

VOL. XXIX.

NUMBER 11.

# RURALHOME

PETERBORO, ONT.

MARCH 17, V 1910.



THE FIRST HARVEST OF THE YEAR IS IN FULL SWING ON MANY CANADIAN FARMS A noteworthy feature of the maple syrup industry of to-day is the modern equipment that is rapidly displacing antiquated methods of handling the sap. Farmers, even those with small maple orchards, who a few years ago strongly contended that the old way was good enough, and that the expense of installing modern equipment would not be warranted, have changed their yiews. Each year sees a larger number of sugar camps fitted out with evaporators, improved spiles, buckets, and other parable and the host third shout it all it.

proved spiles, buckets, and other paraphernalia, and the best thing about it all is that it pays. Photo taken in Mr. L. C. McConnell's sugar bush, Elgin Co., Ont.

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BEATTY BROS., FERGUS

### The Labor Problem

Editor, Farm and Dairy:—Your correspondent of March 3rd, "A subscriber from Elgin Co," appears to me to look at a young man's life from a wrong point of view. He measures it as if hours of pleasure were to be the object of his life, instead of days to improvement and a satisfaction of the second of the second

faction in work well done.

No young man, whether in the city
or on the farm, wiii make a success
of life unless he carns more than he
is paid. The man who is looking at
his watch for the hour of leisure to arcive, or considers himself only as a
machine to be rated by the number of
hours he puts in is not the one who machine to be rated by the number of hours he puts in, is not the one who gets "moved up," in any office, in tact he is generally the first to be "moved out." His heart is not in his employer's work, he has no staying powers, he is not looking torward and upward. Such, however is not the view point of most of the young men alongside of whom I have worked, nor with whom I have come in contact.

CONDITIONS MISREPRESENTED

In making comparisons of pay on the farm, and in the town it was scarthe farm, and in the town it was scar-cely fair to misropresent the condi-tions. He says: "all they can get from the farmer is \$15 to \$25 a month for eight months, or from \$150 to \$225 a year" and "in the city from \$30 to \$100 a month or from \$500 to \$1,500 a year." A little arithmetic would above that the farm earning is under show that the farm earning is under gerated, but the city pay grossly exag-gerated, but the would appear to have been so put the sould spear to have

been so put as to catch the uncalcu-lating reader.

The lad who gets \$15 a month on the farm is not a farmer, but only in farmer in the making. The man who gets \$1,000 a year in a city office has gained his position by many years of one of a bility, and with equal probably have wood most probably have ween for himself and have become his a mem for himself.

and have become his own master.

But the wages stated in the country include board and lodging and leave four months more in which to work, while those stated in the city are for while those stated in the city are for a full year and from them must be deducted the cost of board and lodging, from \$12 to \$20 and more a month, for the city man cannot live on air. Ask any one who has tried both places and he will tell you how much more the one nets out than the other. If amusements, theatres and side-

If amusements, theatres and side-walks are the aim of life, then there is nothing more to be said. The young man is not fit to be a farmer, nor a master, but only a "pay by the hour."

THE PARM OF TO-DAY

But farming is not now, as it used to be, merely being able to drive a team or plod after a plow. It is to apply intelligence to the methods of working, to study the fields and crops, working, to study the fields and crops, to raise more from one acre than many do from two, from one cow than many men do from three. It has passed from being a manual labor to becoming an art and a profession. The young man, Mr. Northcott of your issue Feb. 17th, has proved this. It was a could be a supported that the provided of the provided and the provided a

are millions of farm moneys on de-posit, and being used by other men in their mercantile or other Lusi-

ness projects.

To take the money out of the business of their farm and lend it to others at three and one-half per cent. a year, instead of putting it back in improving their own business—care of dairy, or orchard which would pay bester, or by draining their own acres where 100 per cent. can be made in three years

If farmers would do these things, pay their sons an allowance regularly in cash, as well as boarding them, send them to take Short Courses at the Agricultural College, then the sons

would remain on the farm, there would be more intelligence in cultivation and the Ontario farms would soon double

the Ontario larms would soon the their output.

The Canadian boy is looking for bet-ter employment on the farm, not, as Subscriber thinks, for amusement in the town. The remedy is more agri-cultural education.—"Countryman," Durham Co., Ont.

### Bill to Regulate Automobiles

Sympathetic support from both sides of the house was accorded a measure, of the house was accorded a measure, aiming at materially restricting the conduct of automobiles and curbing the tendency to reckless driving, which was before the Ontario Legislature last week, when it received its second reading and passed on to committee. My Valentine Stock, (Porth) was sponsor for the bill.

The bill provides that every person having control or charge of any motor vehicle on any public highway shall at all times manage such vehicle so as to prevent the frightening of horses and to insure the safety of any person riding or driving. Outside the person riding or driving. Outside the limits of a city or town the driver of the motor shall, if going in the same direction as the horse vehicle, signal his desire to pass, and shall give the driver of such vehicle an opportunity to turn out so that he may be passed in safety. The clause states that where one of the safety of the clause states that where within 100 yrd. The clause states that where of a woman or of child nose in charge within 100 yrd. The clause states that where of a woman or of child nose in charge of a woman or of child nose in charge mediately stop his motor. mediately stop his motor.

DRIVERS MUST GO SLOWLY

Whenever a motor vehicle is passing a horse, whether the latter is standing or moving, the motor must

### Finds It Most Satisfactory

I am glad to be able to in-form you that my advertise-ment in Farm and Dairy brings me many answers, and I find it most satisfactory.—E. S. Osler, Lakeview Farm, Bronte, Ont.

not proceed faster than five miles an hour. If the horse becomes frightened the driver of the motor vehicle, hall at once stop his car and keep it supped until the borse has passed. In cases where the horse is standing or moving in the same direction as the motor the driver of the latter shall stop his motor until ample provision has been made to avoid accident or damage or until directed by the driver of the horse to proceed. The driver of the horse to proceed. The driver of the motor shall render all necess

damage or until directed by the driver of the horse to preced or the driver of the motor shall render an extension of the motor shall render and all reasonable assistance requested by the person in charge of the horse. A clause of the bill provides that no light shall be used which is stronger than 32 candle power, and any lantern or lamp made of brass or other bright metal upon any motor vehicle shall during the day time be completely covered by some dark material to prevent glare. vent glare

HEAVY PENALTIES PROVIDED

to ir

HEWY PENALTIES PROVIDED
Another clause makes the penalty for violation upon conviction \$50 as one month's imprisonment or total and for the second offence or any sufficient of the second of the second offence or any sufficient of the second of th before a Police Magistrate the date and particulars of conviction must be stamped or written upon the back and the license must be produced whenever called for by the authorities. If a second offence be committed with-in 12 months from the first offence, the Magistrate must cancel the license

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FOR WEEK ENDING MARCH 17, 1910.

No. 11

### The Evolution of Sugar Making

L. C. McConnell, Elgin Co., Ont.

ANY years ago when the writer of this article was a small boy on the old homestead
on the lake abore of Elgin County, Onk,
he began to help in the making of maple sugar—
the real article. This product can only be appreciated to the full by following it through all the
details of manufacture from the time it leaves the
tree until it reaches the consumer.

The first season that I took an active part in the sugar bush my father tapped the trees with the axe. He made a gash alout four inches across by about an inch in width in each tree, the bottom stroke of the axe being slanted downward so as to cause the sap to flow to the lower end of the cut. At this point an insertion was made with an iron gouge that would accommodate in its place a wooden spile concaved so as to conduct the sap to the lower end where it was delivered into a wooden trough. This trough was about two feet long and was made by splitting a

log (usually basswood), about one foot in diameter and digging out the inside to the desired capacity.

The sap was gathered into pails and carried on yokes by the men to the boiling place where it was emptied into kettles. These kettles were hung by various devices to a long pole braced up against two convenient trees. A large log on either side of the row of kettles helped to conserve the heat. Here the sap was boiled, exposed to all the things, such as bugs, ashes, cinders and smoke, that were very apt to get irte it. Is it any wonder that we hear some people say that they can't get maple syrup to-day with the same flavor it used to have? I should

hope not!
PERIODS OF TRANSITION

I just had one year of such experience, then we took a step forward, buy-

ing wooden pails, tapping with an auger, about a three-quarter inch hole, and using a spile made of sheet iron which was driven into the bark of the tree. The next forward move was to get a gathering tank placed on a sleigh. After this came the arch made out of brick laid up in clay mortar arc a boiler made from two-inch planks, 10 inches wide, with sheet iron nailed on the bottom edges. This equipment brought about a great improvement in the quality of the product and we made some really good sugar and syrup. (I may digress just here to state that at this time the market was almost entirely confined to sugar and that the product could be disposed of only in ex-

change for groceries. We used to exchange one pound of maple syrup for two of yellow sugar).

Other changes might be mentioned, did space permit. I am now starting on my third year with a Champion Evaporator. This equipment is far ahead of anything else I have ever seen for this work. There is just one other system that under proper conditions, might be superior, and I have never seen it tried, viz., boiling by steam heat. It seems to me this latter should make beautiful goods. However the Champion is within the reach of any man who has a bush of any size from 100 trees up.

The time has come when every man who has a maple bush should take as good care of it, as he would of his orchard of Baldwins and Spys. I am tapping 600 trees and am covering not more than 15 or 17 acres of land; in a few years if given proper care the suitable trees on this area will increase to 1,000.

DOES IT PAY?

Some will ask, does it pay? This might be an-

years after you could hardly tell where the tree had been tapped; in fact, I saw a tree yesterday that the hole bored last year had almost completely grown over. I trust that my experience as stated may lead someone to give a little more thought to the care of his maple orchard and that Farm and Dairy may have every success.

### The Maple Industry Up-to-date

A. Waller, Chateauguay Co., Que.

Sugar making with the up-to-date utensils now in vogue, has lost much of the slavishness of former days. So much progress has been made of late years both as regards the color and quality of syrup and sugar, that those who would make a profit out of the business have discarded the old pans and heaters and have installed evaporators, large or small, according to their needs.

In sugar making as in all other kinds of work on the farm where help is scarce and hard to get it is to the advantage of everyone to use whatever labor saving machinery may be available for the

purpose. Even when the tush is small such equipment has proved to be the best and most profitable. In this section of Quebec where the industry is largely carried on one might travel for miles and not find any of the oldtime methods employed.

FOR THE SMALL BUSH

Five years ago when we decided to do away with the old pars and heater we were only able to tap about 500 trees. bought a 3 ft. x 12 ft. Champion Evaporator. Last year we were able to tap 900 or 1,000 trees and exchanged it for one 5 ft. x 16 ft. Such a practice I would not have one think to be always the best plan. Those whose trees have reached their full growth would do best to buy an evaporator that would meet the present and future need.

Some claim that a 3 ft. x 12 ft. evaporator is

large enough to boil the sap from 900 or 1,000 trees, and of course you can do it, but the quicker the sap is gathered and boiled after it has run from the trees the better the quality of the syrup and that is what counts in these days of keen competition. A larger evaporator also requires less storage room for sap, less time, and less wood when all things are considered.

Many contend that because they have only 400 or 500 trees it would not pay them to invest in an evaporator. From my experience I know that it does pay when rightly handled and a thing is better left undone than not done properly.

It is a good idea to have everything in readiness before the season commences so that no time may



The First Harvest of the Season in full swing on an Ontario Farm

No one would expect to make a fortune out of maple syrup manufacture, but where the sugar maple trees are available it can be made a most profitable branch of the farm. The evaporator and a shanty are now recognized as being essential. Evaporators are made in various sizes and are thus adapted bandle the sap from few or many trees. Photo taken on Mr. L. C. McConnell's farm. Elgin Co., Ont. Mr. McConell, the writer of one of the articles adjoining, may be seen nearest the shanty doorway.

swered in various ways. I don't expect to get rich at the Lusiness, but it comes at a season when, for the most of the time at least, the average farmer is not very busy. The annual product of a sugar bush will run from one to two and sometimes three quarts to the tree, the higher yield being when a tree is tapped in more than one place which practice I very frequently follow. Then the market for goods that are absolutely pure maple is practically unlimited at from \$1.25 to \$1.50 a gallon and the more customers get of this class of goods, the more they want the next year.

By using the Grimm spouts the injury to the tree is reduced to a minimum. In two or three be lost. The first runs of sap are always the best and it does not pay to lose any by carelessness. Have your evaporator and storage tanks in place, your spouls and buckets ready so that you may be able to tap for the first runs.

TIME TO TAP

No hard and fast rule can be laid down for the proper time to tap; a good deal has to be left to one's own judgment. When speaking on the subject a gentleman once remarked that the proper time to tap was when sugar weather arrived, but we often have days about the 15th or 18th of March that much resemble sugar weather but are only the forerunner of a storm. There is nothing made by tapping at such a time, as after a certain time the holes bored are apt to dry and blacken causing a decrease in the flow of sap. It is claimed that the new galvanized spouts prevent this and so increase the flow of sap at least a third more than the old iron spouts. That it does increase the flow of sap has been proven beyond a doubt. There are so many kinds of spouts that are really good that much has to be left to individual preference in the selection.

We do not consider it advisable to use a bucket larger than 10 quarts, as buckets should be empticed frequently. The buckets should be made nearly straight so as to hold so has been remarked, "the full of it." It is at the have a market where sugar or syrup can be shipped while fresh so as to bring the highest price. To this end an attempt has been made to form a sugar makers' association. It would at least serve a two fold purpose, that of providing a market and also in a measure preventing adulteration, which is so detrimental to the best interests of sugar making.

### Spring Care of the Spring Calving Cow

J. H. Grisdale, Agriculturist, C.E.F., Ottawa

The great majority of cows in the cheese making districts of Eastern Ontario and Western Quebec, calve in the months of April and May. The good farmer usually makes some effort to get his cows in passable condition. Too many of our farmers are satisfied to let the cow get through the winter as best she can, or at most try to improve matters by giving the cow some little extra feed in March and April, after having let her gradually lose flesh all the rest of the housing season.

This neglect or indifference to the well-being of the cow in the spring is one of the weakest points in our dairy farming system in Canada. Badly wintered cows start out giving poor yields of milk and can never be expected to give anything like the generous flow that might have been expected had they been fed suitable rations during the whole winter through and more particularly during the spring months before and immediately after calving till the grass is plentiful and of good quality. Such as have not fed well up to the present stage of the game, cannot, of course, make up entirely for past delinquencies. They can, however, by judicious and generous feeding from now on do much to atone for past faults and to ensure a much more than usually successful season in 1910. From now on, the cow coming to the calving in April or May should receive excellent care, an abundant and nutritious ration and every kindly consideration possible.

As to care, I would suggest grooming every day or two and letting out only when ground or yard is not so icy as to endanger her falling. By an alundant and nutritious ration, I would understand good ensilage and roots, if available, chaff or cut straw, mixed therewith, say one pound thereof to each five or six pounds of ensilage, three or four pounds long hay and a couple of pounds meal, say equal parts bran and oats and oil cake meal or gluten meal. The dry cow should be putting on flesh. There need be no fear of milk fever, even with the best of cows, provided always proper, precautions are taken at the calving time.

Very few cows are good enough to make any danger from good feeding at all probable in that direction.

Every cow coming to the calving in good flesh and contented with her lot as a dairy cow is sure to do anywhere from 10 to 50 per cent. better than usual. Let us take advantage of this fact for the increased returns are sure to pay many times over for the slightly increased cost of feeding.

#### Bees from Cellar to Stands

J. Storer, Victoria Co., Ont.

After having kept their bees for nearly five months confinement in a dark cellar most beekeepers are anxious to see them on their summer stand. My experience has been that if the hives are clean and dry and the bees fairly quiet it is better to leave them where they are until there is some sign of growth in vegetation. When the soft maples begin to bloom is a good time to remove bees from their winter quarters.

Last year my bees were put on their summer stands on April fifth and sixth,—three weeks too



Don't Hurray Bees to Summer Stands

Mr. James Storer gives some practical advice on this point in the adjoining article. The apiary illustrated is that owned by Mr. Albert Fife, Wellington Co., Ont. soon for that season. If a beckeeper has only a few hives he may easily take them out on a fine day and let them have a cleansing flight and return them to the cellar again.

### Rabies, a Most Dreadful Malady

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

Rabies is one of the oldest known diseases of animals. It has Leen described by Aristotle in the fourth century, B.C. Even at the present time very erroneous opinions are held by many as to the real nature of the disease. Some persons believe that the disease will develop spontaneously as the result of great heat, thirst, nervous excitoment, anger, too high feeding and other causes. However during recent years authorities agree that the only cause of the disease is a specific micro-organism which must first be introduced into the system of an individual before it is possible for the disease to develop.

The germ of Rabies has not yet been identified, but experiments have proved that such an organism exists. It is thought to be so small that the lest modern microscopes are unable to detect its presence. The saliva of a rabid animal is the most frequent and so far as at present known the only means of spreading the contagion.

A DISEASE OF THE NERVOUS SYSTEM

Rabies is a disease of the nervous system and the brain and spinal cord are the parts most affected in animals suffering from an attack.

While all warm blooded animals are liable to contract the disease, the dog because of his natural habits, which prompt him to bite in his own defence, is the animal most likely to become infected and also for the same reason most likely to spread the contagion through a community. After the virus has been introduced into the system it may develop rabies in a comparatively short period or it may not develop for a considerable length of time. It will depend somewhat on the amount of the virus introduced, the location of the bite and the resisting powers of the individual. It is believed that the nearer the bite is to the brain or spinal cord the shorter the incubative period and when the extremities are bitten the longer it will take to develop the symptoms.

The disease has been divided into two forms, viz., Furious and Dumb Rabies. In the case of furious rabies the brain is thought to be the part most affected and in dumb form of the disease, the spinal cord. In furious rabies we have extreme excitement, in dumb rabies we find stuppy or paralysis. In the last stages of the furious form we almost always have paralysis.

#### SYMPTOMS OF VARIOUS STAGES

Again furious rabies has been divided into three stages: first, melancholy stage, second, maniacal stage, and third, paralytic stage. The first or melancholy stage lasts on an average from 12 to 48 hours, in which the animal will become restless, frightened or sullen, his manner will be entirely changed, he will show a taste for abnormal food, or possibly refuse food of any kind. He will lick cold objects and may have difficulty in swallowing. The second or maniacal stage lasts three or four days and is characterized by attacks of fury which may last for some hours, and is often followed by convulsions. In this stage the animal will evince a great desire to run away from home, if on the chain it will make enormous efforts to break away. It will run in an aimless way and often come many miles in a few hours and will bite and snap at anything that comes in its way, even at posts or stones or anything that obstructs its progress. This is of course the dangerous stage of the

The third or paralytic stage will find the animal in a most miserable condition, much emaciated, hair standing on end, sunken eyes, staring and glassy and a generally loathsome appearance.

The lower jaw will drop, the saliva will dribble from the mouth and paralysis of the hind quarters will render him unable to walk. There will be attacks of convulsions and usually death about the 10th day since the disease developed.

#### A DANGER ALL TOO REAL

This most dreadful malady is attracting special attention just now because of the "mad dog" scare and the action of the government has been severely criticised in many quarters for the ordering of dogs to be muszled. But while there is no doubt that many of the cases reported in the press of rabid dogs have no real foundation in fact so far as rabies is concerned, and although many a poor dog has no doubt been hunted to death without real cause, yet to those more closely in touch with the situation the danger is unfortunately all too real. We have had rabid dogs in the country and any means that would help to rid the state of such a dreadful disease should be encouraged by all thoughtful. I wa abiding citizens.

After all a muzale does not irritate a dog to any great extent after he has become a little used to it, a young horse will resent a bridle when it is first put on just as much as a dog will a muzzle and yet we hear no cry against the use of a bridle. The danger will soon be past and our dogs may run again in their former freedom. The danger is at present with us. Let us all unite to stamp it out.

It is thought by some that the harder the spray liquid is blown or thrown against the tree, the better. Such is not necessary for good results, and has even been known to prove damaging by driving the spray liquid into the stomata or breathing pores of the leaves. the

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### Where Cow Testing is Popular

J. E. Jewson, Welland Co., Ont.

It is difficult for me to place on paper a true idea of the interest that our local Cow Testing Association has created among our dairymen. At a meeting of the Bertie Cow Testing Association recently held it was very gratifying to note the general satisfaction expressed by all its members and a unanimous desire to carry on the work. The records of the various herds during the past year have revealed many surprises and likewise many disappointments for it is quite common to hear the expression, "My best cow is the poorest," and vice versa.

The writer has knowledge of a grade Jersey cow a considered by the owner to be just an ordinary producer. Although this cow has not completed a full lactation period yet I am safe in saying that the amount of milk will exceed 6,000 pounds with an average test of six per cent. butter fat. Another herd with two two-year-old grade Ayrshire heifers each gave milk that tested almost the same per cent. fat, yet one gave nearly 1,700 pounds more milk than the other. The following opinions are expressed by some of the members.

Mr. W. Sexsmith says: "To me the true value of the cow testing association is in testing one cow against another in my own herd under similar conditions, and not my herd against another herd ander different conditions. The cow I considered about the best in my herd has turned out to be about the poorest. The fact that your herd might claim a record inferior to that of your neighbor should not keep any man from testing his cows."

Jas. E. Laur says: "I hope to increase my profits during this year by disposing of two unprofitable cows."

Mr. J. Miller says: "I am well satisf d with the results."

Geo. Sexsmith says: "I want to continue the work as long as possible."

The membership of our association has recently been increased by two while others are thinking seriously of taking up the work which shows that the influence of the association is being extended Meetings held frequently during the winter month would be most beneficial. At the last meeting of this association, a stock company was formed to purchase a high-class dairy bull. The all importance of a good sire is becoming more fully realized.

### Artificial Hatching and Rearing H. Denhart, Macdonald Co., Man.

While my experience in artificial incubation is somewhat limited, extending over three years, I have been successful in that side line of mixed farming. I ran one "Peerless Incubator" two

years ago and two last year. In hatching I simply follow instructions given with the machine. I follow these to the letter not nearly to the letter. By giving strict attention to the machine and not trusting to Providence and the machine altogether, if a sudden turn in the weather occurs at night, I find it

very easy to get a good hatch every time. REARING THE CHICKS.

The stumbling block in the business is the raising of the chickens after they are hatched. I leave the chicks in the nursery drawers of the incubator not less than 21 hours after they are hatched, often 36 hours. In the meantime the brooder is thoroughly aired, cleaned, heated up and dry chaff put in. While the instructions call for 90 degrees in the brooder, when chicks are put in, I am satisfied with 85 or 86 degrees, because the temperature will raise considerably as soon as the chicks are in.

As soon as the chicks are transferred to the brooder, I feed them hard boiled eggs, finely cut up. I place these on small boards and tap them

lightly, imitating the mother hen in calling her young, and in that way I get the whole lot to come up to their first feed and begin to pick it up, after which there is no more trouble. The second feed contains granulated oatmeal and dry bread crumbs. On this diet with the addition of pulverized charcoal, ground oyster shells and fine sand, they live for six or eight days. This grit is in my estimation the most essential factor towards keeping young chicks healthy, and I have seen chicks get well from bowel disease after two or three feeds of charcoal.

THE ROUTINE AFTER SIXTH DAY.

After the sixth day I begin to feed everything that may be good for a chicken. Boiled potatoes, wheat, onions, cabbage, fine cut green grass, in short, anything that will give them a change and keep them eating. I always clean the feed boards after the chicks are done eating, never putting left-over food before them a second time. Fresh water, and from the fourth or fifth day on, sweet milk are given regularly with every feed.

I am very particular in feeding the chicks reg. ularly every two hours, and always remove what they don't eat up in a reasonable time. Cleanliness of brooder and brooder house are, of course, first essentials in order to keep chicks healthy.

Two years ago I raised about 500 chicks out of three hatches with a 200-egg Vanacity incubator. My first hatch last year was 71% of the fertile eggs, an excellent percentage, considering the early hatch done under the most unfavorable conditions as to climatic circumstances.

### Culture of the Tomato

John N. Watts, Frontenac Co., Ont. The tomato plant demands a cultivation different in some respects to that of other plants.

When all danger of frost is over, set the plants out in a well prepared piece of land which has had a liberal supply of well rotted manure plowed in the previous fall. A week or so after the plants have been set out give a gentle hoeing around the plants after which go through the rows twice in a place, once a week with a fine tooth cultivator till the plants cover the ground. The remainder of the work should be done with the hoe. In an ordinary season, not too dry, success is sure to follow.

Some Alfalfa Queries Answered

While delivering an address on "Feeding the Dairy Cow," in Peterboro before a meeting of dairymen, Mr. Henry Glendinning, the well-known authority on alfalfa was asked a number of questions relating to this crop. These questions with Mr. Glendinning's answers, follow:

- Q. Will alfalfa grow on wet low land? A. No, one would only lose the seed.
- Q. Will it grow on gravelly soil?
- A. Yes, alfalfa often will do exceptionally well
- on such soils.
- Q. How much seed do you use and how many crops will it give in a season?

A. The quantity of seed depends upon its source and its vitality. Of good seed, one should sow, from 15 to 25 pounds to the acre, 20 pounds being the quantity that we generally sow. There is danger in buying imported seed as we are liable to get new weeds. Alfalfa will grow two or three crops in a year. We only cut ours twice last year. We cut two big crops. It was a late spring and the second crop yielded as good as the first one which is an uncommon occurrence. We could have cut another crop. In early fall it was standing at least 13 inches high. Rather than cut it, I pre-



A Panoramic View of a Portion of the Waste Sand Lands in Durham Co., Ont.

The field in the foreground at one time was part of a productive farm. Now it is occupied rent free, the company owning it realizing its insignificant value, allows the present occupant to retain and work the land, and has ceased to bother him at all concerning the interest on his part of the light patches are glistening sand. The view shows a part of contract of the contract of

The success of growing tomatoes depends largely upon the starting of the young plants.

To secure good healthy, thrifty plants, sow the seed in March if required for very early, and about the first week in April for a general or late crop. Sow in a good warm hotbed but not too hot as too much heat forces too rapid a growth and consequently a weak delicate plant is produced

Sow the seed thinly to produce good strong, stout, healthy plants. Sow in rows about five or six inches apart and cover to a depth of one inch. Before sowing the seed use a bushel or so of well sifted coal ashes, scattered over your hotbed and raked in to a depth of half an inch.

When the plants are two to three inches high transplant into a warm bed in gallon pots if so desired, or set out about 9 or 10 inches apart to prevent crowding and to produce a sturdy, stocky plant. Give plenty of fresh air on fine days and protect from frosts at night.

ferred to keep that top. Alfalfa is too valuable a crop not to give it proper care. It requires lots of top and while we might have cut or pastured it as many would, we found it best to leave that top there to protect it for winter.

At this juncture, Mr. Glendinning asked for a showing of hands as to how many in the meeting were growing alfalfa. Two hands went up. Mr. Glendinning counselled them not to pasture alfalfa for by so doing they might lose it. "I do not say," said Mr. Glendinning, "that you will lose it, but the probabilities are that you may. It pays to look out for the worst years. In a severe winter, if it has been previously pastured, there is quite a danger of losing alfalfa altogether. Had I know this when I first began to grow alfalfa, 14 years ago, it would have saved me a great deal of money. I used to keep the cattle off during the first year and then let them on it the next year. The following spring, I would not have much alfalfa. All alfalfa growers are coming to

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J. A. FLETCHER, Valetta, Ont.

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## \*\*\*\*\*\*\*\* FARM MANAULPILITI

### Going to Try Alfalfa

I have heard of alfalfa clover, and would like to try a little. I have a small piece of high land night pastured for two piece of high hand night pastured for two years, and last year had potatoes on it. It is very rich. I thought of sowing bar-ley in the spring, and in August sowing the alfalfa. Would that be right, or would it be better to sow the alfalfa with the barley?—E. A. R., Mississquoi Co.,

The field you describe would apear to me to be very well suited for alfalfa, I would suggest that you work the land with disc harrow, or spring tooth harrow next spring, get it into perfect tilth and afterwards seed down with alfalfa seed at the rate of 20 lbs. per acre. Get the best seed

and corn has to be grown, then some commercial fertilizer might possibly be advantageous. I would suggest as be advantageous. I would suggest as a suitable application from 300 to 500 lbs. of the following, 300 lbs. Sup-erphosphate, 150 lbs. Nitrate of Soda and 150 Muriate of Potash. This would likely be of most value if the field whereon the corn were sown had been in pasture or hay the preceding year. It should be applied just before harrowing for the last time.—J.H.G.

### Enquiries re Barn Plans

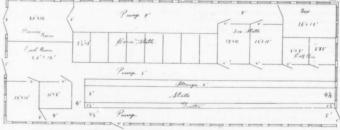
Liquiries re Barn Frans

I intend building a barn 90 ft, by \$6 ft., with concrete havement \$6 ft. (not in the ground). Would you publish plans of some handy barns of that size? Will use drive house \$4 by \$5 crosswise for end of barn, which will have 15 ft. post rafters, top 12 ft., bottom 25 ft. Please give me to the publish with one driveway between the publish with the publish with the publish will have been published by the published will still be used for hay mowe over horse.

ing part of the crop of hay to stock in winter? Stable manure is ungettable in any quantity.—A. W .W., B.C.

The land in question I would advise to treat as follows: As soon as you to treat as follows: As soon as conditions will permit next summer, say in August, after you have pas-tured for a time or cut the hay, plow tured for a time or cut the hay, plow with a moderately shallow furrow, say five inches deep. Roll and disc al-ternately till in good tillth. Work at intervals during the fall and in Oc-tober ridge up with double mould board plow. If not possible to handle in this way, then plow again with a slightly deeper, well made up furrow, and the supplementation of the supplementation of the leave all winter. The measurements soon as you can get on the land, that is of course, when it is fit to work. is of course, when it is fit to work, break down by means of disc or spring tooth harrow, work thoroughly seed to grass without nurse crop.

As grass seed mixture is likely to give best results I would suggest al-



A Barn Plan worth the Careful Study of any Prospective Builder

This plan is described in tae article "Enquiries re Barn Plans." Note the provision made for light, the wibeing designated by the lined spaces. Ninety-nine barns out of every 100 are not provided with sufficient light

procurable. If you are more particularly anxious to get a catch of alfalfa than to get a crop of some kind in 1910, I would advise cultivating land at intervals and sowing to alfalfa without any nurse crop about July the 15th. If however you wish to get a grain crop too, you would have a very good chance of getting the same and a catch of alfalfa at the same time by sowing oats, one and one-half bushels per acre at the usual time. Sow the alfalfa seed then too and cut cats as early as possible. Cut alfalfa and leave on ground in September. and leave on ground in September.

J. H. Grisdale, Agriculturist, C.E.F.,

### Fertilizer for Corn Crop

Would you advise using commercial fer-tilizer on land for corn crop, not having sufficient manure to cover all the land? If so, how should it be applied to the land, and what quantity per acre? The land is a clay loam.—M. S., Russell Co., Oct.

I would not advise commercial fer-Why not get a carload of manure out from Ottawa. If, however, barnyard manure is not available or procurable advise? Please give plan of stabing for basement to tie 20 cows and four yearlings and three box stalls for cows when calv-ing. Horse stabling for eight tied horses and three box stalls for colts. Would you advise stables lengthwise or crosswise. advise stables lengthwise or crosswise. Please give amount of material, gravel in yards, also cement for walls, leaving out four doors and as many windows as would be best. Also separate amount for floors and mangers.—O. R., Lincoln Co.

To accommodate such a large number of horses and cattle will require oer or norses and cattle will require a larger barn than 80 feet by 36 feet. The smallest building in which so many animals may be comfortably accommodated should be about 100 feet by 36 feet. Such a building will require about 100 barrels of cement, 40 wards of sand and 90 wards of carries yards of sand and 90 yards of coarse gravel, or 100 yards average gravel to build the walls. The floor would require about 60 barrels cement, 30 yards of sand, and 50 yards coarse gravel. If small field stone were plentiful they might be used in the construc-tion of the wall and so reduce very materially the amount of other ma-terial, say from 15 per cent. to 25 per cent.—J. H. Grisdale.

### Grasses for Low Lying Land

Grasses for Low Lying Land
I have about 15 acres of low lying hay
land; at present it is in slough grass,
but seems to be seeding itself down to
seems to be seeding itself down to
is quite wet in the high
under water for about a month, and as
the water recedes, the land gets dryer,
and in the fall is in a condition to break.
Please tell me what would be the beet
Please tell me what would be the beet
to see the seeding of the land gets dryer,
and in the fall is in a condition to break
outs would be impossible as a nurse crop.
Would it be possible to sow in the fall
after breaking and discing well to some
seed that might eradicate the roots of
the process that would take root
out this grass; water does not seem to hur
this grass; water does not seem to hur
tred top, but there are probably other
grasses that would snit better, and i
would like to know if it would take root
ou tresh breaking? Ilow long should timout the area of the same of the same and assuming stock in fall; and feed othy be good for, cutting for hay in sum-mer and pasturing stock in fall, and feed-

stable. What width drive floor would you sike clover, three lbs.; timothy, two advise? Please give plan of stabling for lbs.; orchard grass, two lbs.; and red basement to the 20 cows and four yearlings and three box stalls for cows when calving. Horse stabling for eight tied horses is in the chaff then doubt the quantity. it in the chair then double the quan-tity. Mix the different kinds of seeds thoroughly together, divide the quan-tity into two equal parts and sow half lengthwise and the other half cross-wise of the piece of land. After seed-ing, harrow with very light harrow, or with a brush harrow and roll if the ground is dry.

ground is dry.

Timothy meadow well looked after
will last indefinitely. I know of one
timothy meadow 40 years old. It has
been pastured more or less each fall.
To keep in good shape for any length of time an occasional application of or time an occasional application or barn yard manure is absolutely neces-sary. Be careful not to pasture too closely in fall.—J. H. Grisdale, Agri-culturist., C.E.F., Ottawa.

### Management of Pasture Land

Would you kindly let me know what would be the best thing to do with about 20 acres of pasture land: half of its is also land, the other half is sandy. I have had cattle running over it for three years. Last year there was very poor grass for the cattle. Have no other place to pasture them. They will have to run on it this coming summer. What fertiliser this coming summer. What fertiliser gold you recommend—d. F., Niplesing Did., Onk.

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The best fertilizer for pasture would be barnyard manure applied wid.

spreader early in May. Lacking this then nitrate of soda, about 200 lbs. and Thomas phosphate, about 100 lbs. per acre might improve matters. The best treatment would really be to plow, work thoroughly by rolling and disc work thoroughly by rolling and disc harrowing a number of times and seed with about three bushels of oats, 30 lbs. vetches, 10 lbs. sorghum per acre. Allow a fair growth before turning cattle on to pasture.—J.H.G.

I am enclosing herewith \$1.00 to renew my subscription to "Farm and Dairy," as I could not do without the paper.—Thomas McIntyre, Wentworth County, Ont.



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oon as ye pas-y, plow ow, say lise al-York at in Oc-mould handle with a urrow, ep and

mer as work, sprin.

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d red d top quan seeds v half cross seed.

ow, or after f one it has fall. ength on of necese too Agri-

and what about s clay e had years. ss for pas-on it cilizer issing rould wie!

lbs The olow, dis and oats, per H.G

and orth

The Feeders' Corner

The Feeders' Corner is for the use of our subscribers what interested are invited to ask will desire the control of the

### Meal Ration for Dairy Cows

Can you give me the proper ratio of ground feeds that a cow should get in order to give best results? I feed ground oats and barley and buckwheat, also oil cake, gluten-meal and bran. I feed the meal with the silage night and morning—"Quahan" "Quebec

meal with the slage night and morning—"Quebee."

I would suggest a mixture of about the following proportions of the feeds you mention. bran 600 lbs., ground oats 100 lbs., barley 100 lbs., buck-wheat 100 lbs., gluten 100 lbs., oil cake meal 200 lbs. It is not desired to mix all the feeds then the dropping of one or two, or all of the oats, barley and buckwheat will not materially affect the value of the meal ration. If they were all left out then it would be well to dd 100 lbs. more of oil cake meal or gluten. If only one of the two gluten or oil cake were to be used, then an amount equal in weight to what was suggested for the two. If gluten feed is meant, that is if material to what was suggested for the two. If gluten feed is meant, that is if material were omitted. Feed the morning that were omitted. Feed in the case of the two gluten will be read to each four pounds milk produced. The meal mixture including all the feeds mentioned is likely to give better results than a meal mixture made of two or three of the materials.—J.H.G.

### Alfalfa for Horse Feeding

An Ohio farmer who is regarded as an authority on alfalfa and its feed-ing value, says in the "Breeders' Gazette:"

Gasetie!"

Bearing in mind that good alfalfa
Bearing in mind that good alfalfa
hay has about the same composition
hay has about the same composition
as oats, one should be able to estimate
the difficulties in feeding it. One can
readily overfeed a horse on alfalfa
hay. It will not cause founder or acute
disorder, but it is not good for the
horse to overeat any nitrogenous feed.
horse to overeat any nitrogenous feed
horse to have considered through the kidneys. A
horse overfeed on alfalfa hay will not
be so strong or enduring as it would
be so strong or enduring as it would
properly fed, or oven a little underproperly fed, or oven a little underproperly fed, or oven a good when the
properly fed, or oven a little underproperly fed, or oven

if property red, or even a little underfied. Slightly underfeeding is better
than gross overfeeding, whether with
horse or man.

A horse should never be given as
a lifelia hay as it will consume
unless lifelia hay as it will consume
unless it maciated and one wishes
to clothe it maciated and one
unless of the consumer of the
at rest in this stall, 20 pounds of it
matter, and 1.5 pounds of protein for
a day's ration. If moderately workd, it needs 21 pounds of dry matter and
2.5 pounds of protein. Thus the
horse fed alfalfa hay to furnish most
of its protein would need, if at rest,
but 10 pounds of hay; if moderate,
but 10 pounds of which is more mearly balances the alfalfa hay not be seen to
any other grain.

From Bailey's Cyclopedia of Agriculture in the table of computing balanced rations I find that when I feed
this horse of 1,000 pounds of weight
at moderate work, 15 pounds of alfalfa hay and eight pounds of corn
I come near giving the ideal ration.
To be accurate, the horse ought to
have a ration with 21 pounds of dry
wester, 1.7 pounds of digestible protein, 11.18 pounds of carbohydrates
and fat, totalling for the digestible
and fat, totalling for the digestible

portion of the ration 13.5 pounds. In portion of the ration 13.5 pounds. In reality, with the named amounts of corn and alfalfa, we get of protein, 2.024 pounds of carbohydrates and fat 10.929 pounds, totalling of digestible nutrients 13.053 pounds or a little too much protein and a little less in bulk than is desirable. So, in addition to the 15 pounds of alfalfa hay, I would add, say two pounds of timothy or oat straw or something to fall un with, containing not much nutfill up with, containing not much nutriment.

fill up with, containing not much nutriment.

Assuming, then, as we fairly may, that the standard ration for a horse at moderate work is 15 pounds of alfalfa hay and six pounds of corn for a day, we can readily compute what a larger horse should have. A 1,500-pound horse would eat 22 1-2 pounds of alfalfa hay and nine pounds of corn, with a chance at a little bright straw or timothy for filler if need be. And any excess of alfalfa above these specified amounts would be fed at a positive disadvantage to the animal. As to which crop to use, we prefer the first or second crop, letting it get fairly mature, but cutting before the leaves drop from the stems and curing well. We have horses that have eaten no other hay than alfalfa in their lives and absolutely no ill results have folcations of the standard of

### Pure Bred Stock for the West

Pure Bred Stock for the West
A large shipment of pure-bred live
stock was sent to Western Canada
recently by the Live Stock Association of Ontario. The shipment, which
filled a long palace horse car and a
filled a long palace horse car and a
live to the shipment of the shipment
live to the shipment
live the ship

shipping stations were scattered from Winnipeg to Calgary.
It is expected that another ship-ment will go out the latter part of March or early in April. Parties re-quiring space should send their ap-plication to the Secretary, A. P. West-

ervelt, Toronto.

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## WASTE IN THE MAPLE BUSH



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agara Peninsula fruit growers last week, gave the following as his choice for the six best yellow flesh peaches: Yellow St. John, Engol's Mammoth, Kalamazoo, Elberta, Smock, Salway. He considered Engol rather hardier than the Early Crawford which he now omits from his list altogether, and it is about of the same season. Kalamazoo is much like New Prolific, He omitted Triumph, but mentioned a peach called Yellow Swan, which was of about the same season. The Dewey he claimed was a better peach than he claimed was a better peach than

he claimed was a better possible the claimed was a better possible the full wind as his choice. Mr. J. Wesley Smith, of Winona, Ont. gave the following as his choice. St. John, New Prolific, (or Early Crawford), Elberta, Yellow Raceripe, Lemon Tree, Smock. In his opinion the Fitzgerald and the Garfield were not superior to Early Crawford. Smith's Superb was a trifle earlier than Lemon Tree, but not as prolific. than Lemon Tree, but not as prolific. The Leamington was a great bearer, The Leanington was a great bearer, much more productive as a rule than Early Crawford. Longnurst was pro-fitable on real good, deep sandy loan, rich, moist but well drained; otherwise too small

In planting, Mr. Farrand advised In planting, Mr. Farrand advised trimming the young trees to whip stalks and then cutting them back to about 18 inches from the ground, so as to make lowheads, and then keep-ing them well cut back every year. I, however, the head lad been formed ligher and allowed a year's growth, it was too late to change it to a low read. For distance, he advised 20 feet each way.—W.

### Fruit Institutes in Georgian **Bay District**

The fruit growers of the Georgian Bay district are fast awakening to the Bay district are fast awakening to the fact that they must pay more atten-tion to their fruit if they intend to hold their present envisible reputation of producing the best quality of appa-ples. It has been said in the pas-ples, the has been said in the pas-ting in the passing of a pray-ing in the passing the cold weather would strict since the cold weather would be the produced to the cold weather would be the produced to the cold weather would be the produced to the produced to the weather would be the produced to the produced to the pro-tor of the produced to the produced t ing in that district since the cold weather would not allow the injurious weather would not allow the injurious insects to thrive. However, this neglect of spraying has allowed the oyster-shell bark-louse to get a good foothold and also has given the codling moth a chance to become well established. Pruning has been much established. Pruning has been much neglected, also, and grafting needs to be done in many cases. Frequently no manure or fertilizer has been ap-plied for a number of years, and the consequence is that the apples have been getting smaller and smaller in

size and numbers.

Mr. I. F. Metcalf, the representative of the Department of Agriculture tive of the Department of Agriculture for that district, is very much alive to the necessity of better treatment of the orchards and of the production with the Georgian Bay fruit course, he has just conducted a couple of fruit institute meetings, one at Meaford and one at Thornbury. The Meaford meeting was held on March 4 and the Thornbury meeting followed on March 5. Pruning and grafting of fruit trees and the marketing of fruit were taken up by P. J. Carey, the Deminion Fruit Inspector. The spraying of fruit trees was dealt with

HORTICULTURE

BY Mr. Robt. Thompson of St. Catharines, and Mr. Fraser of Burlington. Mr. B. Leslie Emaile of the Fotah Syndicate handled the fertilie Totah Syndicate Handled Handl

### Hotbeds and Cold Frames

(Continued from last issue) Continued from and issue;

A cold frame is a simple construction of boards for wintering over
young plants, cabbage, lettuce, cauliflower, bruccoll, etc., and is also exproceedity, etc., and is also
flower, bruccoll, etc., and e open air.

Select a dry, southern Select a dry, southern exposure, form a frame four to six feet wide and as long as required. The back should be fourteen to eighteen inches high and the front eight to twelve, with a cross-tie every three feet. frame may be covered with sash or cloth. Seeds of the vegetable to be cloth. Seeds of the vegetable to be wintered, sown in open border, early in September, will be ready to plant in cold frames about the last of Oc-tober. The soil should be well prepartober. The soil should be well prepar-ed and smoothly raked before plant-ing. Admit air freely on pleasant days, but keep close in severe weather.

These frames are particularly useful in the southern districts and may be covered more cheaply with cloth shades than by sash. The shades are made as follows: Maka light, but made as follows: Make light but strong wooden frames to fit over the strong wooden trames to nt over the bed and of a width to receive some common brand of cotton cloth. The cloth may be unbleached and should be stretched over and securely tacked to the frames.

### TRANSPLANTING

In transplanting, the main points to be regarded are: care in taking up the plants so as to avoid injury to the roots, setting out as soon as possible to prevent the air coming in contact to prevent the air coming in contact with the roots, setting firmly so as to enalle the plant to take a secure hold of the soil, and shading to prevent the hot sun from withering and blighting the leaves. Where a rank or soft growth of tops has been made in the hotbed it is frequently desirable to trim off some of the larger leaves before taking up to train of the contact of the

trim of some of the larger leaves be-fore taking up to transplant so that evaporation later may be retarded. In transplanting from a hotbed, harden the plants by letting them get harden the plants by letting them get quite dry a day or two before but give an abundance of water a few hours before they are taken out. It is most apt to be successful if done just at evening, or immediately before or daying the first nart of a rain, when evening, or immediately before or during the first part of a rain, when the ground being wet it is impossible to sufficiently press it about the plant without its baking hard. If water is used at all it should be used freely,

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A. G. HULL & SON, St. Catharines, Ont. desirable to mention the vame of this publication when writing to advertisers and the wet surface immediately covered with dry soil.

#### WATERING

The best time to water plants is early in the morning or in the even-ing. Water may be given to the roots ing. at any time, but should never be sprinkled over the leaves while they are exposed to bright sunshine. If watering a plant has been commenced,

watering a plant has been commenced, continue to supply it as it is needed, or more injury than good will result from what has been given. One cop-ious watering is better than many scanty sprinklings. The ground should always be stirred with a hole or rake Lefters it becomes as over dry as to before it becomes so very dry as to cake or crack.

### Complaints of Canadian Fruit in England

Trade Commissioner MacKinnon, Bir-mingham, in Report of Department of Trade and Commerce.

A complaint which reached this office some time ago, and upon investi-gation proved to be well founded, was gation proved to be well founded, was held over to be reported on along with other similar complaints which might come in. The season is now approaching the end, but so far the attention of this office has not been called to any infraction of the Canadian law or of fair trading methods.

### FRAUDULENT CHARGE IN MARKING

PRAUDUENT CHARGE IN MARKING
The fruit in question bore the
names of J. C. Dudley & Sons, their
marks being 'Sunflower Brand, 100
Russet' in pencil, 'XXX,' and the
name Prince.' Being No. 1 fruit, as
the marks would indicate, these russervers decidedly second-rate, both
side in the size and color. A remarkable fotunes are and the fact that while
the first two
size and color. A remarkable for the size and the size and
the size and color. A remarksize for the size of the size
the size of the size of the size
cil: evidently after being mapped
'XX' some one over anxious for protits and 'size of the size of the size
that 'classed' the grade by the simple
addition of the third 'X.' The second
barrel similarly marked, but with the
name 'Smith,' was found properly
graded No. 1. The third barrel, bearing the name 'Avery' and marked in
the same manner, showed small, poor,
spotted fruit, some of which was absolitely rotten.

spotted fruit, some or which was au-solutely rotten.

Other barrels, which were examined, with the names 'Collins,' 'W. A. Seed' and 'Prince' upon them, all tended to bear out the salesman's statement that "L'hyerale aut of 21 were decidedly in-14 barrels out of 21 were decidedly in-

14 barrets out of 21 were decided, in-ferior to the grade marked upon them. At another firm, barrels were again seen where the third 'X' had been At another firm, barrels were again seen where the third 'X' had been added and the fruit in two barrels upon examination was found to be small and spotted, being in one case fair second grade and in the other third-rate. The names (presumably those of packers) were Collins, Seed and Prince. and Prince.



Closed-end Sidelock and continuous overlapping and interlocking bot-tom lock which are found tom lock which only in the new

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# \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Now, that our hens have started to lay after having taken a long rest for the most of the winter, they have taken to eating their eggs. What remedy do you

after having taken a long rest for the most of the winter, they have taken to most of the winter, they have taken to eating their eggs. What remedy do you advise otier than to chop their head-off-C. S., Bruce Co., Ont.

The egg cating habit is nard to circ. If the hen or hens are not valuable the best plan is to kill those addictive to the habit. It is a habit dicted to the habit. It is a habit dicted to the habit by giving the flock eggs the habit by giving the flock eggs from the incubators to eat, all they will be the habit by giving the flock eggs will be the head of the head of the habit by giving the flock eggs will be the service of the head of the habit by giving the flock eggs will be the head of the head of

POULTRY YARD

POULTRY YARD

Rept in the backyard and will not be seen on the lawn a general purpose bred such as the Plymouth Rocks, R. I. Reds, Wandottes or Orpingtons make very good fowl for a city lot. If it is the lawn more of the winter, they have taken to most of the winter, they have taken to

as nice as a white or colored bird. As far as laying goes the Leghorn is usu-ally considered to be the best layer. A good laying strain of the American breeds however, give very good re-turns as well as being good table fowl. Eggs from most of these breeds could beggs from most of these breeds could Dairy or from Maclonait College or the O.A.C., Guelph.—F.C.E.

### Crop Bound Fowls

Robert Smith, Lambton Co., Ont.
This, the commonest of all crop
diseases, is easily detected. The crop
hangs down and is hard. The trouble is caused from the bird having eaten long pieces of grass or indigest-

The following are the chief factors in winter egg-production: Early-hatched and well-matured pullets; dryness, light, fresh air in the poultry house, and exercise and careful feeding.—H. B. Webster, Pert hCo.,

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

BRED FOR EGGS and size—White Wyandottes, beautiful white birds; eggs, 15 \$1.00; 55, \$3.00; 110, \$5.00. R. J. Gibb, Galt, Ont.

Gas Given Away in return for new subscriptions. Settings of eggs of any standard variety of fowl, given away in return for two new subscriptions to Farm and Dairy. Send to Circulation Manager, Farm and Dairy, Peterboro, Ont.

White Wyandotte Cockerels, \$3 and \$4 each.
Orpington Cookerels, \$2.50,
\$\$3.00 and \$4.00 each.

HARRY T. LUSH, 182 Dublin St., Peterboro

## PLANTER



1909 MODEL

With or without fertilizing attachment, opens the trench, drops the seed, covers it and marks for the next row, all in one operation. Does not bruise or mar the seed in any way. One man and team can plant from four to six acres per day. Write for catalogue.

GALT, ONTARIO

CANADIAN POTATO MACHINERY CO., LTD.

### SEED MERCHANTS 124 King St. East - TORONTO

Seed Oats

Scotch Grown

REGENERATED

BANNER

This is the Best Oat for Ontario If you are interested in and grow Oats, you cannot afford to be with-out this grand variety. Send for sample. While the stock lasts, we offer them at, single bush. \$1.50; 5 bush. lots, \$1.25 per bush. Bags free.

O. A. C. No. 21 Mandscheuri Barley

Just received our stock from the grower. It is the finest Barley we have ever seen. Send for a sample and see for yourself. It will pay you to get it if you grow Barley. While the stock lasts, we offer it at, single bush. St.50: in five bush. lots, \$1.25. Bags free. Send for catalogue.

GEO. KEITH & SONS

Elm Grove Poultry Farm Guaranteed Fertile Eggs for sale from the following breeds: Rose Comb Brown Leg-horns, Silver Grey Dorkings, Light Brah-mas, Barred Rocks, Mammoth Bronze Turkeys, Embden Geese, Rouen Ducks. Send for Catalogue

J. H. RUTHERFORD. Box 62, Caledon E., Ont. Telephone 7 on 8

Guaranteed to hatch, from our higherasted, heavy-laying strain of Rose and Single Combed Rhode Island Reds, White Wyandottes and White Leghorns. Bried Wyandottes and White Leghorns. Big oper 15, 25 pp. 136 per 15.

Tree.

1) J. H. McCAULEY, Ontario Churchville



## Raise The Crop That Never Fails

### This Is How You Can Make Your Farm Pay Better

First of all, sit down now and drop us a post card with your name and address on it. That will bring you a book you ought to read. It tells you he real truth about poultry-raising. This book explains just why The Peerless Incubator, The Peerless Brooder, and The Peerless Way make a combination that puts success, within anybody's great-peerless.

Very Little Money Will Start You Right Don't imagine for a moment that you need a great deal of cash to start after the profit there is in poultry. One impor-tant feature of The Peerless Way is how easy it is made for

You Get, Free, The Advice And Aid of Experts

And Aid of Experts.

Another very important thing about The Pe
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falls to be possible to the period of the
advice in so plain, so explicit, that a
child could not insumerizated it.

We Trust You Willingly When it is not just convenient for our rustomers to start on a cash-down basis, we willingly arrange such long credit terms that the Peerless equipment pays for itself—earns its whole cost long before the last payment is due. WRITE US TO-DAY FOR FULL DETAILS.

The Pierless Insculator is so draigned, so constructed, practical experience, with precise knowledge of the clip practical experience, with precise knowledge of the clip and the construction of the Commission—electers from a construction of the Dominion—electers from a who have done with the Pierless what they could not done with any other inculator to built.

We Find a Buyer For Your Product Here is another valuable service you get when you foliow The Perriess Way—We guaranter to find a bayer for all the lowfor egg you want to sell—a bayer who pays apot cash, page the highest market prices, and charges no com-mission whatever. Poultry prices, and prices for eggs— as you would know if you lived in a city—have been climb-ing itseldily year after year.

### Best Paying Business For You

For the work involved and the money required, po-raising, The Peerless Way, is the best business the It has possibilities big enough to interest a capitalist yet a schoolboy of average intelligence can succeed make money at it, prosper in it, yet start with but

FREE BIG VALUABLE POULTRY BOOK

We carry ample stocks in our big distributing Warehouses at Winnipe Edmonton and Vancouver, for the convenience of our Western friends. [to Head Office at Pembroke, Ontario. They will receive prompt

Let us ship you this and trust you for it. We pay freight and give you a 10-year guarantee

LEE Manufacturing Co., Ltd. PEMBROKE ONTARIO



### A Winter View of Some of the Poultry Houses at the O.A.C. Guelph

The house in the foreground is a low down single ply board house with straw loft. One half the front is never closed, no cotton or curtain front used. The house gave excellent results during the winter of 1998-9, both in health of stock and egg production.—Cut courtesy Institutes' Branch.

### Nitrate of Soda Nitrate Sold in Original Bags

NITRATE AGENCIES CO.

23 Stimson Block, Los Andeles 539 Bank San Jose Bldg, San Jose 55 Bay Street, East, Savers, San Jose 55 Bay Street, East, Savers, San Jose 55 Bay Stone Street, New York Citizens Bank Bldg, Norfolk 630 Oriental Block, Sentin 103 Temple Bldg, Toronto Havana Address Office Statest Yon Louisiana... New York... Virginia... Washington

Address Office Nearest You Write for Quotations

litter so that they have to seratch for it and if this does not help matters grass. It is also frequently caused the axe had better be used on the worst of them.—F.C.E.

Chickens for Town—Best Layers

The food, such as chaff and wire-grass. It is also frequently caused by the fowl eating an over-amount of grain. Briefs not being fired for some days and then being given all they desire will eat more than they can digest and they then become victims to this malady.

Chickens for Town—Best Layers

What would be the best kind of chickens
to keep in town and what would I have to
pay a setting, and where can I get them
-A Subscriber, Elgin Co., Ont.
People who keep fowl in a town require a breed that is easily handled,
Light hens that it wover any fence and
get into the neighbor's garden should
not be kept in city lots. They also
make considerable noise with the crowmake considerable noise with the crowing and cacking and for that reason

The contents of the contents. Four oil in
substance. When the contents of the contents.

The content of the contents of or cut the feathers from a place on the upper part of the crop, make an incision an inch long through the skin; then press the skin aside and make a similar slit in the crop. When released the cuts will not be imme-diately opposite each other. Work contrasts through the opening

diately opposite each other.

Work contents through the opening and sew both incisions with white linen thread. Feed nothing for 24 hours, then feed mash till the bird recovers.

I think Farm and Dairy the best paper a farmer can take, as it contains advice from farmers who have experience in all the different branches of farming. I also enjoy the market review.—L. Linkletter, P. E. I.

### STUMP, BUSH and TREE PULLER



If you have land to clear, no matter where it is, with stumps, standing trees or small bush alders or willows, trees or small bush alders or willows, we have the machine and apparatus for doing the work, and we sell our machine on a guarantee that it will machine on a guarantee that it will make the one of the work o

Canadian Swensons Limited, Lindsay, Canada

### Peerless Jr.Poultry Fence Saves Close enough to keep chickens in. Expense Strong enough

PEERLESS JUNIOR Poultry Fence will do all you wish of a poultry fence and will do much more. It is built close enough to keep the chickens in, but it is also built strong, rigid and springy. Those heavy, hard steel top and bottom wires, together with intermediate laterals, will take care of a carelessly backed wagon, or an unruly animal and spring back into perfect shape again. It is the most handsome and most effective poultry fence on the market. At every intersection the wires are firmly held together by the never-slip PEERLESS Lock.

to keep the cattle out.

The Fence That Saves Expense

because it never needs repairs. It is the cheapest to put up, too. It is stretched up like a field fence. More than half the price can be saved in posts and lumber alone, as required by some other poultry fences. Write to-day for our printed matter. It tells you how to get your full money's worth in fences. We build fences for every purpose.

BANWELL HOXIE WIRE FENCE CO., Limited Dept. H WINNIPEG, MAN. HAMILTON, ONT. Good Roads, Under Discussion

Good Roads, Under Discussion
The Executive Committee of the
Good Roads Association, which met
in Toronto two weeks ago in annual
continuous and the mext convention on the advisant at the next convention on the advisant the resistance
the Provincial Government of pressing
the Provincial Government of the the
should submit for approval such
amendments as they might deem necessary to improve the highway laws
of the Province. During the three
days convention, speakers repeatedly
emphasized the benefit that would accrue by the joining up of the good
county roads already in existence with
others to be constructed by the Province. Speakers from the American
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vince. Speakers from the American side helped to popularize the idea by explaining the system on which state roads are managed south of the line. At the opening session of the convention, sentiments were strongly voiced in favor of increasing the provincial appropriation towards the construction and maintenance of county roads; that the city of Toronto should be subjected to a levy in aid of the up-keep of roads leading into the city and that the system of taxing railway property should be changed.

\*\*TAXING RAILWAYS\*\*

In this latter connection, a appeal for the amendment of the sys-tem of taxing railway property was made by J. F. Beam, of Welland County. The system of levying \$5 or Gounty. The system of levying \$5 or \$6, a mile against railway property was antiquated. Railways, he claimed, should be assessed on the basis of a percentage of their gross earnings and that the revenue from this source should be largely available for the maintenance of roads through the townships Mr. Beam considered, furthermore, that the Act should be amended so as to increase the provincial grant to at least 50 per cent, at the same of the system of the same of the system of the syste the country.

out the country.

The president of the Association,
Mr. W. H. Pugsley, Richmond Hill
in his opening address cast considerable light on the present situation as
regards the good roads campaign. He
said that of the 35 counties of On-

tario, only 16 had taken advantage tario, only 10 and taken advantage of the provincial Act whereby the province contributes to the county roads fund. Thus far, \$700,000 had been contributed by the province towards country roads.

Considerable enlightenment was derived by delegates at the meeting from Mr. Geo. Diohl, engineer, of Erie Mr. Geo. Diohl, engineer, of Erie Review of the Constant of the Mr. He spoke on the road construction. He spoke on the road construction of the Mr. He spoke on the road construction of the Mr. He spoke on the road construction. The statute labor system, he thought, about description. The statute labor system, he thought, about description of the delegate ROADS IN NEW YORK STATE Considerable enlightenment was dethe maintenance of roads leading into the great centrees of population. Buf-fale for instance had paid out fale for instance had paid out \$2,000,000 during the last 10 years towards. Eric County road fund, this money being applied approximate-ly with the radius of 25 miles from the city. Ontario, in Mr. Diehl's esti-mation, the property of the results of the temporary of the property of the pro-tent of the property of the property of construction with expert supervision, and also the construction of model sec-tions through the country, so that the municipalities could note the ad-vantages accruing. vantages accruing.

vartages accruing.

TO MAINTAIN EARTH ROADS

Speaking of earth roads, and how
most economically to maintain them
in ideal condition, Mr. W. B. Ritsenhouse, of Beamaville, gave it as his
experience that tile or underground
drainage in nearly all cases, in providing a good bottom. He cautioned
drainage in nearly all cases, in providing a good bottom. He cautioned
against undertaking macadam roads
except for main highways. After cutting up and grading the road, the
speaker said they got the traffic directed along the centre of the road dy
driving a wide-tired wagon carefully
along the centre of the, and all other
will follow that track; when ruts form,
the road is dragged and levelled again.
It cost less when a good road was
love made to road was
to the cost of the cos the road is dragged and levelhed again. It cost less when a good road was once made, to keep it good by some stant care. Most road work should be done early in the season when the earth is soft; it could be done then more easily and better. The auditor's report showed that the association had a balance of \$272.54 there being \$233, left over from last year, the county grants amounting to \$120, and Government grant to \$500.

year, the county grants amounting to \$120, and Government grant to \$200. The convention next year will be held in Toronto on the first Tuesday, Wed-nesday and Thursday of March.

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The following officers were elected for the ensuing and President, W. H. Pugsley, R. Brand, H. Hill. Vice-President, Thos. L. Kennety, Cooksville; Secretary-tressure, S. E. Farewell, Whitby; Assistant Searay, W. A. McLean, Toronto; Exceutive Committee, R. H. Jupp, Orilla; Warden Hall, Prescott; K. W. McKay, County Clerk of Elgin, and L. A. Hamilton, Lorne Park. OFFICERS ELECTED A Hamilton, Lorne Park.

The first annual meeting of The Farmers' Dairy Co., Limited, will be held at the York Township Offices, No. 40 Jarvis St., Toronto, at the hour of one o'clock sharp, in the afternoon, on Saturday the 26th day of March, 1910.





You can only get the safe-lock construction in PRESTON Safe-Lock Shingles.

Look at picture of our side lock. See how the sides of the shingles hook over each other. This is on the principle of the sallor's grip. It is utterly impossible for shingles locked in this way to pull apart. The heavier the strain the firmer the grip.

The top of a shirigle is where the greatest strain falls. Now look at rop lock. It is twice as strong as our wonderfully secur by Notice that it consists of three thicknesses of sheet Notice that it consists of three thicknesses of sheet and the shiring of building of sheeting.

PRESTON Safe-Lock Shingles are proof against rain-snow, wind, frost and lightning. The only way to get the nalley Safe-Lock Shingles off the roof is to remove the nalley Safe-Lock Shingles of the safe separately. When you put PRESTON Slingles on your roof they are on to stay.

PRESTON Safe-Lock Shingles are the only shin made and galvanized according to British Governa Specifications. Shingles galvanized according to ti specifications are good for twice the service of shin

HINGLE

galvanized in the ordinary way. They are also the only shingles with a Free Lightning Guarantee.

Send today for our free booklet "Truth About Roofing." We did intend to charge something for this booklet. But we will send it free as a reward to all who cut out, fill in and mail the coupon to us. Do it right

METAL SHINGLE AND SIDING CO., Limited, PRESTON, ONT.

Branch Office and Factory, Montreal, P.Q.



Dover Street Factory, Please send me your new booklet, "Truta. About Roofing." I am interested in roofing, and would like complete information about PRESTON Safe-Lock Shingles and British Government Specifications.

P. O. Address.... County..... Province.....

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Q. How many years will a stand or alfalfar grow crops?

A. It is hard to say. The longest that I have ever grown it in a con-binuous stand was five years. I saw one field last summer near Goderich that had been cut for 16 years. That field had not been pastured. NITRO-CULTURE

Mr. Glendinning at this juncture asked one of those present who was growing alfalfa if he had sown it for the first time this year. He replied

Continued from page 5)
recognize that they must not pasture it and that they must not pasture it and that they must not cut it lates in the fall."
Q. Did you ever lose any stock through pasturing of alfalfa?
A. No. I never had any bar results from alfalfa. It is very palatable, however, much more so than other clovers and if one were to pasture clovers and if one were to pasture it while it they were not allowed on it while it help when they are particularly hungry.
Q. How many years will a stand of alfalfalf agrow crops?
A. It is hard to say. The longest that I have ever grown it in a conwhich bunched the butts of the sheaves and make them difficult to dry out, where the alfalfa had been treated with the nitro-culture. There were plenty of plants on the untreated part but they were all small and spindly save in some patches where perchance there had been some of the necessary harderia. bacteria.

Mr. Glendinning at this juncture asked one of those present who was growing alfalfa if he had sown it for the first time this year. He replied "Yea" bid you sow any nitro-culture with it?" "No." "How is it doing?" "Not very well. Lately it has taken on a sickly yellow color." "That is just what I thought would be the color of th

This Grade Cow Gave 386 lbs. Milk in 7 Days, November, 1909 Any man who keeps cows now-a-days cannot afford to "go it blind." It is dis-tinctly to his interest to know what each cow gives each day, each month, each year. The cow illustrated is one of those on the Trethewey Model Farm, York

Le your answer," said Mr. Glendinning. "Alfalfa needs bacteria to work
on its roots and it will tend to be
weak and spindly and will take on a
sickly appearance. The O.A.C. at
Guelph supplies this bacteria in a
very convenient form put up in a
small bottle and it can be had for the
nominal cost of 25 cents for enough
to treat a bushel of seed. There are
other means of inoculating a field than
by this bacteria, such for instance as
by taking the soil from an old lafalfa
field and scattering it on the new ares.
Without the bacteria in the soil, the
lower leaves drop off the plant and it
gloes not do well.

Guelph supplies this bacteria in a very convenient form put up in a very convenient for form put up in a very convenient for form put up in a very convenient form put up in a very convenient for form put up in a very convenient form put up in a very convenient for fill and then harrowed it in fet a few fours. Put in definition in a very court to you, "said the questioner, "behind ted fill and then harrowed it in fet a few hours."

The same as I swed other small reduction for form put up in a very convenient for fill and then harrowed it in fet deril and then harrowed it in fet a few hours."

The same as I swed other small reduction for the deril and then harrowed it in fill and then harrowed it in fet a few hours.

The same as I swed other small reduction for. The same as I swed difficult in the difficult in a fet with the

## APRIL 7

IS THE DAY

### Our Big Dairy Special Will Appear

ARE YOU going to take advantage of the EXTRA CIRCULATION this number will give you as an ADVER-TISER to reach the best class of Farires in the country at a time when they need your goods, and they want to sell them? If you would, drop us a card requesting space at the same price as our weekly edition (7 cents per line) are serve it for you, but don't wait until the last minute before making up your mind. The quicker your card arrives, the better location you will receive.

THIS SPECIAL NUMBER is for Dairy Supplies, Gasoline Engines, Silos, Cream Separators, Roofing, Fences, Stock Foods, Cattle Remedies, and anything that a Farmer can use at this time of year.

Don't Forget—HE WILL BUY THEM, BECAUSE HE NEEDS THEM.

Don't Forget—HE WILL BUY THEM, BECAUSE
NEEDS THEM.
April 2nd is the last day on which we can receive copy.

FARM AND DAIRY - - PETERBORO, ONT.

When to Tap the Sugar Bush

W. R. Ball, Brome Co., Que.

It is not possible to give any fixed rice as to the proper time to tap since this is governed largely by the conditions existing in each individual sugar bush. A bush with a warm south or ably situated. When to Tap the Sugar Bush W. R. Boll, Brome Co., Qur.

It is not possible to give any fixed rule as to the proper time to tap since this is governed largely by the conditions existing in each individual sugar bush. A bush with a warm south or east exposure, and in which the snow does not lie deeply, may be tapped as soon as the weather is warm enough to draw the sap from the trees. On the other hand, a sugar bush on a cold exposure and where the snow lies deeply, it will be useless to tap until there has been sufficient warm weather to melt the snow away from the trees, as soon as the weather is warm enough as soon as the weather is warm enough as soon as the weather is warm enough the soon is soon to be the the soon as well as the warm weather has been sufficient warm weather has been sufficient warm weather the frost or in cold winter weather the frost has followed the tree through the snow

ably situated.

### AUCTION SALE At Maple Stock Farm, Bositon, Ont.

At Maple Stock Farm, Bositon, Ont.

WEDNESDAY, MARCH 30th, 1910

Bighteen females and II bills. Maple Herd represents several of the greatest families of the hreed; Tack Johanns, Wayne, Pietertje, Pooch, Mechthide, Schulling, Mercen, Both, Johanns, Wayne, Pietertje, Pooch, Mechthide, Schulling, Mercen, God, Johanns, Wayne, Pietertje, Pooch, Mechthide, Schulling, Mercen, God, Johanns, Wayne, Pietertje, Both, Johnson, Waller Ling, God offer, good size. County and the state of the head of the herd. His dam, Pafort 7th, Grand Champion at The head of the herd. His dam, Pafort 7th, Grand Champion at The head of the head of the herd. His dam, Pafort 7th, Grand Champion at The head of the head of the head of the ferent for the sevent of the sevent for th

WM. SLAGHT,

BEALTON ONT SALE HELD UNDER COVER.

## DISPERSION SALE

## 40 HEAD HOLSTEIN-FRIESIAN CATTLE

At MADOC, MARCH 25th, 1910

Including the great bull, SARA JEWEL HENGERVELD'S SON, whose dam has an A.E.O. butter record:
in 7 days of 28.12 lbs.; in 30 days of 110.18 lbs.

and the only cow in Canada that ever produced in official test one hundred pounds of milk in one day.

All the females old enough are bred to this great bull, and by the time of the sale there will be 30 calves sired by him.

Catalogues will be ready by March 1, 1910. Positively no reserve

Stages connect with C.P.R.at Ivanhoe and C.O.R.at Eldorado for Madoc, and willdeliver on date of sale all intending purchasersat my farm. The G.T.R.r.uss into Madoc, and arrangements are complete for transportation from T.R. a station to the farm.

Col. D. L. PERRY, Columbus, Ohio, J. A. CASKEY, Prop. Auctioneer Madoo, Ont.

Cheap Rates on All Railways

### FARM AND DAIRY crop when it is growing in the field.

AND RURAL HOME

Published by The Rural Publishing Company, Limited.



FARM AND DAIRY is published every Thursday. it is the official organ of the British Columbia, Manitoba. Eastern and Western Ontario, and Bedford District, Quebec, Dairymen's Associations, and of the Canadian Holstein, Ayrshire, and Jer-sey Cattle Breeder's Associations,

SUBSCRIPTION PRICE, \$1.00 a year, SUBSCRIPTION PRICE, \$1.00 a year, strictly in advance. Great Britain, \$1.20 a year, For all countries, except Ganada and Great Britain, and 50c for postage, A year's subscription free for a club of two new subscription.

No new subscribers.

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de banks.
4. CHANGE OF ADDRESS. — When a hange of address is ordered, both the ld and new addresses must be given. old and new addresses must be given.

5. ADVERTISING RATES quoted on application. Copy received up to the Friday preceding the following week's issue.

6. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles.

CIRCULATION STATEMENT

The paid subscriptions to Parm airy exceed 8,050. The actual circula Dairy esceed \$8.55. The actual circulation of each issue, including copies of the paper sent subscribers who are but slightly in sent subscribers who are but slightly in each sent subscribers who are but slightly in each sent subscribers who are but slightly in each sent subscriber and each subscriber and

OUR PROTECTIVE POLICY

We want the readers of Farm and Dairy want the readers of Farm and Dairy want the readers of Farm and Dairy was the readers of Farm and Dairy was the readers of the reader

### FARM AND DAIRY PETERBORO, ONT.

### CONSTITUTION OF FIRST-CLASS SEED

What constitutes first-class seed? There is a great difference in seeds, even those classed as No. 1. We cannot be too careful therefore in making selections from samples from which we will ultimately secure a supply for the spring seeding.

In the eyes of the law, No. 1 seed may be defined first as being comparatively free from noxious weeds-those black-listed by the Seed Control Act, 26 in number. As much as one noxious weed seed is allowed to every 1,500 of the good seeds. This figures out for red clover 12 weed seeds per ounce or 192 a pound. This rating is fixed by the Governor-in-Council and is liable to be changed at any time. This allowance is termed "a margin of tolerance," and is more for the protection of the seed dealer than to act as standard.

No. 1 seed should be absolutely pure. It has become possible to get such ing to their work and life, the chances seed in limited quantities from farmers are all in favor of successful realizawho sow pure seed and weed out the tion of their ideals.

Seed merchants with their up-to-date machinery can extract from fairly clean lots the weed seed impurities and make such seed, from the purity standpoint, first-class.

Another requirement of first-class or No. 1 seed, so far as the law is concerned, is that 99 seeds in every 100 shall produce useful plants. If seeds of foxtail, trefoil or lady's-thumb, often found in red clover, constitute, along with other weed seeds more than one per cent., such seed is barred from grading No. 1. Ninety per cent. of the seed should grow. If the clover seed be fresh and it does not contain too many shrunken discolored brown seeds, it is most likely to give a germination of 90 per cent.

Points other than those mentioned should also be considered. No. 1 seed should be uniform, large and well colored, indicating maturity. It should be as far as possible free from other kinds of seeds. For instance, red clover seed which contains more or less timothy and alsike should not be considered as good as seed all red clover. One should not pay red clover prices for timothy seed, not to mention weed speds

All points considered, provided the price is not too high, No. 1 seed will be found to be the cheapest grade on the market. It is the grade to buy. Even with the best grade it is well to have an analysis made in order to make certain that one may not unwittingly introduce noxious weeds upon his farm. In this connection remember that the Seed Branch, Department of Agriculture, Ottawa, will test seeds free of charge and that samples may be sent there by mail free of postage. Don't hesitate to take advantage of this service.

### LABOR---FARM VS. CITY

The farm labor problem so far as the laborer is concerned is dependent much upon the point of view. It depends upon his idea of what constitutes success. If the prime object of a man's life is pleasure, such pleasure as comes from idle hours, then the farm, under ordinary circumstances, ill compares with the brighter side of life in cities. If one seeks pleasure, that kind derived from the satisfaction of work well done, from health, from a good living and from what in years turns out to be a competence -property and a substantial income, then the farm stands peer above all callings.

The labor problem discussed unfairly by "Subscriber" in Farm and Dairy, March 3rd, is well answered this week by "Countryman." Any one not firm in his own mind as to the comparative opportunities of farm and city workers should ponder well the points raised by "Countryman." The farm rightly managed has in the past upheld its own. Prospects for farming were never brighter than they are to-day. A brilliant future awaits young farmers. With proper application of the information that is available pertain-

### THE NATIONAL COUNCIL OF # grow; it yielding in favorable seasons AGRICULTURE

The need for an organization, national in character and representing the farmers of the Dominion, has at last led to the formation of such a body. It is called the National Council of Agriculture. The project was discussed and endorsed a few months ago at the annual meeting of the Dominion Grange held in Toronto. The United Farmers of Alberta have lately endorsed the project, thereby completing the organization.

Hitherto, our farmers have been organized on different lines in the various provinces or have been without organization of any kind. Each provincial organization where such has existed, has felt the need for a national body. The New National Council of Agriculture is composed of the Dominion Grange, which is really the Ontario Grange, the United Farmers of Alberta, the Saskatchewan Grain Growers' Association, and the Manitoba Grain Growers' 'ssociation. While each of these provincial organizations will retain its present character they are all linked in the National Council of Agriculture. This is going to make it possible for the farmers of the four provinces to unite in making their views known on national questions.

The farmers in each province must now set to work to strengthen their local organizations. Those provinces that still lack a provincial organization should organize as speedily as possible. In Ontario there is great need for the strengthening of the Grange. Our farmers' clubs might well unite with the Grange. As organized at present they lack independence and the cohesion that affiliation with the Grange would give. The National Council of Agriculture has many difficulties to overcome before it can become as strong as it must be if it is to represent our interests as farmers effectively. We will have only ourselves to blame if we fail to do our part by supporting our provincial organizations.

### THE POPULARITY OF ALFALFA

Alfalfa is said to be one of the oldest plants known to man. It has come down through the ages, yet strange to say only in isolated cases has it become thoroughly appreciated and understood save in recent years. Alfalfa has become the great forage plant of various states of the American Union. It is now enjoying an increased popularity in Canada. Last year, it would appear that it was more widely grown in this country than ever before and this coming season bids fair for an increased acreage to be devoted to alfalfa.

The name "Alfalfa" is from an Arabic word meaning "The Best Fodder." Those who know it best accord it first place among fodders. Chemical analysis of prime alfalfa hay shows 11 pounds of it to equal 10 pounds have to be borne by our farmers. of bran. With bran selling at or above \$20 a ton, one need not be much of an arithmetician to be convinced that them to join in with you and form a alfalfa is a riost profitable crop to cow testing association?

three cuttings and an average for the season of four, five, or more tons to the acre.

So much for theory, how does it work out in practice? Those who follow the most approved cultural methods realize to the full all that is claimed for alfalfa. Others who fail to observe even the minor points essential for its successful culture, come short of realizing a full crop, and wth some it fails completely.

Soil conditions should be the first consideration if one would grow alfalfa. It must have rolling, well drained soil on which water will not stand. The success of alfalfa is enhanced through inoculation with nitroculture, which supplies the bacteria so necessary to its welfare. It may be sown with or without a nurse crop. These points have been and are dealt with from time to time in Farm and Dairy by men of practical experience.

Alfalfa is not a crop that any one an grow. It is useless to sow it on flat low land. Where there is a possibility of it succeeding, a trial plot a few acres in extent should be seeded. Alfalfa being such a valuable crop where it will succeed, considerable effort is warranted in getting it established. After having given it trial on a small acreage, one is in a position to judge of the area that can be devoted to it with advantage.

### AUTO DRIVERS MAY BE CURRED

The Ontario Legislature may rest assured that they have the backing of their farmer constituents on the bill to regulate automobile traffic that was before the house last week. Drastic legislation against reckless driving is necessary. Chauffeurs must be brought to understand that their right to the road is altogether secondary to that of the pedestrian and the horse driver.

It is fortunate that this bill for which Mr. Valentine Stock (Perth) is sponsor, received sympathetic support from both sides of the house . It may become law. The bill was approved of by the Legislature on its second reading and passed on to the committee. The bill when it becomes law, as it should, will give those with horse driven vehicles, in a measure, the protection they have so long needed.

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The farmers in a number of constituencies are arranging for the holding of public meetings during the Easter vacation when their members in the House of Commons will be called upon to explain the navy proposals This is a wise move. Similar meeting. 97 might well be held throughout the country. There are a good many members in the House of Commons who would soon find themselves in deep water if they tried to argue their stand on this question. They have followed their leaders blindly and know but little about where the proposed expenditures may lead to and what proportion of the burden will

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Agriculture in Nova Scotia\*

E. S. Archibald, B. S. A., Truro. As a province we realize the need of agricultural advancement in every branch. Probably the greatest need is agricultural education, and I assure you that the work of the Canadian Seed Growers' Association is very market Seed Growers' Association is very materially aiding us in the solution of this problem. Not in the advancement of seed interests alone, but also in other matters, is this association demonstrating the advantages of modern farm practices, such as shorter rotation of crops, superior tilage, the handling of fertilizers and allied problems.

lems. The question of drainage is extremely important with us, and the action of the N.S. Government along this line might come under the category of experiments. We have purchased a drainage machine and propose for the coming year to survey and dig drains for farmers at nominal prices, in order to stimulate this much needed operation. There is also proposed a loan to farmers, who desire underdrainage, yet who cannot find ready cash for the same. This as yet has not materialized, but in general has not materialized, but in general the same is similar to that of the Ontario Government, and promises well. tario Government, and promises well.

tario Government, and promises well.

All these problems must be considered in order to form a solid foundation, and maximum returns from the control of the CROP IMPROVEMENT

rapid progress of improved seed in Nova Scotia.

As there was a strong demand from our farmers for greater attention, to variety tests, registered seed, fertilities feel seed in the like, our department at such as the like, our department of the seed of the same. The results of the same. The results of the same. The results of the same in the setting and valuable facts. In The seed of the same, the seed of the

Amongst the farmers of our province there is a wide variation in rates of seeding of oats, varying from two to six bushels per acre. Although the season of 1909 was not advantageous for the stooling of oats, yet banner oats seeded at the rate of two bush-oats seeded at the rate of two bushels per acre, gave the heaviest yields;

at the same time, maturing grain, which weighed heavier per bushel, and gave a lower percentage of hull. I would like to hear the experience of Fartis, Klinck and others regarding and the petween rates of seeding and the seed of seeding the seeding the seed of seeding the seed of seeding the seed of seeding the seeding the seed of seed of seeding the seed of seed of seeding the seed of seeding the seed of seeding the seed of seeding the seed of seed of seeding the seed of seeding the seed of seed of seeding the seed

SIX BUSHELS PER ACRE MORE.

ark Bushels Per Acre More.

We also conducted an experiment regarding the comparative yield of heavy versus light seed, as it came from a first-class grain grader and stream of the seed of the seed

### Farm Accounting

Farm Accounting

A simple, convenient and practical way of showing the gains and losses of the year's work on the farm is something that every on the farm is one thing that are simple and easily understood. Specimen accounts are given and its pages are gotten up in such a way that if records are kept, it would be an easy matter to know whether the farm is paying in every department or whether some branch of work is being carried on at a loss.

The accounts in the Farmer's Records all present farm work, extra pages are proteen of farm work, extra pages are proteen of farm work, extra pages are placed in the farm of the farm

them.

This Farmer's Record Book consisting of 50 pages, is bound in red cloth. It is given free for one renewal or for one new subscription to Farm and Dairy. Those who are in the farm account book and all the work of a farm account book and all the work of the farm account book and all the consistency of the farm account book and all the properties of the farm account book and all the properties of the farm account book and all the properties of the farmer of the farmer of the farmer's Record Book, free, under the conditions named above.

\*Part of a paper read at the recent annual meeting of the C. S. G. A., Or-lawn, Oat. DON'T PUT OFF



## SEPARATOR MISTAKES

Good men have made bad mistakes in a "Separator" way. Rectify at once by trading in the mistakes. on the

# DE LAVAL Cream Separators

They Correct Them

THE BEST! No matter how you look at it.

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WINNIPEG

VANCOUVER

## Do You Know How You Stand?

Many farmers never know where they stand at the end of the year, whether they have made money or not? They do not keep any record of their farming operations from one year to another. Are you one of this class of farmers?

## If So, Why So?

You can easily keep the best possible record of your financial operations, as well as a record of all crops, etc., by using one of Farm and Dairy's Record Books? These books are free, absolutely, in return for only one new Subscription to Farm and Dairy. Some one farmer in your neighborhood does not take Farm and Dairy. Get him to subscribe to-day. Secure a record book free for him, and also one for yourself as a premium. Tell him he will get the Record Book also. We will send free, one book to you and one book to the new subscriber whose name you send us. Our supply of these Record Books is limited. Better send in new subscription to-day. Address:

CIRCULATION MANAGER.

### FARM AND DAIRY

PETERBORO, ONT.

# Amalite ROOFING

### Will End Your Roofing Troubles



IF you will write to-day for a free sample of "Ama-tite" the end of your roofing troublesisinsight. After you have submitted it to every test that you can think of, you will be pre-pared to order it not only for your new huildings, but for your old roofs as well. You will and that it is them with Ama-fite than to continue painting and and repairing

We make a strong point of ple" offer because the smallest sample of Amatite speaks for itself. It is more convincing than yards of talk.

There are all kinds of ready There are all kinds or ready roofings on the market—to-called "rubber roofings," so-called "guarantee roofings," so-called "sand surface roofings."

The "rubber" roofings are no more made of rubber than a cow is made of saw-dust. The "guarantees" that are promiscuously antees" that are promiscuously antees are than the more than the same thanks are handed out with many brands are

hedged around with so many provisos that it will take three lawyers to dissect them and find out what they are all about. The "sand surface" has little or no protective value.

The point to remember is that all of these roofings have to be pointed ever year or two to keep them tight. In other words, it is the point the roofing. He proved and not the roofing. If proved and not the roofing. If proved the roofing is a roofing if the roofing if the roofing if the roofing if the roofing. Amatic, on the other hand, has a surface of real mineral matter and we sell the goods on the broad and we sell the goods on the broad actuement that you need never coat or paint this roofing.

You can lay Amatite on a roof and then forget all about your roofing troubles. No painting, no coating, no worry. The man who puts Amatite on his buildings is insured against leaks and trou-ble for many years.

### Free Sample

If you have any doubts about the matter and want to investigate our claims, send for sample a d booklet to day. The sample tells its own story; the booklet is written for practical men. It hits straight from the abundle. straight from the shoulder.

Address our nearest office.

THE PATERSON MANUFACTURING COMPANY, LTD. TORONTO MONTREAL WINNIPEG VANCOUVER

### GET IN EARLY

The Special Dairy Number will be out April 7th. This is going to be a big number, and you should not fail to get your copy here is plenty of time. Out this advertisement out and keep it as a reminder. Get your copy here at least a week before issue comes out. This is going

# **NOW IS THE TIME**

To look over your equipment and find out what you need for your 1910 season. The time is drawing near when orders will be rushing in at break neck speed, and the sooner we receive your order list the quicker you will receive your supplies and the more satisfactory they will be to you

Remember we will give you the best value for the money of any firm on the market.

Drop us a line for quotations. Do it to-day while you have it in mind.

### R. M. BALLANTYNE, Limited Dairy Supplies. STRATFORD, ONT.

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

# **пессологососососососо**

Creamery Department
Butter makers are invited to send contribution its the department, to ask questions on making
and to suggest subjects for dramating
Address letters to Greamery Department,

### Let Patrons Demand Right Methoda

Editor, Farm and Dairy: Regarding the question of weighing or measuring the samples of cream for the Babcock tester, I think that its acknowledged by all who have made comparisons, that weighing is the more accurate method.

We have used the scales in our work for over a vear and previous to using

We have used the scales in our work for over a year and previous to using the scales we tested our pipettes by weighing 18 grams of cream at various different qualities from 20 to 40 per cent. We had at that time a small scale used for making alkaline solution. On it we could weigh one sample at a time. We found practically no difference when the cream tested between 20 and 30 per cent. Between 30 and 40 per cent, we found a difference of from one to two per Between 30 and 40 per cent, we found a difference of from one to two per cent,—weighing the samples giving the higher tests.

Occasionally we have found a dif-

ference in pipettes, so we decided to ference in pipettes, so we decided to use the scales altogether. As a re-sult of their use we have had on the average a slightly lower percentage of over-run, due to the higher read-ings of the tests obtained by weigh-ings. However, that is not the main question. First of all is the question of justice, and justice can be dealt to each and every parron by the hon-est and careful use of the scales in sampling.

umpling.
Surely it is not required that the Surely it is not required that the creamerymen of Ontario be compiled to deal justly with their patrons, but rather that just as some as they are aware of right methods they creamerymen or patrons who are so blind to their own interests that they will not see, why not let them suffer?

Let the patrons demand up-to-date and right methods and it will be unnecessary to enact laws of compulsion concerning this industry. There is the principle of seeking the best well.

necessary to enact laws of compulsion concerning this industry. There is the principle of seeking the best welfare of all to be considered and compulsory and prohibitory laws are often necessary for the best welfare of some who will not or cannot look after their own best interests.—W. G. Medd, Hurson Dr. Guille. on Co., Ont

### The Pipette all Right

Inte Pipette all Kignt.

Editor, Farm and Dairy,—Having followed the discussion on scales vapipete in Farm and Dairy I say that my experience has being late of the with the pipette and I and altogether with the pipette and I and statisfactory for all kinds of cream. If you have a cream testing anywhere from 16 to 25 per cent., I find that if one tests those samples over again there is practices. those samples over again there is practically no variation with the pipette, but when you go up to 35 and 40 per cent., then there is sometic slight variation in two samples tested from doubt in my mind but that if the high testing cream were tested fresh that the pipette would be perfectly accurate. e samples over again there is prac-

I have had no experience with the scales but if I was going to stay in the butter business I would like very well to try them as I think they would

well to try them as I think they would be more accurate for gassy cream. Some have the opinion that the creamery business will never be right till every farmer has a Balcock tester of his own; but, sir, I think that there is only about one in every 10 who would handle it properly if he had a Balcock tester.—Jas. Walker, Butter Malan Bayes Co. Onk. Babcock tester.—Jas. Wa Maker, Bruce Co., Ont.

### Creamery Work in Eastern Ontario

J. F. Singleton, Creamery Instructor, Kingston

The creameries which I have visited during the past season are situated largely in the counties of Ontario and Victoria.

largery in the countries or Unitario and Victoria.

The make for 1909 was about the same as that of the previous season, some creameries showing a slight increase in make, while others show a slight falling off. The average selling price of butter for the season was slightly lower than that of 1908.

My work and time during the past season has been entirely under the direction of the chief dairy instructor, Mr. Publow, and I visited the creameries at such times as instructed to do so by him. In all I spent about 60 days on creamery work, travelling, calling on creameries and creamery patrons.

rons.

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The butter, as a rule, has, in y Judgment, been fairly well made during the past season. In a few creameries there was some slight unevenness of color in the first few days' make, but otherwise the work, as far as was within control of the maker, was usually well done. The flavor of the butter was not all that is desired, but in only one creamery, as far as I know, only one creamery, as far as I know, has there been any serious trouble in this respect. About 55 samples of butter were tested for moisture content, and showed an average of 13.63 per 13 ter were tested for moisture content, and showed an average of 12.63 per cent. The moisture content usually ranges between 12.5 per cent. and 15.5 per cent. In three of the samples tested the moisture content exceeded the legal limit of 16 per cent.

### THE ABILITIES OF MAKERS

The makers are, as a rule, quite empetent men, men who in many cases competent men, men who in many cases own the creamery they are managing, and have had a long experience in the business. Of the 16 I visited, seven were dairy school; graduated, and five had not attended a dairy school. The two or three map of the 16 whom I consider pour men are included in the last five, and these men should take some steps to make themselves more proficient in their work.

make themserves more proneiest in their work. The creameries are generally clean and sanitary, with good water and good and sanitary, with good water and good sanitary, with good water and good sanitary, which good water and good sanitary and sanitary

### HAULING OUTFITS

HALLING OUTHTS

Two of the creameries use individual cans, one only is using the tanks, and 13 are using the particle cans, which are, except at one detected cans, which are, except at one detected cans, which are considered that the commendity of the commendity o

when delivered in individual cans.
One creamery provides turpaulin covers to protect the gathering cans from sun, rain and dust, and its is something with which every cream waggorshould be provided.
Practically all of the cream is collected only twice a weak. It would be taken the control of the cream is collected only twice a weak. It would be the cream is collected only twice a weak. It would be the cream is collected only twice a weak.

Practically all of the cream is col-lected only twice a week. It would be better were it collected three times each week, yet it appears that the business must expand in the average creamery before it will be profitable to gather oftener than twice a week. Cream can be delivered sweet and in good condition and only gathered twice a week if a fairly heavy cream is separated and properly cooled.

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Cheese Department

Makersare invited to send contributions to this department, to ask questions on matters relating to cheesemaking and to suggest subjects for discussion. Address letters to The Cheese Maker's Department.

### Annual Meeting Kerwood Factory

The ninth annual meeting of the Kerwood cheese and butter factory was held on the 23rd day of February. Mr. Gec. S. Hull, one of the many prominent and successful dairy farmers, was appointed claiman, who

many prominent and successful dairy farmers was appointed chairman, who called the meeting to order was read and adopted the general business concerning the patrons of the factory was transacted. Those patrons who were disastished with the management during the past year came forth like real men and presented to the proprietor men and presented to the proprietor and other patrons the cause of their way that the proprietor was the proprietor of the proprietor was very anxious to know what caused his test to slide up and down as if it were test to slide up and down as if it were greased. The proprietor mentioned many reasons which might cause tests to vary whereupon the anxious party many reasons which might cause tests to vary whereupon the anxious party sat down feeling quite at ease. Sev-eral patrons were troubled with the same disease but after understanding the many things done on the farm that caused tests to change they seemed quite satisfied.

The question of paying for chee test was voted upon and carrie by test was voted upon and carried by the patrons. The proprietor was re-appointed both salesman and sec-retary. (He does this work absolutely free of charge). If some man was hired to fill these two appointments as is customary in other factories the work could not be done for less than \*\*e277.

work could not be done for less than \$8375.

The speakers present at the meeting were Mr. Moore R. Isaacs, of the Union Casein Co., of Philadelphia; Mr. Spencer of the Port Huron Creamery Co. These men both endeavored to interest the patrons in their respective propositions. Mr. Burgess of the Cow Testing Association and Mr. Thompson, an up-to-date farmer from near Woodstock, who has been greatly benefitted by the Cow Testing Association both ably addressed the meeting.

The annual report which was printed in good form and distributed to the patrons, showed that the make of cheese for the past year had been 79 tons, 1,011 lbs.; average pounds milk per pound of cheese 11.18; average price received for cheese for the statement showed that a 1se butter statement showed that a 1se butter statement showed that a control of the past year showed that a statement showed that a least of 209,022 lbs. had been made for which an average price of 24.98 cents had been received.

### A Larger Milk Supply

A Larger Milk Supply
C. F. Whitley, in Charge of Records,
Ottown
Patrons of cheese factories and
creameries need not only to see to it
that the raw material is delivered in
the best possible condition, but that
a large and steady supply is furnished.
Can any means be taken to increase
the production per cow or per acre?
The answer to that query implies a

## Black Watch

Chewing Tobacco Rich and satisfying. The big black plug.

knowledge on the part of every dairyknowledge on the part of every dairy-man as to just what each cow in his herd can produce. Does any stable nowadays furnish free quarters and good feed to cows that have no in-

good feed to crows that have no in-tention of girm more and that have no possibility may not and that have no possibility may not make the last every dairman quite certain that each cow in his state to make sure of that vital point, it is may sure of that vital point, it is may not attent for building a profitable houn-dation for building a profitable houn-dation for building a profitable houn-dation for building a profitable the tent of distinguish and dispose of any non-paying guest, and feed each select-ed cow up to her full capacity of production. Through a continuous cheek on the yield of each individual cow many herd owners have been en-abled to increase the average yield to increase the average yield by as much as 1,500 and 1,800 pounds by as much as 1,500 and 1,500 pounds of milk per cow in three years. Forms for recording weights of milk, or feed will be supplied free on application to the Dairy Commissioner, Ottawa.

### Dairying In Simcoe District, 1909

Geo. Travis, Tillsonburg, Instructor Geo. Travis, Tilisonburg, Instructor
The territory known as Simcoe District, covers a tract of land along the
north shore of Lake Erie about 50
miles long and an average of about
20 miles wide, and is composed of
South Norfolk, East Eigin, a part of
South Oxford and a small part of
South, Reant Brant.

In this space we have 30 cheese fac In this space we have 30 cheese factories, one creamery and one milk condensery. Twenty-three cheese factories are owned by private individuals; seven by joint stock companies. The number of patrons sending milk to cheese factories is about 2,800. The fargest amount of cheese made at one factory was about 220 tons, the small-factory was about 220 tons, the small-factory was about 200 tons, the small-factory good dairying a specialty, and the property of the control o tories, one creamery and one milk condensery. Twenty-three cheese fac-

On the other hand, there are many poorer farms of lighter soil. Smaller herds are kept, which means that the factory owner must cover a larger terherds are kept, which means that the factory owner must cover a larger territory at a great expense to get enough milk gathered to do business at all. The cost of hauling milk in the second of the second problem. Many of the factory possessed invested in their factory business. They are try their factory business together that they might be part on the factory of the factory men must necessarily go out of the business.

GENERAL CONDITIONS.

Owing to the very dry weather and Owing to the very dry weather and poor pasture last season in some parts there was a general falling off in the milk supply. The quality was very good generally, quite an improvement compared with the vear before. The condition of the milk cans is better. Old and rusty ones are gradually being discarded and replaced with new ones. That old can that once was used no longer appears.

ones. That oid can that once was used no longer appears.

The majority of whey tanks were kept cleaner than the year before. Some do not get the attention they should. Where whey tanks were kept clean little or na trouble was experishould. Where whey tanks were accelerable or no trouble was experienced with off flavored cheese. This enteed with oil mayored cneese. Inis should prove to a certain extent that many of the bad flavors which have appeared in cheese originated in the tit is desirable to mention the name of this publication when writing to advertise

unclean whey tank. The pasteurizing system is without doubt a very great improvement, and is the proper way to treat whey to get best results. If pure clean milk is expected from patrons, factory men and makers should see that nothing but clean whey is returned to the man who ate the cow, then choked on her tail.

turned to them
It just takes one man to keep the
tank clean at the factory, so that his
100 patrons (more or less) may have
clean whey returned in
whereas if dirty polluted where tankturned he is running a bundred
chances to one if all these cans will
be thoroughly sterilized before milk
is put into them again. Besides the
maker cannot expect an evening blessing from his natrons if be puts dirty. maker cannot expect an evening bless-ing from his patrons if he puts dirty, greasy, polluted whey in their cans. So let the factory men set an example by observing cleanliness at the factory

by observing cleanliness at the factory beginning at the whey tank.

BETTER MILK, DETTER CHEESE.

The style in which the cheese are finished varies greatly. Some makers are experts along this line, and deserve credit for the manner in which they finish their goods—smooth bandages, straight seams, uniform in size and attractive in appearance at first glance. On the other hand, some show the mark of carelessness—wrinkled bandages, crooked seams, uneven in size, lop-sided, rough edges and unentractive in every way. While the quality of the latter may be equality as good as the former, the chances are that they are not, for this last mark of carelessness arouses suspicion. The maker who has been supplied with good milk that will make a good quality of cheese, then spoils straight seams, uniform in size

### JOHN HALLAM, TORONTO DAIRY SEASON

IS NEARING

Mr. Dairyman make a resolve to write for Samples and Prices of

PURITY SALT The Salt that Satisfies

Write today to Department "A."

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

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

HELPER-Wanted for cheese factory. Apply, W. B. Thomson, Woodburn, Ont. FOR SALE. -3.000 lb. De Leval Cream Sep arator in good condition, \$100. Rotars pump, \$15.-J. Mayhew, Renforth, Ont.

pump. sis.-J. Maynew, tenforth, Ont.

WANTED-Cheese makers the coming season to sell subscriptions to Farm and
Dairy, Peterboro, Ont. Good cash commission for each subscription taken.
Dairy, Dreinstein Manager, Farm and
Dairy, Dreinstein Manager, Farm and
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party Cheese Complex Statistics of the Complex Statistics of t







### PERFECT STEEL CHEESE VAT

Our 1910 Steel Vat is going to be just a little better than ever before Can't improve much over last year—it was a dandy. The tin linguage in this year's as will be 20 gauge the heaviest ever used—4 gauges the heaviest ever used—4 gauges where than your local tinament was a sained, and then painted was a sained, and then painted with the control of the will be sainted and then painted with the control of the will be sainted and then painted with the control of the will be sainted and then painted with the control of the will be sainted and the painted with the control of the will be sainted as a sainted and then painted with the control of the will be sainted as a sainted and the painted with the control of the will be sainted as a sain

THE STEEL TROUGH AND MACHINE CO., Limited





ME need only obey. There is guidance for each of us and, by lowly listening, we shall hear the right word.



### The Ways of Providence

By Agnes Booth

SUNNYSIDE Farm was in the state of collapse, usual at the close of a busy season. The lawn was worn bare in spots, the flower-beds showed an utter absence of blossoms, the kitchen-garden was stripped to naked-ness, there was a regrettable dearth of young male society in the chicken

of young male society in the chicken runs, even the cows wore a weary air and chewed listlessly as if they real-ized the hardships of life and sym-pathized with the other denizens of a loyless world, loaded with trunks and bags, had been followed down the dusty road by the Sunnyside carryall and the borrowed buggs, conveying the last of the summer boarders to the station to catch the eleven-thirp

the station to catch the eleven-thiry city-bound rain.

Luella Whitman sank upon the ground near the doorstep, the perfunctory smiles of bon voyage fading from her face.

"Sit down, ma," she urged, pulling her mother's dress-skirt. "For goodness' sake, sit down! It'll be the first time since last May."

The woman smiled down upon the girl, but there was a pathetic air of weariness about her.

girl, but there was a pathetic air of weariness about her. "I don't know but I've forgot how," she confessed, "and I'm afraid if I once get down I'd never be able to stand up again." Luella stretched out her young

stand up again."
Luella stretched out her young
limbs luxuriously and made the most
of her opportunity to rest.
"I hope Mrs. Parker won't starve
before she reaches home! She said
she wanted just a trifle of something
to stay her appetite in case the train
should be delayed, but she told me
different things to put into the box
until I had put up lunch enough for
greediest ships denier. In it she they reediest thing you ever saw in your

"If a proper of the question as one which she deemed it unkind to her patron to consider, "for Mr. Parker gave me five dollars over, because, he said, he knew that Mrs. Parker had made a good deal of extra work for us and he felt as if he wanted to make it up to us in a way."

"If forgive her everything," cried Luella joyousty, "if he did that, for we can put that in with the piano money, can't we, may"

Mrs. Whitman looked perplexed, for this was a new problem for her.

Mrs. Whitman looked perplexed, for this was a new problem for her. "To my wondering how I can get that five away from the rest without your pa noticing it, for maybe he wouldn't like it." she said. Luella sat up excitedly. "Why take it away, of course. Here, give it to me, ma!" and the girl stretched out her hand eagerly.

"I can't, Luella, it's in with the rest—he owed forty-five dollars and he gave me a fity-dollar bill and either that would make us square."

She sat awkwardly down beside Luella and shook the bills out of an envalue into her lan.

ella and shook the bills out of an envelope into her lap.

"There's the fifty," touching it tenderly as she put it out near the edge of her apron, "forty-five of it board money and five for us—you and me, Luella. He said so particularly.

him this five in change," and Luella seized a five-dollar bill and waved it about in triumphant solution of the problem

Mrs. Whitman's worn face bright-ened, but only for a moment, as she realized the obstacles.

realized the obstacles.

"I couldn't say that, Luella," she objected, "for it wouldn't be true; besides your pa would know better, for Mr. and Mrs. Parker and Muriel went with him in the carryall—the other boarders hadn't come down. Your pa knew none of 'om had paid to the paid of the paid of

Luella groaned as she saw the hope-lessness of the situation, and put the coveted five-dollar note back into her

coveted five-test actuation, and put the mother's lag-test into her mother's lag-test into her mother's lag-test into her mother had been as a superfect of the mother, whispering also, for it was their most guarded secret.

"If we could only have the five to put with it we'd have a hundred—and then, only fifty more to get—Oh, ma, we must have this five! We've just got to think of some way to do it." If don't see how I could see the country of the mother was the see her in the see that the country of the see her in the see that the country of the see her in the see that the see her in the se

their most guarded secret.

"If we could only have the five to put with it we'd have a hundred-and then, only fifty more to get—Oh, ma, we must have this five! We've just got to think of some way to do it."

"Mar. Whitman murmured thought-fully, "Manage!" repeated Luella, her face flaming with unwonted anged."

"Manage!" repeated Luella, her face flaming with unwonted anged with the board money ever since we began taking boarders, and for goodness' taking boarders, and for goodness' aske, who earns it if you and I don't? I'm sure pa doesn't do any that we will be too late to do anything about it."

"Mar. Whitman still hesitated. Her mind was slow to grasp the deduction of it? The whole seventy-try cent of it? I

"Don't get excited, daughter,"
Mrs. Whitman spoke soothingly. "I
don't think Allen meant any
harm when he spoke soothingly. "I
have been a spoke soothingly."
He was the spoke soothingly spoke spoke
"Probably" returned Luella with
hot sarcasm, "but I notice he always
called Muriel Parker "Miss Parker,"
and she is only twelve!"
"Let's roll this up and count our
ninety-five again," Mrs. Whitman
suggested, trying to lead away from a
subject which she saw was distasteful
to Luella.

to Luella.

subject when ane saw was distanced to Luella.

They counted the precious money twice, lingering long over each bill, smoothing out imaginary wrinkles, and finally making it into a compact roll again. Luella snapped on the elastic band with a decisire air, but the question had not yet been solved. "We must get that five out some way. Oh, ma," she cried eagerly, "we can put that fifty in with other way. The control of the provided his property of the provided his provide

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"Pa Whitman, You're the Meanest Man That Ever Lived"

There's the five and the two that Miss Martin paid and the ten and five that Mr. Allen paid."

Mr. Allen paid."

Luella counted it all over carefully.

"Fifty and seven are fifty-seven, and ten is sixty-seven and five is—
Why, ma, sixty-seven is all you've got to give to pa; keep one of the fives and we're all right!"

"But your pa," returned the mother in But your pa, "returned the mother anxiously, "will be sure to know that is five more than anybody owed."

"Yes, but, ma, this is the way that is five more than anybody owed."
"Yes, but, ma, this is the way that happened: Mr. Parker paid you the fifty, and you, of course, had to give

"Maybe you don't want it to go in with the piano money." Luella's tone was full of disappointment. "Mr. Parker gave it to you, and you do need a lot of things yourself..."
"No, no, I want it to go for the piano, Luella. You know I want you to have that piano as much as you want it vourself. I've looked forward to it for years. Here, you fix it, quick, before your pa comes."

(Continued next week).

(Continued next week).

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Have you forgotten to renew your subscription to Farm and Dairy?

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lways rker, t our rom a steful noney bill,

npact the but olved. some gerly, our

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Let Let ou've just f we then thing

ssion

The Binding Tie

(Concluded from last issue)

(Concluded from last issue)

"I've some important work to attend to today" he are not involved.

"but I'll come home or yet, the firm and he did come, work, but he along a mediately sought rest, but no aleep came to him, for the child could and went upstairs. He spoke in misory.

"Elizabeth, I must aleep. My head is throbbing now. Can't you keep the baty quiet." What does he want?"

"My entire attention," answerd Elizabeth. "Go downstairs, Doane. I'm going to take him out for a little white."

while."

Elizabeth knew now that the baby
must be removed temporarily. He dehanded constant amusement except
when sleeping. If Donne needed quiet
Elizabeth realized that he could not
get it at home if the baby should remain

main.

It hurt her to arrive at this conclusion, that she must take the child to her sister. But it had come to this: either Doane or the baby! So sadly she packed the little belongings and dressed the child.

dressed the child.

dressed the child.

When she returned her eyes were pink but her lips formed a resolute line. Doane lay sleeping peacefully, and she stooped and kissed him. Even when saleep he put out his hand and sought for her lips for the companionship. Doane and Elizaleth took delightful rides into the country. The tried man lay stretched beneath the trees and his wife sat close beside him. Once Doane spoke sadly.

"Ours isn't the tie that binds, is it. Beth?"

Beth?"
Elizabeth caught her breath.
"It hasn't been, Doane," she answered, "but it will be. When you know him better you'll like him."
"Beth!" he exclaimed, and his eyes were misty. He thought of the desperate fight through which she went some months since, when he prayed that she might live.

some months since, when he prayed that she might live.

"Yes. Doane," his wife went on, "he will bind us closer now. We'll work together for his good. If you feel that sternness is best for him, then you."

feel that sternness is best for nim, then you—"
"We'll not talk of that," interrupt-ed Doane, "but I'll be glad to see him at home again."
Elizabeth's face lit with rare beauty at his words. How passionate-beauty at his words. How passionate-ty devoted she was to the child, thought Doane. But there was no jealousy in the thought. She put her hand on his.

love you, my husband," she said y; "never again shall we move softly;

softly; "never again shall we move apart."
When baby came home he opened loving arms to his mother, but he would not leave her. Doane sat watching the mother and child. He was stronger, and he felt that with Elizabeth's love and confidence he could do anything.
When the child's bedtime came Elizabeth undressed him, lingering tenderly over the beauty of the white neck and arms.
"He should go right to sleep," said

"He should go right to sleep," said Elizabeth softly.

"Let us put him in his crib then, dear," said Doane. He looked at her wistfully. "Do you want to rock him?"

Whatting, 100 you want with the process of the control of the cont He spoke in a low tone to the crib. He spoke in a low tone to the little inmate, but the cries continued.

"Can you stand it, Beth?"

"Yes, dear," she replied. Then she crept closer to him and again slipped

dready intends to withhold a good and we thus a way of the best too honest to de wrong, are not so likely to proper in use of the plant of the same of the period of the property of the period of the The fault lies in our tendency to discount the glorious promises of God. When, as in our text, we are told that if we delight ourselves in the Lord He will give us the desires of our heart we are apt to act and talk as if we believe that God intends to give us only some of those desires. When we read the assurance that "no good thing will He withhold from that walk uprightly" (Psalms S4, 11) we are prone to suspect that

Oats; the results would soon show themselves in improved conditions of health and strength.

## Premiums for the Housewife



Morris Reclining Chair, solid oak rrame, with quarier-sawed oak arms. Frame, with quarier-sawed oak arms. The color, strongly construct on the color, strongly construct on the color, strongly construct of crimson with the color, strongly construct of crimson the color of the co

Open Book Case, ha.dwood. rich golden surface, oak finish, 57 in. high, 26 in. wide, 13 in. deep. brass rod for curtain and rings, well made and constructed, three adjustable shelves.

For only Seven New Yearly Subscriptions to Farm and Dairy, at \$1.00 each.



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A beauty, worth winning. Sure to

Write Circulation Department, Farm & Dairy, Peterboro, Ont., for Sample Copies

### A WORK FOR HORTICULTURAL SOCIETIES AND THE SCHOOL

(S. Silcox, in The Canadian Horticulturist)

When a country has been dended of its primitive forest and artificial who has done good work in connection who has done good work in connection produces have placed natural vegetable growth, it there is a small city school in the way of the inhabitants to beautiful for the covariant artificial way of and unattractive landscape with a real conduction of the conduction of the covariant and shrubbery. Any one who travels through Ontario will discover that people have lived in house for ten, fifteen or twenty years and have planted nothing to make they expect that it will be allowed to seeds of any of the seed-bearing plants those houses homes in the

This is more inexcusable when we consider that within a mile or two of any house in Ontario may be found shrubs, vines and annuals which could easily and successfully be trans-planted to the grounds of homes or schools, where they would transform the barren surroundings into bowers of beauty. The reason this is not done is due to one of two things, ignorance or lack of interest in anything better than that which exists, or probably to both.

What can be done to change this state of affairs? It seems to me that there are only two organizations in Ontario which can bring about a change but these crganizations are equal to the task. They are the public school and the horticultural societies and the latter will do their

the child, even a little, to see the beauty of color and form in the world



Outhouses and Fence Covered with Morning Glory-Work of School Children

Boy's yard, Manitoba street school, St. Thomas, Ont., Miss A. McColl, Principal. All the work done by pupils of first and second book classes.

and the latter will do their
best work by using the former for the
medium of transmitting their views.

Of course this means that school gardens should be established in commetion with our schools, more particular
erty of their neighbors.

"Anything that opens the eyes of



School-house Bare and Unadorned]

improved opportunity, and there are hundreds of others like it in Canada.

"We also have a few plants in our windows throughout the winter. These give a cosy look to the room and serve as a rest for tired eyes. "Incidentally the children learn the value of birds, bees and beneficial income as a second of the forms."

vatue of birds, bees and beneficial in-sects: also something of the forma-tion of soil. We rake and then burn the leaves and old plants on one of the beds, the ashes being thus preserv-ed for a fertilizer or bury the leaves (all but the first to fall which are burned to destroy the insects) that they may decompose and so enrich the soil."

It may be well to sound a warning note, through the medium of Farm and Dairy, against the false nature study which teachers are so apt to restudy which teachers are so apt to resort to in the ordinary class room. About seventy-five per son of the leasons in this subject are resort to interest as seasons in this subject are goography or literature, because they are not the result of the children's experience nor do they incite the children's experience nor do they incite the children's caperience with nature first hand. Let this be the test of success in mature study—more outdoor study and less class-room work, more beauty created and less talk about the beauty of creation.

### In the Kitchen

Do not let tea and coffee remain in

Do not let tea and coffee remain in the paper bags they come in, or they will be their flavor. All stores should be the state of their flavor. All stores should be the state of their flavor of their paper bags and pure state of their paper bags and pure the state of their paper bags and pure state of the state of t

burning.

In buying table linen remember that
In buying table linen remember that
In buying table linen remember that
French loses its gloss, which is its
French loses its
John lose its

anywhere else as at the old break.

break.

In packing bottles, first see that the corks or stoppers are securely fixed. Then slip the securely fixed and the stoppers are securely fixed and the stoppers are securely fixed and the stoppers of clothes, taking care that they are not in contact with anything hard.

. . A Popular Premium

A Fopular Fremium

One of the most popular premiums that the women readers of Farm and Dairy are interesting themselves in is that of the finner set, which is given for a club of nine new subscriptions. The last winer of one of these premiums is Mas Daisy Warnock of Algoma district. Miss Warnock writes Farm and Dairy as follows: "I received the dinner set for securing a club Farm and Dairy as follows: "I received the dinner set for securing a club of nine subscribers to Farm and Dairy all gight and am more than-pleased with it. Two of our friends happened to be visiting at our house one after

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When a bottle of glue or cement is opened, rub mutton tallow or cold cream on a sound cork before inserting it; then it will not atick in the neck of the bottle and break when you try to draw it out. The glue will also remain liquid. Glass stoppers may be treated in the same way.



Are you using WINDSOR

BUTTER SALT?

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### THE COOK'S CORNER

Recipes for publication are requested. Inquiries regarding cooking, recipes, etc., gladly answered upon request, to the Household Editor, Farm and Dairy. Peterboro, Ont. #88888888888888

CLEAR STOCK

Stock forms the basis of many soups and meat sauces. Any bones and trimmings of roasts, steaks and other meats may be used. Cover with cold water, allowing 1 qt. water for every pound of meat and bone, add sait, and boil gently for several hours. Add boiling water from time to time, as the stock boils away. When cooked sufficiently, take out the meat and bones, and strain the liquor through a fine white cloth wrung out of boiling water. The stock may be kept in a stone jar in a cold place for two or three days.

### WHITE STOCK

WHITE STOCK
To 4 lbs, knuckle of veal add any
poultry trimmings, you happen to
have on hand, a lices of lean ham, 3
carrots, 2 onion lead of celery,
12 white perpercorns, lade of mace,
a bunch of herbs, 2 oz. shade of mace,
a bunch of herbs, 2 oz. shade of mace,
a bunch of herbs, 2 oz. shade of mace,
a bunch of herbs, 2 oz. shade of mace,
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BROWN STOCK.

Proceed in the same way as for white stock, substituting beef for veal, and add any remnants of gravy, trimmings and broken up bones of any other meats.

### VEGETABLE STOCK.

VEGETABLE STOCK.

Boil together 2 oz. kidney beans, 2 oz. split peas, 1 onion, 1 carrot, 1 stick of celery, some parsley and herbs, pepper, salt, 5 cloves, one blade of mace, and 2 qts. water. Let boil 2 or 3 hours, then strain. This stock may serve as the basis for many good summer or service. soups or gravies.

### CONSOM ME.

CONSOMER.

Chop 1½ lbs. lean beef, add 1 onion and 1 carrot, stir in 4 eggs, shells and all, and 3 qts. cold, clear stock. Put in a granite or porcelain kettle and let come to a boil, then stim throughly. Boil slowly 15 or 20 minutes, then strain through a clean, white cloth wrung out of boiling water. This soup is delicious, and clear as aimber. clear as amber.

ciear as amner.

Clean and joint a large, fat fowl and put in boiling water with a little salt. Cover closely and cook slower that the salt. Cover closely and the salt cover closely and the well washed during the last hour. Remove chicken from the liquor and thicken the latter with a little flour. Add a lump of butter and serve hot.

Add a lump of butter and serve due.

MUTTON MOOTH.

Put 2 necks of mutton in a soup keettle with 1 gal. cold water, bring to boiling point slowly, skimming off all impurities that rise to the surface.

After this add 1 carrot, 1 turnip, 1 leaves stack with 3 cloves, 2 bay stack with 3 cloves, 2 bay leaves stack with 3 cloves and cut them in small cubes and set aside. When yegetables asid to taste. When vegetables are the colors and cut them in small cubes and set aside. The cloves and to the said to the in small squares, and set aside. Strain in small squares, and set aside. Strain in small squares, and set aside. Strain the soup liquor, let cool, remove fat, and then return clear soup to the fire. Add ½ cup well washed pearl barley, and cook gently until the barley is touder, then add the dieed vegetables and cook gently until the barley is enough for 6 rs persons.

CAMBAWAY CAKE

chouga for 0 or 9 persons.

Two cupfuls of sugar, % cupful of butter, ½ cupful of water, ½ tear-poonful of soda and four cupfuls of four. Sprinkle with two-thirds of a tablespoonful of carraway seeds.

SPECIAL SPRING FASHIONS

Realising the great interest that our readers take in the new spring styles, we have arranged to give special attention to the pattern department of Farm and Dairy for the next two or three weeks. Look over the Illustrations in the fashion department and send your not seen the style Illustrations advise us, and we will do our best to get it for your full you do not see the style Illustration and the second of the second pattern desired. Address, Pattern Dept., Farm and Dairy, Peterbrony, Ont.



The waist that is worn with a deep fitted girdle makes one of the later fancies. This one is laid in fine tucks and is especially well adapted to thin materials.

Material required for medium size is 3½, yds 21 or 27, 1½, yds 24 in wide, with 1½, yds 18 for the yoke and lower portions of the sleeves, 3½, yds of banding.

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

### MISSES' COATS 6592



Coats of such length as this are among the newest and smartest.

Material required for 16 yr size is 5 yds 27, 2% yds 44 or 2½ yds 52 in wide, with 11/2 yds of silk

The pattern is cut in sizes of 14 and 16 will be mailed for 10 cts.

### PRINCESS PETTICOAT 5956



The petitions is full enough at the lower edge for comfort yet is perfectly plain at the waist line and over the hips while the corset cover is just full enough at the front to be pretty beneath thin materials.

Material required Material required for medium size is 2% yds 36 or 2% yds 44 in wide, with 4 yds of wide edging, 3% yds of narrow, 2% yds of insertion and 2% yds of beading.

ing.

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

### GIRL'S TUCKED DRESS 6573





wide.

The pattern is cut for a 32, 34, 36, 38 and 40 in bust and will be mailed on receipt of 10 cts.

### NINE GORED SKIRT 6578



The simple plain nine gored skirt is one that is always needed. It is admirable for wool mater-

Material required for the medium size is 11 yds 27, 5% yds 44, 51/2 yds 52 in wide. The pattern is cut

for a 24, 26, 28, 30, 32, and 34 in waist, and will be mailed on receipt of 10 cts.

### DRESSING JACKET 6003



Such a pretty dressing jacket as this cannot fail to find a welcome. It is dainty and attractive, it is absolutely simple and it is peculiarly well adapted to the incoming

Material required for medium size is 3% yds 21 or 24, 21/4 yds 32 or 1½ yds 44 in wide, with 7½ yds of banding, 3% yds of edging.

The pattern is cut in sizes for a 32, 34, 36, 38, 40 and 42 in bust, and will be mailed on receipt of 10

### FRENCH CHEMISE 6052



The long waisted frock is always becoming for younger girls.

Material required for medium size (10 yrs) is 4½, yds 2d cr 27, 3½, yds 23 cr 2½, yds 44 in wide with 2½, yds of which insertion, 3½ yds of narrow.

1. pattern is cut yds 36, 2½, yds 44 in wide with 2½, yds conduction ydd insertion, 3½, yds of narrow.

1. pattern is cut yds 36, 2½, yds 44 in wide, with 5½, yds of and 12 yrs, and will be malled on receipt of 10 cts.

The pattern is cut in three sizes, small, medium and large, and will be malled on receipt of 10 cts.

#### TUCKED BLOUSE 6585



BLOUSE 6885
Lingerie blouses
are exceptionally attractive this year,
and here is one of
the best. The shallow
round yoke is pretty
and smart, but neithnarrow banding.
er it nor the trimming is necessary,
for the blouse can be
without as is
shown in the small

where is the small Material required for medium size is 35, yds 21 or 32, 25, 25 with 45, yds 32 or 2 yds 44 in wide with 45, yds of The pattern is cut for a 34, 62, 83, 40 and 47 in bust and will be mailed on receipt of 19 cts. view

### MISSES' FIVE GORED SKIRT 6570



GORED SKIRT 6578

The plain gored skirt is plays need to skirt is may not lead. This plays need to designed for young girls and will be found appropriate for all skirting majority and properties of the skirting majority o

### GIRL'S DRESS 6588



Simple dresses such as this are always smart and practical. They are adapted alike to wool materials and to washable ones and they can be trimmed in various ways.

Material required for medium size is 6% yds 24, 4% yds 32 or 3% yds 44 in wide, with % yd 27 in wide for trimming.

The pattern is cut for girls of 6, 8, 10 and 12 yrs, and will be mailed on receipt of 10 ets.

### BLOUSE OR SKIRT WAIST 6571



The shirt waist that is made with a yoke over the back extended to conceal the shoulder seams, the shoulder seams, is a favorite one. This one can be either tucked or gathered at the front, and the yoke can be used or omitted.

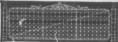
Material required for medium size, 3½ yds 21 or 27, 3 yds 32 or 1½ yds 44 in

The pattern is cut for a 32, 34, 36, 38 and 40 in bust and will be mailed for 10 cts.

The electrically-welded, solid-piece frame gives strength and stiffness to

### Peerless Farm and Ornamental Gates

We build Peerless Gates to last a life-ime-handy, convenient and attractive, hey remain staunch and rigid through li kinds of rough usage. The frame is



tubing electrically THE BANWELL HOXIE WIRE FENCE CO., Ltd., Box H, Hamilton, Ont., Winnipeg, Man.

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Section and Flexible All-Steel Harrows with an unequalled record A large variety suitable for the requirements of any country, made in different widths to suit purchasers. Pre-eminently the most efficient, strongest, and longest-wearing Harrows ever manufactured, is our unqualified guarantee. A Harrow bargain it will pay you to know more about. Free descriptive circular furnishes the facts.

Write for it to-day. Address Dept. K TOLTON BROS., Ltd., Guelph, Ont.



With progressive farmers it is no longer a question of whether or not to buy a manure spreader. Good spreaders have already proved their value. The real question is—which one will net you the most profit?

The I H C line answers that question. Among the many styles and sizes, you will find one that just meets your needs.

# C Manure Spreaders

embody all that is best in manure spreader construction-all that makes for greatest manure profits. They have strength in abundance to withstand the hardest usage; they are simple, sure and steady in operation; they work perfectly with fertilizer in any condition; they are exceedingly light in draft.

I H C manure spreaders are made in three styles; each style is made in three sizes, ranging from 30 to 70 bushels capacity. Corn made in three sizes, ranging from so to 70 bashers captainty.

King spreaders are of the return apron type; Cloverleaf manure spreaders have endless aprons. Two styles of feed are furnished either ratchet or double pawl worm gear. There is an I H C to suit each requirement—large sizes for large operations, medium sizes for the average farmer, small sizes for orchards, vineyards—for every condition. I H C spreaders have lime hoods to spread commercial fertilizers; drilling attachments to distribute manure in rows. Whatever I H C spreader you buy will pulverize and spread manure or com-mercial fertilizer perfectly. You will find it durable, and it will net

mercial fertilizer perfectly. You will find it durable, and it will nex
you big dividends on your investment.

Manure is the cheapest and best fertilizer but it must be handled and spread
right or most of its value is wasted. You must have an I H C manure spreader
to get 100 per cent value out of the manure. I H C spreaders are doubling the
crops of others. The one that suits your needs will do it for you.

See the local International agent, or write the International Harvester Company of America at neares' branch house for catalogue and full information.

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Ottawa, Regias, Saskatoon, St. John, Winsipeg, Yorkton.

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### HOLSTEIN-FRIESIAN NEWS

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

E. Laidiaw & Son have amounced their big sale for March 30th, when they or-fer as good a herd of grade cows as any in the Dominion. They are backed by milking and show ring records, as every animal that has freshend has a record animal that has freshend has a record animal that has freshend has a record that the sale of the sale

to buyers as it will be a regular clearing sale.

CATILE IN FINE SHAPE FOR THE

STALE.

The Holstein caStale.

The Holstein castale are to be offered by public ancetion on March 5th
at Madoc by Mr. J. A. Caskey is perhaps
the best lot of young dairy cows everoffered for sale at public anction in Onfered by bornucopia.

Albun De Jeffers sired by Cornucopia.

From a two-year-old helfer with first

From a two-year-old helfer with first

From a two-year-old helfer with first

From and she is doling that without

milkings and she is doling that without

producing over 40 pounds the same age is

producing over 40 pounds and pro
testing better than four per cent. fat.

Two other helfers, the same age, prom
testing better than four per cent. fat.

Two other helfers, the same age, prom
testing better than four per cent. fat.

Two other helfers, the same age, prom
lest to dever the same age, prom
producing over 40 pounds and the same may be

all of profitable of the same and the same and are hard to beat as show cows.

Mr. Caskey's cattle are all in good,

thrifty condition and may well be called

a working dairyman's herd. It has not

of 1936 and and and a proper serve when the pro
grade of the same and the pro
profitable chees factory cows, and as

such he has succeeded, as the factory

records for years will show. In 1935, 13

records for years will show. In 1936, 13

records for years will show. In 1960, 11

Albun De 101

Albun De 201

Albun De 201

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Albun De 201

Albun

use.

All the cattle offered will be sold, there being no reserve whatever. All interested in Holselins will find it to their control of the control of the

The Lynden herd of Holsteins is headed by the richly bred stock bull Korndrie with the richly bred stock bull Korndrie William and the William



A lame horse is a dead loss, Spayin, Curb, Splint, Ringbone, Swollen Joints and Bony Growths won't cure themselves. Yet you can cure these troubles and make your lame

# **Spavin Cure**

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

Mounds, P.O., Olds, Alta. "I have used Kendall's Spavin Curefora number of years with great success, and I think it can't be beaten as an all-around stable

liniment for Kicks, Strains, Swelling of all kinds, Ringbone and ARTHUR FLETCHER.

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

Dr. B. J. KENDALL CO., Enosburg Palls, Vt.

### NORTHERN

The Forest and Mineral Wealth of Northern Ontario has attracted many people from all parts of the civilized world.

One-ninth of the world's reported output of Silver in 1908 was taken from Ontario mines.

New discoveries of undoubted rich ness are being constantly reported from sections far distant from the far famed Cobalt. Yet a more certain reward is insured to the Settler who acquires for himself

#### 160 ACRES OF THE RICH ACRICUL-TURAL LANDS

now open for settlement and made accessible through the construction of Railways and Colonization Roads.

#### THE FERTILITY OF THE SOIL IS UNSURPASSED

The Timber is in demand at a rising price. Mining, Railway and Colonization Road Construction, Lumbering, etc., afford work in abundance to those who have not the means to remain on their farms continually. These also provide a market for farm produce at prices unequalled anywhere. Cochrane, the Terminus of the T. & N.
O. Ry., on the G.T.P. Transcontinental
Railway, now under construction, is
the same latitude as the southern part
of Manitoba, and 800 miles nearer the
samband.

Mi sh sh sh

he for que to he and and on pure and and turr fow

scaboard.

That the experimental stage is past is clearly demonstrated. The country is rapidly filling up with Settlers from many of the other Provincs, the United States and Europe.

For information as to Terms of Sale, Homestead Regulations and for Special Colonisation Rates to Settlers and for Settlers' Effects, write to:

### D. SUTHERLAND The Director of Colonization PARLIAMENT BUILDINGS, TORONTO

HON. J. S. DUFF

Mention Farm and Dairy when writing.

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TO

### MARKET REVIEW AND FORECAST

Toronto, Morday, March 14.—Activity in all department of commerce is the outstanding feature. In the consequent and the consequent activity in the consequent activity in the consequent activity in the consequent activity of the consequen

a perfectly clear sky will greet dealers in stocks and bonds. General trade conditions are very en-couraging, and money continues fulry easy. Call money rules at 5 per cent.

casy. Call money rules at 5 per ceni.

WHEAT.

The wheat market has been see-aswing all the week, owing to rumours and contradictions of rumours in regard to the definition of the wheat crop. It has been clefful the wheat crop. It has been cheful the wheat crop. It has been contracted to the contract of the consequence is that a good deal of the bullishness has been taken out of the bullishness has bullishness has been taken out of the bullishnes WHEAT.

### COARSE GRAINS.

Trade is quiet in all classes of grain, and prices methanged from hast quotations. Oats, unbanged from hast quotations. Oats, unbanged from hast opposite to the control of Trade is quiet in all classes of grain

### HAY AND STRAW

HAY AND STRAW

The offerings of hay are still light, and good prices are being realized. Such loads of timely hay as have come on the market durin hay as have come on the market durin hay have tweek have found ready purchasers and the state of the stat

quality.

MILL FEEDS.

The trade in mill feeds is quiet. Manitoba bran is quoted at \$2.50 to \$23 a ton; Ontario bran, \$2.50 to \$24 a ton; Ontario bran, \$2.50 to \$24 a ton; Ontario bran, \$2.50 at 000 to track, Toronto.

a ton on track, Toronto.

branker a ton ton track at the track at the track at the market is firm and Manitobaros.

But the track at the

### EGGS AND POULTRY.

Generous supplies from the States are helping to keep the prices of eggs down for the farmers, and fresh laid eggs are quoted now on the Toronto market at dozen in case lots. On the farmers' method laid eggs are quoted at 30c to 35c and storage at 20c 22c and occur.

quoted at 30 to 35c and storage at 25c to 35c a dozen.

Montreal is also feeling the effect of Montreal is also feeling the effect of a constant of the state of

The following are the present quota-

Prices are continuing firm in butter on the local market, and creamery prints are quoted at 28c to 30c; separator prints, 24c to 25c, and tub butter at 16c to 17c a

lb. On the farmers' market choice dairy butter is quoted at 28c to 38c and tub butter at 24c to 27c a lb. The trade is steady in cheese and large are quoted at 13c and twins at 13½c.

The market for butter in Montreal is firm and two cars of expensers butter.

The market for butter in Montreal is The market for butter in Montreal is The market for butter in Montreal is not to easy the form of the

### POTATOES AND BEANS.

POIATOES AND BEANS.

The farmers are making in their supplies of potatoes, with result that the prices are lower with the

In Montreal the market is quiet a seans are quoted nominally at \$1.95 2 a bushel.

draft horses, \$150 to \$220; expressers, \$175 to \$250; agricultural horses, \$130 to \$170; drivers, \$100 to \$220; serviceably sound horses, \$60 to \$80.

#### LIVE STOCK

There is a heavy demand for cattle in the local market, but the supply has not been adequate, and high prices have been the rule. In Wednesday's and the price of the price of the price of the Cattle, 150 fogs. 50 sheep and lambs and 120 calves. Following are the quo-tations:

tations:
(Choice exporters—86 to 88.35; medium,
85.65 to 88.65; bulls, 84.75 to 85.05; cows,
84.75 to 85.00;
Butchers' cattle—Choice, 88.65 to 85.90;
medium, 85 to 88.25; ordinary, 84.50 to 85.
81cokers—Choice, 84.25 to 84.50; medium,
84 to 84.15; ordinary, 83.50 to 84.60; bulls,
82.35 to 83.75.

82.25 to \$3.25.
Milch cows—Choice, \$50 to \$65: medium, \$15 to \$40; canners, \$1.50 to \$2.50; calves, \$3.75 to \$7.50, \$1.75 to \$2.50; bucks, \$3.75 to \$7.50 to \$4.25; lambs, \$8 to \$8.25; bucks, \$3.75 to \$7.50 to \$4.25; lambs, \$8 to \$8.25; lambs, \$8

89.25 to 89.25.

There were generous consignments of hogs on the market last week, but depending the spite this fact the prices show no signs of declining. It looks as if we were going to see the tendollar hog on the Canadian market yet. The Trade Bullet London correspondent says: "Canadian bacon 70s. to 75s."

### PETERBORO HOG MARKET.

PETERBORO HOG MARKET.

Peterboro, Monday, March 14—Danish
hogs delivered on the English markets
last west totalled \$5,000 The demand for
bacon in the Old Count is only fair.
The delivery of hogs our the County of the County
was somewhat heavier last week. The
George Matthews Co. quote the following
prices for this week's shipments: f.o.b,
\$25.5 a cwt. weighed off care, \$9,55 a cwt.
delivered at abattoir, \$9,25 a cwt.

### MONTREAL HOG MARKET

MONTREAL HOG MARKET
Montreal, Saturday, March 11.—Supplies
of live hes
prices have been fromtined small and
prices have been from the state
bulk of the offerings selling at \$10 a.cm.
bulk of the offering selling at \$10 a.cm.
bulk offering the offering selling at \$10 a.cm.
bulk offering selling at \$10 a.cm.
bulk offering selling selli

### EXPORT BUTTER AND CHEESE

In Montreal the market is quite and beans are quoted nominally at \$1.56 to \$2 a bushel.

HORSE MARKET

The horse market is very active. Least week in one day at North Bay there were 50 carloads of horses counted, en quite for northwestern points. This tells of the provise for northwestern points. This tells of and should warn the farmers to guard she in Outstrain possible families in horse fiels in Outstrain possible families in horse fiels in Outstrain possible families and should warn the farmers to form more than one point of army mounts is being again felt inch of the probably 2000 boxes still owned on the probably 2000 boxes still owned on in Englands inch in Stock in store here owned in Englands in all about close as more, making in all about close as more, making in all about for army characteristics. The holders are getting and the probably appropriate the control of the probably and the probable families are probably and the probable families are made to the probable families and the probably and the probable families and the probable families

### THE BEST LINIMENT OR PAIN KILLER FOR THE HUMAN BODY

### Gombault's **Gaustic Balsam** IT HAS NO EQUAL

For i Perfectly Safe and Reliable Remedy healing, and for all of the Sores, Bruises Wounds, Felor Human Bunion Gaustic Balsam ha Body a Linimen for Sore Throat Chest Cold Backache

We would say to who buy it that it do not contain a par of poisonous subst and therefore no it can result from its ternal use. Persist application with

Neuralgia Sprains Strains Lumbago Diphtheria Sore Lungs Rheumatism and all Stiff Joints

REMOVES THE SORENESS-STRENGTHENS MUSCLES Write int some bottle Caustic Balsam of rheumatism mere good than \$120.00 paid tor's bills." my rheumatism mere good than \$120.00 doctor's bills."
OTTO A. P. Price \$1.50 per bottle. Sold by druggist by us express prepaid. Write for Bookles R. The LAWRENCE-WILLIAMS COMPANY, Teres nto Can

### OUR STICKNEY GASOLINE ENGINE



IN 10 MINUTES

Won't easily get out of kilter. POWER IS GUARANTEED Our Booklet o. 57 is full of

ONTARIO WIND ENGINE AND PUMP CO.

TORONTO, ONT.

and are inclined to shade prices somewhat in order to move the balance of their stocks, and although more money is asked, there is no doubt that the bulk of the cheese left here unsold could be pick-

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

GARTON'S REGENERATED ABUNDANCE seed oats. Had particularly good crop in 1909 from imported seed.—W. W. Bal-lantyne, Stratford, Ont. Phone.

# Make this 60-Day Test of Brantford Roofing--then Test Any Other Make



after special water-proof tosting, into which shife sand is rolled under pressure, is applied, becomes a solid mass of resistance. It is weather, acid, alkali, frost, water-proof. Cannoffreeze, crackor melt, wonderfully pliable, Brantford has but one cost—first. Write for free Book and Samples,

Brantford Rubber Roofing, No. 1, 2, 3, Brantford Crystal Roofing, one grade only, (heavy).

Brantford Asphalt Roofing, No. 1, 2, 3. BRANTFORD ROOFING CO., Ltd., BRANTFORD, CAN.

### HOLSTEINS

#### MAPLE LEAF STOCK FARM GORDON H. MANHARD Manhard, Ontario

Breeder of Choice Holstein-Frieslan Cattle
At present I will sell 20 young cows, due
to freshen in the early part of the winter.
Also a few young bulls. E:11-5:10

### HOMESTEAD HERD OF HOLSTEINS

Present offering-bull calves from high record cows and Dutchland Colantha Sir Abbekerk (Imp), whose dam and sire's dam average 31.83 lbs. butter in 7 days. Write for particulars.

EDMUND LAIDLAW & SONS Aylmer West, Ont. Box 254

### SUNNYDALE

Offers g. sons of Pietertje Hengerveld Count De Kol, the champion bull of the breed, the only one that has two daughters that have made officially over 32 has butter in 7 days. Book your orders now for calves to be born February and March Helens family. from good o Helena family

A. D. FOSTER, Bloomfield, Ont

#### LAKEVIEW HOLSTEINS

LAKEVIEW HOLSTEINS
One bull ready for service and a few
ready shortly. All sired by Count Hengerveld Fayne De Kol. as on of Pieterie
E Kol. who was the Market State of Pieterie
E Kol. Greamelle milk in one day, and 760 bis. in 7 days.
His viam, Grace Fayne 2nd (28,36 bis. butter in 7 days.) has a daughter, Grace
ter in 7 days. has a daughter, Grace
ords with 35,55 bis. butter in 7 days, fat
arranging 5.4 per cent. Visitors met at
Brotte, G.T.H., or Trafalgar Orossing.
Hamilton Hadden.

E. F. OSLER, Bronte, Ont.

### GLENSPRINGS HOLSTEINS

ONE BULL CALF, three months old, from a dam that gave 12,70 lbs. last One cut to You've that gave 12,70 lbs. last One of You've the cording to value as producers. (E-7-21-10

E. B. MALLORY, Frankford, Ont.

### LYNDALE

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

In Canada.

SARA SEWEL HENGERVELD 3RD,
SARA SEWEL HENGERVELD 3RD,
A. R. O. 2039 lbs. butter in 7 days, 121.37
lbs. in 30 days. These bulls are all from official record dams, some of them from official record damy, some of "Count De Kol Pietertje Paul," one out of a daughter of "Brightest Canary,"
E-2-21.

### BROWN BROS. LYN. ONT.

THE SUMMER HILL HEAD OF HOLSTEINS THE SUMMER BILL MEAD OF MULTILING some wonderful Records. This year it has produced the champion Canadian bred butter own for 7 days record of the control o

ed bull.

Come and make your selections AT
ONCE. Prices are right and everything
guaranteed just as represented.

Trains met at Hamilton if advised.

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

Farm Phone, No. 2471 Hamilton.

## HOLSTEINS

WINNERS IN THE RING

Gold Medal Herd at Ottawa Fair and

WINNERS AT THE PAIL

See Our A.R.O. Records

Just the kind we all want. They combine

CONFORMATION PRODUCTION

Bull and Heifer Calves for Sale from Our Winners

### LES CHENAUX FARMS

Vaudreull, Que.

Dr. Herwood, Prop. D. Boden, Mg

### HOLSTEINS

FOR SALE.—Cornelia's Posch, five times 1st prize bull at Toronto and London Fairs; also five of his sons, all from record of merit cows. Also females of all

THOS. HARTLEY, Downsview, Ont

### LYNDEN HOLSTEINS

Herd headed by Korndyke Teake No 5809. FOR SALE.—1 yearling bull, dam Lulu Glaser No. 5099, 12499.987 lbs. milk 465,173 lbs. fat, 260 days, 3.70 per cent, fat Also bull calves and females all ages.

SAMUE LEMON Lynden, Ont.

#### HILL-CREST HOLSTEINS

Bull calves it to head any herd for sale. Sired by "Pontiac Hermes" and "Sara Jewel Hengerveid's Son." Dams are grand young cows, with good udders and teats, and best of breeding. These calves are from one to two months old and will be delivered at your station. Also two young service bulls, one out of a 72 lbs. per day dam.

Q. A. BRETHEN, Norwood, Ont.

### FOR SALE, HOLSTEIN BULLS

One born Dec. 31, 1998. Dam's official record at three years old, 486 lbs. of milk and 21 lbs. of butter in 7 days. Bull calf born March 18th, 1999, dam Canadian Champion of her age; official record at two years, 434 lbs. of milk and 20 lbs. of butter.

DAVID CAUGHELL, Yarmouth Centre, 0 t

## NORTH STAR HOLSTEINS FOR SALE

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

J. W. STEWART, Lyn, Ont.

#### RIVERVIEW HERD

FOR SALE, 2 Bull Oalvee, sired by Sir Aaggie Beets Segis, son of King Segis, worlds greatest 5 year old sire, dam seg-worlds greatest 5 year old sire, dam year old-29.35 lbs. butter 7 days. Dam of calves a 20 lb. 2 year old, and 23 lb. 4 year old. Price reasonable considering breeding.

P. J. SALLEY Lachine Rapids, Que.

### AYRSHIRES

AYRSHIRES. — Record of Performance work a specialty; young bulls from R of P. cows, and cows that will go or at next freshening. Milk reports of dams, for everything. JAMES BEGG, Box 88, St. Thomas

FOR SALE-AYRSHIRE BULLS From one month to two years old; all bred from large, good-milking stock. Also Yorkshire pigs. Apply to

DANIEL WATT OR TO MON. W. OWENS, Manager, Proprietor, E-5-19-10 Riverside Farm, Montebello, Que.

### AYRSHIRES

Ayrshires of the right stamp for production combined with good type and quality. Write for prices. O-12-22-10

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

## SPRINGHILL AYRSHIRES

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

ROBT. HUNTER & SONS Long distance phone.

Maxville, Ont
E-7-1-1

### BURNSIDE AYRSHIRES

Having disposed of my 1990 importation.

I intend leaving about March 1st, for another lot. I expect to have a number of June. Orders entrusted to me will be of June. Orders entrusted to June. Orders entrusted entrusted to June 1990. The June 1990 in June 1990 in June 1990. The June 1990 in June 1

Burnside Stock Farm, Howick, Que CHERRY BANK STOCK FARM

# CHERRY BANK SIGUR FARMS FOR SALE—Full carrier a kired by Reierhall Milkman, the champion buil of Canada. One buil calf two weeks eld, sired by Morton Mains Queechy, Junior Champion at Toronto, 1988, and by Nethcrhail Dosis 3rd. a grand imp. hefer, and erhall Dosis 3rd. a grand imp. hefer, and erhall Dosis Jack. See the champion are best, is our motto. Visitors welcome. P. D. McARTHUR, North Georgetown Howick Station 0-6-23-10 Qu

ed up at from 12c to 12½c a lb., the lat-ter prices being asked for white cheese, which are very scarce. The market for butter is very firm, with

Mich are very searce.

The market for butter is very firm, with The market for butter is very firm, with the property of the p

Renew your subscription now.





Send for my and learn why these fas teners are being installed **PUBLIC** INSTITUTIONS

Dr. Bell's Veterinary Medical Wonder of lungs, bowels inflammation of lungs, bowels kidneys. The soth century wonder. Agents w in every county. Write for a free trial \$1 bottle effer only good for 60 days. Limited to 500 bott in every coun DR. BELL, V.S., Kingston, Ont.

### AYRSHIRES

"La Bois de la Roches" Stock Farm Here are kept the choicest strains of AYRSHIRES, imported and home bred. YORKSHIRES of the best bacon types. WHITE ORPINGTON, WHITE WYANDOTTES and BARRED ROCK Poultry.

HON. L. J. FORGET, J. A. BIBEAU, Proprietor Managor E-5-26-10 Ste. Anne de Bellevue, Que.

### STADACONA FARM Show a Record for 1909

Show a Record for 1909
At Three Rivers, Quebee's Provincial
Exhibition, at Sherbrooke, Ganadas Great
Exatern Show, at Ottawa, the Dominion's
large Gentral Pair, at Barton, Vermont,
large Month at Quebe, and All Gentral
Haltrons Combined.

Gattle of both sees and all ages for
each at very reasonable prices. 0,49,10

GUS. LANGELIER

### Stadacona Farm, Cap Rouge, Que MISCELLANEOUS

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

## SUNNYSIDE STOCK FARM

#### A GATHERING OF PRIZE-WINNING FARMERS

A GATHERING OF PRIZE-WINNING FARMERS
A great gathering of farmers who own prize winning farms and of their friends was held in Moose Creek, Stormont County, on Friday evening of last week. The occasion was the presentation of the prizes won by the farmers in District No. Darry, Most of the prize with the prize winner. The prize winner, I will be prize winner, Jack and with the prize winner, Jack and prize winner, Jack and Grant, Mrs. Auderson, of Dickinson's Landing: the Auderson, of Dickinson's Landing: the Auderson, of Dickinson's Landing: the Creek; the fifth prize winner, J. E. Caldwell, of City View, in Carleston County; the sixth prize winner, A. A. McLennan, and Mrs. McLennan, of Lancaster, in Glengarry County, and Mr. James Begg. Glengarry County, and Mr. James Begg. Glengarry County, and Mr. James Begg. The County of the proceedings was Mr. B. H. McDermid of Avonnor.

the Maxville I

was increased greatly by The interest was increased greatly by the fact that the wives of the prize win-ners were brought to the front and re-ceived the prizes jointly with their hus-bands. The husbands spoke in glowing terms of the assistance their wives had rendered them, not only in the competi-tion, but all through their married lives in the property of the property of the as well. Mr. Begr's description of how he and Mrs. Begr had gone on their farm as well. Mr. Begr's description of how he and Mrs. Begr had gone on their farm when it was nearly all brush and swamp, their struggles to clear the farm, with the struggles to clear the farm, with the final outcome, and his words of praise of their struggles of the struggles of the struggles of the struggles of the winning of the first prize in district No. 1, was something that those present are not likely to ever forget. Mr. Angus are not likely to ever forget. Mr. Angus composed forms. of Moose Creek, had composed forms. of Moose Creek, had composed forms. Of the struggles of the str

well.

Arrangements are being made for similar presentations at Churchville, and York Mills, in District No. 3. If there are any other sections where friends of the prize winners would like to arrange for public winners would like to arrange for public presentations, they can count on the assistance of the editors of Parm and Dairy is making it a success. Care should be taken to see that the ladies are given an example on the second of the section of the second of the secon opportunity to take part in the proceed

# REE-FARM ACCOUNT BOOK

Know How Much You Make This Year

ts. 64 pages; for ink or pencil. **BICKMORE'S** 

BICKMORE'S FARM **ACCOUNT BOOK** 

BICKMORE CALL CURE CO.

GALL CURE

a remedy that curves, and the horse works all the time. Users keep it in their stables the year round—they believe in it. It is always ready to the control of the control

Wingate Chemical Co. Ltd., Canadian Distributors, 45th



or on a Postal Card

Bicking F or m

Farm and Dairy

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prize public e as-Dairy ld be en au

WATERVILLE—In January, the soft wather was unusual, and plowing was going on in all directions. February was a month of continuous sleighing from before the soft of the second of the s

#### QUEBEC

SHERBROOKE CO., QUE.

SHERBROOKE CO., QUE.
LENNONVILLE.-Sap has been running
freely for a few days and many sugar
bushes have been tapped with prospects
for a good season. Beef is searce and
high, fee being offered for one choice lot
for April delivery. Pork is still at high
water mark and all farm products are
high esses. So: hunter. So: potatose, 86e
to 45e; [Own Linkelm, 20e.—H.M.

COMPTON CO., QUE.

COMPTON CO., QUE.

COMPTON CENTRE.—Super making is
coming on now. It has started earlier
than usual this season. The roads are
very poor and teaming will soon be over.
Beef and pork are scarce. Butchers are
paying from 4e to 6e a lb for beef, and
from 12e to 12je, for pork. Hay is very
scarce. It sells for \$12 a ton, and it is
hard to grea at these prices.—It. G. C.

#### ONTARIO

HASTINGS CO., ONT.

HASTINGS CO., ONT.

CIADMAN.—The supply of hay and straw seems to be sufficient for all local demands but there is little if any for expert. Choice hay sells for \$84 a ton in particular to the control of the control

mind for social work norses for the north-west.—H. PETERBOR CO., ONT.

NORWOOD.—Marked interest is being taken in the recently organized farmers' taken in the recently organized farmers' members as to which is the more profit able—grain-growing or stock raising, the verdiet going to the advocates of stock raising. The speaker at our meeting on Feb. 22, at which the president, Mr. Jas Andrews, presided, was Mr. H. B. Cowan, claimed that the reasons which control of the control of th

You Can't Cut Out A BOG SPAVIN, PUFF or THOROUGHPIN, but ABSORBINE

will clean them off permanently, and you work the horse same time. Does not billater or remove the har. Will not be seen to be seen

OUR FARMERS' CLUB CONTRIBUTION OF THE PRIVATE OF TH

VICTORIA CO., ONT.

VICTORIA CO., ONT.

BUHY'S GREEN, — Owing to the recent thus, the roads are fast breaking up. the control of th

HALIBURTON CO., ONT.

HALHRIPTON CO., ONT.

KINMOUNTP.-Cattle are wintering fairby well. There has been plenty of feed
so far. Four cars of heavy to the conshipped to the west during the last read
shipped to the west during the last read
shipped to the west during the last read
shipped to the read to the conshipped to the read to the conshipped to the west during the last read
spile, as there is no frost in the ground.
The sap is running very good. Tapping
will be general in another week. The
deep snow in the bush will make it an arThe price of butter and
stages still sarreal in another week. The
deep snow in the bush will make it an arThe price of butter and
still be general in another week. The
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WENTWORTH CO., ONT.

WENTWORTH CO., ONT.
KIRKWALL—Most armers will have
plenty of feed, but a large
somewhat short of hedding, socardy
anyone has sold their fat cattle for spring
delivery as yet, but are expecting the
price will be somewhat in advance of last
year, asthere are few cattle as compared
with other years. Hogs have now reached
the 89 mark and seem almost impossible
the 89 mark and seem almost impossible
lamb are 75/cs at land price. Yearling
lambs are 75/cs at land, 22 at lon, and
shorts, 834 at lon.—W. C.

BRANT CO. ONT.

BRANT CO., ONT.

shorts, 834 a ton.—W. C.

BRANT CO., ONT.

ST. CEGNIGE.—With the coming of the first spring month ani with such spring weather as we have had recently, one's thoughts go towards the land, and it is thought sgo towards the land, and it can be such that the stand clover in such first coming the stand thawing of the spring nights and days do more to destroy cross than all the frost and ice of winter. Fodder is becoming scarce in all time; the sheen a long and steady still there has been a long and steady such there has been a long senerally did not go into winter quarter; in as good fieth as usual. Several neighbors have been buying meal for their hogs for some time, the result of tryins are some time, the result of tryins are some time, the result of tryins and the standard of the standard steady with the standard standard that the standard standar

WELLINGTON CO., ONT.

METZ.—There seems to be a good supply of feed of all kinds on hand. The farmers are very much behind with their work on account of the deep snow, as some could not get their horses on the road. Hogs are worth \$8.75; cattle, 6c; eggs, 5c; thure, 26c; hay, 80 to \$22.—R. H. S.

OXFORD CO., ONT. 

## LIVE HOGS

We are buyers each week of Live Hogs at market prices. For delivery at our Packing House in Peterborough, we will pay equal to Toronto market prices. If you cannot deliver to our Packing House, kindly write us and we will instruct our buyer at your nearest railroad station, to call on you.

THIS WEEK'S PRICES FOR HOGS DELIVERED AT FACTORY

\$9.25 a Cwt.

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SOUTH WALSINGHAM. Hogs are selling for 89 a cwt.; beef, from 6e to 7e a bl; eggs., 25; ador; butter, 5c; wood, 81.0 to 82 a cord. Stock all looking well, feed and water pentiful. The greatest extended with the selling water for the selling water will in all propagation gal.—B.B.

ELGIN CO., ONT.

ELGIN CO., ONT.

ST. THOMAS. — We have had a fize, steady winter, over 70 days sleighing and no extreme cold. There is copients to a serious shortage of feed. Many farmers are buying hay already our spring crops last year owing to the wet spring, did not amount to anything, not even straw. Wheat was the only good crop. The acreage of hay was above the average, and of fine quality.—J. B.

MUSKOKA DIST., ONT.

MUSKOKA DIST., ONT.

GRAVENHURST.—The ice harvest is mostly all done. Cattle are wintering fine. Feed is holding out well. It has been a very poor year for bush work, not enough frost. Some are starting sugar making.—B. L.

MANITORA

MACDONALD CO., MAN.

MACHONALD CO., MAN.
DAODTAM—This size in as been exoptionally favorable with as. No extreme cold to report and thawing the last
few days. Farmers are nearly all ready
for spring work. Four 20 horse power
gasoline motors of the International Machinery Co. are being shipped into this
place for plowing and several smaller
crushing, etc. Grain is all shipped out,
all indications are for about the same
accusping some flax which is being held
for possible demand for seed later on.
All indications are for about the same
accusped of them. but large increase in
accusped of them.

ALBERTA

RED DEER DIST., ALTA. BURNT LAKE.—After a very mild win-ter and spring almost in sight, the dairy-men of this "Land of Sunshine" are look-ing forward to another successful season. All kinds of stock has wintered well and

will go on to the grass in fine condition. The make of creamery butter will be increased and the cheese output will be almost double that of last season.—T. B. M.

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best grade of platinlittle—it costs to get started and howextremely insignifi-cant is the cost um points. Perhaps when you of maintenance after once you do get going. understand what all these points After you have read mean, their importance and significance, you will understand why No. 1317 would be worth half as much again as the low price we ask for

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And it won't cost you one single cent to acquire the other information—we stand ready to give it to you for the asking. However, we will be a command the support of the single cent to acquire the other information—we stand ready to give it to you for the asking. However, we will be a continuous to the support of the single cent to acquire the other information we will generate the concern which has manufactured to the transfer of the "Northed you stands the reputation of the "Northed you can be a continued and you want to talk to you embodies not one single detail that is not right up to the wind the single detail that is not right up to the wind you can and you want to talk and the reputation of the property of the your contents used in the your contents used in the property of the your contents were an unaparty lines for rural use, our way want to talk and the your contents used in the property of the your contents used in the your contents were an unaparty lines for your property of the

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