull are bred f First Prize testing, 4.2 t show 22 firs Fall fairs o 1 O'CONNO

AYRSHII YORKSH different ag Calves. Jan sexes on ha Write or ALEX HUM

LAKE We have of different ported bull from dama record of for the with these at at LAKESIDE

ADVER

THE SPRING Contain mo butter prod America. A record brea able prices.

1 miles so

AYE

Two Aprison of Annibs. milk a old), by the Boottie."
of P., 15,134 Other bu 3rd of Ne milk and 45 the celebr Kiretys.
Phone.

AYRSHIRES

AVRSHIRES AND YORKSHIRES For sale—High class Ayrshires, all ages, including Calves and Bulls fit for service. Firt prize Yorkshire pigs, all ages. Send in your orders now for pigs to be shipped in March, April and May; price, 85 each, Eggistered in name of purchaser. Apply to Hon. W. OWENS, or to ROBERT SINTON

giver Side Farm - MONTEBELLO, Que

CITY VIEW AYRSHIRES. R. O. P. cows and two-yearoid beifer for sale; one yearling ball and a fine lot of 1911 bull caives. Prices reasonable write or phone.

JAMES BEGG. R. R. No. 1, St. Thomas.

Burnside Ayrshires Winners in the show ring and dairy tests. Animals of both sexes. Imported

Canadian bred, for sale. Long distance phone in house.

R. R. NESS. HOWICK, QUE.

Ayrshires

World's Champion herd for milk and goduction. Some young bulls and bul-alves, all from E.O.P. cows for sale. A randson of Primrose of Tanglewyld in he lot. Address WOODDISSE BROS., Tanglewyld Parm ROTHSAY, ONTARIO

SUNNYSIDE AYRSHIRES. .

SUNNYSIDE AYRSHIRES. Imported and home bred, are of the choicest breeding of good type and have been selected for production. Indicate the choicest breeding of good type and have been selected for ground the choicest breeding the choicest breeding the choicest breeding to the choicest breeding the choicest breeding to the choicest breeding the choices

(Phone in house.)

AYRSHIRES ALL

Three bulls, one rising two years. These are bred from deep milking stock and first Prize Winners. Good teats and high testing, 4.2 to 6.2. For reference I have to show 22 first prizes won at three of the Fall fairs of the surrounding counties. CAMPBELLFORD, ONT. 1 O'CONNOR.

AYRSHIRES Young Bulls and heif ers of good type and breeding not akin YORKSHIRES Clows and Helicar of different ages. Orders booked for Spring Caives. Jan. and Feb., 1912, pigs of both sexes on hand.
Write or "phone for prices.

ALEX HUME & CO., MENIE, ONT. Hoard's Station, G.T.R.

LAKESIDE AYRSHIRES

We have a number of fine young bulls of different ages, all sired by our im-ported bull and the majority of them from dama entered or qualified for the record of performanc. To make room for the winter we are prepared to offer these at attractive prices.

LAKESIDE FARM, PHILIPSBURG, QUE GEO. H. MONTGOMERY, Prop. 164 St James St., Montreal

ADVERTISE in these popular col-umns, which others oosts you only 85 cents an inch.

THE SPRINGBANK HERD OF AYRSHIRES Contain more World's Champion milk and butter producers than any other herd in America. A few choice buil calves from record breaking dams for sale at reason-able prices. Address

A. S. TURNER & SON, Ryckman's Corners, Ont

AYRSHIRE BULLS

TA RESTREE DULLD

To April. 1811, beile-one, a very choice on of Annie Leurie 3rd (R. of P. 7, 788 april. 1811, beile-wide, a very choice on of Annie Leurie 3rd (R. of P. 7, 788 april. 1812, and not to the Hamilton contest." (I. dam, Annie Leurie 181d CB.

Cher bull-a beautiful son of Kirsty of Neidpault (R. of P. 1, 1869 lbe.

Ilk and 683 lbe. butter). (I. dam one of the collected Adhebenbrain Imported to Collected Adhebenbrain Imp

CARLYLE'S SALE OF AYRSHIRES Satisfactory prices were realized at the dispersion sale of W. J. Carlyle's Ayr-shires on March 15th. The cow Buttercup. shires on March 15th. The cow Buttercup, bought by P. D. MacArthur, brought \$500, the highest price realized. The same buyer paid \$255 for another cow, Rena. The 12 cows sold for an average price of \$145.12; three two-year-old heilers, \$111.50; four yearling heifers, \$50, and three yearling bulls, \$25.20.

bulls, \$82.50. Several hundred people attended the sale. Among the buyers were: P. D. Mc-Arthur, N. Georgetown, Que. E. B. Palmer and Son, Norwich, Ont.; J. Logan, Howick, Que.; P. Bense, Calgary; Gillespie Bros., Ventnor, Ont. E. Montgomery; L. Alguire, Bersick Ont.; A. Beckstead, Galuire, Bersick Ont.; A. Beckstead, and W. Longopridge and Mr. Myers, of Morewood, Out.

NOTES ON MCCORMICE'S HOLSTEINS

(Continued from page 23)
pose of any animals before the day of
sale. Individuals have written him desirous of entering stock in his sale, but Mr.
McCormick wishes us to state emphatical. McCormick wishes us to state emphatically that under no circumstances will he sell privately or include in his offering stock contributed by outside parties. He wishes it plainly understood that he is a breeder of Holsteins, not a dealer.

Mr. McCormick had planned a pleasure

trip through Western Canada after dis-posing of his stock. This has developed into a trip of a purely business character, into a trip of a purely business character, as he has arranged to enter another sphere of labor. His farm, which is one of the most productive in Eastern Canada, has always been heavily stocked. The farm consists of 190 acres. Parties on the look-out for a good farm can have a chance of this one. The catalogues of sale will be ready about the 20th inst., and can he secured on annilication. Wytch these be secured on application. Watch these columns for further particulars. See ad. in another column

GEO. W. ANDERSON'S CONSIGNMENT A unique offering in the Belleville breeders Holstein sale is a young herd of 19 females and six males owned by Geo. W.

a mayer orients in the neutralia ordered and a constraint of the c

cd.

There are three heifers in the three-year-class, one of which sired by Vellstra Triumph, produced at two pears, 13.3 bis. butter in 7 days, and made 'this two months after calving; of the other two, one is of the Count Echo strain, due to freshen the day of the sale. The other is a grand-daughter of Petertie Remerred Count E Kol. Both are in oalt to 'beltar

(Continued next week)

In Farm and Dairy of March 7th appeared an illustration of a Holstein cow, Hasel Maiden Mercedes De Kol, with a record of 467 lbs. of milk and 20.72 lbs. of butter in seven days as a three pear old. This cow belongs to Mr. P. J. Salley, Lachine Rapids, Que., and not to the Hamilton Asylum Farm, as was there announced.

BREEDER'S DIRECTORY

Cards under this head inserted at the rate of \$4.00 a line per year. No card accepted under two lines nor for less than six months, or 2 insertions during twelve months.

HAMPSHIRE P105—Canadian Champion | FOR TAMWORTH SWINE—Wits John W. herd. Boar herd headers. Sows, three months and under.—Hastings Bros.. | CLYDESDALES, Imp. Stallions and File | Imp. Stallions and File | Imp. Stallions and File | Imp. Stallions | Imp. Stallion

HOLSTEINS—Young stock, for eale. Sired by Imperial Pauline Dekol, whose 15 nearest dams average 25.20 lbs. butter in 7 days.—k. W. Walker, Utica, Ont.

HOLSTEINS AND TAMWORTHS-All ages,

also S.O.W. Leghorns. Young stock for sale at any time.—J. McKenzie, Willow dale. Ontario.

(25)

Tödd, Corinth, Ott., R.F.D. Ro. 1.

CIVDESDALES, Imp. Stallions and Filline. Fresh Importations always on
the property of the Corintal Corintal Corintal
J. S.J. Sample, Milwerton, Ott., and
Luverne, Minn., U.S.A.

CIVDESDALES—Home of Aome. (Imp.)
CIVDESDALES—Home of Aome. (Imp.)
CIVDESDALES—Home of Aome.
CIPDESDALES—HOME
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MISCELLANEOUS



CLYDE STALLION Registered, out of Dam by Matchiess McQueen Rising 5 years old, nicely proportioned,

MERTON LODGE

is now offering registered Tamworths of the choicest breeding and type. Young sows bred to farrow in April; boars ready for service and young pigs of all ages, either sex.

LAKESIDE DAIRY AND STOCK FARM

Present offering, Bull Calves from Record of Performance dams: also a few females.

W. F. BELL, BRITTANNIA BAY, ONT. Ottawa Bell Phone.

BULL CALF from dam closely related to May Echo, Holstein Champion Cow of Canada, and from Hillcrest Butterboy. Will ex-2 Bulls, ready for service. Priced right for Quick Sale. Write:

S. ARMSTRONG, JERMYN P. O., Peterborough Co., Ont.

Auction Sale Notice

I will sell 29 RECORD OF MERIT
COWS. (Some of these have qualified in both tests.) I will also sell about
20 helfers from my old prize winning
stock bull, at my Dispersion anction.
SALE DAY: THURSDAY, MAY 2RD.
Fall particulars later. Wasch Farm and

Full particulars later. Watch Farm and Dairy for Notes.
THOS. HARTLEY DOWNSVIEW, ONT.

- SETTES SYNOPSIS OF CANADIAN NORTH-WEST LAND REGULATIONS

Registered, cut of Dam by Matchies McQueen Hising 5 years old, nicely proportioned making 5 years old, nicely proportioned makes the proportioned makes and the proportioned makes and

Deputy of the Minister of the Interior.
N. B.—Unauthorized publication of this
divertisement will not be paid for



Lump Rock Salt, \$8.00 for ton lots, f.o.b, T Torento Salt Works, 128 Adelaide St. E. G J. CLIFF. Manager

H. F. BULL FOR SALE

Grandson of Pontiac Koradyke and Hen-gerveld De Kol. Eleven months old. Mostly white, strong, active and well developed. Now

fit for service.
A. A. FAREWELL, OSHAWA, ONT.

STOCK MARKS. Metal ear tags for cattle, sheep and hogs. A splendid safeguard against bother and loss. Sample and circular free, write for them. F.G. James, Bowmanville, Ont.

OURVILLA HOLSTEIN HERD

Present Offering-Bull Calves, five months old, and younger, from our great bull, Dutchland Colantha younger, from Sir Abbekerk.

EDMUND LAIDLAW & SONS Elgin County, Aylmer West, Out.



FREE-FARM ACCOUNT BOOK

to charge against crop pencil. No 64 pages, for ink or pencil. No with BICK MORE'S GALL CURE

WINGATE CHEMICAL CO., Canadian Distr's. 840 Notre Dame St. W., Montreal, Can.

(26): _

March

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Pure Bred Holsteins



Will Be Sold Without Reserve BY PUBLIC AUCTION

THURSDAY, APRIL 4, 1912

By the MAPLE STOCK FARM

At their BARNS, BEALTON, Ont. (Norfolk County)

Offering includes 34 heifers and cows, either fresh or in calf. ese are nearly all two and three year olds, and are an exceptionally fine lot

Six-young bulls, nearly all from Record of Merit dams, and sired by COUNT MERCENA FAFORIT, Grand Champion at London in 1999.

The dam of this bull and sire's dam averaged 25 pounds of butter a week

butter a week.

These cattle I am offering have reputations for being heavy producers; a large number of them, both cows and heifers, are

It will pay you to take this opportunity of getting a good voune con

ALL OF THESE CATTLE WILL BE SOLD ON DAY OF SALE WITHOUT RESERVE. All official testing in connection with each of the cows will

catalogues will be ready, March 25th, Send to-day for your

TERMS.—Sums of \$50 and under, cash. Over this amount six months' credit on approved joint notes; 3 per cent. off for

Cash.
All trains will be met at Waterford, and Mail Train at Villa
Nova in the forenoon of day of sale.

LUNCH AT NOON for those coming from a distance. SALE AT ONE O'CLOCK SHARP. SALE HELD UNDER COVER.

Col. WELBY ALMAS Auctioneer, Brantford

WM. SLAGHT, Prop. Bealton, Ontario

Holsteins-

Great Dispersion Sale

Thursday, April 4, 1912

I will offer at Public Auction my entire herd, consisting of sixty-five head of richly bred, registered Holstein-Friesian

I have carefully studied the advantages derived from breeding from high testing and large milk-producing strains, and can now offer to the public a choice lot of animals.

Parties desiring choice individuals to swell their herds or anyone anxious to obtain good foundation stock should attend this sale.

Apply for Catalogues early and as soon as ready a copy will be mailed to you.

For further particulars apply to:

J. W. McCORMICK -

BROOKLAND FARM MOREWOOD - ONT.

PRINCE EDWARD ISLAND

KINGS CO. P.E.I.

KINGS CO., P.E.I.
CARDIGAN, March 6.-We are having
fine winter weather. Stock is wintering
well. The seed Pair held in Georgetown
on March ist was a decided success, being largely attended. There was a fine
showing of all kinds of grain and notatoes on exhibit. There was a poultry
show held in connection with the Seed
Pair.—H.P.

NOVA SCOTIA

COLCHESTER CO., N.S.

COLCHESTER CO. N.S.

TRURO, March 14. -The markets are fairly at unpiled with local beef of only for fairly at unpiled with local beef of only for fairly at the second of the province the line and posteron art of the province the line and their way to Cape literion from the find the line and line a increase it, the bumper way grouped of increase it, the bumper of the bumper of the continuous and drops, and the 2,000,000 barrel mark. The winter has been an unnusually good one for the lumbermen, while the anowfall up to a week been continuous to the shedding was steady and continuous the continuous and the prevailed since the first alcohold for the mountains where, owing to the usual excessive anowfall that always the operations, this winter they have been corrections, this winter they have been continuous more and better work with just compound the continuous continuous and the continuous and with just continuous more and better work with just consumer and the state of the continuous and the co

OUFBEC

GRENVILLE CO., ONT.

GRINVILLE CO, ONT.
CHANLERFULLE, March 1.—Our cheese
factory is still separating and shipping
cream, but had an offer for butter
of 55c a lb. wholesad an offer for butter
of 55c a lb. wholesad on accept. Some
are still making cheese a accept. Some
are still making cheese and chee
are still making cheese mill convince. Shipping cream, 82.45 a ton of milk; cheese,
\$27.16. Quite a difference. A few factories will start making cheese next week,
as the milk supply will increase.—T.
W. O.

NEW HAMBURG, March 2.—A very successful short judging course was held in New Hamburg on Tuseday and Wednesday, Feb. 57th and 28th. The final season of the State of the State

OUR FARMERS' CLUB structure of the class in seeds and very ably structed the farmers present on me of seeds of of seeds at the evening meeting it. Levi Master page of the common meeting meeting it. Levi Master page of the common meeting meeting it. Levi Master page of the common meeting meeting it. Levi Master page of the common meeting meeting it. Levi Master page of the common meeting meeting it. Levi Master page of the common meeting meeting it. Levi Master page of the common meeting meeting it. Levi Master page of the common meeting meeting it. Levi Master page of the common meeting meetin

ELGIN CO., ONT.

WEST LORNE, March 14.—A very chundrate meeting of about 59 farmers of the townships of Aldborough and Durith and the second of t

HURON CO., ONT.

HURON CO., ONT.

BLYTH, March II.—Quite a number are preparing for syrup making. A large preparing for syrup making. A large preparing for syrup making. A large preparing for syrup making. The peter prepared sections, although some complainment as a complainment of a preparing made of aborture. The Better Farming Special went through this district less week and attracted much attention, the care being crowded with sightseers and care being crowded with sightseers and care being crowded with sightseers and the care being crowded with sightseers and the sight sightseer and the sight sight

want the factory sware to accept. Some are still making shore to see the stocking of the state o

RUSSELL'S SECOND ANNUAL SALE MAY 30, 1912

Every Animal is Guaranteed Without a Blemish 100 Head of Officially Tested Cows or daughters of offically tested cows will be sold. No Males.

If you do not find something in the sale, you will have another hundred or more to choose from. Every animal on the farm for sale.

T. H. Russell, Geneva, Ohio, U. S. A.

This is not a Consignment Sale but every animal is owned by me

Farming

has become a specialized business

It's no longer a "hit-or-miss" occupation, where "any old way" is good enough. Farmers are buying pianos and automobiles as never before. They're *living* as well as *working*.

The farmer has learned that it pays to employ progressive methods. That's why he is ever ready to receive helpful suggestions for improving his crops, his land and his home. It's also the reason that more than fifty thousand Canadian farmers are enthusiastic about our handsome book

"What the Farmer Can Do With Concrete"

It isn't a catalogue, nor an argument for you to buy something. It is clearly-written, interesting, profusely illustrated. It describes the various uses to which concrete can be put on the farm. Not theories, but facts, based on the actual experience of farmers all over the continent. It is the most complete book on the subject ever published, fulfilling the

purpose behind it, which is to help the farmer take advantage of concrete's possibilities. The list of subjects covers every conceivable use for concrete on the farm. The book's actual value to you will far exceed the list price of fifty cents, but if you will send us your name and address at once we'll be glad to

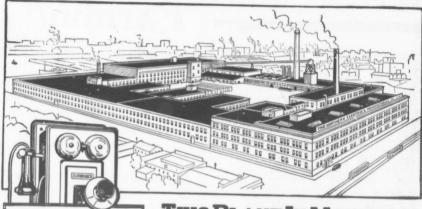
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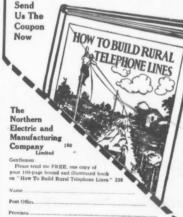
National Bank Building, Montreal





This is the make of instrument that is on the wall of nine out of every ten telephone users in Canada.





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HIS is the immense Canadian factory where Northern Electric Rural Telephones are made-in fact, where ninety per cent. of the telephones used in Canada come from. Our big organization, with its branches extending straight across Canada, is ready to help you in every detail of the formation and construction of a rural telephone line in your own community. Not only will we help you with your company-organization, line-construction, instrument-installation, etc., but our men are ready to give you much personal help out of their own telephone experience. With the help we offer, you can easily interest your friends and neighbors and operate your own self-maintaining telephone system.

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and give you all the detailed information you need. When you have real "How To Build Rural Telephone Lines," you will have at your finger ends a mass of information that will enable you to give your friends, positive, definite facts, and make everyone around you anxious to help. All it needs to get a telephone system going is for some one progressive man to start the movement. You be that man. Send us the coupon.



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