Issued Each Week-only One Dollar a Year


## 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. The 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 in practice.

## 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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WB want agents in byery dibtaiot


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

## Cows and Cash

Is it not time that all dairy farmers in Canada came to think seriously of what might easily be accomplished by a little, a very little extra effort? Very few wo 'd pass by the opportunity of picking up five or six five dollar bills if the conditions wer not diffieult. There is a huge sum of money waiting for owners of dairy 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 stain in contentment and self-respect, a notable and enviable addition to our a notatle and enviable addition to our
reputation among the nations of the reputation among the nations of the
world as high-class dairymen would world as high
quickly result.
quickly result.
Unfortunately we have to go on record even in these days of wide spread and easily available dairy knowledge as owning lots of cows that produce only 2,800 or $2,500 \mathrm{lbs}$. of milk during their best six or seven months. Such cows are no credit to their
owners, and such owners scarcely do owners, and such owners soarcely do credit to the dignified title of dairy-
men. As Canadians we should jealousmen. As Canadians we shoutd jealousaffairs being possible. It ic easy to detect those poor cows by recording weights of milk, and it is injurious
weter weights of mik, and it is injurious
to any district to retain such wretched to any district to retain such wretched
specimens, mongrels not, real dairy 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 operation.
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-Loǵ Drag in British Columbia

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 favor your readers with particulars
of work and results accomplished
I like the suggestion that fhe Provincial Government make a grant for the encouragement, by means of competition of the use of the split-log drag. From what I have heard and drag. From what
read as well as from personal use to read, as well as from personal use to
a "limited extent," I fully believe there is no other means by which an earth road can be so cheaply and effectually maintained as by the systematic use of the King road drag.
Being path master in my district for the past season, I have undertaken to have it used along the lines suggested by Mr. James. I have rebated taxes to four parties who have undertaken 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 spend $\$ 20,000,000$ on the establishment 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 expennot in
ditures as I fail to see the advantages of such a course. Money would accomplish much more good, were it used in holding peace conferences between 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
not let it siand out boldly for peace Why hold conferences and then turn around and build boats to kill th around and build boats expense in other fellows? Besides the expense in
maintaining a fleet and the men on maintaining a fleet and the men on
it could be used more advantageously in running many and varied in dustries.
The will of the people should be as certained on such an important ques.
tion before action is taken.-C. H tion 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 believ: one of the worst pieces of legislation that has evor been brought forward by our Canadian Government, is be brought forward next session, an 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 that no one can estimate. But, be that is it may, it is not the worst feature-not by far. War is never feature-not by far. War is never
thought of in Canada and the idea thought of in Canada and the idea
of turning the attention of an in. of turning the attention of an in
dustrious people to even think dustrious people to even think
such, may have a far reaching and very bad effeet 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 suc. ceed who was spending more money on guns and ammunition than on farm implements? and then he and fis sons spending their time train his sons spending their time traik
ing how to use those guns and boast. ing how to use those guns and boasi
ing that the lion and cubs are going ing that the lion and cubs are going
to keep the supremacy? Would hil method be for peace, or would the lion and cubs not get into seriou troukle some day when not expecting it? Lambton County is represented by two of the ablest men in Parl ment, one on each side of the House Let us get after them on this ques tion.
Ont.

## Farmers' Institutes

The dates for a portion of the regu lar series of Farmers' Institute meet ings in Ontario have been announed These meetings are worthy of the sup port of all interested ia 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 con. an opportunity of discussing local con-
ditions with their fellow farmers. I ditions with their fellow farmers. I
every locality there are one or mor avery locality there are one or mors who are producing grain
farmer fruit coots, stock, etc., at greate 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 farmen clubs have proved to be most valuabic in disseminating information tha means dollars and cents to those tak ing part.
Superintendent Putnam reports the regular institute work during the past year as having been most encouraging. Attendance has leen larg. er and a larger number of young men are taking an active interest in the work.
Members of the institutes in each locality should make it their bu inest to invite their friends and neiphbors to the meetings and assist the officers wherever possible, Such places as do not manifest a keen inceres in the institute work during the coming season will be required to give assurance by the presentation of a petition or by other means that a petition or by other means there lee
meeting will be supported before turers will be sent in succeeding years Some points whre the people did not show appreciation of the woris last year have been struck from the list.

Issued Each W

DENMAF of Cans ment. They the yield of they done it seleoting and production.
There are
cels. Her co-o er and the ad her methods practice by The phenomen 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 doutled 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 yon will can be done. titled to this op been through d and that is what I want to get be Denmark just a rate to you wha people go at the In 1848-49-50 sad war. It las true they were and a lot of mone and Denmark los lot of the best me
a great deal of me a big national de from $\$ 500$ to $\$ 1$ from one to five agricult

## Denmark has a

 ture; there are no no shipping to am so the only resour national debt had agriculturits. DeTh: POSSibilities of doubling the average yield of milk production

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

DENMARK can teach us much in regard to dairying. Her farmers are far in advance of Canadians in the matter of coy management. They have in a period of 23 years doubled the yield of the average Danish cow. How have hey done itp 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 ar range 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 anaylsis 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 doutled 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 Dairy. man, 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 beoause I have been through dairying in Denmark and that is what they have done there, I want to get back in the history of Denmark just a few years to illustrate to you what can le done when people go at the work systematically.
In 1848-49-50 Denmark went throug sad war. It lasted three years anough a very 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 grent deal of money and it left the country with a big national debt. Land in Demmark is worth from $\$ 500$ to $\$ 1,000$ an acre. Taxes went up from one to five dollars an acre a year.

AGHGULTURE HER ONR RRSOURCR
Denmark has zo 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 hational debt had to be paid by taxation of the agriculturi-ts. 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 thei- families, but when it looked the darkest help was the nearest.
I always thought it was the Danish government
to go out and buy dairy cows. They imported some dairy cattle from northern countries but the conditions and environment in Denmark were dif. 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
cows. In t
Iuction of days, 23 years ago, the average production of butter per cow in Denmark was 112 ILs. a year. Now it is 224 lbs. Have they not doubed the beef cows to dairy cows? They have Not only did production in the course of 23 years. Not only did they donble 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 sys-
tematically to get the most out of it.
net profit that counts
There are three things we have to
know about the dairy businese Firt 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 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 knepp 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 enormons 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.
MUBT 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 butter maker 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 farm-
ers down there will feed as high as four to six
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 lutterfat, and how much feed they eat in a year. We have to find what they do with the feed they eat.
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, dige.t 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 beeomes of it. That is the kind of a cow we want to get rid of.

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 $7,920 \mathrm{lbs}$. 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 $7,320 \mathrm{lbs}$. to $11,330 \mathrm{lbs}$. 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 ths. of milk more in a year.

## piguring by pekd 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 ll . of corn and oats is one feed unit; 1 lb . cottonseed meal is 1.7 feed unit; $51 / \mathrm{lbs}$. clover hay is one feed unit ; 10 lbs . beets is one feed unit, etc., regardtess 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. , itht say that on my own home farm the averge production was increased 60 per cent, as result of the cow testing work over there.
$\mathrm{M}_{\mathrm{y}}$ 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 alout 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 o cow testing association he found looks did not count for everythiag: we could not tell by the


Bee Keepiag in Qaebec-Aniary of Mr. Theodale Cloutier, L'llet Co., P.Q.
Mr. Auguste Faford, the Farm and Dairy correapondent for Llaslet county, writes of this apiary an follown Visitors are numerous and very welcome. The smatl house in the background ts where the honey is extract
tracted, and where visitors are compelled to eat some honey due to Mr Cloutier's generosity " Those pearing in the illustration are Mr. and Mrs. Cloutier: the two young men in the centre are viefitors.
years ago I was put in charge of a large dairy in Denmark. A dairy of 800 cows was owned Ly a nobleman who lived in the city during the wint-

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

## incheabed 100 prr 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 farm. ers 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 thom break away from that rut, and one of the reasons that I am interested in cow testing associations is lecause 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 hulp himself.

## How to Get Bees in Shape for Winter <br> 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. I one has plenty of time to attend to them, bees ran be doubled up if fed in numbers, or fed if light in stores. One plan of doubling is to set them clustered during the first warm spell that
comes. T wo or th If weak to winter

If feedin as follows : palls will ary table must be ra
pencil or sn syrup is ma of whis a su a wash-boil the first fe the top of $t$ plenty of ol and the bee and the be of it down. low, then you have hot, thick s three or fot used for fill or four feet
A busy fa this uncerta inless these ind wintere cellar, espec ere. So th comb to free little honey cookstove, if stove in his
Belated be been placed filled combs holes through warmly with be substitutec the frames i storing of be a sulsequent

## Diseases

Dr. H.
This is anot: resulting from chronic lamini 4 entirely dif flammation of n the hoof. Long hard d joint, allowing ong, are som hich are not occasionally gi uess of the fee

The first sym mal may go la fext day. Oft quite stiff and found to make he will be alm stand for an ho stiffened up aga begin to contras to be the cause result of it. Th landing and w
comes. Then on fr 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 to be 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-thy 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 fseder on
the top of the frames while hot and cover up with 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 comfortabe. If the weather is warm
and the bees lively, they may take some or all 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 cellar, especially if the winter proves to be severe. So the short cut is to shake them off the
comb to freese and starve and extract comb to freese 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 filled combs on top of the frames. Make a few
holes through these combs, and cover up the hive warmly with a blanket. A slab of eandy 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 sulsequent article.

## Diseases of Horses Feet-Navicular Disease

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 inflammation 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 Letter. 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 slanding and when being 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 affectec 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 Lut if not taken in the early stage will be of little use. Where the dis-
ease has become chronic, ease has become chronic, it is always well to have
the animal shod with 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 borny 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.
lameness 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 Beat for Hogs J. H. Grisdale, Agriculturist, C.E.İ', 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 applios 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.Thiese 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. 1 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 rong 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 oot 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, this latter being especially true if the land was dry at the time of plowing.

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 le finished with cement. The wood to be used in it next


First Prize Hampatire Sow Caring for Her Fanily at the Westers Fair, Londen, Oat.
The Hampshire is a new-oomer among the breeds of swiae in Canada. This breed has
our larger fairs only during the last few years. The pigs illustrated are from the herd at our larger fairs only during the last few years. The pigs illustrated are from the herd owned represented
Neil \& Bon, Birr, Ont. 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 putiy and white lead, mixed half and half. It is an advantage also, to brush over doubtful Reams and rusty spors with white lead and oil,R. F. Whiteside, Victoria Co. Ont,

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Litter Carrier will earn big dividends is LITTER Carrier will earn big dividends
the time it will save you. Noother so simple in construction, so sure and easy in operaton, None so well made or so durable. Catalogue explains its superiority in detail
Send for o copy nd get posted on this great
laborsaving device.
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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, and. 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, Poterboro, Ont.

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## IF SO, COULD YOU KEEP ONE MORE?

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Write Circulation Department

## FARM AND DAIRY PETERBORO - - ONT.

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 de. expended in complying with their de-
maids. The fariner, who is relativelands. The fariner, who is relativethe one who is in a position to carry them out expeditiously.
The operation that receives most at tension at the hands of the inspector is whitewashing. Even in outlying distrisects it is now generally insisted on twice a year, while in some model cowhouses it is done weekly. Not only is the appearance of an interior vastly improved by a coating of limewash, but the lime is destructive to organisms and parasites.
The method of applying with a brush is tedious, and would cost, for brushing down and covering with one brushing down and covering with one
coat, about five cents a square yard. oat, about five cents a square yard.
With a machine, it is possible to With a machine, it is possible to
cover quite 10 times the area covered cover quite 10 times the area coveted
by hand in a given time. If stop-
special attention has been paid lighting the building from the side and ends as well as from above.
In the northeast corner on th ground floor a room 61 feet by 5 feet has been partitioned off for th dairy cattle. The equipment of th dairy stable should be studied by a who are interested in sta ${ }^{19}$ construe won. There are concrete spoors, man don. There ate concrete floors, man-
gers and gutters, iron piping part gers and gutters, iron piping parti-
ions between the cows and patent Lions between the cows and patent
stanchions, litter and feed carriers stanchions, litter and feed carrier
and an approved system of ventand an approved system of venti-
lation. The balance of the ground lation. The balance of the ground
floor, except the space occupied by the judging ring, is given over to thy stabling for they horses. There are three rows of 36 stalls each and in the old building where the dairy cattle stable formerly was there ar 40 stalls.
Surrounding the judging ring will he a promenade seven feet in width and extending from the second floor 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
pages do not occur, and the operators 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 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 chalk. Aid the slaking by crushing the lime. The liquid used must be of a creamy consistency, about two lbs. of lime to a gallon being normally required. The 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 will be seen by the accompanying itlustration, is of imposing appearance with its massive walls and towers. It occupies a part of what was formerly
the old open market square immedithe old open market square immed.
ately adjoining the old building and ately adjoining the old building and
a few feet to the east of the City a few
Hall.
The building is 260 feet in length by 118 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 floor so that the immense sky-lights will be effective in lighting the ground floor of the central parts of both new and old
buildings. The walls are of cut lime. buildings. The walls are of cut lime-
stone placed upon a solid foundation stone placed upon a solid foundation
of concrete. It will be noted that
ing the poultry department will have 12,000 square feet of space. Large and numerous openings have been provided between the new and old buildings so that they practically become one.

## 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 attendance. A very strong program bad been arranged. The speakers were Geo. H. Barr, Chief of the Dairy Division, Ottawa, J. F. Singleton, Creamery Instructor, Henry Glendinming, Instructor Cameron of the Lindsay group and W. Newman of Lorievile. Others who addressed the meet ing were G. A. Gillespie, Peterborough, Wm. Wright, Dunsford, and Wm. Thurston of Bobcaygeon. T. Robertson of Dunsford occupied the chair. Mr. Henry Glendinning was reelected to represent the dis trick on the directorate of the Eastern Ontario Dairymen's Association

Less work and better milk
Mr. Barr gave his celebrated lee Lure on "The Care of Milk for Che se Factories," illustrated by lantern slides. A noteworthy feature of Mr. Barr's advice re care of milk, and one which should appeal to all farm. ers, is that he tells them to do lass 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 c ing for milk and have it right, he better. The method he advocates has been proved by actual practice to to quire very little work or trouble and where it is followed, the milk will be delivered in the very best con di-
ton. The method advocated as many (Continued on page 18)

Heavy
Editor on the Dairy, N mplifies horses not so for the districts, re looked tray burp
over, who working si For five cam of that weigh with plant with ease, time used horses shoo laxly quai which I bel I gave part ing, to slop ness of bon able kind $t$. luck favor i colt each ye as well. Th they can be a ready mri made a mos
farm. -W .

The Na

## The larges

 hibit ever held recent than 500 day tron. A red dairy suppl Division of $t$ Dent of Agri ing contest, of various da tonal chara The exhibition The attendfor the 10 d show was hou built of steel a cost of $\$ 80$
were stalled owing to lack satisfactory 1 i to advantage. were well rep
pecially make Eleven differs ed by 44 herd steins in add vinously mantic number, but $t$ and Dutch Be Outstanding features of th graphic exhibit by the Dairy States Depart Another was t in the basemen
rations and $m$ rations and m.
ing association were held dail charge of $\mathbf{H}$. mint of Agric

Device For
Editor, Farm discussing the Lawrence-Kenn With a success Paul, I seenred tho have inves He said that af outfit he was milk being suck then making his valueless. The nine on the $\pi /$ Nos s ennarently
inc where the $m$

Heavy Horses Most Profitable Editor, Farm and Dairy;-The photo of a Clydesdale mare that appeared Dn the front cover of Farm and Dairy, Nov, 4 th, was of particular mplifies the proper type of heavhorses not only for city work but al. so for the average farm. In too many arelicts, horses of such proportions are 0 eked upon ${ }^{\text {a3 }}$ being suited for
dray purposes only. Any farmer, howver, who has had the privilege working such animals will never think Foing back to the lighter class. team of imported Clydesdale marked that weigh over $1,700 \mathrm{lbs}$. when in working condition. Both are gifted with plenty of ambition a d with ease, work for wh
time used three horses
In adduree horses.
horses should to possessing size, farm horses should possess quality, particuALy trouble with my horses' legs, I gave particular due to the fact that ing, to slope of pasterns and cleanness of bone.
Good, heavy horsos are the profitable kind to keep on our farms. With colt each year and work right through as well. These colts when grown, and they can be raised cheaply, command made a most profitable feature of b farm.-W. R. Doyle, Grey Co., Ont

## The National Dairy Show

## The largest and most complete ex

 industry, was the National Dairy dairy held recently in Milwaukee Show than 500 dairy cattle were on exkithition. A record breaking display of dairy supplies, machinery and appliances, an exhibit made by the Dairy ment of Agriculture, a staden Departing contest, and a number of mudgof various dairy organizations meetings of various dairy organizations of nathe exhibition completeThe attendance was large, totalling or the days, some 50,000 . The show was housed in a new auditorium built of steel, brick and concrete at I cost of $\$ 500,000$. The dairy cattle
were stalled in the Lasement owing to lack of ventilation and satisfactory lighting they did not show to advantage. All the dairy breeds rere well represented, the Jerseys, es pecially making a strong showing. ben durerent states wer sopreant de by 44 herds. Guernseys and Hol vinusly mentioned form Jerseys prenumber, but thei formed the larger tatives of the Ayrshire, Brown Swiss and Dutch Belted breeds.
Outatanding among other valuable features 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 in the basement illustrating different rations and methods of the cow testing associations. Two demonstrations were held dails. This work was in charge of H. Rabel of the Department of Agriculture.

Device For Improving Milking Machines
Editor, Farm and Dairy,-While discussing the merits of the Burrell-Lawrence-Kennedy milking machine with a suceessful dairyman near St Panl. I secured a pointer that may be of value to readers of your naper, tho have invested in this appliance. He said that after he first boupht the ontfit he was greatly tronbled with milk being sueked un into the nipes, milk being sueked un into the nipes,
thrs makine his nurchase nractienlly thry making his nurchase nractionlly
inlueless. The anenine of the suction Vnlueless. The nnenine of the suction
nine in the under side of the cover Wns sunnrently trin clise th the onen-
result the milk was carried over from the pipes. He had heard and so into
to this kind where cotton batting was ased in the suction pipe to check sider this satisfaciery, and devised a He took the top of the can to town and had a piece of copper tubing about an inch and a quarter long soldered on the ring of the opening where the milk enters, the tube leing Now, the diameter as the aperture. tension hefore goes through this exuction tube, it gets in line with th away to be acted upon. As a result he now has a machine that work perfectly, and he had the added satisfas in the same dilemna.-Mac. C
Wat Cutting, assistant editor, "The Farmer," St. Paul, Minn.

## The Two-Furrowed Plow

## i R. McCready, Carleton Co., N.B

 the "Farm and Dairy," of articles in agricaltural and Dairy," and in other two-furrowed plow in praise of the issue of Fied plow. in the sept. 2ni lan of Prince Edward Island MoLel It works well anywhere that a single haps, among stumps work, excent, per of doing good work where it is capable plow would have great difficulty in plow would have great difficulty inwork at all." Now, I use both
and a single plow and I can't imatine what kind of a plow they use in P. E. I work in any kind of soil
single plow to use where the keep row plow can't be used. Not only on stompy ground but in very stoney two furrow plow good work whero a ground. Nearly
two-furrow plow one who writes of the with three horses can plow one ma much as one man and two horses with a single plow. I will challenge any
man with any kind of man with any kind of a two-furrow plow, with two, three or four horses with my team as much as I can plow standard makes of single plow. Many here, but I use a plow plows are used in my own county and I inches and do good work I can turn 14 yet seen a two-furrow plow that will urn more than 22 inches, mine turns furrow plow not decrying the twoits place and is vers
ins for it has place, but it will be very useful in its it will drive the single furrow blo out of business.

## Our A pple Trade with South Africa

It is to be sincerely hoped that an conly sound fruit to made to send out ing sound fruit to this market, owforce here, stringent regulations in percentage apples infected a certain
 Pousette, Canadian Trade H. R. sioner, Durban, South Africa in bis latest report of the Department of Trade and Commerce, Ottawat If before packing, all fruit displaying traces of infection be rigidly rejected, there is little doubt that it will pass the inspection of the Cape, though perhaps not the Transvaalin which the persentage is fixed at one in 100 linul yaser the inspection does not
enfor consi
shonl shomill have been efficiently cere admitted the this monan laxity will ned. But mitted. pers who tarafore, Oanadian shipsame lo k as was theirs last upon the receive a severe shock. Perhaps it
is Wrong to speak of "luck, signments received cash of them lave cared little what happened they shipment or what loss the consignees may have uad to sustain. If this state ment seems harsh, it is beyond a doubt tion. It could well be wished that poetic justice might descend that those who *) endanger a valuable trade, and bring discredit upon conscientious exporters.
Canadian apples come in here at a tically empty including the Christmas xelcome public, by the later dealers and the are held in high favor. If this season's operations result in loss, it will
of course deter many next 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 however, these later could, or rather were, minimized by more care/ul selection at the other end, the fruit could be sold at more reasonable prices, and it follows, in larger quantities. It requires little perspicacity prophesy that those Canadian firms Who send apples this season to South Africa, carefully picked and properly packed, or, in a word, who conscientests of their clients, will the following season reap the result.

## Our Legal Adviser

RIGHT TO PLANTS ON RENTED PLACE, rear, and have put consideratle for one on the property in the way of planting If I am compelled to leare at and vines. If I am compelled to leave at the end of
the year through tranafer by anle of property, can I legally take with me any of the plents that I have set out, provided condition as it was when in as good a "Yes"

LIABLE FOR LINE FENCE,-Wil you kindly tell me through the legal columne pot me to build hairy if the law will ooman sore lot whinh was bold off the corner one acre lot The people that owned the around it, and silway good board fence pair. They hava sold it to another pirts fence to build. the I have half of the done, and he has taken away part of the bought. It is just six 100 acre farm, and ago since I
by the man tol by the man I bousht from and I was told nothing to do with the fence around the
acre lot.-A Subsoriber, Simooe ${ }^{\text {Co }}$.
In the absende of a definite agreement with the owner of the acre lot you will be liable to build and maintain half of the line fence. This is the Line Fencery by the provisions of the tine Fence Act. If the fence in question is out of repair, either of he owners can notify the fence viewors, who will come in and inspect tion to be built by and determine proporquality.

A Good Word for Skim Milk.-I see be sold. It is of special valne to not ing ohildren. A great many growhave by-laws prohibiting the sale of skim milk. I hold that skim milk should be sold, that the poor of the towns and cities ought to have it But it is hard to get anyone to buy skim milk, because it gives the ap H. Dean, O.A.C. poor.-Prof, H curing one cards you sent me for seand Dairy came all ription to Farm fine. I am mueh pleased with them Jas. Moffatt, Pontiac., Co., Ope.

Has Imitators But No Compotitors.

 Puif, and all lamenese from Spavin, Thruah, Diphtheris. Domeves Paraites, all
Bunch, from Fomes or Cotile


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atiele briaes akto coo, Toronto, Ont.

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saription to Farm Will give th Acoident Inamiry; wi ioy, to the amonnt of $\$ 1000$, Polfor one year, through the Imperial Guarantee and Aceldent Ingurance
Oo., of Oanade only through the This will apply year, Send in your subseription to
the

## CIRCULATION MANAGER

FARM \& DAIRY
Peterboro, Ont.

## HORTICULTURE

Organize a Horticultural Society
towns and villages in Ontario When organized should take up this
been bern organized should take up this
work. It is indisputable that those places, wherein active horticultural societies are at work, are the most
beantiful, the cleanest and the most beautiful, the cleanest and the most
attractive in the province. Every attractive in the province, Every
municipality should have a horticultural society
Act, the organizations mnst be formed Act, the organizations must be formed
before the second week in January to participate in the government grant. Further information will be given on this and other points on Superintendent of Horticultural Societies, Parliament Buildin's, Toronto. Towns and villages that would ronto. Towns and villages that would a delegate to the convention of the Ontario Horticultural Association this month in Toronto. Any person that is interested may attend.

## Blackberry Root Cuttings

Then Ferguson, York Oo., N.B
The process of making root cutcuring all the roots possible over one. eighth of an inch in diameter. These should be cut into piecess two or three
inches long, and should be planted in broad rows, somewhat as peas are planted. covering about two inches deep. Before severe freezing weath.
er sets in, the bed should be covered with five or six inches of strawy stable manure to prevent deep freesing. In the spring the covering is raked off will be studded over with buds coming from every piece of root planted. ing from every piece of root planted,
These plants are much better than the "sucker" plants because they have "sucker" plants because they have and are much more sure to live and make stronger canes.
Apply a dressing of barnyard manure to the patch in late fall or very
narlv in the spring. If no disease attacks them, blackberry plants will, with good treatmert, 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.
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 method. I will give a few reasons
why orchards should te cultivated and why orchards should te cultivated and
fertilized in the autumn wherever possible.
By plowing say five or six in. deep after the leaves have fallen and harrowing to a fine tilth you have an
farth or dust muich, which is one of Cavth or dust muich, which is one of
th. best protctions from frost. You will have buried all the spores of the black-spot which may be deposited on the leaves, which is undoubtedly the main source of propagation in the spring, You will also have disturbed, canker worms, codling moth and other inreet pests that may harbor on, or have placed the cover crop or other vefetation, with the leaves, where it will be converted into nlant food, and warle ready for the earl
th.e trees in the spring.
If you also apply ruch fertilizers as barn-yard manure, ground bone, murinte of potash, or others of those parand harrow in, you will assist nature to provide the trees with an early spring lreakfast and enable them to commence the season with vigor, and pass the period of, what is sometimes tion that we frequently observe, and
that is followed by failure to set fruit or by excessive dropping after if il If this system is properly carried out in the fall, the disc is all that is required in the spring to get a mellow used, say, once a week to conserve the moisture, until the time has arrived ir sow the cover crop, the orchardist may congratulate himself when the latter
is in that his work for the season, is in that his work for the season,
$s 0$ far ns cultivation is called for, is done.
As there can be no rule without
exceptions it may be found impracexceptions it may be found imprac-
ticable to follow this system on side hills or where the soil washes badly in the winter. There you may have to leave the cover crop to bind he soil until spring; if so, then do you cuitivating and manuring at the eariiest possible date, for it is the early and चigorous growth in the spring and the mature, well ripened wood and buds in the fall, that ensures in health of our fruit trees through ous changeable winter weather.

## The Canadian Apple Industry

 With the approach of winter, the apple industry once more asserts itsposition in Canadian export trade. position in Canadian export trade. Apple exporting, despite the inevit
able fluctations of crops, able fluctations of crops, may fairly
be said to have expanded as rapidly be said to have expanded as rapidly the Dominion assumes a leading part. An excellent resume of the methods employed : packing, sorting and shipping, which may serve to enlighten many upon these important details, was recently published in "Canada," and is reproduced herewith for $t$ general information contained
The French call butish 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,' 'potato of the orchard.' For as the used vegetable-at least in the Old Country-so the apple is the most casily obtained and favorite fruit for sweets and dessert. The great demand thus caused cannot be supplied Wholly by English orchards, although The produce of thaise huge crops. is produce of the British orchards the world, and especially from the the world, and especially from the
oversea Dominions. In this trade Cansea Dominions. In this trade Canada has her share and every year
the maritime provinces, Quebeo and the maritime provinces, Quebeo and
Ontario export enormous quantities of apples to British ports. The im-
portance of this industry may be portance of this industry may be
seen by the following figures of the seen by the following figures of the
quantities of apples exported by Canada in recent years. In the fiscal year ending March 31, last, 1,092,090 ported (value $\$ 2,804,282$ ) were exbarrels (value $\$ 2,748,434$ ) was sent to various parts of the empire, princip-
ally Great Britain. ally Great Britain. In the previous year
645 ) were exported 645) were exported. The exports in previous years were: In 1007 (when owing to the change in the fiscal year, the exports only covered a period of nine months) 977,961 barrels ; in 1906, $1,217,564$ barrels, in 1905, 1,037,148 Garrels; and in 1904, 1,598,614 barrels.
The exports fluctuate, and it would The exports fluctuate, and it would clined somewhat. But it must be re membered that the apple crop as othor agricultural products, varies year by year, and again the Dominion's pacity for comamptioner-growing capacity for consumption-noticeatly in the prairie provinces, where fruit is
not generally grown-accounts in some measure for the decrease in the exports year by year
(To be continued nest week.)
A short course in fruit growing will be given at the Ontario Agricultural College, from January 25 to February Creelman for a copy of the calendar Creelman for a copy of the calendar
that describes it.

## For Fruit Growe:s and Gardeners

There is much to interest fruit growers athi' gardeners in the November issue of The Canadan Horticulrurist. Valuable information for fruit men is given in such articles as "Grape Culture in Cold Districts," 'Protesting Strawberries," "Fall Cultivation," "Starting a Peach Or-
chard," "Growing English Gooseber. ries," and others of similar nature

## A Welcome Visitor

I have been a subscriber to Farm and Dairy for over a year now and must say that it has al ways been a welcome visitor It fully equals any agricuitura journal I have ever read. The euts and illustrations are wel kept 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, Prince Edward Co., Ont
excellent 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 aro being secured. A number of letters from growers in all the provinces gives valuable fruit notes. Furthermore, fruit growers are warned against the operations of men who claim to represent a large uursery in
the United States and who are at present working in certaip counties is Ontario. They are using fraudulent
means of selting nursery sock means of selling nursery siock. Farmers and fruit growers are cautioned
aga, inst purchasing stock from them. aga, inst purchasing stock from them.
Much consideration is given in thi issue to home gardening and to th. work of horticultural societies. Grow ing violets, protecting roses, plantin: for winter effect, the care of lawns care of house plants in winter and similar subjects are dealt with by practical writers. An excellent ar ticle entitied Lawn and Garder do with fruits, flowers and vegetabl s this month. This is a regular feit ure of Tha Canablan Horticeltura it and alone is worth much more that the price of a year's subscription Vegetable growers will find articles of special interest in "Fumigation with "yanide," "Market Gardeving," "Grubs in Greenhouses," and "Forc ine Fall Tomatoes.
The Canadian Horticulturist is a monthly publication for the fruit krower, for the vegetable grower and for amateur gardeners. It is the only mublication of its kind in the Dominion. All articles are practicable, seasonable and well illustrated. Every person who is interested in these seribers. The small sim of 60 cents i. the subscription price for one year, and $\$ 1.00$ for two years. Address, The Canadian Horticultubist, Peter. borough. Ontario and mention Farm and Dairy.

Renew Your Subscription Now
 booklet. This book is full of nioney. saving tips for Syrup Makers. You need a "Champion Evaporator" in your maple grove next spring, be-cause-The "Champion" will save you time, labour and money, and get more out of your grove than any evaporator on the market. The successful men all use "Champions." The size you want doesn't cost
muth either. Write for prices.

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Novem

## The Co

## H. C. Pie,

## The wors

 try against mon chick mite," Th mites whichdo much do much l thirsty pest poultry ind
killing adu utting dow only attack oven man a

## POULTRY YARD

The Common Chicken Mite

## The Common Chicken Mite

The worst external parasite of pouliry against which the poultryman and armer have to contend is the "eom-
mon chicken mite" or "red chicken mon chicken mite" or "red chick
mite," There are orher species mites which attack poultry, but they do much less damage. This bloodthirsty pest causes great loss to the poultry industry of the coustry by killing adult fowls and chicks and
cutting down egg production. It not only attacks poultry but horses and even man as well.

BYMPTOMS OF INYESTATION.
Hens which are attacked by mites cease laying, become poor in flesh, feathers roughen and drop out. The head and comb become pale and the bird presents a sickly appearance. ritation and loss of blood due to nightparasites of hordes of these hungry parasites. It seems hardly believable that towls could be killed by such
small pests, but they are so many in small pests, but they are so many in blood is enormous. Their ravages are most pornicious on sitting hens, as host at all times, causing a rapid loss of blood. Attacks upon sitting hens often result in the hen leaving her nest or in her death, spoiling the
hateh in either case. Even if the hen does withstand the ravazes of the mite, the newly hatched chicks are attacked as soon as they emerge from the shell and
short time.

## DESCRIPTION OF AHE MITB,

The adult common chicken mite is
elliptical and somewhat flattened in elliptical and somewhat flattened in
shape. The adult varies from $1-25$ to ahape. The aduit 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 blood which it has sucked from its host. It is while gorged with blood that it is rather slender, tapering legs by which it can move rapidly. It has sharp needie-inke mandibles which it inserts ing sucking mouth parts the mite is ing sucking mouth parts the mite is
greatly different from the poultry louse, which has liting mouth parts and cannot suck blood.

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

## Black Watch

Chewing Tobaces
The big black ploge lets. Ret
of the building, lifting up the roosts and Lottoms of nests, where they will
be found gathered in patches which be found gathered in patches which
have the appearance of grayish or reddish brown, powdery deposita. These patches are composed of adult mites, young mites, eges, cast of skins, excreta and filth. The patches are on the amount of blood in each mite. It requires a very careful examination to discover mite patches when there are but few mites present, as they are bidden away from the light, but in
cases where they have been allowed to cases where they have been allowed
multiply freely the patches may crease in size and spread over the exposed surfaces of the walls, roosts and nests. In some instances of extreme gather th, it is actually possible to gather them up by the spoonful.

LIVE HIstory.
The adult mite lays her eggs, which are elliptical in shape and about 1-100 of an inch in length, in the cracks and crevices of the roosts, walls, nests, or boxes, usually where there is some
mantire or other filt able conditions filth. Under favora few days. When hatched thateh in mites are white, oval in shane, and have but six legs. They feed for a few days upon filth, but attack fowls when older. Every few days the
young mite molts or sheds its slin and increases 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. Elford, Macdonald College How to feed growing pullets in winter egg production was dealt with in Farm and Dairy last week. An experiment conducted at the Cornell experment station was quoted in this connecton. The conclusions drawn
from the results of this experiment from the result
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 Forced pullets made a better profit han retarded pullets.
at less cost ets ate less food per hen pullets. cost per hen than retarded Forced pullets produced more eggs on than retarded pullets cost per dozForced pullets pullets.
during early winter thed more eggs during early winter than retarded pullets.
Force
rorced pullets gave better hatehir results of eggs than retarded pul-
Forced pullets made a greater percentage of gain in weight than rearded pullets.
Forced pullets showed less broodiForced retarded pullets.
than pullets had less mortality Forced pullets
han retarded pulletsed better vigor Forced pullets pullets.
Forced pullets showed the first mature moult earlier than retarded pulRetarded pullets gave better fertil-Hopper-fed dry forced pullets. results in dry mash gave better of eggs, gain in of weight, production ing power of in weight of eggs, hatching, mortality, days lost in moulthen, than wet mash. $\vec{W}$ et mash mash.
produced slightly larger fed pullets produced slightly larger eggs of slight-
Iy better fertility yobtter fertility, and showed less froodiness than dry mash and grain fed pullets.
Dry mash and grain fed pullets
laid eggs of good sise laid eggs of good size at an earlier
period than wet mash and grain fed period than wet mash and grain fed
pullets.
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 inlined to develop bad habits than hose having a mash.
Earliest producers did not give as 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
egg. egg.
The most prolific pullets did not alhys lay earliest.
Pullets did not

## moulting.

## Poultry Keeping for Egg Production

Bulletin No. 122 of the Massach setts Agricultural Experiment Station contains considerable practical information that ought to be or interest to
readers in Canada. readers in Canada. Among the quesWm tions dealt with in this bulletin by Mr. Wm. P. Brooks, is "Pure Air for Poul
Pure, fresh 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 abundance of pure air and sunshine. Mr. Brooks says he is a fresh air crank,
He claims to He claims to havé cured severe cases
of roup by, as he terms treatment with fresh air. Fowl heroic ed with this disease were put infect-
with air. wire cage, where only a strip of burlap protected the west side. They were kept there all the winter and came out cured. Though in Massachusetts the er states it was Canadian, the writhalf degrees below zero. Movable coopa are advocated for growing chicks. coops that are easy to clean, easy to chicks fresh pasture and variety the chicks fresh pasture and variety with
cleanliness. In speaki
In speaking of the breed to select, the strain is more important than the breed. A preference is expressed even for the production of eggs of a strain of one of the American breeds espe. cially bred for improvement in that direction. Such hens, on the one hand will, when eggs are dear than the more eggs ranean ranean breeds. There is also the ad-
vantage early age fit to market as roosters an Those who want winter layers, some good advice when Mr. Brooks says they should not be hatched too early. The early pullet begins to lay prices come and is done when the high ter, hatched a few weeks or a mis later, commences to lay during the last if october and first of November, and, throughout the winter In, continues setts, 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 mincer, shells and all, in conjunction with stale bread The of egg to four or six of bread. or three weeks. At the end of three or three weeks. At the end of three
or four days a little uracked grain is given, alternating with the mixture which gradually fakes its place until at the end of tha 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 In range in your grass, if necessary the following conclusion. Brooks states 1. The regnlar use of
ders is not likely to increation powproduct and is unnecessary as the egg of insuring health 2. Oalbeg
2. Oalbage given in moderation is better than cut elover hay as a winter food; if much is given the flavor of the egg may be affected sh.
3. The number of eggs produced is not affected by the presence of the
male.

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ceilings and walle.

4. Protein can be better given in animal food than vegetable foods.

Dry prepared beef soraps and meat meals are cheaper and safer than resh meat and bone
Where mashes are used the mornis better than the evening.
Corn, if judiciously fed, is a safe eed for laying hens.

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
ou.
The greatest cause of failure in the poultry business is, without doubt, handled as intention and its being handled as a side issue, the fowls get-
ting but a remnant of thought and ting but a remnant of thought and attention after one is exhausted by has nothing len to other business and ed poultry, Give for the sadly neglectcareful study and care it is neeesary o give any other remunerative bary siness, and there will not be any question as to which will pay best.
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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 than the inability of many people to distinguish the difference between a tax on land and a tax on land values.
The difference, really, is simple. As
farmers, we own more land than the average city resident, although we do
not earn more mey not earn more money. A uniform tax therefore would be unfair to the farmers. When, however, we talk of tax-
ing 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 we would receive our share of the proceeds. Therein lies the essential difference between taxing land and tax-
ing land values. Farmers help to ining 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 o 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,
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 inferior stock to the western consumer.

The more general practice of spraying and properly caring for orchards would reduce the amount of infeior 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 Ontario farmer continues to keep an orchard and then not give it proper care. The large percentage of culls produced under present methods of orchard management is largely 're-
sponsible for any dishonest packing the farm. For the most part, the life of all farm machinery can be consid erably extended beyond what is gen erally considered a satisfactory term Binders allowed to rough it, soon be come subjects fit only for the scral heap. Such must be apparent to all yet notwithstanding the lesson inevi tably taught, many continue year after year to lose a great part of their capital through siving tiei farm machinery no hous'ng, except when convenient. To what extent neglect of farm machinery is respon sible in keeping some farmers poor, would be difficult to estimate. It is, however, a significant fact that in variably it is the poor farmer who countenances such neglect; those who are in more favorable circum. stances knowing that such practices would work their ruin.
There never was a time when suitable housing, designed and used 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 read ing 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 agri-
cultural communities. High-class cultural 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 supplant ed by an instinctive craving, awakened by the sweep of progress, for higher type of reading matter.
Parents who seek conscientiously to discharge the obligations which the rearing of chiीdren 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 rul.bish 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 recond to none in its final consequen ces. Uplifting and inspiring literature ir

## The Home $\mathbf{P}$

Division, Milk delivere mer months fr teria in such la
not a safe food for infants who of milk.
milk can be sec times difficult a
seriodicals and books is within the
reach of every farm family. Whoever seeks it will find it.

##  <br>  <br> Some Churning Questions Answered

What is the proper temperature for
ar-a.u to churap How fong shouic eream if.a.a. to churnP How long shouture fream
kept atter it has come sroan the separ. ne kept after it has come roou the separ
dor before ohurningt what is the eause of butter coming so sott that it has to to te of butier coming so soft that it has to te trom the butter milk? Does a litule milk ward Oo., Unt. narm:-U, T., srince sa-
Une cannot give definite directions as to the proper cnurning temperature. It depends on several condithons, chief of which is the ripeness of the cream. Other factors ares, the character of the food of the cow, the oxcent of the period of lactation, also the acidity or the ripeness of the cream. The riper the cream is, the lower will be the temperature at which it can be churned. It will be then more difficult to churn the cream when the cows are on dry feed than when factor, however, pasture. The main cream. The acidity should be about 5 per cent. The right temperature whay be said to be that temperature, Which will give butter in firm condition in from 30 to 40 minutes of ehurning. Ordinarily in creamery practice, this temperature runs from
50 to 56 degrees. With thin ar 50 to 56 degrees. With thin cream,
however, and in cool weather one would never get it churned at one low temperature. A 30 per cent. cream will churn at 52 degrees in summer. In winter the demperes in should be from 60 to 63 degrees for the same cream.
In ereamery practice (whole milk 24 hours before chum is usually kept for should le well ripened, The cream thickened up and have a clean, acid thickened up and have a clean, acid ance, before churning. Most cream is kept too long before churning. In farm practice, the cream should be cooled 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 churned at too high a temperature. Hot cream, or cream that is not cooled in hot weather, will give such results.
There is some milk in any cream. For churning on the farm cream, should be taken from 25 to 30 per it will then ereamery 35 per cent. temperature if it has been well rip ened for 24 hours. There is no call for having much milk in the cream. A 25 per cent. cream will be found to give better satisfaction on the farm than a 30 per cent, cream, for in small churns a 30 per cent. cream Would have to have some water added come properly.-J. ${ }^{2}{ }^{2}$ F. Singleton. Creamery Instructor, Eastern Oncario.

## The Home Pasteurizing of Milk

 A. Rogers, Bacteriologist, Dairy Division, Washington, D.C. Milk delivered in cities in the summer months frequently contains bactoria in such large numbers that it is not a safe food for children, especially for infants whose food conists entirely of milk. In many cities a special milk can be secured, but this is sometimes diffieult and always involves additions: expense. Under such circum-milk consumed by small pasteurize all pasteurization should he done in The a way that disease-producing in such a way that disease-producing bacteria
as well as those likely to produce in testinal disturbances likely produce intestinal disturbances are destroyed Without at the same time injuring
the flavor or the nutritive the flavor or the nutritive value of
the milk. This may be aco the milk. This may be accomplished
in the home by the improvised outfit.
Milk is most conveniently pasteur ized in the bottles in which it is is livered. To do this use a small peil With a perforated false bottom. An ail puerted pie tin with a few hole
punched in it will answer this pur This will raise the bottles purpose bottom of the pail, thus allowing a fiee Lumping of the bottles preventing hole though the cap of one Punch a tles and insert a therme of the bot-
 eter is likely to be inaccurate, and if possible a good thermometer with the used etched on the glass should be used. Set the bottles of mill in be pail and fill the pail with water in the pail the level of the milk. Put the and on the stove or over a gas flame the milt it until the thermometer in degrees shows not less than 150 The Lottles more than 155 degrees F. from the water and allow be removed from 20 to 30 minutes. The tem perature will fall slowly, but may be bottles with a towal. by covering the cap should be replaced with punctured cap should be replaced with a new one an inverted cup an inverted cup.
After the milk has been held as directed it should be cooled as quickly in water. To asoid possille by setting ing the bottle by too sudd of breakof temperature, this water shouge be warm at first. Replace the warm water slowly with cold water. After cooling, milk should in-all cases bo held at the lowest available tempera-
ture.

## Dairy Meeting at Peterboro

All that kept the Peterborough district meeting of the Eastorn Dairyough Ansociation, held a: Peterbor from on Wednesday, November 3rd helpful tendance. Speakers of the lack of atthe well known dairy the day were, Henry Glendinning of Manily, Mr. J. F. Singleton, Cresmery Instructor, and Assistant to Mr. Publow in the Kingston Dairy School, and Mr. He C. Duff, of the Department Mr. H. culture, Norwood Ont. Davy, secretary of the Ottawa Cheese Board, Mr. E. Hawthorne Warsaw Mr G. A. Gillespie, Mr. J. Riddle and
Mr. H. B. Cowan of Peterborough als Mr . H. B. Cowan of Peterborough also
spoke. spoke.
The representative for the Peterrectors distriet on the board of directors of the Eastern Ontario Dairypie, who has given Mr. G. A. Gilles. pie, who has given must satisfactory again unanimonsly past few years, was sent the Peterboroug elected to repre The addresses
The addresses dealt with matters of producers alike. cheese makers and producers alike. Mr. Henry Glendinning handled his specialty "The Feed ing of the Dairy Cow." He emphasized the need of weeding out the poor cows by means of the scales and Babcock test and at the same time, he showed that in order to weed out cows, one must feed them. It was not fair to condemn any cow unless she was given a fair chance. Corn silage and alfalf hay together with an and aifalfe water supplied at all times was given as the secret of cheap production of
milk. milk.
The
uses of composition of milk, and the uses of the various constituents in
cheese making, formed the cheese making, formed the main part
of the address given ty Mr. Single of the address given ty Mr. Single-
ton. This address was pointedly il-


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Iustrated by means of samples of the
various constituents in various constituents in their relative quantities, each constituent being in an individual bottle. Other subjects touched upon by Mr. Singleton were ing by test and some the matter of paying by test and some discussion relaInformation of in 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' In stitute Clubs. A club has been al. ready organized in Norwood. Others will be organized shortly. Mr. Duff called upon the cheese makers and salesmen as leaders in their respect ive districts to help along the work of the farmers' elubs and to lend their assistance wherever possible.

## Eastern Dairy Meetings

In addition to the district dairy meetings that have already been held at Peterborough and Lindsay in connection with the Eastern Ontario Dairymen's Association other meet-
ings have been arranged for as fol lows
17 November 16, Renfrew ; November Vars; November 19 November 18, vember 29 , 24, Moose Creek; November 25, Mer andria: November 26, Iroqueis; Alexvember 27, Kingeton, Nroquois; No. Kemptville: Decemter November 30, December 2, Picton: Deer Lansdowne, panee; December 8, Dueember 7, Na. panee; December 8, Queensborough.
It is hoped that ally, as well that dairymen generatiy, as well as others interested, will of the information and take advantage of the information and instruction to
be given. Mr. George ge given. Mr. George N. Barr will give his illustrated address on "The which of Milk for Cheese Making." which will be illustrated by lantern slides at Renfrew, Carleton Place, Vars, and possibly at a few of the other places, Well known authorities, all experts on their respective subjects, will address the meeting Those attending may be certaings, gaining much information of rat that will amply repay them of value that will amply repay them for their

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TORONTO, Ont.

##  <br> Business in Flourishing Condition at Glanworth

## 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 season means enlargement for 1910," of milk were received, and the lbs. output of cheese this season will be in advance of 175 tons. Which means a month among the farmers. Mr . Brodie won a diploma andmedal at Chicago and a diplomater Buffalo. While at the "Donnybrook Fair," the largest local fair of this county, he won a first on his cheese. er, that his patron's herds were composed of about half Durhams, and ence in the milking qualities of either 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.

## Instruction Work in Peterboro Section, 1909

It is gratifying to me to look back borough section as dairy instructor and sanitary inspector and be able to note the change and improvements that have been made. Improvements have been more marked for the last system of instruction. A number of factors have contributed to these improvements, but one I wish to make beld in connection with the factory business meetings at the close of the 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 improvements, which has made the work more pleasant for me, and the and lasting. The dairymen of Peterborough section I know must be
well pleased with the results of the past season's operations. They have had good demand for their product with a good supply of milk up to the closing day of the season.

better conditions prevailing
have had under my charge this season 36 cheese factories and one creamery and am very pleased to be
able to state as a whole that the mill able to state as a whole that the milk
has reached the factories this has reached the factories this season 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
whole were making more improvements than we were as a whole. We cannot sit down and rest on, past laurels won. The strainer on the vat at tue factory is a good indication of The less sediment, dirt and hard results in find on it, the better the results in the manufacture. The old rusty cans are nearly all discarded and the very few that are left should be. Do not use rusty tinware of any
kind in storing or handling milk. To
every patron of every cheese factory and creamery let me say, make pro-
vision for cooling, and the proper storing of milk and cream for the season of 1910 .
cool ouning rooms
1 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 need say no more.
The aim of the producer should be to produce a first-class article at the H. H. Dean, B.S.A., who said "Breed, Feed and Weed." There is 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 been pleased to see more corn growing this year than usual. With silos and alfafa hay the cost of feed
should be materially lessened. For whould be materially lessened. For weighing and testing the individual cow in fact it is the only thing, so I Would advise every cow owner to make that have been placed within the reach

## EQUIPMENY OF FACTORIES

Your cheese factories on the whole
are very are very well equipped and managed
and are kept quite clean and sanitary and are kept quite clean and sanitary
but there should be a determined effor made to exclude the flies. There is more trouble in the surroundings at the whey tanks than from any other be kept clean suggest that the tanks on which to load the whey be installed and have these connected with underground drains.
hould cheese factory, to my mind should be equipped with alkali test,
curd or fermentation test, curd or fermentation test, lactometer,
and Babock test, and all milk should be paid for by the Lutter fat test. In my group of 36 factories, there are 14 that pay by butter fat test.
The make and the quality of the cheese on the whole for the season has been very good. Probably the greatwas in the made in the manufacture cerd was not allowed to form sufficientIy in the whey resulting in dim oolor short sandy texture, weak body and they were not as close as they should
be. I believe 90 per cent. of the faults in manufacture would be traceable to this one source. We are liable year under certain conditions of weayear under certain conditions of wea-
her and feed, but this year it seemed o be more pronounced than usual. Let me say to makers, keep close watch of the curd while it is in the whey, and if properly firmed when removal, the quality of your cheese will be pretty well assured.

## starters advocate

I cannot close this paper without would on the starter question. I every maker should and think that 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 contain. I most strongly advise that avery 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 ly the too free use of I hope and trust that there will be greater effort put forth by all next season than ever before, for the uplifting and placing of this great industry, dairying, on sure and right footing where it rightfully belongs on aceount of its importance in the agri-
cultural industry of this country.


## Wb <br> E that brings sunshine into the lives of others, cannot keep it from himself.

## The Strike of Hannah

## Mary E. Wilkins Freeman. <br> (Concluded from last week)

SHE made two strides into the wood-clothes-basket. Then she bundled carefully into it the MacFarlands ${ }^{\text {a }}$ Thanksgiving dinner. She had a great respect for this stupendous dinner even in her rebellion. She stowed away everything carefully and cooking had been done. The the mous turkey crowned the whole, his brown and unctous drumsticks protruding. Then without-stopping for her hat, merely flinging ber old cape over her shoulders, out of the back door she plunged, a New England for her oppressors' destruction bomb har her oppressors' destruction, but having a spiritual might compared with which a boml, would have been a loy. 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.
When Hannah was about half-way bome, she met an old man with his foung grandson who was escorting him home to Thanksgiving at his mother's. Both stopped and eyed Hannah amazedly. Hannah knew then quite well. Finally the old man spoke in a hoarse voice. "What hev you Bot in that clothes-basket, Hannah
"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 Thanksgivin' dinner, sonny," and she laughed.
Down the frozen road went Hannah Dodd, never wavering, earrying the heavy basket, until she reached her own house. Her four little girls opened the door and stood staring, Then suddenly their pinched little fanes lit up with joy. They thought that thir Leautiful store had been given to their mother by those rich and great Mac Farlands. They rushed down the steps, and danced about her. She motioned them away with a shake of her head covered with wind-blown hair. "You jest keep off," said she. "This needn't think it is." The ohildren's 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.
Hannah ene sted was opened and dren huddled together, shirerine children huddled together, shivering with
the cold, and staring at her with sacred, wondering faces.
"Oh, mother," began Eliza, the old-
"Oh mother, what $P$ " asked Hannah etting the basket down carefully.
What is it all for?
"Providence," replied Hannah uith an awful grimness. The chil innocent, frighten to stare with round, ain't one thing in then eyes. "There you, and you needn't think there for ${ }^{\prime \prime}$ said Hannah. "Have you had your dinner?"
"We were waiting till you got "Well, go into the house," said
Hannah, "and we'll have dinner, and
crowned with and throned on the $\mid$ dinners, and everything else, and Pro-
Right. The country woman in her shabby attire, with her wackg in her poor bome and half-starved Was pitted against the rich man, who had the migat of gold which prevails in the lana, and who, never in his Whole life had known the want of anything which gold could Luy, and
who had moreover Who had moreover been generously
dealt with by nature. George S . Mac Farland was a handsome, popularman, whom everybody liked, popular ed. His family had disappointed him in no fashion, everything had gone
his way.

What has become of our Thanksgiving dinner ${ }^{\prime \prime}$ " asked George S. Macrarland. He tried to speak sternly, 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 His mouth twitched a clothes-basket. cast a glance the kitchence at the dinner-table in "Youra.
You can look," said Hannah, 'but you won't see no turkey bones. We topping off withner, and now we're ain't eatin' none of your dinner.'
A horrified look came over the man's face. "Are you crazyP" he asked.

No, I ain't crazy, and I reckon I never shall be," repised Hannah
Dodd. "I'm jest lookin' at things uneven. I'm for things to be so to the one that gave 'em, and let 'ems be divided over again. If you em MacFarlands have grabbed you rich reason why I should, or why my children should.'

You don't call it stealing then?' Stealing is taking something for replied Hannah promptly, "I you," replie,
stole.
ou have only put my Thanksgiv dinner on the scales of sadd George \&. MacFarland Thee, most gentle and winning expression overspread the rich man's face tho can tell you what is the best thing
to do," said he. "Wo," said he.
What ${ }^{p \prime \prime}$ asked Hannah suspreious-
"You take hold of one handle of that basket, and I will take hold of come home with meand your children Thanksgivinu me and we'll all have
Hannah still dinner together
Hannah still surveyed him with susmean a word of it " eyes. "You don't "Yes, 1 do. Teil that pretty lit tle eldest girl of yours to hustle herself and the children into the warmest
things the things they've got, and we'll start." and Gas almost dark when Hannah the clothes-basket betwand, bearing up the street, with the chilthem, went ing behind. The windows of the houses were filled with wondering meant People did not know what it nah Dodd key never knew, for Han.
nah Dodd kept her own counsel, and anght her children to do likewise and so did the MacFarlands. When they arrived at the MacFarland house Mr. George S. MacFarland bade Hannah and the children remain in the kitchen, and take the things from the basket and heat them, and he would be back soon. Hannah and the chil dren worked fast. They heard ex. clamations and loud Tanghs from the other rooms, but could not distine guish anything that was sat distinguis Manthing that Was said. Fin-
ally Mrs. George S. MacFardand ally Mrs. George S. MacFarland and
her daughter Alice her daughter Alice came out in the "We and both were smiling. dren are coming to dinner" chil said. Then they kissed the ohildren, and Miss Alice took the youngest, litHe Ably, who snuggled close to her The for the south room.
long betore was good, and it was not Hannah Dodd sat was on the table. MacFarland's right hand. She felt shy, but she had the native dignity and self-respeet of New England. Mrs. Maria Gore glowered at first, then she said when a plate was passed to the youngest girl, hardly more that the han a Alice MacFarland jelly.
the child sat, immediately whose side some. "So she shall have gere she said, in her sweet have jelly, voice. Hannah Dodd, caressing young Then she spoke Dodd looked at her. remor of truth, with a great rigid II heard youlna
at chieken piay how much nicer baked in the briek oven" " was "Yes, it brick oven," said she. laughing
"Wog, it want barod in bri,
on. It wasn't based in no brick was the oven was out of kilter, and est waked in the stove oven, and Well it up in the brick oven."
I didn't want to tell any anyway. it, that's all," said Hannah lies about er of restrained mirthnah. A quivtable, but the MacFarlands were the polite and he MacFarlands were tos
Hannah aiso too kind to laugh.
daze. Her her dinner in a sort of daze. Her little individual strike against the inequality of possessions of the rich and poor had ended, and she could not for the life of her tell who had capitulated. She looked at her children eating their fill of the
tors, but she could not tell whether the rich MarFarlands were dividing With her, or she with them.
It seemed to her that she was on a pinnacle of thanksgiving for the present. She scarcely, for a moment, rehad no prevision of the future, in which she was to live with her children 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 a niece. She watched her children eat, and she ate also, but as for her-
self, she realized no savor except that self, she realized no savor except that
of a niviversal love and kindness which she had not thought existed, and an enormous thankfulness to God, and a comradeship with all who partook of his bounty.
(The End.)

## The Upward Look 

## 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 the throne of grace, that we may
obtain merey, and find grace to help in time of need.-Hebrers 4. 15, 16. The evil spirit, who is constantly Watching for opportunities to tempt
us and to discourage us in our efforts us and to discourage us in our efforts
to lead better Christian lives, is wonderfully ingenious in the methods he adopts. One of his favorite actions is
to put sinful thoughts in our minds to put sinful thoughts in our minds and then endeavor to persuade us that they are our own and that we
must te very wieked or we would not must te very wicked or we would not
have such evil conceptions. This method he knows, is apt to confound, confuse and discourage tis especially if we have not been long started in ages us we are more ready to fisten to his further suggestions and to doubt God's power and willingnese to help ${ }^{u}$ We do not sin when we have evil
thoughts. We sin only when we listen to and act upon them. Evil
thoughts, strange as it may seem, are means by which we advance in
grace and in Christian power. Every time we refuse to listen to them and
resolutely cast them out of our mind we weaken the devil's hold upon us and we find it easier to reject similar temptations in the future. When we resist the devil he flees from us.
Our text shows that evon Christ was tempted and yet $\mathrm{H}_{\mathrm{c}}$ was without act This was because He refused to Christ must have been suggestions. more severely than we are. In Luke Cherses one to thirteen, we read that 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 wherein it says that after the devil had ended the temptation he departed from Christ for a season. This clearly implies that he returned later with further temptations.
It is because Christ was tempted just as we are that He is able to symwhy He is dad to help sus in our times of need. When we are tempted we must remenber that we are not temptid by God (James 1. 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 and help to enable us to overcome the devil. It is a plorious 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 that come unto God by Him and that $\mathbf{H}$ e ever liveth to make intercescion for them. (Hehrews 7, 25). Every time we ask God and receive this aid we raw nearer and nearer to God. Thu-- can do as the apostle James direets the joy when ve fall into divers tempall joy when ve fall into divers temp-
tations." (James 1. 2).-W. I.H.N. x

## Country Homes

Bertha A. Duncan, Emery, Ont.
Having considered the house itself one must not forget the ontward surroundings. The country affords more space than the city to show off a beantiful house. The beauty of many a city home is overlooked by being situated so close to the street and hemmed in ly other houses. In the country, we are not ou urowded for
space, and can have a lawn, garden orchard, and probably a tennis cour where use, beauty and pleasure may be linked together. Here there can be much artistic taste displayed in the arrangement of these outward surroundings. 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 bs as carefully cared for as the front lawn, and made as the poet says, "A thing of beauty and a joy forever." It costs very little for shrubs, vines 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-growing shrubs and plants can be arranged to give pleasing effects for the whole season, by judiciousiy hav-
ing 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 harmonize instead of clash.
After all, it is not "four walls and a roof" that are of so much importance in the making of a home, as the life within the walls. Each member of the family can add his or her share to the pleasures of the home life. Preferably the simplest life is best, and this rests with the head of the house to 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 honsewife must think for herself.
There should be a time for meals and each should put forth special of fort to be punctual. Those who pre pare wholesome meals and have pn kind remarks passed about the food y 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 houschold affairs run more smooth$y$, and more pleasantly.
Usually in the country people find, r rather take, very little time for reading. There should be at least a
little time for reading each day to keep abreast of the times, and e ery home should be provided with ${ }^{\text {a }}$ ery newspaper and some grovided magazine newspaper and some good magazine
and books along lines of interest and books along lines of interest
the family. In the living room, shoul. the family. In the living room, shoul
be found every possible comfort pro vided for the family, when they med during their spare moments of th day to enjoy a quiet hour togethe Nor should music be neglected"Music hath charms." Those wh have a falent along that line migh be allowed to cultivate it, as far means will permit. Some of the sim ple airs are, in many instances, mor pleasing than classical music, and adi much to the entertainment in the home.
There are a great many games an means of affording amusement, and it is the duty of every mother an daughter in the home to do her most to make life there attractive,


## "Puritan"

## Reacting

Washing Machine
The machine with the improved roller gear - a time and labor sav-


Puritan" Washers take all the work ont of washday. W site us it your dealer does not handle the "Puritan"

## "Favorite" Churn

You can churn with your hand - with
your foot - or both together, with han
You can churn with your hand - with
your foot - or both together, with tha "Pavorite". Easiest hurn you ever used. Roller beariugs make it so. In 8 sizes - churns trom $1 / 2$ to 30 gallons of cream. Ask your dealer to show vou the "Pavordescription.

DAVID MAXYEL \& SONS
S. Mary's One

## MUSIC FOLIOS FREE

CONTENTS OF SOME OF THE FOLIOS GIVEN AWAY
Sarffi Sames

Look over the above list. See which folio you want.
Send in your renewal to Farm and Dairy, or One NEW Yearly Subseription, and we will send you' your choice at
once. Addrese:

## MUSIC DEPT, <br> FARM AND DAIRY

PETERBORO, ONT.

hat the husbands and sons may ancipate a pleasant evening around heir own fireside. They will not be empted then to look for pleasure in he undesirable places.
Country homes and country life mpress many of our city friends as cery dreary and monotonous. For those of us who have grown up with the freedom of country life in our veins, away from the smoke, dust urrounded by city, where we are ure, where fresh the beauties of Naure, where fresh air and sunshine of giving up and free, the prospeet giving up such luxuries for a city come with its cramped surroundings, alls forth considerable sacrifice. City ife affords advantages which one does not get in the country, but too often pople overiook thecomforts with whin they are blessed in the country, seek city life with all its country, and glare.
There is too much discontent i the world-a constant desire to sud-
denly gain wealth, but after all of
what use is it, if it all. I see steady progress all An abundance if one has not health? and good food of fresh air, sunshine, and good food are three important factors in health, and where can they To teach children the in the country? To teach children the necessity of these, and interest them more in their homes, is important, and a step toWards carrying out the Women's Institute motto, "For Home and Coun

## try."

## e e

## Good Farms Competition

We are indeed interested in Farm and Dairy. We owe many comforts to it. The Good Farms Competition Dairy gav years ago, oy JFarm and and myself stimulus to my husband and myself, particularly to him, that $t$ am sure nothing else on earth could have done. It reached a point that I myself could not have touched, and now my only fear is that we may be getting too proud. But oh, the joy
along the lines of our work progress all all owing to these blessed competitions, making us better farmers, better citizens and having more faith in ourselves. We can do so much more, if we. We can do so much more, if we only have the desire. To yesire what you want, to know what you want and to work for what you "Aunt, is a good ereed for success."Aunt Faithie.

## Useful Presents

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 oost.
For one new subscription, we can send you a 14 k gold Fountain pen, Which would be useful to any member of your family. Put these premiums away for Christmas. They make ser-
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 te used in the same way. The list is illustrated, and is worth sending for A post card will bring you one, free.

## - e

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



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

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


436 Design for Embroidering a Double The scalloped edges are designed to be padded and buttonholed; the sprays worked either in solid embroidery or as eyelets; and the stems are to be outined.


412 Design for Embroidering a Dutch Especially adapted to May Mantor Pattern
The scalloped edges are designed to be buttonholed. The stems are to te outlined and the flowers, leaves and dots can all be worked as eyelets, or the flowers and leaves in solid embroidery and the dots only as eyelets.

电
To set colors in wash goods add a handful of salt to a three-fourths pail 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.

## - e

Have you won any of our new premlums 9 If not, better send for Premlum List at onee.

## veféféese seespestefest OUR HOME CLUB 

stmple things
One of the most encouraging of mociern tendencies is the growing inclinauin towards simplicity. It has taken as a long time to learn that a clutter of so called, "fancy work" is not necessarily a thing of beauty and a joy torever
Let us have oushion covers which will encounter the wash tub with impunity; upon which the man of the nouse may put his head-or feetwithout wrecking ereations in the shape of tortured looking roses or like monstrosities.| Let us have plenty of good books and pictures and we will find that we can easily dispense with superfluous "tidies" and ornament of starting appearance, useful ohiefly for their dust gathering qualities. ade and eliminate from our homes all that cannot be classed as either "use ful or beautiful."- "Sister."

## boy's experienge

I have read a lot about how to keep the boys on the farm and think that self, even though it is worn ay myself, even though it is worn almost threadlare and out-at-the-knees, was a boy once myself, if 1 remember
rightly; and thereby hangs a tale 1 got some schereby hangs a tale years of age when one day along came two eity 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 than I was, they made fun of my and 1 didn't like it a bit. I managed to 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 boys could give me such a drubbing 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 he paid?

Who ever heard of paying the son Wages P Surely that is never done? Yes. But you need not eall it wages. is the same, however, The principle is the same, however, namely, the boy must be getting some returns for his labor commensurate with his idea of the value of the work he perfornus 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 the farm or so many thousand dollare when 1 am through with it!" Too true. But you may be a long time

## FOR economy

in the table expenses increase the amount of QuakerOats; 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 real ambition and in his mind he has a 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 you would keep him in these modern
times you will have to pay him. At some future date, you will receive some suggestion, as to ways and means of working out this pay, from

## Care in Ordering

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

## Buckwheat Cakes

Ingredients : -1 pt buckwheat meal, qt water, salt according to taste, gill home made yeast.
Mix the water (which should be fukewarm 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 a little of the batter; spread it so as to form a cake about the size of a small lreakfast plate; the cakes should be smooth at the edges. When done one side, turn them over, and let bake till a nice light brown. They are much nicr if seryed hot, and only on or two serypd on a hot plate.

## New Musical Folios

We publish in this issue in our Musical Folio premium advertisement, the 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 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 contrivance like the one shown in the illustration. This one is large enough

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

If troubled with perspiring hands, wash frequently in white wine vinegar, and dust with powdered orris

The prinesas tome, made with der sey waist and plaitel skirt, fin one of the
smartent. This chit
Then is closed with but tons and buttonholes at the left of the
front, and inoludes a $\underset{V}{ }$ front, and ineludes $\checkmark$-shaped chemisette ed to silk as well ed to silk as well a can be utilized for
the combinations that the eombinations
are so mueh are so
vozue.
Material required for medium size it yds
44 in wide, with $\%$ yd 18 in wide for chemisette.
Tor a pattern is , $34,36,38,40$ and 42 in bust, and will be mailed on re-
FIVE GORED YOKE SKIRT GU56


Every form of the yoke skirt is to be
mueh worn this much worn
coming soason.
this
It can be either gath ered or tuoked, and consequently
a variety of suta
materials.

The skirt is out in five gores and joined to the yoke. The yoke is itted by
means of darts over means of darts over
the hips and the the hips and the
elosing is made in
vielibly vieibly at the back
Material required for medium size is $7 / 4$ yds 24 or 29 , of yda 32 or 44 in wide.
The pattern is cut for a 22, 24, 26, 2 and 30 in waist, and will be mailed on eeipt of 10 cta.


RESS 6457
simple

## Litule

Iress such as this can be utilized in I great many different ways. Thil yoke could be made of all-over material, however, and for the banding either lace or em
broidery is appropri ate.
Material required for medium size (4
 44 in wide, with $4 y \mathrm{~d}$ of banding and yd 18
yoke. The
The pattern
for children of 1,2
4 and 6 yrs and will be mailed
of 10 ets.

## ,



The simple tueksl
blouse is always inodel can be This model can be urilised either for the odi Waist or for the
gown. It can be gown. It can be
trimmed with trasting bands as lustrated or with ans lustrated or with ans
fancy material that lancy material tha
may be preferced. may be prefered.
Material required for medium

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$i 01$ İvex Oos PRINCE

ARDIOAN bave made po able and baol wet fall all Up to date, a
The potato ore erage one. So ers have quite
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ehased a potal ehased a potal
er," which tal and six picker nee the beater potatoes quite four horses to piekery to kee hang to the ol
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stook. Turnips stook. Turnipg
are twelve scho at the present ows: Oate, pork, 100 a pork, 10 c
from 8100
t

| from $\$ 100$ to 82 |
| :---: |
| $\$ 30$ or $\$ 40$ ea | montly done. -H

WISL
DES
VILLAGE DES is senerally gos both shores of north as Rimoue mer; $\$ 2.50$ for $f 2$ apples. The pi light, but some varieties in Lis
velling at 85 a
comp
W ATERVILLEE. ranoed The fa finished. Threshi
ers are well ples this are well ples
tatoes have bee tatoes have bee
found to be an found to be an
and sell from early frosts prev early frosts prev
ing at good as dug and the far dur and the far
rains greatly in rains greaty in
winter apples ar is very scarce a very good condit! tall feed. Butte sinds of feed is selling at 811.50 t ains, but still try.-J.M.

GRENVI
PRESCOTT,-Thr is more than th meal as formerly meal as
have started to are feoding oate the buckwhest wi The potato orop ord: a large quan ahby. Unmarke o the cows. Th he same as laat of our fart any is selling for hay, $\$ 14$ to $\$ 15$; hat bran, 824 a doa; butter, 27 e a bush; potatoes,
ens. 750 to $\$ 1$ a in. $75 . \mathrm{C}$, to $\$ 1$ a

## PETERBC

 APSLEY.-Thresh roots all up. The up to expeetationswere not one-thir wern not one-thir
fair, but not the b for buickwheat wa
while baek this atrong winged bird has
been ralding the farmers' poultry yardn and one Alock of hooice birds were nearly ctrnamon brown, While its decorations were a golden yellow. It would weilsh about ton lto, and is now being mounted fine. Out of oe orchard of 15 acres acres east of this village, 1600 bbls, of choice
apples will be packed. To those who beautiful-the big orchard the sight was beautiful-the big apples in all their
tempting colors, completely hid from view the green foliage.-J. E. O.

HURON CO., ONT,
BLYTH-During no time in the whole as now. The weather has been anything nut favorable for the past three weeks, been done. A grodly number have con-
siderable plowing siderable plowing done. The fruit crop lot of time and labor, but not to a disthe quality in well cared for orchards Is good and the price is generally very thers picked them and laid the fruit on the ground ready for the packers, while others atnin with large plantations sold
their output F. O. B., and some shipped heir output $\mathrm{F}, \mathrm{O}, \mathrm{B}$, and some shipped
their own. There was a large number of outside buyers throughout this neetion of the country this fall. The root crop is
very fair, wheat, especinlly early sown very fair, wheat, especially early nown,
is looking fine.-R, R.

## BRUCE CO., ONT.

HEPWORTH.-The latter part of October has been very diaagreeable weather for
all farm work. A large quantity of potatoes are not dug yet, and the fall plowing is getting behind also. Potatoes are them and the tops remained green very late, as there was no heavy frost. Butare from 40 c to 45 c a bag. Our Farmers Olub meets once a month. The topice for November are: "The Growing of Alfal
fa." "Shall the Boys and Girlg be left School and Collega?" and "How to increase the Production of our Farms,"

## BRITISH COLUMBIA

NEW WESTMINSTER CO., B.C. MATBQUI.-The usual fall rains have ed, except roots. Potato digging is in progress; the orop is the best I have
known in 20 years, and is running to 500 bush. an acre. Hay is in atrong demand at $\$ 20$ a ton, f.o.b. at shipping point. Hoge are scarce and 8 c live weight is freey offered at sellers' homes. Apples are in demand at 81 to $\$ 2.50$ a hox of 50 lbs. Prices for dairy produce from Novemb:r Lat to May 1at have been arranged by the Sainiand Milk and Oream Shippers' As
sociation and are: Sweet cream, 81.30 gal. for 25 per cent, cream; milk, $22 / 2 \mathrm{c}$ gal. at shipper's point. 1 note dressed turkeys quoted at 300 to 300 , with strong demand for all poultry. Eggs are strong zood demand and realize grood prices.-P.

## Don't put off seeing your friends and setting a olub of subscriptions to Farm and Dairy.

A 18J.SUCCESSFUL TRAVELLERS HAVE AN OUTING
One of the finest trips ever Dianned com menced on November 3rd, when the Frost
Wire Fence Company took 16 of tie agents on a 30 days' onting through the western winning winning a sales competition which began private car, Sunbeam, of engaged the Company. It is a combination sleeper etc. The company arranged every rooms, of the trip even to supplying the travel. ont places they will vielt The differ will not be put to the slightens expense. all their hotel, theatre, bonting and otly, expenses, being paid for before they personally look after the comfort of will prize winners. The party went direet to
Chicago. Yrom there they Colorado Springs, and Oripple Creel. the latter place they will be the gueat. through somg of the gold will be shown there they will go to galt Lake. From Santa Barbara and Catalina Island, where wee glass bottomed bonthe deep through the Elass bottomed boata. They will also visit Pasadena, whare they Wansas City and of Arthur Cuth they will be the guests One of the most pleasant orange grove. rip will be a reception to the party by Canadians of Pasadena.
Lennox county, Ontario: F. G. Young. Chicoutimi county, Quebee, Georg Lavole, on, Perth county, Ontario; Olayton HaviHuron Norfolk county; Dunean MoDonald, county, J. S. R, Moriartey, Welland Rothwell a Marahall, Algoma county C, M. Oroaby, Norfolk county ; Allen Beeh. iel, Waterloo county ; R. H. Porier, Sim coe county: David Ross, Jun., Lambton county; Walter Corman, Wentworth oounhearn, Welland county; W dlesex county.

ABSORBINE has proved so sucoessful in curing many horses that have been affected with thoroughpin or bog spavin,
lame, sore and stiff removing the hair or laying up th, horse, that it seems to me a certainty that they to the cured. Pay particular a:tention give constang. A low heel and long toe change the sitrain on the hocks, so away the toe ale of the foot by paing front of the foot standstom so that the degrees. Apply the ABSORBINE four or five times a day, light applications from J. $Q$. Huter dated May 19th, 1909, Me. reads as Furton Oentre, SORBINE several years have used ABgood results, I have und always with mare that was dead used if on a 1700 lb . sparin, and in a few days with a bog sound, and worked her had her going under treatment." Send for free booklet giving detalled information free booklet, Uae of ABBORBINE, If not to be the tained handily from your drurgiat be ob send express prepid, upon resetpt of 82.00, W, F. Young, P.D.E., 123 Temple Lreet, Springfleld, Mass. Canadian agents,
Que.
 Inownomounownumo Primoe Eoward ishano and self from 35 o to 50 c a bush. The
early frosts prevented the corn from being as good as usual. Turnipn are being dug and the farmer finds that the late rains greatly improved the crop. The
winter apples are not very good. Milk is very soarce and the cows are not in
very good condition owing to shortage fall feed. Butter is selling at 25 c , All kinds of feei is high. Pork is still high, rupply has been improved by the fall rains, but still many of the wells are
dry.-J.M.

## ONTARIO.

GRENVILLE CO., ONT
PRESBOOTT.-Threshing is over and there is more than the average quantity of
grain. Farmers are not busing as grain. Farmers are not buying as much
meal as formerly, and a large number have started to grow buckwheat. They
are feeding oate to the cows and mising the buckwhect with oats for the horses
the The buckwhect with oats for the horses.
The pas the largest on rec ord: a large quantity are grub eaten and some farmers complain about then being scabby. Unmarketable ones are being fed the cows. The turnip crop in about the same as last year. Plowing is well ber of our farmers through. Timothy hay is selling for $\$ 15$ to 816 a ton: mixed hay, 814 to $\$ 15$; oats, 40 c to 42 c a bush; Wheat bran, 824 a ton; egge, 28 e to 30 c
a dox; butter, 27 e to 30 o a $\mathrm{lb} ;$ turnips, 30 o a bush; potatoes, 85 c to 35 e a bush; chickens, 75 c to $\$ 1$ a pair; hides, Ife a lb.-

## PETERBORO CO., ONT.

APSLEY. Threshing is all done, and roots all up. The grain erop did not come up to expeetations. Peas, in most cases
were not one-third of a crop; oats did
fair, but not the big yield that was looked
Tor; buickwheat was not an average crop.
toes. They are first clase in both guanid
ty and quality. Turnips are also good.
Beef cattle are. Tool ty and quality. Turnips are also good.
Beef cattle are a good price and are pret-
ty well all pieked up. good as we have had plenty of has been is in good shape to stand the rain. Stock prospects are that feed will not be an too plentiful before spring. The seany
has been so fate all through that it han left the farmer little time to plow, which work is away behind for thls acaion
BRANT CO., ONT.
ST. GEORGE. - 8ilos filled
8T. GEORGE. - 8ilos filled, apples pickover. These are the dayn when the farm
er comes into er comes into his own. The new wheat is
short yet, but this is ahort yet, but this is a defect which time
and warmer weather will remedy, and warmer weather will remedy, That
on early plowed land is invariably the on early plowed land is invariably the
beat; the differenee between early and
late plowing late plowing can be seen almost as far as
one oan see the fields. Dairy products one oan see the fields. Dairy products
continue in strong demand, 300 a lb , be ing the ruling price for butter on Brant
ford market at local shipping points lant $\$ 7.6$ ) a ewt amall deliveries. The last week coarse grains and roughage has had an
effect on live stoek the cattle and hogs having in satte Thif should ang on rather scanty rations returns for good eare and feeding bettir than at any time before spring. Dairy will be boarders throngh in flesh now will be boarders through the winter, and
who wants boarders in his herd? Then,
don't give them boarding house rations

## NORWICH OXFORD CO., ONT.

poor all fall,-Pastures have been very oattle have had to be fed. Many farm. ers started feeding from silo as soon as done. A good acreage of fall wheat has packing is about finished. Cattle are sple ing at higher prices. At aueion sall: good fresh mileh cows sell for $\$ 160$. Hay
brings $\$ 14$ and brings $\$ 14$ a ton; oats, 40 c a bushel; bar-
ley, 55 e a buahel; wheat, 81 , bult
 meal, 837 a ton; butter, $30 \mathrm{c} .-\mathrm{J}$. Me.
WATERLOO CO, ONT.

## WATERLOO CO., ONT

their turnips; they are only a fair crop the dry weathor retarding their growth
Thair crop, Mangels are a fair orop, as were also po from which are of good quality and free extent but appear to be a fair co any reoially the winter varieties. Fall plowhag is being pushed along rapidly now, it, on account of somewhat behind with good many of the pastures are being pas. is being practised, which early fall feeding erable drain on the winter's supply feed. Cattle are just as scarce and dear an ever, the price running from 40 to $41 / 0 \mathrm{c}$
Ib., depending on size and quality.-

## WELLINGTON CO., ONT.

MOUNT FOREST. -The last harvest of ples, is just drawing to a cotose. Poth toes for the most part have been a light orop. Mangold shave been light also but thrnips and spples have been good. Al-
though fall rains have not been though fall rains have not been heavy consequently, late growing erops, such as turnips and rape, have made good growth.

- 0 . N.

MIDDLESEX CO.. ONT.
KILWORTH.-This is an old settled cabins along the river bank bue their years of faithful industry is noted in the comfort and prosperity seen on every hand. Splendid pineries at one time corered the land, and from here thousands of little pines were obtained for planting in other parts, for shelter, many years remains uncut, and this adds mueh the beauty of the landscape, as the pine, spruee and other trees blend together in harmony. Turnips are a fine orop, clezn and free from insects. Potatoes are grown in great quantities: the white grub did much damage, eating holes into them: they are also outting off the wheat considerably. Lrads of milk go from here to London daily. Some also goes to the
cheese factories.-J. F. 0 . ELGIN CO., ONT.
UNION.-An eagle was ehot along the

## ( MARKET REVIEW AND FORECAST <br> 

Toronto, Monday. November 8, 1909.-The
stability of trade and the general pro
greas of the country is no longer in greas of the eountry is no longer in
donbt. Ye there is need for caution, as several failurea of recent occurrence, show that credits are not earefully guarded. well and remittances on account are as cood as cun be expected at this season the year. Merehants are beginning
feel the effeets of the marketing of big grain crop in the west, which is having a buoyant effeet on western busineses,
Onll loans are advancing, showing that there is a greater demand for money for other purposes.

The wheat nituation is about the same as a week ago. There is some uneasincss from Europe, though it has had little general effect upon prices, excepting in
the speculative markets, which fuctuate anyway whth every little flurry in the ables were lower orders for flour for export at the local mills here had
about stoppes altogether. European buyers are evidently determined to stand off
a while until the changing tendeneies in the market settle down somewhat. Receipts, both in Canada and the Unite
States continue large. At Winnlpeg. No vember wheat is quoted at 95 Kef Decem-
ber at $92 \%$, and May at 97 c . At Chicago ber at $9 \%$ and May at 97 . At Chicago
December wheat is quoted at $\$ 1 . c 2$ and May at s1.02\%. Locally there is no change ers are pretty well through with the seaketed more freely. Dealers hire quar-
Kntario wheat at 81.08 to 8104 for mixe winter and 81.03 to 8104 for No. 2 white
ontelde. On Toronto farmern' market fat Wheat sells
Wheat at 99

## The oat market rules quiet without any reduction in price however any reduction in price however. At Mon- treal weatern outs are quoted at $41 / \mathrm{se} \mathrm{on}$ spot, and Ontario and Quebee onta to $40 \% \mathrm{Fo}$ a bush. Dealers here quote west- ern oats at 38 c to $39 \% / \mathrm{o}$ on track lake ports and Ontario oats at 37 e to 38 C . out side, and 390 to 40 c a bush. on track Tor- onto. The barley market rues steady With prices abont the same as a week at 52 e to 53 e and malting at 66 c to 67 c . Dealers here quote 55 e to 58 c a bush, outOn Toronto farmers' market outs toll at <br> at 60 e to 80 c a bush.

An easier feeling in bran is reported
at Montreal owing to increasei receits
and limited demand. Prices for Manitota bran have declined 81 a ton. It is quoted there at 819 to 820 and shorts at 821 to
822 and 0 ntario bran at 821 to 821.51 , and shorta at 823 to 824 a ton in bags in car
lots Dealers here quote Manitoba bran at 821 and shorts at $\$ 23$ to 824 , and Ontario bran at $\$ 22$ and shorts at 824 a ton
to ear lots on track Toronto, bags included.
ioan corn bushel in car lots Toronto. There are no uotations yet for Oanadia

## HAY AND STRAW

hay isod reported at Montreal, where prices are firm. Quite a lot of hay is being shipped from there to Ontario pointe.
Quotations for baled hay there rule as followe: No. 1, 812 to 812.50 ; No. 2, 810 to 810.50 ; No. 3 , 89 to 89.50 and elover and
elover mixed at 89 a ton in ear lota elover mixed at 89 a ton in car lots.
Quotations for baled hay here rule at

##  5 Absoranac <br> 號    

814.50 to 815 for timothy, and 813.50 to 814
for under grades, and 87.50 to 88 a ton for
baled straw in ar for under grades, and 87.50 to 88 a ton for
baled straw in car lots on track Toronto. On Toronto farmers' market locse timothy
sells at $\$ 16$ to 822 ; clover at 88 to $\$ 10$; straw in bundles at 816 to 817 , and looce
straw at $\$ 8$ to 89 a ton. potators and beans
ties, and the market has an casy tendency. At Montreal white Ontarios are quoted at 450 to 50 a be in ear lots.
The looal demand there is very good. Dealers here are pretty well stoked
with potatoes, though not many freeh ones are coming in. Quotations on track Toronto in car lota are 50 e to 55 e a bage, and
65 c to 70 c out of store. On Toronto farm65 c to 70 c out of store. On Toronto farm-
ers market potatoes sell at 7 se to 80 c a
bag meater bag. Western Ontario beans are coming in in larger supply, and the market is
easier. Quotations at Montreal are $\$ 1.67$
to $\$ 1$ ? to 81.70 a bush. in ear lots there for three marliet easier at Dealers here quote the
mi.75 to $\$ 1.80$ for primes and 81.95 to 82 a bushel for hand pleked. EGGS AND POULTRY
Freeh eggs are very searoe and most of
the trading is in storage stock. About 250 if befng pald f.o.b. at country points for Freah gathered, sand $24 / 40$ in amaller lots.
gatock is quoted firm here at 220 to 30 c , and storage at 25 c to 27 e a
dozen in case lote. On Toronto farmers
market market new laid sell at 350 to 40 c and
storage at 25 c to 30 c a At Montreal dreseed poultry is quoted
 but turkeys are superesies of all birds
market is easier. Live chige here and the
mens are


 ma drop of 3s to 4 an abl. in the English rrading in Ontario has been active with British and northwest acoount. Some tario lant week at 83.15 to 88.25 a a bbl.
and No. 2 e at 82.50 to 83 a bbl. fo.b. The quality of the winter fruit generally is qualities, out Well and has good keeping ples sell at 81.50 to 83.50 a bbl. The
wholesale fruit market has closed for the season.

## DAIRY PRODUCTS

The cheese market has assumed a much stronger tone, and things are tending to
wards higher prices. At the local cheoee boards the end of the week, $111 / 0$ Was
about the ruling price, with one or two about the ruling price, with one or two
boards selling at $117 \cdot 16 \mathrm{e}$. Dealers here quote cheese to the trade at $12 \% / \mathrm{ce}$ for
large and 13 o a lb . for twins. The butter market shows little change. small supplies of choice creamery and
dairy butter here keep the prices of the best grades firm and high. There is, how-
ever, plenty wholesale quotations are: Creamery
 25 c : choice dairy prints, 2 Jc to 24 o ; tubs,
20 c to 21 c, and inferior,
 sells at 28 o to 300 and ordinary at 25 e to
27 c a 1 b .

## SEED MARKET.

as follows: Alsike clover, firm, at market
but 25 bush. for fancy seed, and 86.75 a 87.25 a for No. 1 quality. Lower grades are down
to 86 a a buah and from $\$ 7.60$ to 88.25 a buah., according, to quality. Some seed is offering. ac though it is yet early. Timothy seed.
searse, none offered.

## HORSE MARKET

West Toronto Horse Exehange last week. West Toronto Horse Exchange last week.
Over 100 horaes were on offer, with abont on sold. There in little local intereat in the market and the bulk of the trading
is from the outside. The western demand
has not come has not come yet. Prices during the week Were a little easier. The chicf trading camps. Business is expeoted to be belter in a fow weeks. An important sale of 50

The general range of prices rules as fol-
own Heary drafts, 8180 to $\$ 220$; general ows Heary drafte, 8100 to $\$ 220$; general
purpose, 8140 to $8175 ;$ wagon and expresm
horses, $\$ 150$ to 8190 , drivers, 8100 to 8170 horses, 8150 to 8190 ; drivers, 8100 to 88770 ,
and sorviceably sound horses, 830 to 875 and
each.

## LIVE STOCK.

Generally live stoek markets show lit-
the material ohange from a week ago. The feature of the cattle trade continues
the short supply and keen demand che short supply and keen demand for
choice butchers' eattle. There was some choice butchers' eattle. There was some
nensational trading in exporters on Tuesnensational trading in exporters on Tues-
day. One carload of very finely finished steers sold at 86.50 a ewt.. indieating that when the quality is really good enough. teceipta last week at the oity market
totalled 315 cara, made up of 4.942 catle, 7,014 sheep and lambs, 2,282 hogs, 423 calves and 10 horses. Total receipts at the Union Stook Yards were 149 ears, made 1.709 hogs, 111 ealves and 140 horses.

The character of the export cattle.
fer at the Union Stock Yards were much the same as have been coming for some weeks back. There is still a strong demand for chotee well-finished steers, as
shown by the 86.50 sale already noted Medium to inferior stuff made up most of the arrivals, and for this quality the de-
mand is not overly keen. On Tuenday, several loads sold at 86 a owt, with the range or nales for the better cless from
85.85 to 86 . Fair to grood cattle sold at 85.50 ; common at 84.25 to 84.75 ; ex-
heifers at 85 to 85.25 : cows at 84 to port
84.50,
owt.

The bulk of the butcher oattle trade is nansacted at the eity market. On Wedoffer, mostly of this class. Moat of them were of the second or third class kind, shacause of the large run pricen were
easier, though everything was cleaned up early on Thursday. Good
choice butchera' sold all the way from 84.25 to 85.50 , with 85 to 85.50 paid for select purohases. The mafority of the
good butcher cattle sold at 84.25 to 8475 , and medium to common at $\$ 3$ to $\$ 8.15$ cW . Good quality buthers' cows sold as an anything this peason, the range
high as and
being from s4 to being from 84 to 84.66 , with the common uff selling at $\$ 2.50$ to 83.75 a ewt. Butch Feeding catt

$$
\begin{aligned}
& \text { eding cattle are in as good demand as } \\
& \text { especially heavy onea of gocd qual. } \\
& \text { There was a heavier run than usual } \\
& \text { Wedncatav }
\end{aligned}
$$ Wedncsday and Thursday, but al to 84.50 , and the common fun at 8350 t $\$ 3.76$ a cwt. Feeding bulls sold at 82.75 to ones at 82 to 83 a ewt. Consignments of are quickly disponed

Reselpts of milch cows continue only moderate, and the demand continues ac tive. Good to choice cows are quoted at
850 to 865 ; medium at 825 to 845 , and ipringers at $\$ 25$ to $\$ 40$ each.
Calves are steady at $\$ 3.50$ to 8650 a There was a big run of nheen and lambs last Week, especially at the eity market
on Thursday, of lambs, the price for which took another drop in consequence. Sheep also were quoted lower at 83.53 to
$\$ 3.90$ for ewes, and $\$ 2.50$ to 82.75 a owt. for bueks and cults. Lambs sold down cuoted at Buffalo at. Canada lambs are Hog receipts continue about the same. The quality of the offering shows some ime. provement. Prices last week held steady owt. fed and watered on the market Buffalo hogs are guoted all the
higher range of prices than is ruling here. The 'Trade Bulletin's London cawn: "The market, is firmer and higher
low
with Canadian


## PETERBORO HOG MARKET

 Peterboro, Monday, Nov, 8, 1909.-The delivery of Danish hogs on the Englishmarkets last week was 30,000 . The de mand for bacon in the old Country is only fair, and the market is one shilling lower. The George Mathews Comweek quote the fol owisg prices for this $\$ 7.65$ a ewt.; weighed off cars, 88 a owt.; delivered at abattoir, 87.75 a owt.

## MONTREAL HOG

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

> GEOW, WOUERS \& SONS nu"tinadon, Ino.

Importers of Percheron and Belgian Worses; 100 head for sale: last im. We have a fet stallions on sal in Peterboro, Ont. in care of Mr and see the horsea. He will bring you to the barns if we have not
there what you want. Priee. and terma reasonable, Address,

## F. J. SULLIVAN <br> Commercial Hotel PETERBOROUGH <br> ONT

prices paid ranged from 88.50 to 88.60 a
cwt for selected lots weighed off cars Some specially selected lotis sold as high as 88.75 a owt.
Dressed hogs are in fairly good demand or freah killed abattoir stock.
EXPORT BUTTER AND 'CHEESE
Montreal, Saturday, November 6, 1909. The market for cheere this week has es
hibited considerable strength, and the hibited considerable strength, and the
narket is clcsing with prices advanced all around, and with holders more con tdent of the future than they have been good demand for shipment, and the priocs said show an advance over those curremt last week or fully $1 / 4 \mathrm{c}$ a lb ., and this in spite of the fact that a the offerings in the sountry at present are of inferior guality ser and early October- output of Septem-
This week's country markets have rang
11 , the bulk of the offerings selling
ood demand, most buyers there was
d to do business. Most of the country boards have now adjourned for the sea-
son, and the few to meet next dispose of the balance of the Ocel wil
dotober mex cheese left in the factories, leaving only few scattered, throughout the country hat will continue making eheere during The stocks of cheese
Arst of November showed a decided in
first of November nhowed a decided it
arease over those of the previous month but there is no doubt that from now on Ne will se them steadily reduced, as there will be practically nothing coming from the factically nothing coming United Kingdom tell of a good average oonsumptive demand, which is turning that the aupply of English-made cheese falling off.
Teek, market for butter is stronger thi sipts from the country and the continued sood demand for local trade purposes at prices ranging from a grood demand atrictly finest creamery down to 24 c . for under fincst quality. Some dealers withdrawn from their ohoice stock, and have withdrawn from the market until they

POR SLLE AND WIIT ADVERTISITE Two cmits a WORD, CASH WITH ORDE FOR SALE.-Collie pup, male, pedigree.

DAIRY FARM WANTED, to rent; atocked and equipped as a going concern. sise, with or without option to yurehsese
Box $\frac{\text { Box 20, Farm and Datry, Peterboro, Ont }}{\text { AGENTS make big }}$ AGENTS make big money selling "Val
Peek" Granite Oement, Mends holes Graniteware, Iron, Agate, Tinware, Mends a hole in one minute. Evary housewife buys. Greatest seller on the market. Agents make over 100 per oent.
proflin.-M. Nagle. Wentmount, One
WANTED,-Persons to grow muahroams for us during Fall and Winter moniha Waste "pace in cellar, outhouse or bara can be made to yield 816 to 8 so por
week all WInter. Send for illuatrated booklet and full particulars. Mont sal Supply Oo., Montreal.
the prioe though oom dome to-day
of butter an is butter ar pufficient to ter, especial
imall make Jong as the

## follows

Gamphellfor 316 boxes aold for the balar
stirling. No boxes sold, a pred offered;
Woodstock, Woodstock, Brockville, White at $11 \%$.
pold alleville.
Rel colored off
1061 at 111 Lindsay, old to one be
Winchester, colored regist, Kingston. N Kemptville all colored Trogu
white
board
at the

## Pleton

## boxes of 111 c . 513 at anon nisold.

 No panee. No ored boardeOttaws. N 150 White.
Waterto
1500 bosea follows: Ridget
fore mater 300 white: A
A Nia, 150 co 8t. Hyacinthe cheese at
Oanton Chinton
Watertown. A
cheese at $151 / 40$

## PERCHERON

 The UnitedNew York Oits
Percherons Percherons imp
one of any o
Percheron hors ence of
George ceorge
hreeder Trottings Horse
salle in Peterb of their sales
of whose Advertise
she. Mr , Sulli gian and a Per
tian, Regolo N rian, Regolo
five years old timilitten that their borses,
is a wonderfull
a ron is a beauti gorse of good
though Mr. Sul what him, he horses on hand. chasers (expense Huntingdon, In ride from Peter them stallions wards of 200 he Their methods o ed by their
and America.
the priee being obtained as yet, alnoush considerable buriness has been 197e to-day at around $24 \%$. The stoeks
buttor are heavy, but the trade bere coundent the there is the more than nifflent to carry them through the win. reall maspeiaily in view of the probable trall make of butter in this country, so
from the. Vnitvi Mates for orenm continnece.

## ChEESE BOARDS

## 

Oampbellford, Nov. 2-600 boxes offered
116 boxes sold at $11 \%$, and 115.160 refused or the baianoe.



ored offered; all sold at 11 and
Woonstoenk, Nov, $3,-200$
Mored offered at $11 \% 0$ bid
Brockvilie, Nov, 4.-2570 colo-el
Thite offored: 450 white and 950 and 495
mold at $111 / 0$.
Belleville.
Collovedile, Nof Nover, 4-180 white and 190

Tindeny. Nov. $4 .-$ Over 600 cheese: all

colored refisterod. Nearly all sold on the
Kingston. Nov. 4-25 white and 1090 col
Kred


 board at $111 / \mathrm{se}$ : balance sold on the street
ot the same price. Pleton, Nov, $5 .-16$ faetories boarded 1150
boxer of cherse. all colored.
 anco unsold.
N- panee. Nov. 5-187 white and 745 col .
errad boarded. Sales $73 \mathrm{~m}_{\text {at }} 119.156$. Ottawar, Nov. $5-400$ colored offered and
 1500 boxes at $151 / \mathrm{e}$ to $15 \% \mathrm{ce}$.
Canton, N. Y., Nov. 6.-Sales, 1190 boxes at $15 \% \mathrm{c}$.
Linndon he cheeno market this mo-ning wing on follows: Ridgetree, 190 colord. Avorbenke
50 white: Arkona, 140 colowd Alanchnard ${ }_{4}^{50}$ whites Arkona, 140 colowd Blanechard dd No sales; bidaligg, 11e to tilec
St. Hyacinthe, Que., Oet. $30-250$ bo
Content 1 \%/a

Watertown. N.

## Gossip

percheron and belgiak horses
The United States Cus-oms Reecrds in New York City, show that there are 25
Percherons imported to Amerion one of any other dranght bried. The
Percheran there to to the front in Canada. For the its way ence of their Canadian eustomera. Mesir: George W. Souers \& Bonn, imporiera and Hereders of Percheron, Belyian., Covech and Trottings Horrees, hane a few stallions on sale in Peterboro. These are in charge of their seloesman.
 sue. Mr. Sullivan has with him a Bel gian and a Percheron stallion. The Bel-
gian, Regolo No. 2338 (Imp.) is a black, five years old, and posecases the good qualities that Belgian breeders claim for their horses. For such a large horse he is a wonderfully good aotor. The Perchcron is a beautiful dappled grey. He in a though Mr. Sullivan has but two horses though Mr. Sullivan has but two horses
with him, he advised our representative that his firm now has more than 100 not suit, he will convey interding purHuaers (expenses paid) to hendquarters at ride from Peterboro, There is but 12 them stallions from daylight witil show Mr. Sullivan's firm imports annnally ap wards of 800 head of stallions and mares. Their methods of selling them are endors. ed by their eustomers in both Canada and America.

I am in receipt of the watoh which you tlon to Farm and Dairy new subscrip. in well pleased with it. Arthur Kearna, Middlesex Oo., Ont.
E. E. H. FOSTER BANQUETTED. years has been conneoted with the In ternational Stock Pood Co., was tondered a banguet at the Kaiseroff Hotel
by the head office staff in Minnespolis, the eve of his departure for Toron their Canadian is to assume charge of their Canadian interests, Mr. Savage
acted as hoat. acted as hoat. In the course of the
evening Mr. Forater was given a handsome travelling case along with a beau-
tiful diamond stiok pin as the regard in stiok pin as a token Forster will move his family to Torin that city up his permanent

## AYRSHIRE NEWS

Farm and Dairy is the offlelal or
gan of The Oanadian Ayrehire
Breeders' Association, sll of whese Breeders Ansociation, all of whose
membere are renders of the paper Members are readers of the paper. vited to send items of interest in Ayrshire breeders for publication in thils column

## 

AYRSHIRE NEWS
have just completed the selection of
berta. Among ines for shipment to Al.
of varying agen is to three years. The
mature cow, many of which are dui freshen duaing fall and early winter. edge breeding and have for are of giltof the best producers of the breed. They
will be nold at anction at Didahury, will be nold at auction at Didsbury, A1.
berta, on November 17th, at 2.30 p.m.

I appreciate Farm and Dairy very much. It has found a very promin -L. D. Eankinson, Elgin Co., Ont

## FOR SALE

THE JERSEY BULL, ROSEDALE REV no white, an extra fine animal, worth $\$ 200$,
Will sell for $\$ 75$. Will sell for $\$ 75$. Quiet and right; great
atock getter. AL8O JERSEY BULL CALF, will regig-
ter, by Roscdale Reveller out of Oattle

H. a CHARLESWORTH,

81 Adelaide 8t. East, Toronto
MISCELLANEOUS
TAMWORTH AND BARESHIRE SWINB Boars and sows for nale. J. W. Todd.

## SUNHYSIDE STOCK FARM

## 

PONIES-AYRBHIRES
FOR SALE,-Twenty Ganadian, Bxmoor height. Aleo AYR Prom in to 14Y, hands in and of both gexes. Prices right.
Write or cali on P. A. BEAUDOIN, 107 St . James St., Mentreal.

FOR SALE. - Two fine French-Canadian horse colts, five months old, color chestistration matched; one eligible for reg: istration. For particulars apply
d. H. PILLan, Grimsby, Ont.

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Firat established herd in Canada: sale now, Exeeptionally fine herd of hand-
tomely belted young stock from Imp sires and dams. Right kind for foundation
toek. From six week to Also a few very ohoice gilts, good ones
oo breed for spring farrow. Male pime
rendy for servicion ready for service. Paira or trios furnish. guaranteed. Pedigrees and safe delivery guaranteed. Write for prioes or call and
see. Correspondence solicited, Box 1, A. O'NEIL \& SON, Midideser

## AYRSHIRES

AYRSHIRES, - Record of Performance
work a specialty: young bulls from of $P$. cown, and cown that will ro on at next freshening. Milk reports of dams, for everything.
JAMEs Brao, Box 88, 8t. Thomas

## AYRSHIRES

## "La Bols de la Roches" Stook Farm

## YRshirits, 7 mporico


 F-5-88-10 Ste Anne de Bellevue, Que


HOBT. HUNTER A SONS ong Diatance Phone Marville. One

| IMPORTED AYRSHIRES <br> Having just landed with 60 head choloe Ayrahires, moity great Barcheekle am prepared fill orders for herd heading bullio, seleote from the best dairy herds in Scouland: fit for servioe to dhoose from. Also shio it females of nil ages. Oowe With milk cords up to 70 lbe. per day. Write and led phone. |
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## AYRSHIRE CALVES FOR SALE

## RECORD OF PERFORMANCE COWS

PRICE: $\$ 35$ when one month old
GUS. LANGELIER

## OHERRY BANK STOCK FARM

FOR SALE.-Bull calves, sired by Net

## Canada. One bull ealf two weeks old, ired by Morton Mains Queechy, Junid

erhall Dosie 3 drd, a grand Imp. helfer, and
a yood millker. Alao females any,
a good milker. Alao females any age.
Satisfaction guaranteed. Nothing but the
best, is our motto. Visitors welemme. P. D. MeARTHUR, Morth Georgetown,

AYRSHIRE BULL FOR SALE Halelegh Norman -2lem while with
 Isaleigh Norina
of Mindsward
eish Norine enting 3.08 per cent. The was 9700 lbe Write SAOOB DILLON, ELLIBVILLE, ONT,

## HOLSTEINS

## MAPLE LEAF STOCK FARM <br> GORDON H. MANHARD

Breeder of Cholce Holstein-Frlesian Cattle
At present I will sell 20 young cows, due Alao a few young bulls. E.11-3-10

LAKEVIEW HOLSTEINS Herd headed by Count Hengerveld Fayne
De Kol, son of Pietertje Hengerveld' Count De Kol, who has five daughter
 sale, also a few helfers. ©, T
Hamilton Radial close to farm.
E. F, OBLER, Bronte, Ont.

For sale, holstein bull ealf
 be of butter. Bull calf, borp Maroth 18th.
dam Canadian Champion of her ah
 took bull, grandson of Sareastio Lad. Ett DAVID ОAVOHELL,Varmouth Centre,Ont.

RIVERVIEW HERD
Aagkie Beets 2 Butil Calves, sired by bir
 ${ }^{\text {calves }}$ ole ${ }^{2}$
 E-10-6.10

## P. J. saller

## SUNNYDALE

## OFFERS BUTERR BOY HENOERYELD

 Kol De Kol. half saster to Hengervena $D$ de



## LYNDALE HOLSTEINS

Hoad your Herd with a son of

 BROWN EROS, LYN, ONT.
HOMM-BRED AND IMPORTED HOLSTEINS


 H. E. azoner,


## HOLSTEIN CATTLE

## 

 our herd. Whill zell nanthlome Mave dion benutur heflers mion in mald to Tvo nistern averacting \%imp. who has

D. C. FLATT \& SON, Millgrove, Ont

## HOLSTEINS

WINNERS IN THE RING
Gold Medal Herd at Ottaws Fair
WINNERS AT THE PAIL See Our A.R.O. Reeords
Just the kind weall want. Theycombine conformation
production
Bull and Heifer Calfs for Sale from

## LES CHENAUX FARMS

 Vaudreuil, Que.Dr. Harwoed, Prop. $\quad$ D. Boden, Mer.

## Brookside Ayrshires for Sale

$$
\begin{aligned}
& \begin{array}{l}
\text { bulit calves will be for sale. Look for Brookside Ayrehires at Ontario Winter } \\
\text { Falt }
\end{array} \\
& \text { H. and J. McKEE, Norwich, Ont. }
\end{aligned}
$$

## Turn to the Phone

## When you are in Doubt as to the Selling Possibilities

Ring the market station. Instantly you are brought in direct contact with the people who can most aid you.

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