

VOL. XXVIII

NUMBER 45

A PAIR

RURALLOM

PETERBORO, ONT.

NOVEMBER 11.

309



AYRSHIRES IN THE STABLE, ALASKA-YUKON-PACIFIC EXPOSITION, SEATTLE, WASH.

The herd exhibited by Mr. R. R. Ness, of Howick, Que., may be seen to the right of the illustration, the senior champion bull, "Bargenoch Gay Cavalier," in the centre of the passage way; herds of Messrs. R. Hunter & Sons, Maxville, Ont., on the left and "Willermoor Farm," Seattle, at the far end.

These cattle were a great attraction to the visitors. Note the well lighted

stable, due to the cotton roofing.

DEVOTED TO

BETTER FARMING AND
CANADIAN GOUNTRY LIFE

Sprung Spindles

NEXT to bowls going out of balance, due to wear and tear, or misuse, there is no other feature that is a source of so much trouble as the bowl spindle becoming slightly sprung. While this can happen only by rough handling, or accident, it is a frequent occurrence. Even if the spindle is sprung as little as one one-thousandth of an inch, it will cause a decided vibration, or jar, in the whole machine. The only thing to do is to send such a bowl back to the factory and have the spindle straightened.

The Self-Centering Bearings

used in the "SIMPLEX" Link-Blade Separators exclusively, overcome this trouble. reason is, that with the Self-Centering Bearings, the bowls are free to run on their neutral axis, instead of being confined by bearings to try to make them run on their mechanical axis, therefore they are independent of the location of the mechanical axis, and it makes no difference, so far as the running is concerned, if the spindle is slightly sprung. Of course, this does not apply to extreme cases, but it takes care of the average case as met

The Simplex Separator

is the only one now on the market that will always preserve its running qualities independently of the balance of the bowl, or the absolute straightness of the spindle.

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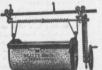
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EATTY BROS., FERGUS

It is desirable to mention the name of this publication

Cows and Cash

Is it not time that all dairy farmers in Canada came to think seriously or what might easily be accomplished by a little, a very little extra ef-fort? Very few wo.'d pass by the opportunity of picking up five or six five dollar bills if the conditions were not difficult. There is a huge sum of money waiting for owners

cows.

Not only is present cash value assured for the application of a little
brain power, but a solid and permanent improvement of dairy conditions, a distinct raising of the whole
status of dairy farming, a measurable
gain in contentment and self-respect,
a notable and envisible addition to our
reputation among the nations of the
quickly results and the self-respect
Unfortunately we have to go on reUnfortunately we have to go on re-

Unfortunately we have to go on re-cord even in these days of wide spread cord even in these days or wide spread and easily available dairy knowledge as owning lots of cows that produce only 2,800 or 2,500 lbs. of milk dur-ing their best six or seven months. Such cows are no credit to their owners, and such owners scarcely do owners, and such owners scarcely do-credit to the dignified title of dairy-men. As Canadians we should jealous-by guard against such a condition of affairs being possible. It is easy to detect those poor cows by recording weights of milk, and it is injurious to any district to retain such wretched specimens, mongrels not real dairy cows. The queen of the dairy, the select cow will do infinitely better if handled right by men who put dairy intelligence into daily opera-

To return to that pile of cash; if only half the cows in Ontario were made to yield just ten dollars more milk, it means an extra Five Millions of dollars within easy reach.—C.F.W.

Split-Log Drag in British Columbia

Editor, Farm and Dairy :- I note Editor, Farm and Dairy:—I note with pleasure the communication from D. James, York Co., Ont., (Aug. 26th last), referring to the work done by the split-log drag or King road drag. I would like Mr. James, or some other party familiar with the work done by Mr. Rittenhouse in Lincoln Co. to Mr. Rittenhouse in Lincoln Co. to favor your readers with particulars of work and results accomplished.

I like the suggestion that the Provincial Government make a grant for the encouragement, by means of comparing the suggestion of the grant for the encouragement, by means of comparing the suggestion of the sugg I like the suggestion that the Pro-

gested by Mr. James. I have rebated taxes to four parties who have undertaken and are using the drag, but it taken and are using the drag, but it is uphill work to get people to adopt and put into practice this simple and cheap method of maintaining earth roads.—N. F. Page, New Westminister Co., British Columbia.

The Canadian Navy

Editor, Farm and Dairy :- The proposai of the Canadian Government to posai of the Canadian Government to spend \$20,000,000 on the establish-ment of a navy is a very important issue at the present time and should be very carefully considered. I am not in favor of the proposed expen-ditures as I fail to see the advantages of such a course. Money would ac-complish much more good, were it event is holding rease conferences heused in holding peace conferences between nations.

not let it stand out boldly for peace! Why hold conferences and then turn around and build boats to kill the other fellows? Besides the expense in maintaining a fleet and the men on it could be used more advantage-ously in running many and varied in-

The will of the people should be ascertained on such an important question before action is taken.—C. H. Shuh, Waterloo Co., Ont.

Strongly Opposed to Navy

Editor, Farm and Dairy,—One of the first of its kind, and I believe one of the worst pieces of legislation that has ever been brought forward by our Canadian Government, is to by our Canadan dovernment, is be brought forward next session, and no doubt neither party will oppose it. But why? Because they would be called disloyal and for this reason we are to be brought to bear a burden are to be brought to bear a burden that no one can estimate. But, be that is it may, it is not the worst feature—not by far. War is never thought of in Canada and the idea of turning the attention of an in. dustrious people to even think of such, may have a far reaching and very bad effect on the nation that is making the greatest progress of any nation at the present time, and that without a navy.

Human nature is about the same, whether taken in a nation or in an individual. How would a farmer succeed who was spending more money on guns and ammunition than on farm implements? and then he and his sons spending their time training how to use those guns and boasting that he lion and cubs are going to keep the supremacy? Would he like the supremacy is the serious trouble some day when not expecting it? Lambton County is represented by two of the ablest men in Parliment, one on each side of the House. ment, one on each side of the House. Let us get after them on this question.—D. N. Anderson, Lambton Co.,

Farmers' Institutes

The dates for a portion of the regular series of Farmers' Institute meetings in Ontario have been announced These meetings are worthy of the support of all interested in agriculture. Not only do those who attend get informaton of value from the speakers bearing directly upon their farming operations, but they are also afforded an opportunity of discussing local conditions with their fellow farmers. In every locality there are one or more every locality there are one or more farmers who are producing grain, fruit, toots, stock, etc., at greater profit than the average farmer. A dis-cussion of methods and practices on the part of farmers in a community should prove most beneficial. Indeed, the discussion at regular institute meetings or at meetings of farmers clubs have proved to be most valuable in disseminating information that means dollars and cents to those tak-

perintendent Putnam reports the regular institute work during the past year as having been most encouraging. Attendance has been larger and a larger number of young men are taking an active interest in the

Members of the institutes in each lo cality should make it their business to invite their friends and neighbor to the meetings and assist the cers wherever possible. Such as do not manifest a keen intended in the institute work during the in the institute work during the co-ing season will be required to gi-assurance by the presentation of petition or by other means that meeting will be supported before k-turers will be sent in succeeding year tween nations.

At the rate the warship craze is going, our few boats would be of very little value. Canada is a peculiar country with a peculiar people, why

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A Heart-to-He

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er and the ad her methods practice by The phenomer regard to her it advisable fo range and de Commission to regard to this dairy industry tance. Since i success of the upon the milk age dairy cow, man who knows have doubled t dairy cows is of extracts from subject given a Dairy Show, he Mr. Helmer Ra man, Dairy Di ment of Agricu

Is it possible average product believe you will can be done. 1 titled to this op been through d and that is what want to get be Denmark just a rate to you what people go at the

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Vol. XXVIII.

FOR WEEK ENDING NOVEMBER 11, 1909.

No. 45.

THE POSSIBILITIES OF DOUBLING THE AVERAGE YIELD OF MILK PRODUCTION

A Heart-to-Heart Talk with Cow Owners on How the Danes have Doubled the Average Production of Their Cows-The Lessons Applied to Home Conditions

ENMARK can teach us much in regard to dairying. Her farmers are far in advance of Canadians in the matter of cow manage They have in a period of 23 years doubled the yield of the average Danish cow. How have they done it? Simply by systematic effort in selecting and breeding those cows only of high production.

There are many things in which Denmark excels. Her co-operative organizations are the wonder and the admiration of other countries. Indeed her methods are being adopted and put into practice by thinking agriculturists everywhere. The phenomenal success of this little kingdom in regard to her pork production was such as made it advisable for the Canadian Government to arrange and despatch, at considerable expense a

Commission to study her methods in regard to this great industry. The dairy industry is of greater importance. Since in the last analysis the success of the dairy industry rests upon the milk production of the average dairy cow, some comment by a man who knows, upon how the Danes have doubled the production of their dairy cows is of especial interest. Some extracts from an address, upon this subject given at the recent National Dairy Show, held at Milwaukee, by Mr. Helmer Rabild, Assistant Dairyman, Dairy Division, U.S. Department of Agriculture, follow:

Is it possible for us to double the average production of our cows? I believe you will agree with me that it can be done. I feel that I am entitled to this opinion because I have been through dairying in Denmark and that is what they have done there. want to get back in the history of Denmark just a few years to illustrate to you what can be done when people go at the work systematically.

In 1848-49-50 Denmark went through a very sad war. It lasted three years and while it is true they were victorious, it cost a lot of blood and a lot of money. In 1864 another war occurred and Denmark lost that war. She lost besides, a lot of the best men in the country. This war cost a great deal of money and it left the country with a big national debt. Land in Denmark is worth from \$500 to \$1,000 an acre. Taxes went up from one to five dollars an acre a year.

AGRIQULTURE HER ONE RESOURCE

Denmark has no other resources than agriculture; there are no forests, no mines of any kind, no shipping to amount to anything in those days, so the only resource was agriculture. This great national debt had to be paid by taxation of the agriculturists. Denmark had previously been en-

gaged in the beef industry; the farmers had grown corn, fed it to the beef cattle and shipped their cattle to England at a fair profit; but there came a day when the English dairyman thought he must raise his own beef and keep the money in his own country, so Parliament passed laws restricting the importation of Denmark beef. They passed laws quarantining beef for two to three weeks to two months, so that stopped the profit in the beef business. The Danish farmer stood without a resource. Now, it is necessary to have money to live, so a great many of the Danish farmers went bankrupt and a number came to this country to try and make new homes for their families, but when it looked the darkest help was the

I always thought it was the Danish government

ferent than they were in those countries and the cows died out. They finally saw they could not rely on imported cattle for their dairying stock, they simply had to change their beef breed into a dairy breed, change the beef cows into dairy In those days, 23 years ago, the average pro duction of butter per cow in Denmark was 112 lls. a year. Now it is 224 lbs. Have they not changed the beef cows to dairy cows? They have

doubled their production in the course of 23 years. Not only did they double the production of their cows, but, as I told you before, Denmark was then almost bankrupt, while to-day it is the second nation in the world in wealth, and dairying has done that. But they have not gone at it in a haphazard way, they do not do dairying as it is done here. They go at it systematically and we all realize that we have to go at our business systematically to get the most out of it.

to go out and buy dairy cows. They imported

some dairy cattle from northern countries but the conditions and environment in Denmark were dif-

NET PROFIT THAT COUNTS There are three things we have to know about the dairy business. First, how much milk do our cows give, not in a day or a month, but in a year, because we have to feed them a year; second, we have to know how much butterfat there is in that milk, not in a day or a month, but in a year, because we have to feed them a year; and then last but not least, we have to know how much feed those cows eat, how much it will cost to keep them a year. I believe if there is one point where American dairymen have made a mistake, it is in that one fact that they do not keep an account of the cost of feed. We hear a great deal about the enormous yield a certain cow will make in a year, enormous yields of butter and enormous yields of milk. I am not casting any reflections on those records, but it is very seldom we hear what it costs to produce those yields. I want to tell you the American farmer is in the

business to make his living, to make some money. If the net profit does not count, what in the world is he in the business for? I believe we want a breed of cows that will give us a large amount of net profit, not necessarily an enormous yield, but an economical yield.

MUST HAVE CAPACITY

Let me tell you where we may drift if we do not think of this. I was over in Maine two months ago where the farmers have what we call a "Maine Jersey." I wanted to know something about the Maine Jersey, so I asked the buttermaker at the creamery to show me a Maine Jersey, and I found that she looks more like a race horse than a dairy cow. The Maine Jersey has been kept on concentrated feed for a number of years, until she has lost her capacity. The farmers down there will feed as high as four to six



A Cow that looks to be a Heavy Milk Producer Dixie de Annandaie @ yrs. old) owned by Ed. Purtelle, Prince Edward Co., Ont., as illustrated, possesses the indications of "a milker". Note her quality and the exceptional development of her milk veins.

that was responsible for helping the Danish farmers, and it was only when I went to Denmark two years ago that I learned my mistake. It was the farmer who saved himself, and it can be truly said that the Danish farmer saved the Danish nation. In those days, interest on money in Denmark was three and a half per cent. more than in London, in 1875 to 1877. They paid something like ten and a half per cent. on loans. No wonder the farmers could not pay expenses. In different communities throughout Denmark the farmers sized up the situation and said to themselves. "We will have to go into dairying. If the Englishman will not take our beef he will take our butter. We have a good reputation for our butter in England." But they had a large number of beef cows; they had been raising beef for years. Now then, what would they do? Some of them tried

pounds of digestible protein a day to their cows. Roughage is scarce and they have fed her concentrated feed in an effort to make a great yield. Now they have a cow without capacity for taking the roughage off their farms and turning it into profit for them. That is where we may drift if we do not consider this matter of economical production. We have to have a cow that will take our feed, our roughage and some grain, and turn it into the most profit for us. That is what the average farmer wants and I believe the fault lies with the individual more than it lies with the breed. We have got to find those individuals and the only way to find them is to find how much milk they will give in a year, how much tutterfat, and how much feed they eat in a year. We have to find what they do with the feed they

We will find when we do that, that there are three kinds of cows. There is one kind of cow that will take a certain quantity of feed, digent and assimilate it and from inherent tendency in her nature she turns that food into choice cuts of meat on her back, and if she does that she is a beef cow and we must make beef of her as soon as possible. Another cow will take that feed and turn it into milk in the milk pail, and if she does that she is a dairy cow, and that is the kind of a cow we want to tie to, I do not care whether she is a Jersey, Ayrshre, Guernsey, or anything else. Then we have a third class of cows, that take that same quantity of feed, digest and assimilate it, and the Lord only knows what becomes of it. That is the kind of a cow we want to get rid of.

STICK TO A SYSTEM

We cannot rely on buying our dairy cows. If we do, we will never get any further ahead. Then again, if a man relies on buying his dairy cows he has to pay a bigger price than the average farmer is willing to pay. We have to raise our dairy cows ourselves. The average farmer will bear me out in that, he has to raise the cows himself and he can do it if he will adopt a system and stick to it, as they have done in Denmark.

Let me show you what one man did in the little country of Sweden. His name was August Kink I visited his herd a year and a half ago. I had heard of his record and wanted to assure myself that it was correct. He joined a cow testing association in 1900: he had then 70 cows. Each cow gave him a production of 7,320 lbs. of milk in a year. That is a mighty good average; you would not think he could increase it much, yet in the course of six years he had increased that production from 7,320 lbs. to 11,330 lbs. How did he do it? He had 70 cows the first year and he found out of those 70 cows 28 were good, economical producers,-just the kind of cows he needed. They would take the roughage from his farm, with a certain quantity of grain and turn that into the most profit for him, and those were the sort of cows he wanted. He kept those 28 cows, kept their heifer calves. The next year he had 46 cows, the next year 55, then 61, the year following 64 and now he has 71 cows again and they each bring 4,016 lbs. of milk more in a year.

FIGURING BY FEED UNITS

They have a system over there for figuring the feed that in some respects is different from ours. They have what they call "feed unit." They figure the feed regardless of the price. For instance, (I may not have these figures exactly right, but they show the principle of figuring the feed), 1 lb. of corn and oats is one feed unit; 1 lb. cottonseed meal is 1.7 feed unit; 51% lbs. clover hay is one feed unit; 10 lbs. beets is one feed unit, etc., regardless of the price. They have the feed reduced to feed units. A certain quantity of feed produced this man 302 lbs. of milk; now the same quantity of feed produces him 372 lbs. of milk. The first year, 100 feed units gave him 10.1 lbs. of butter; now the same quantity of feed gives him 13.2 lbs. of butter. Now, he did not try to make his \$40 cow produce \$75 or \$80 worth of milk, but he simply picked out the cows in his herd that were good animals, raised the heifer calves from those cows, and in that way beilt up a herd. That does not seem so very difficult for us to do. It is not, it is only a matter of getting started.

What I have told you about this is nothing new; we have known it for years, we have known it ever since we got the Babcock test, have known it for 17 or 18 years. It has been taught from institute platforms, from dairy schools and colleges; we have been trying to educate the dairy farmers to do this, but they do not do it. I have had some experience along this line myself and I confess, too. A few

than he did the first year that I came there. I right say that on my own home farm the average production was increased 60 per cent. as a result of the cow testing work over there.

My father was a dairyman, had 80 cows, and he used to take us boys out to the stables on the rainy days and show us the cows and he would try to teach us lessons about those different cows. He would say, "This is a good cow. Don't you see her horns crooked just so, her tail reaches down below the hock joints. She has all the signs." We got so we thought we could pick out a good cow by her looks, but when he joined so cow testing association he found looks did not count for everythiag; we could not tell by the



Bee Keeping in Quebec-Aniary of Mr. Theodule Cloutier, L'Islet Co., P.Q.

Mr. Auguste Faford, the Farm and Dairy correspondent for L'islet county, writes of this apiary as follows:
"Visitors are numerous and very welcome. The small house in the background is where the honey is extracttracted, and where visitors are compelled to eat some honey due to Mr. Cloutier's generosity." Those appearing in the illustration are Mr. and Mrs. Cloutier; the two young men in the centre are visitors.

years ago I was put in charge of a large dairy in Denmark. A dairy of 800 cows was owned by a nobleman who lived in the city during the wintter. The management of the farm was left entirely to me. I came directly from a farm where there was a membership in a cow testing association and I was interested in putting in operation on that farm a system whereby we might be able to weed out the poorer cows, those star boarders, as Mr. Lillie says, and you know a star boarder is one that never misses a meal and never pays a cent. I was interested in weeding out those poor cows, in raising the average production per cow in this herd and I told the owner about it. I outlined a system of weighing the feed, weighing the milk, testing the milk, etc., for each cow. He listened and said: "It is a splendid idea, go ahead." Then he went up to the city to live during the winter.

INCREASED 100 PER CENT.

Well, when a man looks after 800 dairy cows, he has his hands pretty full and I was trying to get this work reduced to a system so I could take care of them, trying to teach the men how to do this, and do that, and it entailed a good deal of work, so I had just about forgotten about the new system I had explained to the owner trying to help him weed out the poor cows and raise the average production of the herd. I had almost forgotten about it because I had gotten into a rut, until I received a letter from the gentleman, asking me how the work was coming on, then I got ashamed of myself, went to work and tested those cows and when he came in the spring I had a record for a few months, and from those records we picked out 35 cows that we could see even then were not going to pay for their board. I visited him this last year in Denmark and he told me, as a result of this work I had started, that he now received 100 per cent. more profit looks of a cow whether she produced butter at 10 cents or 15 cents and this may make a difference between profit and loss to a man.

BREAK AWAY FROM THE RUT

If ever the time has come in the country when we can profitably adopt the same system they have adopted in the Old Country, whereby they have doubled the average yield of their cows in the course of 25 years, the time is ripe for it now. They talk a great deal about educating the farmers and buttermakers. We have been educating the buttermakers ever since I can remember and we have seen the average quality is deteriorating right along. We have been trying to educate the farmers every year. A great many farmers do not need education, they know their business, but the idea is to get them started. They know what to do, they know they ought to weigh their milk and test it, but they do not do it. They have got into a rut and keep in that same rut and what must be done is to try to make them break away from that rut, and one of the reasons that I am interested in cow testing associations is because if we once get them started they are going to improve and they are going to help themselves. That is what we want to do, we want to put the farmer in position where he can help

How to Get Bees in Shape for Winter

R. F. Whitesde, Victoria Co., Ont.

The first of November sometimes finds bees like their unfortunate owners in a sad plight ior winter. With bees, however, not unlike other things, attention is better late than never if one has plenty of time to attend to them, bees can be doubled up if fed in numbers, or fed if light in stores. One plan of doubling is to get them clustered during the first warm spell that

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heavy ones If feeding as follows: pails will a ary table must be ra pencil or sn syrup is ma of whi e st a wash-boil the first fe the top of t plenty of ol and the bee and the be of it down. low, then t you have a hot, thick s three or for used for fil or four feet

A busy fa this uncerta unless these and wintere cellar, espec vere. So th comb to free little honey cookstove, if stove in his Belated be

been placed filled combs holes through warmly with be substituted the frames is storing of be a subsequent

Diseases

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comes. Then on a cool evening a week or so later, two or three of these can be placed in one hive. If weak colonies have no heavy combs sufficient to winter them, say 15 or 20 pounds on which to cluster the case is still worse. In such a case they will require the fed.

There are three or four plans for feeding. If you have heavy combs saved from your other hives, you can shake the bees off their own combs, having first replaced these combs with two or three heavy ones.

METHODS OF FEEDING

If feeding needs to be resorted to, one plan is as follows: invert ten-pound honey pails (lard pails will answer) over shallow tin plates, ordinary table plates will do-the pails after filling must be raised one quarter of an inch on a lead pencil or small stick to let the syrup out. The thick syrup is made by pouring two and one third pails of whi a sugar into one pail of boiling water in a wash-boiler, stirring it well, of course, during the first few minutes. Then place the feeder on the top of the frames while hot and cover up with plenty of old quilts and blankets to keep all warm and the bees comfortabe. If the weather is warm and the bees lively, they may take some or all of it down. Should they fail to take it down below, then take as heavily honey filled combs as you have and fill up the empty cells with the hot, thick syrup. An ordinary tomato can with three or four small holes in the bottom may be used for filling; hold it when filling cells three or four feet above the comb.

A busy farmer bee-keeper has no time for all this uncertain fuss that usually ends in failure unless these stocks are looked after early in April and wintered in a warm, well ventilated dark collar, sspecially if the winter proves to be severe. So the short cut is to shake them off the comb to freeze and starve and extract out what little honey they have near the warm kitchen cookstove, if one has not or cannot afford an old stove in his bee house.

Belated bees are sometimes fed after having been placed in the cellar. To do this lay heavy filled combs on top of the frames. Make a few holes through these combs, and cover up the bive warmly with a blanket. A slab of candy can be substituted for the combs, it being placed over the frames in the same way. The feeding and storing of bees for winter will be dealt with in a subsequent article.

Diseases of Horses Feet-Navicular

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

This is another disease of the foot. The lameness resulting from it, is not unlike that produced by chronic laminitis although the seat of the disease is entirely different. Navicular disease is an inmanuation of the navicular joint which is situated in the hoof.

Long hard driving on hard roads, a sprain of the joint, allowing the toe of the foot to grow very long, are some of the ordinary causes. Horses which are not regularly exercised, but which are occasionally given long drives, are very prone to suffer more especially if there is any natural weakness of the feet.

SYMPTOMS

The first symptom noticed is lameness. The animal may go lame one day and go all right the next day. Often the horse will leave the stable quite stiff and lame but a little exercise will be found to make him go much better. Sometimes he will be almost all right but when allowed to stand for an hour or two, he will be found to have stiffened up again. As time advances the hoof will begin to contract, this condition is often thought to be the cause of the disease but it is only the result of it. The horse will point his feet while the stall will drag the bedding backed out of the stall will drag the bedding back with his feet.

To be effectual, treatment must be resorted to in the early stages of the disease, otherwise, a change will take place in the affected joint which no treatment can restore to its normal condition.

The shoes should be moved so that the frog will touch the ground and bear its share of the weight of the body; the feet placed in cold water several hours during the day and in a poultice at night. In about two weeks the hair should be clipped off the coronet and a blister applied around the top of the hoof. This treatment if adopted in time will generally affect a cure but if not taken in the early stage will be of little use. Where the disease has become chronic, it is always well to have the animal shod with the heel calks of the shoe longer than the toe so as to raise the foot at the heel. If the animal be kept in the stable his feet should be kept moist and soft by the application of water either in the form of a foot bath in a tub or by soaking boots. If the horny tissue of the hoof is allowed to become dry and hard the lameness will be very much aggravated.

Like all other troubles incident to farm stock, lameness is usually the result of carelessness. The man who looks properly after the feet of his horses is not likely to have a serious case of lameness on his hands more especially if his horses naturally have good strong feet.

Mixed Grains Best for Hogs

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

In our experiments in hog feeding I have tried about every mixture that I ever heard of, or could prepare myself, and I will say that we have got the very best results from the simplest rations, with this modification, that we very seldom find one single grain or even two mixed that will do as well as a mixture of several kinds of meal. Where one has some barley he wants to feed his pigs, he had better sell off a few bushels of the barley and buy a few other things and mix with it, and the same applies to other grains or feeds. We find that a mixture always does very much better than one grain, and a mixture of three or four grains will do better than one or two.

These three, oats, peas and barley fed in about

Corn and Root Land Cultivation

H. N. Carvan, Wellington Co., Ont

The season of fall plowing being now well upon us I wish to give the readers of Farm and Dairy my experience in the matter of surface cultivation as against plowing root and corn ground. I was much interested in the discussion, upon this subject in Farm sad Dairy a year ago, which was provoked by the article by Mr. Fixter of Macdonald College, Que, in which be advocated that all land be plowed and that deeply. I had intended giving you my views then but put the matter off until it was too late.

I cannot agree with anyone who advocates deep plowing at any time. Such practice might have been all right at one time but that day is long since past. Five inches is my limit for plowing. Corn ground that is reasonably clean I would not have plowed if one would do it for nothing. After cultivating it all summer it would be worse then folly to put that fine soil, that has been worked up on top, down where the young plants could not immediately avail themseives of it. Beside we need that same fine soil on top to prevent evaporation of water. Then there is the weed problem to consider. After having destroyed all weed seeds in the surface layer, why plow up more to germinate and stiflle the crops next year? We will have plenty, you may be sure, without fostering them in this way.

It has been my experience that corn and root land not plowed, but surface worked entirely, gave as good, and frequently better yields, than strips alongside of it that were plowed after the usual condition. And, again, that land not plowed, after it had grown a crop of barley was much more readily plowed the next fall for wheat, the strip is the property of the pr

Maple Industry.—If a stone arch is to be used in maple syrup making, it should be made in November at the latest. If made in October it would be better, especially if it is to be finished with cement. The wood to be used in it next



First Prize Hampshire Sow Caring for Her Family at the Western Fair, London, Out.

The Hampshire is a new-comer among the breeds of swine in Canada. This breed has been represented at our larger fairs only during the last few years. The pigs illustrated are from the herd owned by A. O. Neil & Sos, Birr, Out.

equal proportions will give good results, and if you have no roots an addition of a little bit of oil cake meal will largely take their place. If you have no roots of any kind or potatoes, then add to 100 pounds of each of these others 50 pounds of oil cake meal, making a mixture on which your pigs will thrive.

spring should be put under a roof now or better still, should have been done a month ago. If any buckets leak, the holes can be stopped with putty and white lead, mixed half and half. It is an advantage also, to brush over doubtful seams and rusty spots with white lead and oil.— R. F. Whiteside, Victoria Co. Ont. GET OUT YOUR LEAD PENCIL AND DO A LITTLE FIGURING

Whatever your present monthly salary may be, multiply it by 12, and find your yearly income. Will it amount to \$1,699.80, the salary show above. Do you earn one-half that amount? If not, why not?

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We teach and qualify you by mail in from 8 to 14 weeks without loss of time from your present of the present work. Positions are secured; in fact, there are many openings right now if you were dependent of the present work. Positions are secured; in fact, there are many openings right now if you were dependent of the present o three years to be ad-vanced to engineer



How to Whitewash Stables

In these days of increased vigilance on the part of local sanitary authorities, the dairy farmer finds that more and more time and labor has to be expended in complying with their demands. The farmer, who is relatively least affected by these demands is the one who is in a position to carry them out expeditiously.

them on acceptance of the provided most acceptance. The operations of the impector is whitewashing. Even in the impector is whitewashing. Even in the provided control of the

special attention has been paid to lighting the building from the sides and ends as well as from above.

In the north-east corner on from the norm-east corner on the ground floor a room 61 feet by 54 feet has been partitioned off for the dairy cattle. The equipment of the dairy statle should be studied by all who are interested in sta^{1,3}; construcwho are interested in sta³² construc-tion. There are concrete sloors, man-gers and gutters, iron piping parti-tions between the cows and patent stanchions, litter and feed carriers and an approved system of venti-lation. The balance of the ground floor, except the space occupied by the judging ring, is given over to the stabling for the horses. There are three rows of 36 stalls each and in the stable formerly was there are 49 stalls.

brushing down and covering with one coat, about five cents a square yard.

With a machine, it is possible to cover quite 10 times the area covered will be seating for about 1,000 people.

On the second floor of the new build-



The New Addition to the Winter Fair Building, Guelph, Ont.

The Guelph Winter Fair, with its enlarged and improved accommodation and with a horse department added to the exhibit, will prove to be more popular than ever. It will repay a visit on the part of those who attend.

are used to the machine, even more may be accomplished.

Time is lost by the spraying-jet, getting obstructed, but the frequency of this happening will be lessened by attention to the following points:—

(1) Choose a machine fitted with a nozzle that can be easily cleared, (2) Slake the lime carefully, and pass it through the strainer provided with most machines. (3) Use only fresh lime. Lime that has been exposed to the atmosphere for some time contains lumps of calcium carbonate, or to the atmosphere for some time con-tains lumps of calcium carbonate, or chalk. Aid the slaking by crushing the lime. The liquid used must be of a creany consistency, about two lbs. of lime to a gallon being normally re-quired. Ihe addition of a little blue will make the wash a purer white, and whiting added at the rate of one lb. a gallon will improve the consistency.

The New Winter Fair Building

The new building at Guelph for the Ontario Provincial Winter Fair, as Ontario Provincial Winter Fair, as will be seen by the accompanying il-lustration, is of imposing appearance with its massive walls and towers. It occupies a part of what was formerly the old open market square immedi-ately adjoining the old building and a few feet to the east of the City Hall

Hall.

The building is 200 feet in length by 113 feet in width and is two stories in height except for a space 170 feet by 43 feet next to the old building which will be used as a judging ring for horses and beef cattle and which will be without a second foor so that the immense sky-lights will be effections. the immense saying and be determined in the central parts of both new and old buildings. The walls are of cut limestone placed upon a solid foundation of concrete. It will be noted that

pages do not occur, and the operators are used to the machine, oven more may be accomplished.

Time is lost by the spraying-jet, provided between the new and old getting obstructed, but the frequency

Dairy Meeting at Lindsay

The Lindsay district dairy meeting held on Thursday last, not unlike the meeting held at Peterborough on the day previous, lacked only in attendday previous, lacked only in attendance. A very strong program had been arranged. The speakers were Goo. H. Barr, Chief of the Dairy Division, Ottawa, J. F. Singleton, Creamery Instructor, Henry Glendining, Instructor Cameron of the Lindsay group and W. Newman of Lornstrain, Others who addressed the medical country. Wm. Wright, Duriette, and Wm. Thurston of Bobcaygeon. Mr. T. Robertson of Dunsford occupied the chair. Mr. Henry Glendinining was re-elected to represent the disthe chair. Mr. Henry Glendinning was re-elected to represent the district on the directorate of the Eastern Ontario Dairymen's Association. LESS WORK AND BETTER MILK

Mr. Barr gave his celebrated lecture on "The Care of Milk for Cheese Factories," illustrated by lantern sides. A noteworthy feature of Mr. Barr's advice re care of milk, and one which should appeal to all farmers, is that he tells them to do less work. Mr. Barr, having been brought up on a farm, knows that the farmer has little time to waste and that the less work one can expend on the ing for milk and have it right, better. The method he advocates been proved by actual practice to quire very little work or trouble where it is followed, the milk will be delivered in the very best condi-tion. The method advocated as many (Continued on page 12)

SAVE TIME WITH

Agents Wanted for Unrepresented District W. D. BEATH & SON, LTD., TORONTO, ONT.

ARE YOU HAVING A SALE? ADVERTISE IT IN OUR SPECIAL BREEDERS' MIMBER

Breeders who are planning to hold a Sale of Live Stock, should see that it is well advertised in the special Breeders' Number of Farm & Dairy, which will be published Dec. 2nd. This issue will be of special interest to live stock men, and will reach a large number of breeders who are not regular readers of Farm and Dairy.

Copy should be here by Nov. 25th. Advertising Rates on Application. Write to Advertising Department, FARM AND DAIRY, Peterboro, Ont.

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Novem

Heavy I

Editor, to of a Cl on the Dairy, N emplifies horses not so for the districts, are looked dray purp

ever, who working so of going to For five team of that weigh working c with plent

with ease, time used In addit ses shoe larly qualitative trouble which I bel gave part ing, to slo ness of bon Good, he luck favori colt each ye as well. Th they can be a ready pri farm.-W.

The Na The large

industry was held recently A re dairy supplie s, an ex Division of t ing contest, a tional characthe exhibition
The attends
for the 10 d

show was hou built of steel a cost of \$50 were stalled owing to lack satisfactory li to advantage. well rep cially mak pecially ed by 44 herd steins in addi riously mentionumber, but t tatives of the and Dutch Be

Outstanding features of th graphic exhibited by the Dairy States Depart Another was t in the basemen rations and m ing association were held dail charge of H. ment of Agricu

Device For M

Editor, Farr discussing the Lawrence-Kenn with a successf Paul. I secured be of value to who have inves He said that af outfit he was
milk being suck
thus making hi
valueless. The yns annarently ire where the n Heavy Florses Most Profitable

Heavy Horses Most Profitable

Editor, Farm and Dairy — The photo of a Clydesdale mare that appeared on the front cover on the front cover on the front cover of the proper type of heavy horses not only for eity work but also for the average farm. In too many districts, horses of such proportions are looked upon as being suited for dray purposes only. Any farmer, however, who has had the privilege of working such animals will never think of going back to the lighter class. For the proportion of the property of the property

The National Dairy Show

The National Dairy Show

The largest and most complete exhibit ever made of the great dairy industry was the National Dairy Show held recently in Milwaukee. More than 500 dairy cattle were on extinction. A record breaking display of dairy astiples, machinery and applition. A record breaking display of the dairy stepplies, machinery and applition of the dairy stepplies, machinery and applition of the dairy stepplies, machinery and states Department of Agricultural dairy of the dairy cattle were stalled in the dairy breeds were well represented, the Jerseys especially making a strong showing. Eleven different states were representatives of the Agrishire, Brown Swiss and Dutch Belted breed.

Outstanding among other valuable Gattle of the show was the photographic exhibit of object lessons made by the Dairy Division of the United States Department of Agriculture. Another was the demonstration herd and a dairy Drivision of the United States Department of Agriculture and a dairy Drivision of the United States Department of Agriculture and a dairy Drivision of the United States and Dutch Huster and the content and and the dairy breeds were the dairy Drivision of the United States Department of Agriculture.

Device For Improving Milking

Device For Improving Milking

Editor, Farm and Dairy,—While discussing the merits of the Burrell-Lawrence-Kennedy milking machine with a successful dairyman near St. Lawrence-Kennedy milking macana-with a successful dairyman near St. Paul. I secured a pointer that may be of value to readers of year maper, who have invested in this appliance, who have invested in this appliance. He said that after he first bought the outfit he was greatly troubled with milk being sucked un into the pipes, thus making his nurchas practically an unality of the succession of the cover-tion on the under side of the cover-ma country to close to the onen-ing where the milk entered, and as a line where the milk entered, and as a result the milk was carried over from one opening to the other, and so into one opening to the other, and so into the pipes. He had heard of cases of this line with other oction bitting was the succession of the control of the cont

where the milk enters, the tube Leing of the same lineer as the aperture. Now, the milk goes through 'his extension before it gets in line with the suction before as a machine that works a way to be acted upon. As a result he now has a machine that works perfectly, and he had the added satisfaction of helping out a neighbor who was in the same dilemna.—Mac. C. Cutting, assistant editor, "The Farmer," St. Paul, Minn.

The Two-Furrowed Plow

Ine Iwo-Furrowed Plow

W. R. McGready, Garleton Co., N. B.

I have read a number of articles in
the "Farm and Dairy," and in other
agricultural papes in praise of the
two-furrowed plow In Praise of the
two-furrowed plow In Brain Sept. 2n.
issue of Farm and Dairy, J. D. McLei
lan of Prince Edward Island, says:
"It works well anywer that a single
furrow plow will work, except, per
haps, among stumps, and it is capable
of doing good work where the ordinary
plow would have great difficulty in
working at all."

Now, I use both a two-furrow plow
and a single plow and I can't imagine
what kind of a plow they use in P.E.I.
if a two-furrow plow will the better
work in any kind of soil. I seep a
single plow to use where the two-furtow plow can't be used. Not soll you
stumpy ground but in very stoney
ground, I can do good work where a
yen-furrow plow can't be kept in the
ground.

Nearly every one who writes of the le R. McCready, Carleton Co., N.B.

ground.

Nearly every one who writes of the two-furrow plow says that one ma with three horses can plow twice as much as one man and two horses with a single plow. I will challenge any man with any kind of a two-furrow plow, with two, three or four horses to nlow with any kind of as I can plow with my team and single plow. Many standard makes of steel plows are used with my team and single plow. Many standard makes of steel plows are used here, but I use a plow manufactured in my own county and I can turn 14 inches and do good ords. I here never yet seen a two-furrow plow that will turn more than 22 inches, mine turns only 20. I am not decrying the two-furrow plow by an mans for it has sits place and is very useful in its place, but it will be a long time before it will drive the single furrow plow out of business.

Our Apple Trade with South Africa

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Africa

It is to be sincerely hoped that an inhalf of the line fence. This is most effort will be made to send out the basement illustrating different tions and methods of the cow testing as a constitution. Two demonstrations are held daily. This work was in gas of H. Rabel of the Department of Agriculture.

The control of the Department of Agriculture.

Sevice For Improving Milking

Machines

Editor, Farm and Dairy—While attest report some of the sincery Durantent of Trade and Common Double with each of the Burrell-swrence-Kennedy milks machine that a successful dairy machine that a success

is wrong to speak of "luck," they of doubtless received cash against configurations and some of them may lave cared little what happened their shipment or what loss the consigness may have and to sustain. If this statement seems harsh, it is beyond a doubt ment seems harsh, it is beyond a doubt that it is not made without foundation. It could well be wished that ties not made without foundation. It could well be wished that ties not made without foundation. It could well be wished that poetic justice might descend upon pletic justice might descend upon the protein profession of the seems of the profession of the seems of

from taking a risk which holds out so small a probability of compensat-ing profit. And this matter of profit suggests a further point, a very large margin is required to cover avoidable margin is required to cover avoidable but apparently inevitable losses; if, however, these late could, or rather were, minimized by could, or rather were, minimized by could be sold at more the frequency of the could be sold at more the proping of the could be sold at more prices, and it follows, in larger quantities. It requires little perspicacity to prophesy that those Canadian firms who send apples this season to South Africa, carefully picked and properly packed, or, in a word, who conscientiously endeavor to protect the interests of their clients, will the following season reap the result.

Our Legal Adviser

RIGHT TO PLANTS ON RENTED PLACE. RIGHT TO PLANTS ON RENTED PLACE.

—I have rented a houre on lease for one year, and have put considerable expense on the property in the way of planting fruit trees and bushes, shrubs and vines. It is an compelled to leave at the end of the property in the way of the plants head by the property of the plants head by the property of the plants head by the property of the plants are the property of the plants at was when I leased ithmed. C., Peterboro Co., Ont.

"Yest"

LIABLE FOR LINE FENCE.—Will you kindly tell me through the legal columns of Farm and Dairy pel me to build half a line fence around a nero to which was sold off the corner as the control of the corner to the corner of the corn

acre for.—A Subscriber, Simoce Co., Ont.

In the absence of a definite agreement with the owner of the acre lot you will be liable to build and maintain half of the line frence. This is a made compulsory by the provisions of the computer of the computer of the provisions of the computer of the compute

Warranted to Give Satisfaction. Gombault's **Gaustic Balsam** Has Imitators But No Competitors.

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CIRCULATION MANAGER FARM & DAIRY Peterboro, Ont.

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******* Organize a Horticultural Society

All towns and villages in Ontario where horticultural societies have not been organized should take up this work. It is indisputable that those work. It is indisputable that those places, wherein active horticultural societies are at work, are the most beautiful, the cleanest and the most attractive in the province. Every municipality should have a horticultural society.

Under the Horticultural Societies Act, the organizations must be formed before the second week in January to participate in the government grant. Further information will be grant. Further information will be given on this and other points on application to Mr. J. Lockie Wilson, Superintendent of Horticultural So-cieties, Parliament Buildings, Toor ronto. Towns and villages that would like to take up the work should send a deliberate to the a delegate to the convention of the Ontario Horticultural Association this month in Toronto. Any person that is interested may attend.

Blackberry Root Cuttings

John Ferjuson, York Cop, N.B.

The process of making root cutings is to dig up the entire plant, securing all the roots possible over oneeighth of an inch in diameter. These
should be cut into pieces two or three
inches long, and should be planted in
head roots, somewhat as necessary. broad rows, somewhat as peas are planted in broad rows, somewhat as peas are planted. covering about two inches deep. Before severe freeing weather sets in, the bed should be covered with five or six inches of strawy stable manure to prevent deep freezing. In the spring the covering is raked off and by the middle of June the rows will be straight of the property of the spring the straight of the property of the straight of the spring the spring the straight of the spring th will be studded over with buds coming from every piece of root planted.

These plants are much better than the "sucker" plants because they have large numbers of fine fibrous roots and are much more sure to live and

and are much more sure to live and make stronger canes.

Apply a dressing of barnyard man-ure to the patch in late fall or very early in the spring. If no disease at-tacks them, blackberry plants will, with good treatment, live and bear fruit for ten or fifteen years, much of course depending upon soil and cul-

Fall Cultivation

R. W. Starr, Kings Co., N.S. I have been advocating for many years the practice of fall cultivation of orchards, believing it to be the best method. I will give a few reasons why orchards should be cultivated and fertilized in the autumn wherever pos-

sible.

By plowing say five or six in. deep after the leaves have fallen and harrowing to a fine tilth you have an carth or dust muich, which is one of the best protetions from frost. You will have buried all the spores of the black-spot which may be deposited on the leaves, which is undoubtedly the the leaves, which is undoubtedly the main source of propagation in the spring. You will also have disturbed, and buried deeper, any cocoons of canker worms, codling moth and other invect pests that may harbor on, or result of the surface soil. And you will

neer the surface soil. And you will have placed the cover crop or other vegetation, with the leaves, where it will be converted into hant food, and made ready for the early growth of the trees in the spring.

If you also apply such fertilizers as barn-yard manure, ground bone, nuriate of potash, or others of those partially insoluble commercial manure and harrow in, you will assist nature to provide the trees with an early spring breakfast and enable them to commence the season with vigor, and commence the season with vigor, and pass the period of, what is sometimes excessive bloom, without the exhaustion that we frequently observe, and

that is followed by failure to set fruit

set.

If this system is properly carried out in the fall, the disc is all that is required in the spring to get a mellow surface, and if it or the harrow are used, say, once a week to conserve the moisture, until the time has arrived to make the over crop. the orchardist may saw the cover crop. the orchardist may sow the cover crop, the orchardist may congratulate himself when the latter is in that his work for the season, so far as cultivation is called for, is

As there can be no rule without exceptions it may be found imprac-ticable to follow this system on side hills or where the soil washes badly hills or where the soil washes bedly in the winter. There you may have to leave the cover crop to bind the soil until spring; if so, then do your cultivating and manuring at the earliest possible date, for it is the early and rigorous growth in the spring and the mature, well ripened wood and buds in the fall, that ensures and health of our fruit trees through our changeable winter weather.

The Canadian Apple Industry

With the approach of winter, the apple industry once more asserts its position in Canadian export trade. Apple exporting, despite the inevitable fluctations of crops, may fairly be said to have expanded as rapidly as any other branch of trade in which the Dominion assumes a leading part.
An excellent resume of the methods employed in packing, sorting and shipping, which may serve to enlighten many upon these important details, was recently published in "Canada," and is reproduced herewith for the general information contained:—

scheral information contained:
LARGE SHARE IN MITTER MARKET
The French call the potato the 'apple of the earth,' and the Britisher
might well describe the apple as the
'potato of the orchard.' For as the
potato is the best known and mest
used vegetable—at least in the Old
Country—so the apple is the most
easily obtained and favorite fruit for
sweets and dessert. The great demand thus caused cannot be supplied
wholly by English orchards, although
the home growers raise huge crops. wholly by English orchards, although the home growers raise huge crops. The produce of the British orchards is reinforced by fruit from all over-the world, and especially from the oversea Dominions. In this trade Canada has her share and every year the maritime provinces, Quebec and the maritime provinces, Quebec and Ontario export enormous quantities of apples to British ports. The im-portance of this industry may be seen by the following figures of the quantities of apples exported by Can-ada in recent years. In the fiscal year ending March 31, last, 1,002,000 barrels (value \$2,04,282) were ex-ported, of which amount 1,066,477 barrels (value \$2,748,434)was sent to various parts of the empire, princip-various parts of the empire, principbarreis (value \$2,748,433) was sent to various parts of the empire, princip-ally Great Britain. In the previous year 1,629,400 barrels (value \$4,823,-645) were exported. The exports in previous years were: In 1907 (when owing to the change in the fiscal year, the exports only covered a variety of the exports only covered a period of nine months) 977,961 barrels; in 1906 1,217,564 barrels, in 1905, 1,037,148 ,217,564 barrels, in 1905, 1,037,14 parrels; and in 1904, 1,598,614 barrels

harrels, and in 1904, 1,598,614 barrels. The exports fluctuate, and it would seem that last year the trade had declined somewhat. But it must be remembered that the apple crop as other agricultural products, varies year by year, and again the Dominion's own increased and ever-growing capacity for consumption—noticeally in the prairie provinces, where fruit is not generally grown—accounts in some provise year by year.

(To be continued next week.)

A short course in fruit growing will be given at the Ontario Agricultural College, from January 25 to February 5, 1910. Write to President G. C Creelman for a copy of the calendar that describes it that describes it.

For Fruit Growers and Gardeners

Gardeners Tuit growers am gardeners in the November issue on The Cavanian Hoarruttusar. Valuable information fruit me is given in such articles as "Grape Culture in Cold Districts," "Poll Cultivation," "Starting a Peach Orchard," "Growing English Gooseberries," and others of similar nature. An

A Welcome Visitor

I have been a subscriber to Farm and Dairy for over a year now and must say that it has alnow and mist say that it has al-ways been a welcome visitor. It fully equals any agricuitural journal I have ever read. The cuts and illustrations are well cuts and illustrations are wenkept up and are an inspiration to its readers. Enclosed you will find a remittance of \$1 for my renewal subscription for another year.—M. A. Foster, other year.—M. A. Prince Edward Co., Ont

excellent article on the apple situaexecuent article on the apple situa-tion, comprising reports from corres-pondents in all parts of Canada, tells how the crop is moving and what prices are being secured. A number of letters from growers in all the provinces gives valuable fruit notes. Furthermore, fruit growers we were Furthermore, fruit growers are warned against the operations of men who claim to represent a large nursery in the United States and who are at present working in certain countees in Ontario. They are using fraudulent means of selling nursery sock. Farm-ers and fruit growers are cautioned against purchasing stock from them. Much consideration is given in this issue to home gardening and to the work of horticultural societies. Grow-violate, notocking roses, planting, working in certain counties in rio. They are using fraudulent

sort of horiedularia societies. Growing violets, protecting roses, planting for winter affect, the care of lawns, and the control of the cont

THE CANDIAN HORITCULTURIST IS a monthly publication for the fruit grower, for the vegetable grower and for amateur gardeners. It is the only publication of its kind in the Dominion. All articles are practicable, seasonable and well illustrated. Every person who is interested in these things should become one of its subscribers. The small sum of 60 cents is the subscription price for one year, and \$1.00 for two years. Address, The Candida Market Peterborouch. Onlario and mention Farm gh. Ontario and mention Farm

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H. C. Pier The wors ry against farmer hav mon chicke mite," Th mites which much 1 thirsty pest killing adu only attack

SYMPT Hens whi cease laying dumpish, ar feathers rou head and co bird presen These sympt ritation and ly visits of parasites. I small pests, numbers tha blood is enor most pernici here they m host at all ti of blood. A often result nest or in hatch in eit hen does with mite, the ne attacked as s the shell and short time.

DESCRIP The adult of elliptical and shape. The a l-20 of an inc ly visible to grayish in co except after f a reddish app is while gorge known as the rather slender, it can move needle-like mainto the flesh t ing sucking magnetly differed louse, which have and cannot su

Unlike the l live on the bir n extreme cas lives and breed and corners of nests, and elsev house. It gene when upon the fore, an exami the bird would pest. They may sent, by a care cracks in the r

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POULTRY YARD

The Common Chicken Mite

H. C. Pierce, Iowa State College Ex-perimental Station.

The worst external parasite of poul-iry against which the poultryman and farmer have to contend is the "common chicken mite' or "red chicken mite," There are other species of mite," There are other species of mites which attack poultry, but they do much less damage. This blood-thirsty pest causes great loss to the poultry industry of the country by skilling adult fowls and cutting down egg production. It not only attacks poultry but horses and even man as well.

SYMPTOMS OF INFESTATION

Hens which are attacked by mites cease laying, become poor in flesh, dumpish, and listless in action. The feathers roughen and drop out. The head and comb become pale and the bird presents a sickly appearance. These symptoms are caused by the irbean and come bean seen as the bird presents a sickly appearance. These symptoms are caused by the irritation and loss of blood due to nightly visits of hordes of these hungry parasites. It seems hardly believable that Irowls could be killed by such small pests, but they are so many in numbers that their total capacity for blood is enormous. Their ravages are most permicious on sitting hens, as hore they may have access to their above they may have access to their could be accessed that all times, causing a rapid loss of blood. Attacks upon sitting hern could in the hen leaving hernest in either case. Even if the hen does withstand the ravages of the hen does withstand the ravages of the hen does withstand the ravages of the mite, the newly hatched chicks are attacked as soon as they emerge from the shell and are often killed in a short time.

DESCRIPTION OF AME MITE.

The adult common chicken mite is elliptical and somewhat flattened in The adult varies from 1-25 to shape. The adult varies from 1-25 to 1-20 of an inch in length and is plainly visible to the naked eye. It is grayish in color, with darker spots except after feeding, when it assumes a reddish appearance due to the Lload in the has sucked from its host. It is while among with bload that it is which it has sucked from its host. It is while gorged with blood that it is known as the red mite. It has eight rather slender, tapering legs by which it can move rapidly. It has sharp needle-like mandibles which it inserts not the flesh to obtain blood. In having sucking mouth needs. ing sucking mouth parts the mite is greatly different from the poultry louse, which has biting mouth parts and cannot suck blood.

Unlike the louse the mite does not live on the birds at all times, except live on the birds at all times, except in extreme cases of infestation, but lives and breeds in cracks, crevices and corners of the roosts, building, nests, and elsewhere about the poultry house. It generally attacks the fowl when upon the roost or nest. Therefore, an examination of the body of the bird would not always discovered the pest. They may be discovered, if present, by a careful examination of the cracks in the roosts, nests and walls HABITS OF THE MITE. cracks in the roosts, nests and walls

Black Watch

Chewing Tobacco

The big black plug.

of the building, lifting up the roots of the building, lifting up the rocats and bottoms of nests, where they will be found gathered in patches which have the appearance of grayisher reddish brown, powdery deposits. These patches are composed of adult mites, young mites, eggs, cast off skins, excreta and fith. The patches are gray, or reddish in cast depending upon the amount of blood in each mite. It requires a very careful examination to discover mite patches when there to discover mite patches when there to discover mite patches when there are but few mites present, as they are are but few mites present, as they are bidden away from the light, but in cases where they have been allowed to multiply freely the patches may in-crease in size and spread over the exposed surfaces of the walls, roosts and nests. In some instances of extreme infestation, it is actually possible to gather them up by the spoonful. LIFE HISTORY.

The adult mite lays her eggs, which are elliptical in shape and about 1-100 of an inch in length, in the crake and crevices of the roosts, walls meets or boxes, usually where there is some manure or other fitth. Under favorable conditions the eggs will hatch in a few days. When hatched the young mites are white oval in shape, and able conditions the eggs will hatch in a few days. When hatched the young mites are white, oval in shape, and have but six legs. They feed for a few day no fith, but attack fowls when older. Every few days the young mite molts or sheds its skin and lacreases in size, becoming full grown in about ten days from birth. The remedies for mites will be dealt with next week.

Feeding Pullets

Prof. F. C. Etford, Macdonald College Quebec Quebec How to feed growing pullets in order to secure the best results in winter egg production was dealt with in Farm and Dairy last week. An experiment, conducted, at the Cornell experiment conducted at the Cornell experiment station was quoted in this connecton. The conclusions drawn from the results of this experiment are as follows:

These should in no case be accepted as final until verified by repeated experiments with vastly more fowls.

Forced pullets made a better profit than retarded pullets.

Forced pullets ate less food per hen less cost per hen than retarded

pullets.

ruitets.

Forced pullets produced more eggs
of a larger size, at less cost per dozen than retarded pullets.

Forced pullets produced more eggs
during early winter than retarded

Forced pullets gave better hatchir results of eggs than retarded pul-

pullets

lets.

Forced pullets made a greater perForced pullets.

Forced pullets.

Forced pullets.

Forced pullets showed less broodiness than retarded pullets.

Forced pullets had less mortality
than retarded pullets.

Forced pullets showed better vigor
Forced pullets showed better vigor
than retarded pullets.

Forced pullets showed the first mature moult earlier than retarded pullets.

lets. Retarded pullets gave better fertility of eggs than forced pullets, better Hopper-fed dry mash gave better results in gain of weight, production of eggs, gain in weight of eggs, hatching power of eggs, due to im moultaing, mortality, health and profit per hen, than wet mash. Wet mash and grant fed willed.

ing, here were mash. Hen, than wet mash. Wet mash and grain fed pullets oroduced slightly larger eggs of slightly better fortility, and showed less broodiness than dry mash and grain fed sullets.

fed pullets.

Dry mash and grain fed pullets laid eggs of good size at an earlier period than wet mash and grain fed

Hopper-fed pullets ate more than hand-fed pullets. Pullets having whole grain ate more grit and shell than those having a proportion of ground grain.

Pullets fed on grain were more in-clined to develop bad habits than those having a mash. Earliest producers did not give as habits than

many eggs in early winter.

Early layers gained as rapidly in weight as those beginning later to

lay.

Prolificacy made but slight difference in weight of hen and weght of

The most prolific pullets did not al-

ays lay earliest. Pullets did not as a rule lay while moulting.

Poultry Keeping for Egg Production

Bulletin No. 122 of the Massachu-setts Agricultural Experiment Station contains considerable practical infor-mation that ought to be or interest to readers in Canada. Among the ques-tions dealt with in this bulletin by Mr. Wm. P. Brooks, is "Pure Air for Poul-

Pure, fresh air is needed more and Fure, tresh air is needed more and more for both man and beast, whether in health or disease. Poultry houses should be built so as to provide abun-dance of pure air and sunshine. Mr. Brooks says he is a fresh air crank. He claims to have cured severe cases of roup by, as he terms it, a heroic treatment with fresh air. Fowl affecttreatment with fresh air. Fowl affected with this case were put into a wire cage, where we will side. They were kept there all the wits and came out cured. Though in Mera and came out oured. Though in Mera and came out oured. Though in Mera was seven ama haif degrees below zero. Movable copy are advocated for growing chiefs. Coops that are easy to clean, easy to haul from place to place, give the chicks fresh pasture and variety with cleanliness. cleanliness.

In speaking of the breed to select the strain is more important than the breed. A preference is expressed even breed. A preference is expressed even for the production of eggs of a strain of one of the American boxes espe-cially bred for improvement is that di-rection. Such hens, on the on-hand are less broady than the Asiatics and will, on the other hand, lay more eggs when gove are dear than the Meditorwhen eggs are dear than the Medit ranean breeds. There is also the advantage that the cockerels are at an early age fit to market as roosters.

early age fit to market as roosters, et. Those who want winter layers et some good advice when Mr. Brooks says they should not be hatched too early. The early pullet begins to lay too soon, and is done when the high prices come along, whereas, the sister, hatched a few weeks or a month later, commances to law during the least. later, commences to lay during the last of October and first of November, and

later, commences to be younger, and, of October and first of November, and, if of a good laying strain, continues throughout the winter. In Massachusetts, May seems to be the popular month for having the chicks come out. Good results have been obtained from the following method of feeding the young chicks: Boiled infertile eggs are run through a mineer, shells and all, in conjunction with stale bread one of egg to four or six of bread. This is fed three times a day for two or three weeks. At the end of three or four days a little cracked grain is given, alternating with the mixture, which gradually takes its place until at the end of the three weeks the first mash stops. The cracked grain is fed at the end of the three weeks the first mash stops. The cracked grain is fed in litter to induce exercise. Fine beef scraps are given at about four weeks; give range in your grass, if necessary. In the summary, Mr. Brocks states the following conclusion:— 1. The regular use of condition pow-ders is not likely to increase the egg product and is unnecessary as a measure

product and is unnecessary as a mean

of insuring health. of insuring health.

2. Cabbage given in moderation is better than cut clover hay as a winter food; if much is given the flavor of the egg may be affected.

3. The number of eggs produced is not affected by the presence of the male.

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4. Protein can be better given in animal food than vegetable foods. 5. Dry prepared beef scraps and meat meals are cheaper and safer than cut fresh meat and bone.

6. Where mashes are used the morning is better than the evening.
7. Corn, if judiciously fed, is a safe feed for laying hens. 8. Buckwheat is not as desirable as

9. Fibrous covered grains should be used sparingly in feeding laying hens.

Let your hens do the bragging for

The greatest cause of failure in the The greatest cause of failure in the poultry business is, without doubt, from inattention and its being handled as a side issue, the fowls getting but a remnant of thought and at tention after one is exhausted by close attention to other business and has nothing left for the sadly neglect-ed poultry. Give the poultry the same careful study and care it is necessarily ed poultry. Give the poultry the same careful study and care it is necessary to give any other remunerative bu-siness, and there will not be any ques-tion as to which will pay best.

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AND RURAL HOME

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FARM AND DAIRY

PETERBORO, ONT. TAXING LAND AND LAND VALUES

One of the greatest needs of the present day, is a clear conception by the public, and particularly by us as farmers, of the principles underlying all systems of taxation, as well as the conditions which permit of the creation of monopolies. As long as men can make millions of dollars in the cities in a few years, so long will our boys on the farms desire to leave the country for the city.

The present system of taxation is unjust to us as farmers. Our productive labor creates wealth, which people in other callings are able to appropriate for their use. In other words, as farmers we do not obtain the full results of our labors. If we did, there would not be such a vast difference between the value of farm and city property.

Nothing, possibly, has done more to retard the single tax movement Ontario farmer continues to keep an than the inability of many people to orchard and then not give it proper distinguish the difference between a tax on land and a tax on land values. produced under present methods of plements that are now-a-days indis-

farmers, we own more land than the sponsible for any dishonest packing the farm. For the most part, the life average city resident, although we do not earn more money. A uniform tax therefore would be unfair to the farmers. When, however, we talk of taxing land values, the situation is altogether different.

The Toronto papers reported the purchase recently, by the T. Eaton Co., of Toronto, of some land in that city, at the rate of several million dollars an acre. If that acre of land were taxed in proportion to its value, and the money thus derived were used for Provincial purposes, it would mean that that acre of land would pay as much taxes as many thousand acres of farm land, and as farmers we would receive our share of the proceeds. Therein lies the essential difference between taxing land and taxing land values. Farmers help to increase the value of land in cities. We should, therefore, receive a proportion of the increased value of such land. We can do this without being unfair to any person, by securing a more equitable system of taxation.

DISHONEST PACKING OF APPLES

Theoretically the Fruit Marks Act should ensure to the consumer, apples honestly packed. That it falls short in accomplishing this end is well known. Notwithstanding convictions that are made by the fruit inspectors and agents of the Dominion Government, the practice of putting up apples of an inferior grade to that marked on the barrel still goes on. It would seem that those responsible believe anything in the way of apples to be good enough for the west. The impression has gone abroad that Ontario fruit is not reliable, which impression has been brought about through our western provinces having been made the dumping ground for inferior stock.

Who is responsible for this ill-impression that westerners have gained of Ontario apples? In all probability, it is well founded. Much inferior fruit has been shipped to the west. But is the fault wholly that of the Ontario packer or grower? Is it not probable, that much inferior stock honestly marked has been sold as No. 1, by western dealers?

The remedy, no matter how the question may be answered, is to ship No. 1 fruit only, to the west. Dispose of inferior grades in other ways, or, better still, do not produce them. The freight on apples to the West amounts to such a figure that there is comparatively little difference between the price of No. 1 and of in-

ferior stock to the western consumer. The more general practice of spraying and properly caring for orchards would reduce the amount of inferior apples to a minimum, which can be disposed of without shipping them to distant markets. It is inconceivable that, in spite of the information gained through experimentation and commercial practice in regard to the benefits of spraying, the average care. The large percentage of culls farm is tied up in the numerous im-

that is practised.

ATTEND THE DAIRY MEETINGS

It is difficult to understand just why there is not more interest taken in the district dairy meetings that are being held throughout Ontario under the auspices of the Eastern and Western Ontario Dairymen's Associations. The addresses and discussions bear directly on the needs of the localities in which they are held. The annual conventions of these associations are not accessible to all who might wish to attend or to profit directly from their proceedings. The branch or district meetings are so arranged that at least one of them will be held in close proximity to each dairy section that all may have the privilege of attending. Instructors for the district and leading authorities of repute address these meetings.

Since they are so well appointed from the standpoint of speakers, it is too bad that these meetings are not more largely attended. At the Peterboro district meeting, as well as at Lindsay, barely a handful of men availed themselves of the opportunity of attending and, were it not that the proceedings are more or less fully reported in the press, it would be a question whether or not it were advisable to go to the expense and trouble connected with them. At Peterboro even the salesmen, leaders in their respective communities, and who attended the cheese board in the morning, failed to remain for the meeting designed especially for them. Patrons should reprove these men for not taking advantage of the instruction given and, incidentally, reproach themselves for not having turned out. It is to be hoped that the remaining meetings of the series will receive the support that is their due

It may be that the meetings held too early in the season. They probably would be better attended if held at smaller places. Those responsible should give this matter consideration before another year and, if possible, devise some means of getting a larger attendance.

UNPROTECTED FARM MACHINERY

"Difficult to plow around but very convenient to hook to,...that's what keeps lots of farmers poor." Such was the remark made recently by Mr. R. H. Harding, the well known sheep breeder and expert judge of Middlesex Co., Ont., to the editor of Farm and Dairy, concerning a binder which had been left in the field close to a railroad, where it was observed as they travelled through Simcoe Co., Ont. That particular binder is not the only one in old Ontario, not to mention other progressive farming districts in Canada, to which Mr. Harding's remark would apply. Scores of binders and implements of complicated machinery are exposed at this very date to all the destruction work-

No inconsiderable portion of the total investment on any up-to-date The difference, really, is simple. As orchard management is largely re-pensable to the proper working of

ed by the various elements.

of all farm machinery can be consid erably extended beyond what is generally considered a satisfactory term. Binders allowed to rough it, soon be come subjects fit only for the scrap heap. Such must be apparent to all, yet notwithstanding the lesson inevitably taught, many continue year after year to lose a great part of their capital through giving their farm machinery no housing, except when convenient. To what extent neglect of farm machinery is responsible in keeping some farmers poor, would be difficult to estimate. It is, however, a significant fact that invariably it is the poor farmer who countenances such neglect; those who are in more favorable circumstances knowing that such practices would work their ruin.

There never was a time when suitable housing, designed and used for implements exclusively, was more necessary than it is at the present day. A rapid succession of new labor-saving machines, many of which are delicate and complicated, is continually coming to the front. The nature of these, appeals to the good judgment of progressive farmers. When purchased, some place is needed in which to properly protect them

Reading in Farm Families

(Breeders' Gazette)

Literature is a brain food of which character is made. Wholesome reading for families in the open country is as essential as good food in the evolution of efficient citizens. An appetite for a better quality of periodical literature is growing in all agricultural communities. High-class journals and magazines find their most appreciative and helpful readers on farms. Rural mail carriers are delivering tons of these publications at homes where melodramatic trash has ceased to charm. In the unfolding of the larger rural life the taste for literary dishwater has been supplanted by an instinctive craving, awakened by the sweep of progress, for a higher type of reading matter.

Parents who seek conscientiously to discharge the obligations which the rearing of children imposes, cannot be over-cautious in supplying their homes with books and current literature. Quantity is not the need. Piles of cheap papers and libraries of bound rulbish afford a plenitude in which a keen mind can be starved and distorted. Quality is the vital desideratum. A few weeklies offer it seasoned and embellished, and a few magazines are full of it. Less than five feet of shelf will hold most of the books which the centuries have approved. It is not for us to suggest books or periodicals to seekers of the best; they will ultimately get together. We warn against the cheap and vicious publications and books which

sneak into farm homes. The Gazette believes with "The Youth's Companion" that "parents are the natural leaders in selecting the reading of the family." Theirs is a type of leadership which is econd to none in its final consequences. Uplifting and inspiring literature is

periodical reach of e seeks it v Reeeee Crea Butter M tions to the matters rel gest subject letters to the 200000 Some What is we kept afte strained the from the bu

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the cream One can as to the ture. It i tions, chief the cream. extent of the the acidity cream. Th more difficu the cows ar they are on factor, howe cream. The 5 per cent. may be said which will dition in fr churning. practice, this however, a would never low tempera

summer, In should be fr the same cre In creame creameries) (24 hours befo should be we thickened up flavor and a ance, before kept too lon farm practic cooled down a 52 degrees for from thre The chance the butter or

churned at t Hot cream, or in hot weath sults. There is so For churning should be tal cent., for the temperature i for having mu 25 per cent. give better sa than a 30 pe small churns

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One cannot give definite directions as to the proper courning temperature. It depends on several conditions, the depends on several conditions, the depends of which is the ripeness of the cream of the cream of the cream of the cream is, the extent of the food of the cow, the extent of the food of process of the cream. The riper the cream is, the lower will be the the cream the which it can be churned. The turner at which it can be churned the cream of th

summer. In winter the temperature should be from 60 to 63 degrees for the same cream. In creamery practice (whole milk creameries) cream is usually kept for 24 hours before churning. The cream is the control of the cream is kept too long before churning. Most cream is kept too long before a could down and kept at a temperature of 52 degrees. It may then be kept for from three days to a week.

The chances are that the cause of the butter coming soft is that the cream has been too thin and has been rounded at too high a temperature. In the chance of the control of the control of the chance of the cream that is not cooled in he weather, will give such results.

wills. A single weather, will give such rewills. So some milk in any cream.
For churning on the farm cream
for churning on the farm cream
should be taken from 25 to 30 per
cent, for the creaming 35 per cent.
For churning on the farm will right will the
cent for 24 hours. Then well right
for having much milk in the cream
for in small churns a 30 per cent. cream for in
small churns a 30 per cent. cream
would have to have some water added
to it in order to get the butter to
come properly.—J. F. Singleton.
Creamery Instructor, Eastern Oncreamery Instructor, Eastern On-

The Home Pasteurizing of Milk L. A. Rogers, Bacteriologist, Dairy Division, Washington, D.C.

Division, Washington, D.C.

Mik delivered in cities in the summer months frequently contains bacteria in such large numbers that it is
not a safe food for children, especially
for initants whose food consist entirely
of milk. In many cities a special
milk can be secured, but this is someofmilk can be secured, but this is someofmilk can be secured, but this is someofditions, expense. Under such circumditions, expense. Under such circum-

periodicals and books is within the ceach of every farm family. Whoever seeks it will find it.

Creamery Department

**Butter Makers are invited to seed contribute to be consumed by small children. The pasteurization should be done in such a way that disease-producing bacteria as well as those likely to produce in estimal disturbances are destroyed without at the same time injuring the flavor or the nutritive value of a milk. This may be accomplished milk. This may be accomplished in the proper temperature for craam to churn? Itope temperature for craam to churn? Itope temperature for crame to churn? Itope temperature for crame to churn? Itope temperature for crame to churn? Itope and the milk most conveniently pasteuristic and the comming of the transparation of the consumed to the common give definite directions as to the proper comming temperature. It depends on several conditions, chief of which is the rippenses of the crame. Other is the rippense of the crame. Other is the proper comming temperature. It depends on several conditions, chief of which is desirable as the common tipous, chief of which is desirable as the common of the consument of the proper comming temperature. It depends on several conditions, chief of which is desirable as the common of the comm

an inverted cup.

After the milk has been held as directed it should be cooled as quickly
and as much as possible by setting
in water. To avoid danger of breaking the bottle by the sidence change
of temperature, this could be warm at first. Replace the should
be warm at first. Replace the sidence
water slowly with cold water. As we wanted to be
held at the lowest available temperature.

Dairy Meeting at Peterboro

Dairy Meeting at Peterboro
All that kept the Peterborough district meeting of the Eastern Dairymen's Association, held at Peterborough on Wednesday, November Brd,
held the Brd of the Brd of the Research
held the Research

milk.

The composition of milk, and the uses of the various constituents in cheese making, formed the main part of the address given by Mr. Singleton. This address was pointedly il-

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ustrated by means of samples of the various constituents in their relative quantities, each constituent being in an individual bottle. Other subjects touched upon by Mr. Singleton were the care of samples, the matter of paying by test and some discussion relative to the creamery business.

Information of interest to farmers locally was brought out by Mr. H. C. Duff. He dealt briefly with the work that he is engaged in and spoke of the advantages of the Farmers' Institute Clubs. A club has been alsitude Clubs. A club has been alsitude of the same of the advantages of the same and salesmen as leaders in their random salesmen as leaders in their random salesmen as leaders in their random the formal salesmen as leaders in their assistance wherever possible.

ings have been arranged for as fol-

various constituents in their relative quantities, each constituents in their relative quantities, each constituents in their relative quantities, each constituent in their relative quantities, each constituent in their relative quantities, each constituent being in an individual bottle. Other to constitue the care of samples, the matter of period of the care of samples, the matter of period of the care of samples, the matter of period of the care of samples, the matter of period of the care of the care of samples, the matter of period of the care of the care of the period of the care of

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Makers are invited to send contributions to the department, to ask questions on matters where the contributions of the contributions of the contribution of the contri #88888888888888888888888

Business in Flourishing Condition at Glanworth

Farm and Dairy,-I visited Ed., Farm and Dairy,—I visited the cheese factory at Glanworth and found everything in a flourishing condition. Mr. Geo. B. Brodie, the owner says, "That the rush of milk this company for 1910." season means enlargement for 1910." On the morning of my visit 25,543 lbs. of milk were received, and the total output of cheese this season will be in advance of 175 tons. Which means the distributing of more than \$7,000 a month among the farmers.

a month among the farmers.

Mr. Brodie won a diploma and medal at Chicago and a diploma at Buffalo. While at the "Donnybrook Fair," the largest local fair of this county, he won a first on his cheese. Mr. Brodie further informed the writer, that his patron's hereds were composed of about half Durhams, and half Holsteins. He could see no difference in the milking qualities of either kinds. He says where cows were well cared for, and intelligently fed, the milk was sure to be forthcoming."
Many silos are in use, and much corn grown.—James E. Orr, Middlesex Co., Ont. er, that his patron's herds were con

Instruction Work in Peterboro Section, 1909

R. W. Ward, Dairy Instructor

It is gratifying to me to look back over my 11 years' work in the Peter-borough section as dairy instructor and sanitary inspector and be able to note the change and improvements that have been made. Improvements been more marked for the last few years under our new laws and system of instruction. A number of factors have contributed to these improvements, but one I wish to make special mention of is those meetings held in connection with the factory business meetings at the close of th season. I am sure we all appreciat the assistance that we have had from the Governments both at Toronto and Ottawa.

I have found the officers, patrons owners and makers, almost without exception, ready to co-operate with in bringing about the necessary me in bringing about the necessary improvements, which has made the work more pleasant for me, and the work more pleasant for me, and the success of it greater, more permanent and lasting. The dairymen of Peterborough section I know must be twell pleased with the results of the well pleased with the results of the have been considered that the please of the please past season's operations. They have had good demand for their product at a very uniform good price, coupled with a good supply of milk up to the closing day of the season.

BETTER CONDITIONS PREVAILING
I have had under my charge this
eason 36 cheese factories and one and one creamery and am very pleased to be able to state as a whole that the milk has reached the factories this season in better condition than ever before.

In better condition than ever observed.

I think it is up to us as instructors and makers to sit up and do some hard thinking, for the thought has been forced to my mind for the last two seasons, that the patrons as a two seasons, that the patrons as the season of the I think it is up to us as instructors

and creamery let me say, make pro-vision for cooling, and the proper stor-ing of milk and cream for the season

COOL CURING ROOMS

I would say to the patrons of every cheese factory, meet the owners of them on the question of expense, and have cool-curing rooms installed. The value of holding cheese at a cool temperature has been so well proven that

perature has been so well proven that I need say no more. The aim of the producer should be to produce a first-class article at the teast cost possible. I think it was the H. H. Dean, B.S.A., who said "Freed Feed and Weed." There is probably it is than we see at first H. H. Dean, D.S.A., who have been probably more in this than we see at first glance. If good cows, liberally fed, and properly cared for, do not show right performance at the pail then weed them out. I have noted and Leen pleased to see more corn growing this year than usual. With silos was also in the pair then control of the control ing this year than usual. With silos and alfalfa hay the cost of feed should be materially lessened. For weeding, there is nothing better than weighing and testing the individual in fact it is the only thing, so would advise every cow owner to make use of the cow testing associations that have been placed within the reach of all.

EQUIPMENT OF FACTORIES

Your cheese factories on the whole are very well equipped and managed and are kept quite clean and sanitary but there should be a determined effort made to exclude the flies. There is more trouble in the surroundings at more trouble in the surroundings at the whey tanks than from any other cause. Let me suggest that the tanks be kept clean and cement platforms on which to load the whey be installed and have these connected with under-ground drains.

ground drains.

Every cheese factory, to my mind, should be equipped with alkali test, curd or fermentation test, lactometer, and Babcock test, and all milk should be paid for by the Lutter fat test. In my group of 36 factories, there are 14 that may be hunter fat, test.

The make and the quality of the cheese on the whole for the season has been very good. Probably the great-est mistake made in the manufacture was in the fore part of the season. The ourd was not allowed to form sufficiently in the whey resulting in dim color, short sandy texture, weak body and they were not as close as they sho believe 90 per cent. of the faults in manufacture would be trace able to this one source. We are liable to run into these conditions every year under certain conditions of weather and feed, but this year it seem to be more pronounced than usual.

Let me say to makers, keep close watch of the curd while it is in the whey, and you have and if properly firmed when removal, the quality of your cheese will be pretty well assured.

STARTERS ADVOCATED

I cannot close this paper without a word on the starter question. I would like to see, and think that every maker should attend a dairy school, and if they did I do not think school, and if they did I do not think they would use ordinary sour milk as a starter, and take chances of all the wrong fermentations it may con-tain. I most strongly advise that every factory be equipped for carry-ing a pasteurized starter prepared every factory be equipped for carrying a pasteurized starter prepared
from a pure culture and then have
this used intelligently and in moderation. I have a few makers, but am
pleased to tell you that they are very
few, that are doing their patrons
serious harm by the too free use of
sour milk. sour milk.

I hope and trust that there will be greater effort put forth by all next season than ever before, for the up-lifting and placing of this great in-dustry, dairying, on sure and right footing where it rightfully belongs on be. Do not use rusty tinware of any account of its importance in the agri-kind in storing or handling milk. To cultural industry of this country.

Dairy Meeting at Lindsay

(Continued from page 6)

Farm and Dairy readers know, is to cool the milk immediately after milking and not earate it; the cooling to be effected by setting the can into a tub of cold water. Experiments on a larger scale have been carried out this year involving all the patrons of the Smith's Falls factory. The work of the past summer, as was the case in connection with experiments can consider the fact that the patrons of the past summer, as was the case in connection with experiments. and Dairy readers know, is to case in connection with experiments of a year ago, points to the fact that the cooling without aeration is the proper thing to do.

Glendinning dealt with the arr. Grendining dealt with the feeding of the dairy cow, and showed that the business was one of dollars and cents, that we want to feed our cows at less cost than we did in the past and yet get plenty of milk. This can be done by feeding a suitable ration of corn silage and alfalfa hay, by supplementing pastures, and by providing cows with sufficient feed at all times. He urged especially the providing cows with subspired at all times. He urged especially the need of feeding cows and fleshing them up when dry in order that they would have a store of flesh that they could draw on after freshening.

THE BAN ON RAPE AND TURNIPS The report of Instructor Cameron showed that he had inspected creameries as well as cheese factories, that there had been a considerable increase in the amount of cheese made, crease in the amount of cheese made, that the quality of the milk supplied was slowly but steadily improving and that the majority of the factories were kept in good sanitary condition. Mr. Cameron pointed out that a few patrons still make the missage of the majority of the practice should be condensed by a practice should be butter manufacture.

Mr. J. F. Singleton stated that the Mr. J. F. Singleton stated that the greatest need for the creamery busi-ness was cream in better condition. At present much of it is delivered too thin and most of it is sour, this lat-ter being due almost wholly to lack of cooling. Patrons were inclined of cooling. Patrons were inclined to think that the cream was not gath-ered often enough. Under present creamery conditions, it was not pos-sible to haul it oftener. If the sep-arators on the farm were kept clean and a thick cream taken, cooled im-ditional conditions and the condition of the cool-mediately, and kept cool, there would he no sour cream delivered, even if mediately, and kept cool, there would be no sour cream delivered, even if it were only drawn twice a week. The success of the Locust Hill creamery, which accepts nothing but sweet cream and draws only twice a week, was spoken of to illustrate this point. Mr. Singleton called upon all to urge the gospel of putting up ice every. where.

CREDIT WHERE CREDIT BELONGS

Credit was given Mr. Henry Glen-dinning for the great results that the country was reaping from the many times that he had addressed meetings on the question of feeding the dairy cow. Seven years ago, a merchant in Lorneville had sold but one bag of in Lorneville had sold but one bag or seed corn and had never heard of al-falfa. Now he sells a car load or more of seed corn each spring and a demand is springing up for alfalfa seed. Merchants in other towns in the district also reported largely increased sales of seed corn. The time when farmers used to try to produce milk on timothy hay and barley chop had become a thing of the past. Fig-ures showing the condition of creameries seven years ago, taking in cream eries from Lindsay west to Lake Simcoe and comparing them with their output to-day were given; 90,000 pounds of butter having a value of \$16,200 were the figures for the sea-\$10,200 were the figures for the season seven years ago. This year, the figures were 575,000 nounds of butter having a value of \$138,000. In concluding Mr. Newman stated that there was no excuse after the instruction that had been given, why they should not receive good milk and cream next

MISLED

ing a modern cream separate needs disks or other complicated parts inside the bowl? Makers and dealers selling common separators like you to be-lieve so because they know their machines must have

The simple, sanitary, easy-to-clean Sharples Dairy Tubular has nothing in the Dairy I ubular has nothing in the bowl except the tiny piece here shown on the thumb. Compare washing this single piece with wash-ing the pan full of disks



disks here shown from a common separator. Yet Tubulars run easiest, skim fastest, and cleanest, wear longest—are The World's Best. Tubu-lar sales veged most lar sales exceed most if not all others combined. Tubulars
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more common separatorsevery year than
any other maker
sells.

The manufacture harten 29 of Tubulars is one of Canada's yrs

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Central Business College In this school you may enjoy practical training at small expense of time and money which will positively bring you a good salary. Posting bring you a good salary. ase write and let us help yo W. H. SHAW, Principal
Yonge and Gerrard Streets - Toronto

A Pleased Winner -The pig I rewas sent me by Mr. W. J. Murphy, of Rockburn, Que., for a club of seven new subscribers to Farm and Dairy, new subscribers to Farm and Dairy, arrived in fine condition and I must say that I am well pleased with it. I am very thankful to Farm and Dairy for having given me the opportunity of procuring such a pig. It is a credit to Mr. Murphy to have such stock.—F. J. Pelletier, Que.

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SHE made shed. She carefully in Thanksgiving great respect ner even in away daintily in cooking had mous turkey brown and The truding. The over her sho door she plu anarchist, no for her opprehaving a spi with which a a toy. She they were cra forcibly the sc was ridiculous

Novem

was terrible. When Hann home, she me young grands him home to 't ther's. Both nah amazedly. quite well. Fi in a hoarse w got in that o Dodd?"

"None of you Hannah, and s staring after h She heard t Somebody ha givin' dinner,

Down the fro Dodd, never wheavy basket, own house. He ed the door an suddenly their up with joy. The leautiful store l mother by those Farlands. They steps, and dance

steps, and dance tioned them aw head covered w "You jest kee ain't for you, n needn't think it faces fell. The gan to cry. "S cried Hannah s open the shed d this truck in the this truck in the Hannah entered

dren huddled tog the cold, and s sacred, wonderin "Oh, mother,"

Oh mother, w setting the bask





The that brings sunshine into the lives of others, cannot keep it from himself.



The Strike of Hannah

Mary E. Wilkins Freeman.

SHE made two strides into the wood, shed. She returned with a great clothes-basket. Then she founded acarefully into it the Machanian cent, frightened eyes. "There agreat respect for this stupendous dimension of a way everything carefully and daintly in the post done. The enormous turkey crowned hence. The enormous turkey crowned when whole, his brown and unctous drumsticks protruding. Then without stapping for ner even in her rebellion. She stor-ed away everything carefully and daintily in the pots in which the cooking had been done. The emission mous turkey crowned the whole, his brown and unctous drumsticks pra-truding. Then without stopping fer her hat, merely dinging her old cape over her shoulders, out of the back door she plunged, a New England anarchist, not armed with a bomb for her oppressors' destruction, but anarchist, not armed with a bomb for her oppressors' destruction, but having a spiritual might compared with which a bomb would have been a toy. She was bearing away what they were craving, she was adjusting forcibly the scales of justice awry. She was ridiculous, she was homely, she was terrible.

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was terrible.

When Hannah was about half-way home, she met an old man with his young grandson who was escorting him home to Thanksgiving at his mother's. Both stopped and eyed Hannah anazedly. Hannah knew then the stopped han good man spoke the stopped and eyed hannah anazedly. Hannah knew then ther's. Both stopped and eyed Hannah amazedly. Hannah knew then quite well. Finally the old man spoke in a hoarse voice. "What hev you got in that clothes-basket, Hannah Dodd?"

"None of your business," retorted Hannah, and strode on, leaving them staring after her.

She heard the old man remark. "Somebody has give her a Thanks-givin' dinner, sonny," and she laugh-

Down the frozen road went Hannah Dodd, never wavering, carrying the beary basket, until she reached her beary basket, and shoot staring. Then suddenly their shoot staring. Then suddenly their shoot staring. Then suddenly their shoot staring the suddenly their shoot staring, then suddenly their shoot staring the suddenly their shoot staring with pay with joy. They thouse their shoot staring with the starin

faces fell. The two younger ones began to cry. "Stop that bawling," cried Hannah sternly, "and go and open the shed door. I want to fake this truck in there."

When the shed was opened and Hannah antered these was the stored and Hannah antered the species of the store that the shed was opened and the shed was opened

Hannah entered there were the chil-dren huddled together, shivering with the cold, and staring at her with sacred, wondering faces.

Oh, mother," began Eliza, the old-

"Oh mother, what?" asked Hannah setting the basket down carefully. "What is it all for?".

poor home and half-starved children was pitted against the rich man, who had the might of gold which prevails in the land, and who, never in his whole life had known the want of anything which gold could buy, and who was the might be supported by the same popular supported by the same popular fariand was a handsome popular land, whom everybody liked, even loved. His family had disappointed him in no fashion, everything had gone his way.

"What has become of our Thanks-giving dinner?" asked George S. Mac-Farland. He tried to speak sternly, but he could not to that poor tragic woman with those little frightened faces at her back.

"It is in our wood-shed in your clothes-basket," replied Hannah Dodd. "In what?"

"In your clothes-basket."

George S. MacFarland had never known that he owned a clothes-basket. His mouth twitched a little, then he cast a glance at the dinner-table in



Comfortable home of Mr. T. S. Cornell, Brant Co., Ont. The house was built about 50 years ago, and remodelled about five years ago. It is an up-to-date, cosy farm home. Gas is used for lighting and cooking and coal for heating. See plan of

I can tell you one thing; you can be square, and I see that some folks have

white, but undinching. There stood of Mr. George S. MacFarland stared of Mr. George S. MacFarland, handward and opulent in his sable-lined data looked at Hannah look was be wilderment and some indignation; in hers was the defiance of the poor and heavy-laden of the earn who at last arias.

Mr. George S. MacFarland handward to the looked at his look was be wilderment and some indignation; in hers was the defiance of the poor and heavy-laden of the earn who at last arias.

Mr. George S. MacFarland stared at land and the looked at him. In his look was be wilderment and some indignation; in the sex exactly how you are right of the same of the look of the looked at him with the utmost pride hooked at him with the utmost pride and defiance, as one who was fairly and defiance, as one who was fairly and defiance who has the dinner, and the was baked in the stove oven, and the wild have been with the looked at him. In his look was be will be said, "I don't see exactly how you are right of our and out of with an at look of wind Hannah and the look of the looked at him with the utmost pride and defiance, as one who was fairly and defiance. To replied Hannah and defiance, as one who was fairly and defiance with the stove oven, and the was baked in the stove ove

I can tell you one thing; you can be mighty thankful you've got as much mighty thankful you've got as much as you have. Some children don't have anything.

It was half an hour later, and Hannah and the children were still seated the table. They had finished the scanty mess of codfish and were cating a hasty pudding which Hannah had made from corn meal, when there came a knock at the door.

Hannah motioned the children to remain where they were, and then sently one of the season where they were, and then sently one ought to for which let discontinuously the sent which had made from corn meal, when there came a knock at the door.

Hannah motioned the children to remain where they were, and then sently on the sent which had the sently on rich MacFarlands with already the opan is fairly when you've need the sent who at least with the sent was the chefance of the was be wilderment and some indignation; in there was the defiance of the season when you was be wilderment and some indignation; in there was the defiance of the season when you was be wilderment and some indignation; in the was the defiance of the area of the season when you was be wilderment and some indignation; in don't see excetly how you are right-distributed by the season where you can you won't let them have any."

crowned with and throned on the dinners, and everything else, and Pro-Right. The country woman in her vidence don't mean things to be so shabby attire, with her background of uneven. I'm for givin' back things vidence don't mean things to be so uneven. I'm for givin' back things to the one that gave 'em, and let 'em be divided over again. If you rich MacFarlands have grabbed, it's no reason why I should, or why my children should."

You don't call it stealing then?" "You don't can it steaming to "'Stealing is taking something for yourself or them that belong to you," replied Hannah promptly. "I ain't

"You have only put my Thanksgiv-"You have only put my Thanksgiv-ing dinner on the scates of Justice," said George S. MacFarland. Then a most gentle and winning expression overspread the rich man's face. "I can tell you what is the best thing to do," said he.
"What?" asked Hannah suspicious-

"What?" asked Hannah suspiciously.

"You take hold of one handle of that basket, and I will take hold of the other, and you and your children come home with me and we'll all have Thanksgiving dinner together."

Hannah still surveyed him with suspicious, incredulous eyes. "You don't mean a word of it."

"Yes, I do. Tell that pretty little eldest girl of yours to hustle herself and the children into the warmest things they've got, and we'll start."

It was almost dark when Hannah and George S. MacFarland, bearing the clothes-basket between them, went up the street, with the children march.

and George S. MacFarland, bearing the clothes-basket between them are the property of the control of the contro

said. Then they kissed the children, and Miss Alice took the youngest, little Abby, who snuggled close to her back into the south room.

to abby, who snugger cross to ner back into the south room.

The fire was good, and it was not beak into the south room.

The fire was good, and it was not be table. Hannah Dodd sat at Mr. George S. MacFarland's right hand. She felt shy, but she had the native dignity and self-respect of New England. Mrs. and self-respect of New England. Mrs. and self-respect of New England. Hand solve glowered at first, then she had a both the she will be she wi

voice. Hannah Dodd looked at her. Then she spoke, with a great rigid tremor of truthfulness.

"I heard you say how much nicer that chicken pie was because it was baked in the brick oven," said she. "Yes, it was," replied the girl,

Well, it wasn't baked in no brick

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tors, but she could not tell whether rich MacFarlands were dividing with her, or she with them.

It seemed to her that she was on a

pinnacle of thanksgiving for the prepinnacle of thanksgiving for the pre-sent. She scarcely, for a moment, re-membered the past, and she certainly which she was to live with her chil-dren in the old MacFarland house, she taking the place of Mrs. Maria Gore as caretaker, while Maria was pensioned and sent west to live with pensioned and sent west to live with a niece. She watched her children eat, and she ate also, but as for herself, she realized no savor except that of a universal love and kindness which she had not thought existed, and an enormous thankfulness to God, and a comradeship with all who partock of his bounty.

(The End.)

********* The Upward Look **8**999999999999999999999999

Temptations

For we have not an high priest which cannot be touched with the feeling of our infirmities; but was in all points tempted like as we are, yet without sin

Let us therefore come boldly unto Let us therefore come boldly unto the throne of grace, that we may obtain mercy, and find grace to help in time of need.—Hebrers 4. 15, 16. The evil spirit, who is constantly

The evil spirit, who is constantly watching for opportunities to tempt us and to discourage us in our efforts to lead better Christian lives, is won-derfully ingenious in the methods he adopts. One of his favorite actions is put sinful thoughts in our minds and then endeavor to persuade us that they are our own and that we must be very wicked or we would not have such evil conceptions. This have such evil conceptions. This method he knows, is apt to confound confuse and discourage us especially if we have not been long started in Christian life. When Satan discourages us we are more ready to fisten to his further suggestions and to doubt God's power and willingness to

grace and in Christian power. Every time we refuse to listen to them and resolutely cast them out of our minds weaken the devil's hold upon us I we find it easier to reject similar temptations in the future. Wh resist the devil he flees from us. When we

Our text shows that even Christ was tempted and yet He was without This was because He refused to upon the devil's suggestions. act upon Christ must have been tempted much more severely than we are. In Luke 4, verses one to thirteen, we read that Christ was tempted by the devil in the wilderness for forty days. This proves that the devil put evil thoughts into the mind, even of the Son of God. Notice carefully verse thirteen God. Notice carefully verse infrience wherein it says that after the devil had ended the temptation he departed from Christ for a season. This ed from Christ for a season. This clearly implies that he returned later with further temptations. It is because Christ was

with further temptations. It is because Christ was tempted just as we are that He is able to sympathize with us in our struggles and why He is glad to help us in our times of need. When we are tempted we must remember that we are not tempted by God (Clames I. 13, 14), but by the devil

thoughts are a sign that we are in danger of sinning and a warn-ing that we should pray for strength ing that we should pray for strength and help to enable us to overcome the devil. It is a glorieus assurance we have that if we are really in carnest in our desire for help Christ will grant it to us for we know that He is able to save them to the uttermost able to save them to the uttermost he experience to the contract of the cont ve ask God and receive this aid we ask God and receive this aid we draw nearer and nearer to God. Thus we can do as the apostle James directs when he says, "My brethren, count it all joy when ye fall into divers temptations." (James 1, 2).—I.H.N.

. . . Country Homes Bertha A. Duncan, Emery, Ont.

(Concluded from last week)
Having considered the house itself one must not forget the outward surroundings. The country affords more help us.

We do not sin when we have evil beautiful house. The beauty of many thoughts. We sin only when we listen to and act upon them. Evil thoughts, strange as it may seen, are a means by which we advance in country, we are not our provided for space than the city to show off a beautiful house. The beauty of many

space, and can have a lawn, garden, | orchard, and probably a tennis court where use, beauty and pleasure may be linked together. Here there can be much artistic taste displayed in the arrangement of these outward sur-roundings. The back and front lawns roundings. roundings. The back and front lawns might be separated by a hedge, grape arbor, shrubs or even a wire fence covered with vines. The backyard may be screened from view in this way, but it does not follow, however, that it should be a catch all? for ash barrels, tin cans, and all kinds of rub-lish. On the contrary it should be lawn, and made as the pass the front all with the state of the state and seeds to beautify the home sur-roundings, and certainly affords much pleasure to young and old. A combina-tion of low-growing and high-grow-ing shrubs and plants can be arranged to give pleasing effects for the whole season, by judiciously having the low placed in front of the high-growing, and so arranged that there will be a succession of bloom, having together colors that will har-

having together colors that will har-monize instead of clash.

After all, it is not "four walls and a roof" that are of so much import-ance in the making of a home, as the life within the walls. Each member of the family can add his or her share of the family can add his or her share of the family can add his or her share ferably the sign of the home it. to see that everything in the house is convenient, simple, useful and necesto see that everything in the house is convenient, simple, useful and necessary, and that some definite plan exists for doing the work, with a view to having more leisure time. The same arrangement for a week's work may not suit in any two houses, so that each housewife must think for horself.

There should be a time for meals and each should put forth special ef-fort to be punctual. Those who pre-pare wholesome meals and have unpare wholesome meals and have unkind remarks passed about the food by people coming in late when things are not just as nice as they were at the appointed hour will realize the necessity of punctuality at meals. This could be taught to children, to make the household affairs run more smooth the number of the

the nonsenoid attains run more smoothly, and more pleasantly.

Usually in the country people find, or rather take, very little time for reading. There should be at least a

little time for reading each little time for reading each day, to keep abreast of the times, and every home should be provided with a newspaper and some good magazines and books along lines of interest to the family. In the living room, should be found every possible comfort provided for the family, when they meet during their spare moments of the during their spare moments of the day to enjoy a quiet hour together. Nor should music be neglected— "Music hath charms." Those who have a talent along that line might be allowed to cultivate it, as far as means will permit. Some of the simple airs are, in many instances, more pleasing than classical music, and add much to the entertainment in the

There are a great many games and means of affording amusement, and is the duty of every mother and daughter in the home to do her ut-most to make life there attractive, so



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empted then to look for pleasure in
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chat the husbands and sons may an icipate a pleasant evening around heir own fireside. They will not be compted then to look for pleasure in he undesirable places.

Country homes and country life increase many of our city friends as recy dreary and monotenous. For those of us who have grown up with the freedom of country life in our city, and place the city, where we are and noise of the city, where we are surrounded by all the beauties of Na-

... Good Farms Competition

of giving up such luxuries for a city some with its cramped surroundings, calls forth considerable sacrifice. City life affords advantages which one does not get in the country, but too often people overlook the comforts with which they are the seed in the country, and seek city life with all its rush and glare.

There is too much discontent in the world—a constant desire to sud-

of it all. I see steady progress all along the lines of our work and it is all owing to these blessed competitions, sing us better farmers, better citizens us can do so much more, if we only have the desire. To desire what you want and work of work for what you want, is a good creed for success.—

"Aunt Faithie."

"Aunt Faithie."

Useful Presents

One of our new Cook Books would One of our new Cook Books would make a most useful holiday present for one of your friends. Why not send us two new subscriptions to Farm and Dairy and in return we will send you one of these Cook Books, free of cost.

cost.

For one new subscription, we can send you a 14k gold Fountain pen, which would be useful to any member of your family. Put these premiums away for Christmas. They make ser-

CANADA

viceable gifts and do not cost much, a few minutes only, in securing new subsciptions. Our new premium list is full of other equally as interesting and valuable premiums that could be used in the same way. The list is illustrated, and is worth sending for. A post card will bring you one, free

I think Farm and Dairy is steadily improving and meeting the wants of the farmers.—Mrs. D.J.M., York Co.,



HOME KNIT HOSIERY These stockings can be knit in 30 minutes on Gearbart's Family Kults dearnas ter. New machine with Ribbing Attachment. Knits everything for home or trade. from factory or home spun

ON'S CATALOGUE TEATON C CIMITED TORONTO

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

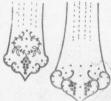
Embroidery Designs

Designs illustrated in this column will be turnished for ill ontie each, will confer a favor by writing will confer a favor by writing Household Editor, asking for same. They will be published as soon as a smaller after request is received.



420 Design for a Braided Bolero.
Especially adapted to May Manton P ttern
No. 6161.

Patterns for stamping front, backs and two sleeve tops are given
Soutache braid (silk, mohair and
cotton) and rat-tail cord are appro-



436 Design for Embroidering a Double Jabot.

The scalloped edges are designed to be padded and buttonholed; the sprays of leaves and the round dots to be worked either in solid embroidery or as eyelets; and the stems are to be outlined.



412 Design for Embroidering a Dutch Collar and Rolled-Over Cuffs. Especially adapted to May Manton Pattern 6316.

The scalloped edges are designed to be buttonholed. The stems are to be outlined and the flowers, leaves and dots can all be worked as eyelets, or the flowers and leaves in solid em-broidery and the dots only as eyelets. ...

To set colors in wash goods add a handful of salt to a three-fourths pail handful of salt to a three-rourths pall of hot water—also two tablespoons of turpentine. Put the material in this and let remain until the water is cold. This will set the colors permanently and neither sun nor washing will fade them afterward.

... Have you won any of our new pre-mlums? If not, better send for Premlum Liet at once.

OUR HOME CLUB

One of the most encouraging of mod-One of the most encouraging of mon-ern tendencies is the growing inclina-tion towards simplicity. It has taken us a long time to learn that a clutter of so called, "fancy work" is not ne-cessarily a thing of beauty and a joy forever.

To be desired to the control of the

A BOY'S EXPERIENCE

I have read a lot about how to keep the boys on the farm and think that I will take a whack at the subject myself, even though it is worn almost threadbare and out-at-the-knees. I was a boy once myself, if I remember rightly; and thereby hangs a tale. I got some schoolin until about 12 years of age when one day along came two city boys to visit frame. two city boys to visit friends that lived in a big house not far away from my dad's little shack.

As those city boys were a little older

As those city boys were a little older than I was, they made fun of my country ways and old paced of and I didn't like it ab I. I man said and I didn't like it ab I. I man said fo give one of them a good licking one day but the next time both of them pitched into me together and for a week afterwards I had to carry my left eye in a sling and stand up to my meals. Well, there was no fun in that; so, I reasoned it out that if two hows could give me such a drubtwo boys could give me such a drub-bing what could a whole city full of boys do to me. The thought of it kept me on the farm. I wonder if that is the reason that I am here now.—"The Hired Man."

SHALL THE SON BE PAID?

Who ever heard of paying the son wages? Surely that is never done? Yes. But you need not call it wages. Call it what you like. The principle is the same, however, namely, the boy must be getting some returns for his labor commensurate with his idea. must be getting some returns for his labor commensurate with his idea of the value of the work he performs else he will not be satisfied. Whether or not you would have the boy in that happy or unhappy frame of mind is for your parents to say.

"Pay the boy? Why, he will have "han I am through with i!!" Too

when I am through with it!" Too true. But you may be a long time

FOR economy in the table expenses increase the amount of Quaker Oats; eat it at least twice a day. It does more than other foods and costs only a fraction as much.

dying and your son, let us hope, is one of ambition and in his mind he has a real need for something counting in right now. He may not live till his Dad is dead and gone. You have to pay a hired man. Surely you would rather have a son with you than an ordinary hireling. If you would keep him in these modern times you will keep him in these modern times you will weep in will receive some suggestion, as to ways and means of working out this pay, from "The Son." ...

Care in Ordering

We have several orders for patterns on hand, which we are unable to fill, owing to incomplete address of the senders. Several orders give no address, soveral orders give no address, several have omitted size of patterns desired, while others do not state number of patterns desired. We are unable to fill these. All orders should give name and address, number of pattern and size desired. If you are without receipt of patterns ordered, this may be the reason. Better ed, this may be the reason. Better send in duplicate orders at once, if such is the case. ...

Buckwheat Cakes BY REQUEST

Ingredients:—I pt buckwheat meal, I qt water, salt according to taste, I gill home made yeast.

Mix the water (which should be lukwarm if the weather is cold), with the meal add the salt and yeast; beat it well; when light, bake them on a griddle. Grease the griddle; pour on griddle. Grease the griddle; pour on the salt of the s till a nice light brown. They are much nicr if served hot, and only one or two served on a hot plate. They ...

New Musical Folios

We publish in this issue in our Musical Folio premium advertisement, the contents of some New Folios, we have contents of some New Folios, we have been able to secure. They are sure to interest you. Read the advertise-ment and find how to obtain one of these Folios absolutely free of cost. ...

Useful in Filling Lamps

The disagreeable task of filling lamps is greatly lightened by building a con-trivance like the one shown in the illustration. This one is large enough to support a five-gallon oil can and



the projecting shelf underneath holds the lamp. If fastened to the wall high enough so that the user will not have to steep, the convenience will be much greater. ...

If troubled with perspiring hands, wash frequently in white wine vine-gar, and dust with powdered orris

***************** The Sewing Room

Patterns 10 each. Order by number and size. If for children, give age; for adults, give bust measure for waists, and waist measure for skirts. Address all orders to the Pattern Department. e and dies. It for mossure no for adults, give bust measure for exists, and waist measure for ekirts. Waists, and waist measure for ekirts. Address all orders to the Pattern and Address all orders to the Pattern Dopartment.



The prince tume, made with Jersey waist and plaited skirt, is one of the smartest. This one smartest. This on is closed with but tons and buttonhole at the left of the front, and includes a V-shaped chemisette The dress is adapted to silk as well as can be utilized for the combinations that

are so much vozue.

Material required for medium size is 11½ yds 24 or 27, 6½ yds 44 in wide, with ½ yd 18 in wide for hemisette

chemisette.

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

FIVE GORED YOKE SKIRT 6456



Every form of the much worn this coming season. It can be either gath-ered or tucked, and consequently it suits a variety of materi-The skirt is cut in

The skirt is cut in five gores and is joined to the yoke. The yoke is fitted by means of darts over the hips and the closing is made invisibly at the back.

Material required for medium size is 7% yds 24 or 27, 6% yds 32 or 44 in wide.

and 30 in waist, and will be mailed on receipt of 10 cts.

CHILD'S YOKE DRESS 6457



A simple dress such as can be utilized can be utilized in a great many different ways. This yoke could be made of all-over material, however, and for the banding either lace or em-broidery is appropri-

Material required for medium size (4 yrs) is 3 yds 24, 2% yds 32 or 2½ yds 44 in wide, with 4 yds of banding and %

The pattern is cut for children of 1, 2, 4 and 6 yrs and will be mailed on receipt of 10 ets.

TUCKED PANCY BLOUSE 6458



The simple tucked blouse is always a pretty one. The model can be utilise ither for the owaist or for the gown. It can gown. It es trimmed with trasting bands lustrated or with fancy material may be preferre Material requ

Material reformedium s 3½ yds 21 or yds 32 or 2½ in wide with ½ silk for trimm t for a 32, 34, The pattern is cut for a 32, 34, and 40 in bust, and will be mailed

... Write for our New Premium List. APSLEY.-Thresh

roots all up. The not one-thir

Noveml Keesese OUR F

. PRINCE

KI CARDIGAN have made po wet fall all t Up to date, a The potato cre erage one. So ers have quite ple of our ent chased a pota-er," which tal and six pickers use the beater potatoes quite four horses to pickers to kee hang to the o out and hacki with their har only a short Jwns and farm largest farm in Island, digs 35 every year and in the field. good work when Grain crops tur and late wheat stook. Turnips are twelve scho are tweive scho at the present lows: Oats, wh potatoes, 20c a i pork, 10c a lb. from \$100 to \$2 \$30 ... \$40 ea mostly done.—H

L'ISI VILLAGE DES is generally go both shores of

north as Rimou mer; \$2.50 for fa apples. The pi light, but some varieties in L'Is selling at \$3 a

COMP WATERVILLE.

WATERVILLE, vanced The fanished. Thresh vanced The fanished. Thresh vers are well plet tatoes have bee found to be an and sell from 2 carly frosts preving as good as where apples as well with the fanished fanis

0 GRENVI PRESCOTT.—The

rescort.—In it grain. Farmers a meal as formerly have started to are feeding oats the buckwheat w The potato crop ord; a large quar some farmers come ord; a large quar some farmers com scabby. Unmarke to the cows. Th the same as last under way and ne under way and ne ber of our farn hay is selling for hay, 814 to \$15; wheat bran, \$24 a dox; butter, 27c a bush; potatoes, ens. 75c to \$1 a

C. PETERBO

but not the b buckwheat wa only bumper

PRINCE EDWARD ISLAND

INNO'S Co. P. E. I.

CARDINAN BRIDGE, — Heavy rain falls have made potato digring very disagreeable made potato digring very disagreeable and the potato digring very disagreeable and the potato digring very disagreeby the potato crop in general is only an avgrage one. Some are, about through: other ore have quite a bit of low land is flootied. The potato crop in general is only an avgrage one. Some are, about through: other have purchased a potato digree fathers have purchased a potato digree fathers to have purchased a potato digree fathers to have purchased a potato digree fathers to have the same of the country of

QUEBEC

L'ISLET CO., QUE.

VILLAGE DES AULNAIES.—Apple crop is generally good east of Montreal, on both shores of the St. Lawrence, as far north as Rimouski. Price, 81.90 for summer; \$2.50 for fall, \$5 to 8.50 for winter apples. The plum crop was generally light, but some orehards of European light, but some orehards of European, silling at \$4 as bushel.—A. D.

COMPTON CO., QUE.

COMPTON CO., QUE.

WATERVILLE.—Parm work is well advanced. The fall plowing is nearly all control of the fall plowing in the fall plowing is nearly fall plowing in the fall plowing in the fall plowing is not control of the fall plowing in the fall plowing is not control of the fall plowing in the fall plowing is not plowing in the fall plowing in the fall plowing is not plowing in the fall plowing in the fall plowing is not plowing in the fall plowing in the fall plowing is not plowing in the fall plowing in the fall plowing in the fall plowing is not plowing in the fall pl

ONTARIO.

GRENVILLE CO., ONT.

PERSCOTT—Threshing is over and there is more than the average quantity of grain. Farmers are not buying as much meal as formerly, and a large number have started to grow buckheat. They have started to grow the started to grow the started to grow and the property of the potato crop was the large quantity are grub eaten and some farmers complain about them being scabity. Unmarketable once are being fed to the cows. The turnip rop is about the same as last year. Plowing is well under way and next week will see a number way to gray the seed of PRESCOTT.-Threshing is over and there

PETERBORO CO., ONT.

APSLEX.—Threshing is all done, and roots all up. The grain crop did not come by to expectations. Peas, in most eases were not one-third of a crop; oats did on but not the big yield that was looked for but not the big yield that was looked for but not up the peasance of the peasance of

OUR FARMERS' CLUB of Contributions Invited.

Contributions Invited.

PRINCE EDWARD ISLAND

KING'S CO, P. E. I.

OARDIGAN BRIDGE. — Heavy rain falls have made potato digging very diagree.

And backward. It has been a very contribution of the season of the contribution of the contribution of the season of the contribution of the contrib

BRANT CO., ONT.

BRANT CO., ONT.

ST. GEORGE. — Silos filled, apples picked, roots harvested, the rush of work over. These are the days when the farmover. These are the days when the farmover. The silos is a defect which time and warmer will be silved in the silos. That on early plowed land the silos of the

OXFORD CO., ONT.

OXFORD CO., ONT.

NORWIGH.—Pastures have been very poor all, weather was very dry and cattle fresh the best of the cattle fresh the first of the cattle fresh the

WATERLOO CO., ONT.

WELLINGTON CO., ONT.

WELLINGTON CO., ONT.
MOUNT FOREST. "The last harrest of
the year, that of potatoes, roots and appies, is just drawing to a close. Potatoes for the most part have been a light
crop. Mangold shave been light also but
tarnips and apples have been good. Although fall raise have not been heavy
yet they have been rather frequent and,
consequently, late growing crops, such as
turnips and rape, have made good growth.
—O. N.

MIDDLESEX CO., ONT.

KILWORTH.—This is an old settled part; in about 1309 pioners built their cabins along the river bank. One hundred rears of faithful industry is noted in execution of the control of the wheat considerably. Leads of milk so from here to London daily. Some also goes to the cheese factories—J. F. O. ont.

LIVE HOGS

We are buyers each week of Live Hogs at market prices. I 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

\$7.85 a Cwt. FOR HOGS WEIGHING 160 TO 220 LBS.

THE GEO. MATTHEWS CO., LIMITED PETERBOROUGH, - HULL, - BRANTFORD

while back this strong winged bird has been raiding the farmers' gouttry yards, and one flock of hooice birds warmer yards, and one flock of hooice birds warmer and a consideration of the constraints of

HURON CO., ONT.

HURON CO., ONT.

BLYTH.—During no time in the whole year has the agriculturist been so busy as now. The weather has been anything to the property of the prope

BRUCE CO., ONT.

BRUCE CO., ONT.

HEPWORTH-The latter part of October has been very disagreeable weather for all farm work. A large quantity of potatoes are not dug yet, and the fall plowing is getting behind also. Potatoes are a cood crop; the blight did not strike them and the tops remained green very them and the tops remained green very them and the tops remained green to the same them are from 8c to 4c a bag. Our Farmers' Club meets once a month. The topies for November are: "The Growing of Mfalfa," "Shall the Boys and Girls be left at School and Colleges" and "How to Increase the Preduction of our Farmers."—

SUCCESSFUL TRAVELLERS HAVE AN

SUCCESSFUL TRAVELLERS HAVE AN OUTTING

One of the finest trips ever planned commenced on November 3rd, when the Frost Wire Pence Company took 16 of its agents on a 30 days outing through the western on a 30 days outing through the western of the pence of the pence

through fail raise have been good and though fail raise have not been heavy yet they have been size of the provided for our parts.

It is "Shall the Boys and Girls be left at School and College?" and "How to consequently, late growing cross, as and turnips and rape, have made good growth.

KILWOEFH.—This is an old settled part; in about 1799 pioneers built their causes along the river bank. One hundred causes along the river bank One hundred that they are the confort and prosperity is noted in the comfort and prosperity is noted in the comfort and prosperity are noted in the comfort and prosperity are noted in the comfort and prosperity are noted in the comfort and prosperity is not the comf

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458

Toronto, Monday, November 8, 1999.—The | S14.50 to 815 for timothy, and 815.50 to 814 tability of trade and the general pro- for under grades, and 87.50 to 88 a ton for stability of trade and the general progress of the country is no longer in doubt. Yet there is need for caution, as several failures of recent occurrence, show that credits are not carefully guarded In most lines orders continue to come in well and remittances on account are as good as can be expected at this season of the year. Merchants are beginning to feel the effects of the marketing of the big grain crop in the west, which is having a buoyant effect on western busi l loans are advancing, showing re is a greater demand for a other purposes.

WHEAT

The wheat situation is about the same s a week ago. There is some uneasiness as a week ago. There is some uneasiness in the trade, owing to the bearish news from Europe, though it has had little general effect upon prices, excepting in the speculative markets, which fluctuate general effect upon prices, excepting in the speculative markets, which fluctuate anyway with every little flurry in the trade. Towards the end of the week cables were lower and orders for four for export at the local mills here had received the second of the trade. Towards the end of the week cables were lower and orders for four for export at the local mills here had expected the end of the

COARSE GRAINS

COARSE GRAINS

The oat market rules quiet without any reduction in price however. At Montreal western oats are quoted at 4% on spot, and Ontario and Quebec oats at 4% to 40% a bush. Dealers here quote western oats at 3% to 3% of 70 to 3% out the contract of 3% of 10 to 4% of 10 to 40% a bush. On track Toronto. The to 4% of bush on track Toronto. The bush of 4% of 10 to 4% of side as to quality, and peas at 86 to 57c. On Toronto farmers' market oats sell at 42c to 44c; barley at 61c to 65c and peas at 60c to 80c a bush.

FEEDS

An easier feeling in bran is reported at Montreal owing to increase i receipts and limited demand. Prices for Manitoba at Montreal owing to increase! receipts and initired demand. Prices for Manitoba bran have declined \$1 a ton. It is quoted there at \$19 to \$20, and shorts at \$21 to \$1.50, and \$20, and Ontario bran at \$21 to \$21.50, and \$20, and Ontario bran at \$21 to \$21.50, and \$20, and

The corn market continues quiet. ican corn is quoted here at 65½ to 70c a bushel in car lots Toronto. There are no quotations yet for Canadian corn.

HAY AND STRAW

good local and export demand for is reported at Montreal, where prices firm. Quite a lot of hay is being ped from there to Ontario points. are nrm. Quite a lot of hay is being shipped from there to Ontario points. Quotations for baled hay there rule as follows: No. 1, \$12 to \$12,50; No. 2, \$10 to \$10.50; No. 3, \$9 to \$9.50, and clover and clover mixed at \$9 a ton in car lots. Quotations for baled hay here rule at

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 mot blister or remove the hair. Will sell you more if you write, \$2.00 per bottle at Clear or cellul's Book tofree.

ABSORBINE, JR., for mankind. st hottle, Reduces Varicote Veins Variety forceste. Rupaured Muscles or Ligariety distances. Allays pain quickly, alread Glands. Allays pain quickly, alread Glands. Allays pain quickly.

tor under grades, and \$7.00 to \$5 a ton for baled straw in car lots on track Toronto. On Toronto farmers' market locse timothy sells at \$16 to \$22; clover at \$8 to \$10; straw in bundles at \$16 to \$17, and looce straw at \$8 to 89 a ton.

POTATOES AND BEANS

POTATOES AND BEANS
Potatoes are arriving in large quantities, and the market has an easy tendency. At Montreal white Ontarios are
quoted at 45 to 50 a bag in ear lots.
The local demand there is very good.
With potatoes, hough pretty well stocked
with potatoes, though one of the More
are coming in. Quotations on track Two. are coming in. Quotations on track Toronto in car lots are 50e to 55e a bag, and 65e to 76e out of store. On Toronto farmers' market potatoes sell at 75e to 30c a bag. Western Ontario beans are coming in in larger supply, and the market is easier. Quotations at Montreal are \$1.67 to \$1.70 a bush. in car lots there for three pound pickers. Dealers here quote the market easier at \$1.75 to \$1.80 for primes and \$1.95 to \$2 a bushel for hand picked.

EGGS AND POULTRY Fresh eggs are very scarce and most of the trading is in storage stock. About 23c is being paid f.o.b. at country points for the trading is in storage stock. About 25c is being paid f.o.b. at country points for fresh gathered, and 35% in smaller lots. Presh gathered stock is quoted firm here at 5c in 25c at dozen in case lots. One at 25c to 25c at dozen in case lots. One at 35c to 25c at dozen in case lots. One at one storage at 25c to 35c a dozen. At Montreal dressed poultry is quoted in a wholesale way at 15c to 15c for turkeys; for 10c for genes; it to 10c for genes

lb. for ducks. Supplies of all birds at turkeys are increasing here and the market is easier. Live chickens are quoted at 9c to 10c; fowl at 7c to 8c; turkeys 16c to 17c; ducks, 10c to 11c; dressed 2c higher. On Toronto farmers' market higher. On Toronto larmers market dressed chickens sell at 15c to 15c; fowl, at 9c to 12c; spring ducks at 12c to 15c; turkeys at 17c to 20c, and geese at 10c to 13e a

FRUIT

A drop of 3s to 4s a bbl. in the English market was reported last week. Apple trading in Ontario has been active with strong competition between buyers on strong competition between buyers on British and northwest account. Some British and northwest account. Some sales of Spys were made in Esstern Ontario last week at \$3.51 to \$5.35 a bbl., and No. 2s at \$2.50 to \$3 a bbl. fob. The quality of the winter fruit; generally is 70 roroute farmers' market apples acil at \$4.50 to \$3.50 a bbl. The wholesal fruit market has closed for the season.

DAIRY PRODUCTS

DAIPY PRODUCTS

The choses market has assumed a nuch stronger tone and things are sending to stronger tone and things are sending to wards higher prices, as a sending to the send of the week, 11½c was about the ruling price, with one or two beards selling at 11 7.46c. Dealers here quote cheese to the trade at 12½c for quote cheese to the trade at 12½c for the batter market and the sending the sendin

best grades firm and high. There is, how-ever, plenty of storage stock. Local wholesale quotations are: Creamery prints, 26 to 27c; separator prints, 26 to 26 to 27c; separator prints, 26 to 26c; tubs, choice dairy prints, 25 to 26c; tubs, Toronto far all interior, I to 18e a lb. On Toronto far all the prints, 25c to 27c a lb.

SEED MARKET. Simr

J. A. Simmers quotes the seed market as follows: Aslike clover, firm, at \$75.5 a bush, for fancy seed, and \$5.75 a bush, for No. 1 quality. Lower grades are down to \$6 a bush, and less. Red clover, firm, and from \$7.5 to \$8.55 a bush, according to quality. Some seed is offering, although it is yet early. Timothy seed, scarce, none offered. ers quotes the seed 1

HORSE MARKET

HORSE MARKET
Trade was rather quiet and dull at the
West Toronto Horse Exchange last week.
Over 100 horse in the local interest in
60 sold. There will not local interest in
the market and the bulk local interest in
the market and the bulk of the trading
is from the outside. The section of the
has not come yet. Prices during it week
were a little easier. The chief the week
were a little easier. The chief to tumber
continues to be in horses for the tumber
camps. Business is expected to be better
in a few weeks. An important sale of 50
Shire fillies will be held on November 18.

The general range of prices rules as fol-ows Heavy drafts, \$180 to \$220; general purpose, \$140 to \$175; wagon and express horses, \$150 to \$190; drivers, \$100 to \$170, and serviceably sound horses, \$30 to \$75

LIVE STOCK

Generally live stock markets show lit-tle material change from a week ago. The feature of the cattle trade continues the short supply and keen demand for choice butchers' cattle. There was some sensational trading in exporters on Tues-day. One carload of very finely finished day. One carload of very finely finished steers sold at \$8.59 a cwt. unideating that shippers are inclined to advance prices when the quality is really good enough. Receipts last week at the city market totalled 35 cars, made up of 4382 cattle. 7,764 sheep and lambs, 2.52 hogs, 425 calves and 19 horses. Total receipts at the and 19 horses. Total receipts at the stand 19 horses. Total receipts at the 15 cars. Total receipts at the 32 cars. Total receipts at the

in or 2.73 cattle, 2.50s sheep and lambs, 1.70s hogs, 111 calves and 140 horses.

The character of the export cattle on offer at the Union Stock Yards were much the same as have been coming for some weeks back. There is still a strong dethe same as have been coming for some weeks back. There is still a strong de-mand for choice well-finished steers, as shown by the \$6.50 sale already noted. Medium to inferior stuff made up most of Medium to inferior stuff made up most of the arrivals, and for this quality the de mand is not overly keen. On Tuesday several loads sold at \$6 a cwt. with the range of sales for the better class \$5.85 to \$6. Fair to good cattle sold at \$5 to \$5.50; common at \$4.25 to \$4.75; ex-port heifers at \$5 to \$5.25; cows at \$4 to port heifers at \$5 to \$5.20; coms 84.50, and export bulls at \$3.50 to

The bulk of the butcher cattle trade The bulk of the butcher cattle trade is transacted at the city market. On Wed-needay and Thursday, 5,127 head were on offer, mostly of this class. Most of them were of the second or third class kind, and because of the large run prices were a shade casier, though everything was cleaned up early on Thursday. Good choice butchers' sold all the way from \$425 to 455.0 with \$8 to 856 avid for to \$5.50, with \$5 to \$5.50 paid purchases. The majority of the outcher cattle sold at \$4.25 to \$4.75, good butcher cattle sold at \$4.25 to \$475, and medium to common at \$3 to \$4.15 ac. w. Good quality butchers' cows sold on high as anything this season, the range being from \$4 to \$4.65, with the common stuff selling at \$2.95 to \$3.75 ac.wf. Butch-ers' buils sold at \$3 to \$4.50 ac.wf. Peeding cattle are in as good demand as ever, capecially heavy ones of good qual-tly. There was a heavier run than usual

Wednesday and Thursday , but all i readily, good heavy fee'ers at 84 84.50, and the common run at 83.50 to a cwt. Feeding bulls sold at \$2.75 to choice stockers at \$3 to \$3.50 and light at \$2 to \$3 a cwt. Consignments of \$3.75 a cwt. 83. ch vestern stockers continue to arrive and are quickly disposed of.

Receipts of milch cows continue only noderate, and the demand continues active. Good to choice cows are quoted at \$50 to \$65; medium at \$25 to \$45, and springers at \$25 to \$40 each. Calves are steady at \$3.50 to \$6.50 a

There was a big run of sheep There was a big run of sheen and lamns last week, especially at the city market on Thursday, of lambs, the price for which took another drop in consequence. Sheep also were quoted lower at \$8.50 to \$2.50 e.w. Canada lambs and to \$8.50 to \$2.50 e.w. Canada lambs are quoted at Buffalo at \$6.75 to \$7 a cwt. Hog receipts continue about the same. The quality of the offering shows some improvement. Prices last week held steady at \$7.59 f.o.b. at country points and \$7.75 a cwt. fed and watered on the market here. At Buffalo hogs are quoted all the way from \$7.20 to \$8.25 a cwt., as to qual-ity, a higher range of prices than is ruling here. The Trade Bulletin's London cable of November 4, quotes bacon as follows: "The market is firmer and higher with Canadian bacon quoted at 68s to 72s."

PETERBORO HOG MARKET

PETERBORO HOG MARKET
Peterboro, Monday, Nov. a, 1990—The delivery of Danish hogs on the English
markets last week was 3,000. The demand for bacon in the Old Country is
only fair, and the market is one shilling lower. The George Matthews Compan, quote the foll owing prices for this
week shipments: f.o.b. country points,
87.55 a cwt.; weighed off cars, 88 a cwt.;
delivered at abattoir, 87.75 a cwt.

MONTREAL HOG

Montreal. Saturday, November 6th. — The market for live hogs keeps firm with prices well maintained, owing to the small offerings. Supplies this week were barely sufficient for the trade, and the

GEO.W. SOUERS & SONS HUNTINGDON, IND.

Importers of Percheron and Belgian Horses; 100 head for sale; last importation arrived August 10th, 1909.

We have a few stallions on sale in Peterboro, Ont., in care of Mr. F. J. Sullivan. Write him, or go and see the horses. He will bring you to the barns if we have not there what you want. Prices and terms reasonable. Address,

F. J. SULLIVAN

Commercial Hotel

PETERBOROUGH - - ONT.

prices paid ranged from \$8.50 to \$8.60 a t for selected lots weighed off cars. me specially selected lots sold as high \$8.75 a cwt.

Dressed hogs are in fairly good demand at prices ranging from \$12 to \$12.25 a cwt. for fresh killed abattoir stock.

EXPORT BUTTER AND CHEESE Montreal, Saturday, November 6, 1909. The market for cheere this week has e hibited considerable strength, and the market is cleaing with prices advanced all around, and with holders more condent of the future than they have been for some time past. There has been a good demand for shipment, and the prices and the prices and the strength of the paid show an advance over those c week or fully 1/4c a lb., and this asst week or fully %c a lb., and this in spite of the fact that the offerings is the sountry at present are of inferior quality as compared with the output of September and early October.

as compared with the output we rere and early October.
This week's country markets have ranged all the way from 115c to 11 55c a
lb, the bulk of the offerings selling at
lb, the bulk of the offerings selling at
cool demand, and the price there was a
cood demand now adjourned for the sason, and the few to mee, next week will
dispose of the balance of the October
son, and the few to mee, next week will
dispose of the balance of the October
a few scattered throughout the country
thas will continue making cheese during
the monit of November.

that will continue making cheese during the month of November.

The stocks of cheese in store on the first of November showed as decided in crease over those of the previous month, but there is no doubt that from now on we will se them steadily reduced, as there will be practically nothing coming in from the factories, and reports from the United Kingdom tell of a good average. United Kingdom tell of a good average over the control of the control of the control of that the super to Canadian cheese, now that the super to Canadian cheese is falling off.

The market for butter is stronger this aceek, owing to the falling off in the reciple from the country and the continued cool demand for local trade purpose. The week is closing with a good demand at prices ranging from 2½/c a lb. for at prices ranging from 2½/c a lb. for strictly finest creamery down to 2½ for strictly finest creamery down to 2½ for the country and the country at prices ranging from 24% a lb. for strictly finest creamery down to 24c for under finest quality. Some dealers are asking 25c for their choice stock, and have withdrawn from the market until they get their price, but we have not heard

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD, CASH WITH ORDER FOR SALE.—Collie pup, male, pedigree. John McCormick, Paris, Ont.

DAIRY FARM WANTED, to rent; stocked and equipped as a going concern. size, with or without option to pur Box 20, Farm and Dairy, Peterbore Box 20, Farm and Dairy, Peterboro, of AGENTS make big money selling "Very Grantte Cement. Monds holes Peek" Grantteware, Iron, Agate, Tinware, Mends a hole in one minute. Eve housewife buys. Greatest seller on market. Agents make over 100 per eprofits.—M. Nagle. Westmount, Que

WANTED.—Persons to grow mushrooms for us during Fall and Winter more has for us during Fall and Winter more us. Waste space in cellar, outhouse or bars can be made to yield slif to 825 per can be made to yield slif to 825 per can be made to yield slif to 825 per can be made to yield slight s

the price done to-day of butter ar is confident inflicient to especial nall make long as the States for or

Novem

CI Utica, N. 1 %c. Campbellfor Stirling, No oxes sold, a Peterboro red offered; Woodstock, olored offer Brockville, old at 11%e. Belleville, 1 colored offere 061 at 11½c; Lindsay, No. Lindsay, No old to one by Winchester, lored registe board at 111%

Kingston, No ored registere Kemptville, Il colored; s Iroquois, N cheeso board at 111/2e board at 11½c at the same Picton, Nov. boxes of chee 11½c, 513 at 11 ance unsold. N°panee, No cred boarded. Ottawa, Nov.
130 white. All
Watertown, 1
1500 boxes at 1
Canton, N. 1 15%e. the cheese ma follows: Ridget 300 white: Ark & Nis. 150 cole ed. No sales; St. Hyacinthe cheese at 113/c Canton, N. cheese at 151/c Watertown. N. cheese at 151/c

PERCHERON

The United S New York City Percherons imp one of any of of any o to the front in ence of their C George W. Sou breeders of Per Trottings Horse sale in Peterbo of their salesn whose advertise whose advertise sne. Mr. Sulliv gian and a Per gian, Regolo N five years old, qualities that I their horses. F is a wonderfull cron is a beauti horse of good though Mr. Sul with him, he a that his firm horses on hand not suit, he w not suit, he w chasers (expense Huntingdon, In ride from Peter them stallions i Mr. Sullivan's f wards of 200 her Their methods o by their cu

I am in receip sent me for set tion to Farm a am well pleased Middlesex Co., C

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\$8.60 a off cars. as high

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of the price being obtained as yet, al-though considerable business has been ione forder at around 25%. The stocks. The incomplete the trade here is incomplete that there is no stock to incomplete the control of the probable small make of butter in this country, so long as the demand from the United Patter for the probable small make of the probable small make of the probable small make of the probable small make on the probable small make on the probable small make of the probable small make of the probable small make the probable small make the probable small probabl

CHEESE BOARDS

Utica, N. Y., Nov. 1.—Sales reported as follows: Cheese, 24 lots, of 1527 boxes, at

Campbellford, Nov. 2.—600 horse offered;
Campbellford, Nov. 2.—600 horse offered;
36 horse sold at 11%, and 11 5-16c refused
for the balance,
stirling, Nov. 2.—600 horse boarded; 210
horse sold, at 11 7-16c; balance at 11%,
Peterboro , Nov. 3.—2285 horse of colorder offered; all sold at 11% in the and 700
colored offered; all sold at 11% of the and 700
colored offered; at 11%, of the and 700
colored offered; 450 white and 590 co'ored
and at 11%, of the and 590 co'ored
and at 11%, of the and 590 co'ored
and at 11%, or the and 590 co'ored

white offered: 650 white and 950 co'ored sold at 1156.
Belleville. Nov. 4.—1801, white and 130 colored offered: sales, 590 at 11 516e, and 1561 at 1156c; balance refused.
Lindsay, Nov. 4.—Over 900 cheese; all sold to one buyer at 1156.
Winchester, Nov. 4.—211 white and 140 colored registered. Nearly all sold on the board at 1156.
Kingston. Nov. 4.—25 white and 1900 colored registered. Half the goods sold at 156 cold 156 co

ored registered. Half the goods sold at 11½c to 11 9.04.5.—425 boxes of cheese, all colored sold at 11½c.

Kemptville, Nov. 5.—425 boxes of cheese, all colored sold at 11½c.

white cheese offered; 165 sold on the street at the same price.

Picton, Nov. 5.—16 factories boarded 11½c balance sold on the street at the same price.

Picton, Nov. 5.—16 representation of 11½c balance sold at 11½c.

Same should, and the sold at 11½c balance should at 11½c.

Watertown, N. 5.—40 white and 23 colored boarded. Sales 7.73 at 11.84c.

Ottawa, Nov. 5.—40 white and 23 colored boarded. Sales 7.73 at 11.84c.

Ottawa, Nov. 5.—40 colored offered and 10 white. All but 149 sold at 11.74c.

Watertown, N. Y., Nov. 6.—Cheese sales, 150 boxes at 15½c.

Canton, N. Y., Nov. 6.—Sales, 1190 boxes at 15½c.

1996 noxes at 1976 to 1979...
Cantion, N. Y., Nov. 6.—Sales, 1190 boxes
Cantion, N. Y., Nov. 6.—Sales, 1190 boxes
Lendon, Ont., Oct. 30.—The off-rings on
Lendon, Ont., Oct. 30.—The off-rings were as
follows: Ridgetree, 190 colored. Avonbank,
30 white: Arbona, 140 colored. Blavebard

N Nis, 190 colored: total, 790 boxes offered. No sales: bidding, 1st to 11%c.

The Tradenthe, Que., Oct. 30.—250 boxes of
Canton, N. Y., Oct. 30.—1000 boxes of
cheese at 15%c.

GOSSIP

PERCHERON AND BELGIAN HORSES

FERCHERON AND RELIGIAN HORSES

The United States Curroms Records in New York City, show that there are in New York City, show that there are in the Common Records in New York City, show that there are in the Procheron borse is now winning its way to the from in Canada. For the convenion of any other draught from the Convenion of the Procheron Religian Corech and Trottings Horses, have a few stallions on state in Peterboro. These are in charge in the Procheron Religian, Corech and Trottings Horses, have a few stallions on state in Peterboro. These are in charge in the procheron stallion. The Religian Regold Convention of the Procheron Religian Corech Convention of the Procheron Stallion. The Religian Regold One. 238 (Hupp.) is a black live years old, and possesses the good their health of the Procheron Stallion. The Religian Regold Convention of the Procheron Stallion. The Religian Regold Convention of the Procheron Stallion of the Procheron Stallion and Procheron Stallion. The Religian Procheron Stallion and marked by the Stallions and marked by the Stallions and marked Stallion Stallion and Marked Stallion and Marked Stallion Stallion Stallion and Marked Stallion Stallion Stallion and Marked Stallion Stallion

I am in receipt of the watch which you sent me for securing one new subscription to Farm and Dairy. I must say I am well pleased with it. Arthur Kearns, Middlesex Co., Ont.

E. H. FOSTER BANQUETTED.

H. Foster, who for the past 18 years has been connected to the past 18 years has been connected when the past 18 years has been connected to the past 18 years has been connected by the head office staff in Minneapolis, on the eve of his departure for Toronto, where he is to assume charge of their Canadian interests. Mr. Savage acted as nost. In the course of the entire suffered with the past of the course of the entire suffered with the past of the regard in which has a token of the past of the p Ossessammen ,

AYRSHIRE NEWS

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

J. G. CAPRSHIPE NEWS
J. G. Clark writes from Montreal: I have just completed the selection of 40 head of a complete the selection of 40 head of a complete for silpment to Alberta. Amongs in the real is bulls of varying ages up to the real to bulls of varying ages up to the real complete and the real complet

I appreciate Farm and Dairy very much. It has found a very promin-ent place among my reading matter. —L. D. Hankinson, Elgin Co., Ont.

FOR SALE

THE JERSEY BULL. ROSEDALE REV. ELLER, A. J. C. C. 76101: solid fewn color, no white, an extra fine animal, worth \$200. Will sell for \$75. Quiet and right; great stock getter.

ALSO JERSEY BULL CALF, will register, by Rosedale Reveller, out of Cattle Club cow; six months old; \$20.

H. G CHARLESWORTH,

61 Adelaide St. East, Toronto

MISCELLANEOUS

FAMWORTH AND BERESHIRE SWINE,— Boars and sows for sale. J. W. Todd, Corinth, Ont. Maple Leaf Stock Farm. SUNNYSIDE STOCK FARM

Chester White Swine. Shropshire Sheep and Mammoth Bronze Turkeys of the choicest breeding for sale at all times. Apply to W. E. WRIGHT, O-3-3-10 Glanworth, Ont. Proprietor

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FOR SALE.—Twenty Canadian, Exmoor and Welsh Ponies, from ii to 14%, hands in height. Also ATRSHIRES of various ages, and of both sexes. Prices right. Write or call on 0-5-26-10 P. A. BEAUDOIN, 107 St. James St., Montreal.

FOR SALE. — Two fine French-Canadian horse coits, five months old, color chest-nut, well matched; one eligible for reg-istration. For particulars apply J. H. PILLAR, Grimsby, Ont.

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First established herd in Canada: for sale now. Exceptionally fine herd of handsomely belted young stock from Imp, sires and dams. Right kind for foundation stock. From six weeks to two months old to the few very choles gilts, good ones to be supported to the same stock. From six weeks to two months old to the few very choles gilts, good ones to be supported to the support of the same stock of the support o

A. O'NEIL & SON, Box 1, Birr, Middlesex Co , Ont.

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RECORD OF PERFORMANCE COWS PRICE: \$35 when one month old

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sired by Morton Mains Gowersh old.
Champion at Toronto, 1906 and by Netherhall Doels PA. a grand Imp. heifer, and
erhall Doels PA. a grand Imp. heifer, and
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AYRSHIRE BULL FOR SALE AYHSTIHE BULL FUN SALE
Isaleigh Norman -1905c - white with
brown checks, calved Sept. 12, 1905. bred
by J. M. Greenhaleid, Danville, due Dam
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J. M. Greenhaleid, Danville, due Dam
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HOLSTEINS MAPLE LEAF STOCK FARM GORDON H. MANHARD

Manhard, Ontario Breeder of Choice Holstein-Friesian 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

E. F. OSLER, Bronte, Ont.

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FOR SALE, ROLLING SOLUTION FOR SALE VINE BORD, DOC. 31. Dam's official record at three years old, 486 lbs. of milk and 21 lbs. of barden 18th. born March 18th. born March 18th. or milk and 20 lbs. of batter, Alexander of milk and 20 lbs. of batter, Alexander March 18th. Sale Vine Alexander of Sarcastic Lac. 245 DAVID CAUGHELL, Yarmouth Centre, Ont.

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FOR SALE, 2 Bull Calves, aired by Sir Angrie Beets Segia, son of line Segia, world's greatest 5 year old sir support of the segial state of the segial seg

P. J. SALLEY Lachine Rapids, Que.

E-16-40

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OFFERS BUTTER BOY HEROERVELD.
calved April 8th, 1999. He is a good individual and well marked. Dam Helena De
following the state of the sta

LYNDALE HOLSTEINS

Head your Herd with a cond of Sara Hengerveid Korndyks whose dam was recently sold for \$2.06. his a nearest dams average 20.12 of Justice each in 7 days. Only 2 few sons of Count De Roll pave a few sons of Count De Roll pave a aul, and a number of Heifers for sale, e.j. ### 100 BROWN BROS, LVN, ONY. Paul, and a nu

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AYRSHIRE RULL CALVES, sired by Scottle—19715—a son 90 years and the second of the seco

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