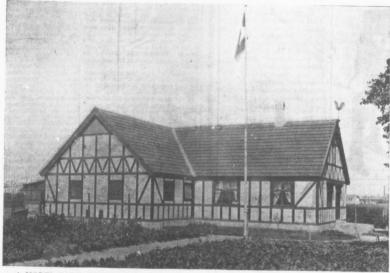


VOL. XXVIII

NUMBER 10

RURALHOME

PETERBORO, ONT.



A MODEL FARM HOUSE IN A COUNTRY FOR WHICH CO-OPERATION HAS DONE MUCH

Co-operation has been extended to every line of agricultural effort in Denmark. There are co-operative cow-testing associations, co-operative breeding associations, co-operative creameries, co-operative butter-selling associations, cooperative egg export associations, co-operative pork packing associations, co-operative insurance associations, and numerous other organizations of a like nature. There are many lessons for Canadians in the successes of Danish methods.

DEVOTED TO

BETTER FARMING AND SANADIAN GOUNTRY LIFE

YOU CAN'T GET SIMPLEX RESULTS

With anything but a

SIMPLEX LINK-BLADE SEPARATOR

You may not know which Cream Separator is the best and the only practical way of finding out is by demonstration. We are always willing to have the Simplex demonstration made on your own tarm, and we won't ask you to pay or sign any papers until we have proven to your satisfaction that it a machine w'thout an equal.

Simplex Results Tell a Story of Success. All we ask is to give the Simplex a fair trial under the usual conditions and you will find, as thousands of other dairymen have found, that for close skimming, ease of operation and a machine that the women don't kick about cleaning, you can't equal the Simplex.

Then, its lasting qualities have been proven beyond a doubt, and the cost for repairs is not worth considering. We use only the best materials that science and skilled workmen can produce, and when it is backed up with

efficiency and sold in an "open and above-board manner.' you can't go wrong if you ask for a machine to be sent on trial.

Write at once for further particulars about our

D. Derbyshire & Company

flead Office and Works: BROCKVILLE, ONT.

Branches: PETERBOROUGH, ONT.

MONTREAL and QUEBEC, P. Q.

WE WANT AGENTS FOR A FEW UNREPRESENTED DISTRICTS

COAL AND ICE TOOLS HANDLING MACHINERY CUT YOUR ICE WITH A ifford Woodloo.

ARLINGTON, MASS

Good Roads Suggestions

The Ontario good roads system, the results it has produced, the cost of putting roads in proper shape, the machinery necessary to do the work at the least possible cost, these were as the least possible cost, these were as the least possible cost, these were as the content of the content of

and thus give the people ideal nign-ways.

In the course of a brief address on What Country Roads Have Accomplished, Mr. A. W. Campbell, Deputy-works and the country of th

given good returns.

"Whereas, the Province has, with a lavish hand, aided our privately owned railways which provide the long haul to market for our farm products;

Resolved, that the province now provide more liberal aid for the equally important short haul of the same products from the farm to the railway station over our publicly own-ed highways by increasing the present grant from one-third to one-half the cost for good roads under county system."

This resolution was moved by Mr. J. F. Beam of Welland at the close of his address on "The True Solution of the Good Roads Problem." The resolution was carried.

the Good Roads Problem." The resolution was carried.

"The first and foremost piece of machinery in road building is, in my estimation, a good, intelligent man, a man with brains," and A. J. Davidson, superintendent of streets, Galt. One of the most important features in good roads is good drainage.

Fapers were also read by Reeve G.—Pelfer, Paris; Messrs, G. W. Ben-Pelfer, Paris; Messrs, G. M. Bell, county or of Elgin, Charles Talbot, county or of Elgin, Charles Talbot, county or G. M. G. G. Messrs, G. M. G. Rankin, G. M. G. Messrs, G. M. Messrs, G

Farming in the Yukon

Some interesting information on agricultural conditions in the Yukon valley is presented by Major W. P. Bichardson, president of the board of road commissioners for Alaska. He states in his annual report, that the permanent population is increasing every year, that more families are beating in the country and the cultivation of gardens and fields gives revided experiments have shown that applendid experiments have shown that applendid experiments have shown that armers in the Yukon valley and the farmers in the Yukon valley and the farmers have not known of a crop failure.

Recens, where the country and the annual farmer special country and the country and

There is a general campaign for more agricultural development in the interior of Alaska. The experiment more agricultural development in the interior of Alaska. The experiment station at Kodiak has developed a hardy breed of catle that stand the climate and thrive on the native grass. The animals are being introduced into different sections and are proving valuable acquisitions to the farming districts. Grasses grows. proving valuable acquisitions to the farming districts. Grassas grow to perfection, and all the ordinary regetables produce excellent crops. The original ideas of the frozen north are gradually disappearing and farms are taking the places of what was formerly thought to be barren glacial

Dairying Abroad

Dairying Aproad

The fact that our Canadian cheese and butter factories are very inferior to many of those in such Danish countries as Denmark, Holland and France, was clearly shown by Dairy Commissioner J. A. Ruddick, at the recent conventions of the Eastern and Western Ontario Dairymen's Associations. Illustrations of dairy scenes in other countries were shown on i large screen by means of stereopticon views.

In Holland and Denmark, the farmin Holland and Denmark, the farmers nearly all own their own factories. They build them in a most substantial manner. Most of the buildings are made of stone or brick and cost many thousands of dollars. When the farmers decide to erect a factory, they go to their banker and give a joint note. Arrangements are fre-

the larmers decide to erect a factory a they go to their banker and give a joint note. Arrangements are frequently made by which these notes are not to be paid back for 50 years. Fayments are made on them yearly. So the standard of the decided was a substitution of the decided with the standard of the decided was a substitution of a creamery in Helland standard the standard was a substitution of a creamery in Helland standard was a substitution of a creamery in Helland standard was a substitution of a creamery in Helland standard was a substitution of a creamery in Helland standard was a substitution of a creamery in Helland standard was a substitution of a creamery in Helland standard was a substitution of a creamery in Helland standard was a substitution of a creamer in Helland been put up by the larmers themselves of these creameries that were shown and then thought of the miserable in sections in Eastern Ontario and in the Frevince of Quebec, it helped to creptain why Denmark and Holland have made such a success of dairying have made such a success of dairying.

COWS IN THE HOME

In Holland, the farmers frequently kept the cows in their own homes. Mr. Ruddick showed a diagram of the Ruddick showed a diagram of the floor plan of a farm house which had a bedroom, living-room, dairy and the cow stable all on the one floor, Mr. Ruddick explained that the cow stable was kept so scrupulously clean that there were never any objectionable dofe.

able odors.

In Denmark, every package of butter has to be branded before it is exported. The brand does not discriminate between the different grades of butter, it being used on all grades. Some years ago, Denmark found that other countries were exporting butter to Great Britain as Danish butter. To prevent this, Danish butter is now branded.

brouds.

All instratical was shown of a facall instratical was shown of a factory in New Zesiand that made 140
cheese in a day. Another limited the showed a seene on a rough farm from a
which 8,000 lbs. of milk a day was
sent to the factory.

Recently Japan has commenced to
manufacture dairy products. A farm
in Japan was shown where 140 Ayrshire cows were kept. Most of these
cows were purchased in Canada, and
Mr. Ruddick stated that he had received word that they were doing well
in Japan.

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Vol. XXVIII.

FOR WEEK ENDING MARCH 11, 1909.

No. 10

ORGANIZING AND INSTALLING A RURAL TELEPHONE SYSTEM

C. F. Hardy, Victoria County, Ont.

The Work can be Done by the Patrons themselves, and the Whole System Installed at a Very Nominal Cost. The Telephone has Become a Very Necessary Part of the Farm Equipment With the Most Progressive Farmers in Victoria County

T is a simple matter to organize a rural telephone company, and to instal the line. The main thing necessary is to get 10 or 12 men who want to have telephones in their homes; the rest is easy. A brief outline of how one telephone company was organized, and the satisfaction that it is giving its patrons will be of interest to those who contemplate organizing for this purpose in the near future.

The Oakwood Telephone Company, in Victoria County, Ont., was organized in the spring of 1908.

At that time, there were not more than two or three other similar companies in operation in the township of Mariposa. It was started by one or two farmers making up their minds that they would like to have telephones in their homes. They took half a day off and went around the neighborhood and canvassed 15 or 20 other farmers. They succeeded in obtaining promises from eight or ten that they would go in with them in the formation of a telephone company.

CALLING THE MEETING

An organization meeting was then called. Several farmers who had turned down the proposal when first called upon, as well as those who had signified their intention of installing phones, were on hand to see what would be done: The expression of this meeting was unanimous in favor of going ahead with the formation of a company. The company was organized. Officers were elected. A set of Bylaws were drawn up, and a committee appointed to look into the cost of securing and installing the phones and of building the line.

In forming the by-laws, many helpful suggestions were secured from a draft of a set of by-laws, which was

secured from a company engaged in the manufacture of rural telephones. Such a draft may be obtained free of charge by writing any company that manufactures phones, as well as much valuable information regarding installing and operating the line. The telephone supply firms, that are regular advertisers in Farm and Dairy, will be pleased to furnish this information free of cost

After the company had been organized, the questions of deciding on the kind of telephones, whether to have a single line with ground return, or a double metallic line, and the matter of connections with the Bell line, came up for consideration. Good phones, of a reliable make were installed.

A DOUBLE METALLIC LINE

It was decided to use the double metallic line. The cost was greater, there being two lines of wire to pay for and string. The total extra cost was increased by about \$10.00 a mile of line. The service, however, with the double line is much superior to the single line, as is shown by the fact that practically the only single wire lines are those

patrons, however, who were situated at some distance from the main line supplied their own poles. COST TO EACH PATRON

evenly among the different patrons. Some of the

The total cost to each patron was between \$35 and \$40. The cost to some was slightly greater than to others, and they had a greater number of poles to supply and erect. This amount included everything, and was the sum total of what each man had to pay out to secure workable telephones in his home. As stated before, however, there was considerable work done by the patrons themselves, which, of course could not be very well included in the above. The line is now owned by the patrons, and of course the only additional expense is for switching and for necessary repairs. Everything being new, the expense for repairs for several years, will be very slight.

Immediate Action Needed to Save the Bacon Trade

If evidence were lacking before, recent returns of British Bacon imports, as shown in the table, should impress upon all the critical state of our Export Bacon Trade. For the month of January, 1909, British imports of Canadian Bacon were practically a half less than for the same period in 1908. They were considerably less than half the imports for January, 1907. As farmers, we ought not to let the trade go like this. If we do, we shall have reason to regret it. The day is coming when we will realize that we have lost a good business, and one of the best assets of the farm.

BRITISH IMPORTS OF	BACON		VALUE	OF IMP	ORTS £
In the first Month of 1909 Denmark, cwts .148,002 United States, ". 237,615 Canada, . ". 34,712 Other Countries, ". 4,639	1908 155,061 248,159 66,677 6,697	1907 116,371 220,445 84,567 7,966	1909 £406,098 564,902 94,060 11,767	£436,738 609,688 173,476 16,905	1907 £332,074 585,080 225,753 21,214
Total, 424,968	476,594	429,349	£1,0747,27	£1,256,807	£1,164,12

should not deny our farmers, and others concerned, the information relative to this industry that could be gained from an investigationmade at first hand, in Denmark, by a reliable commission of Canadian farmers, as has been suggested by Farm and Dairy, and endorsed by leading farmers and the Dominion Swine Breeders' Association. The importance of the bacon industry, and the gravity of the present situation, demand immediate action.

> that were erected several years ago. Nearly all new companies are putting up the double line. It was also decided to secure connections with the Bell line, so that patrons of the line would not be confined simply to their own line, but could speak to any place on the Bell system, within 200 to 300 miles or more. The cost to secure the long distance connections was but slight, and the added convenience, more than compensated for it.

> All the work in connection with installing the line was done by the patrons themselves, with the exception of stringing the wires and installing the telephone instruments in the houses. The total cost with the exception of the poles was borne by the company as a whole, and was divided

INTERSWITCHING ARRANGEMENTS

Mention was made of switching expenses. No switching is required to connect the patrons of each company, but there are at present, several other similar companies all connected with the one switchpoard at the village of Oakwood. To secure communications with any patron of one of the other companies, it is necesary to pass through the "Central" at Oakwood. This is the switching referred to. A fixed rate per year for switching has not been decided upon. It is estimated that the cost will not exceed between \$2 and \$3 a year for each patron. Some of the companies have line charges ror patrons of the other lines over their own lines, but it is proposed to do away with them at an early date, thus giving the patrons of each company free access to any of the patrons on every line connected with the main switchboard. In time, it is expected that this arangement will broaden by the means of trunk lines connecting the different "centrals," so that the farmers can speak to any part of the township, or even over a wider area.

POPULARITY OF PHONES

The popularity that the rural telephone is acuiring is shown by the rapid growth made during the past two years in the vicinity immediately surrounding Oakwood. Two years ago, not more than 12 or 15 phones were in connection with Oakwood. Now, there are over 60. Several new lines are being planned for next year. It is expected that there will be over 100 telephones in this district before the end of 1909. Farmers are finding that the telephone has passed beyond the experimental stage. It forms a necessary part of the farm equipment, and is of inestimable value as a convenience, both from a business and social standpoint.

Danes Would Welcome a Commission

Geo. C. Smye, Waterloo Co., Ont.

I read with considerable interest the article in your issue of Feb. 11th, "Should Investigate Danish Bacon Trade." That the Swine Breeders' Association should have taken action in this matter is quite right. It is to these associations that we look for progressive action along legislation affecting us. The committee might have made their recommendation a little broader; that is, that the said deputation make a study of Canadian conditions also as well, and compare them with the conditions in Denmark, and thereby draw some practical conclusion from their investiga-

I was much surprised when reading further on in the article that the members of the Association took such a narrow view, as to propose that the Danes would resent having such a deputation visit them. It would be a flattering testimony to their progressiveness that such a deputation should visit them. We, as Canadians, gave the Scottish commission a warm welcome, and all the information possible. The Danes are broad minded enough to do the same.

Why Fewer Hogs are Raised

"Why is it that so many of our Canadian farmers have given up raising hogs?" was asked during one of the lectures at the recent Eastern Live Stock and Poultry Show.

"The explanation seems simple to me," replied Mr. J. H. Grisdale, of the Central Experimental Farm, Ottawa. "During the past few years the price of feed has advanced 15 to 20 per cent., while the prices paid for hogs are very little higher than they used to be. Men who formerly made a profit in hogs have been us to do so, under the changed conditions, and have become discouraged. We notice the difference at the Experimental Farm where we have sold many pigs at \$10 that cost us that to produce them.

HOGS STILL PROFITABLE

"There should, however, be a profit in hogs at present prices. The difference is that we have got to feed and breed more carefully than formerly as unless we exercise care our margin of profit will disappear. A great deal in hog raising depends upon the feed fed. We have tried all kinds of feed at the Experimental Farm. During the finishing period we have got the best results from the simplest ration with this exception that we seldom find one kind of grain give as good results as when two are fed mixed. Still better results are obtained when three or four different kinds of grain are mixed. If a farmer has only one kind of grain it would pay him to sell some of it and to use the proceeds to purchase some other grain to mix with it.

"One of the best mixtures we have ever used is shorts, oats, barley and a little roots and skimmilk. When roots are not available oil-cake meal may be used instead. A mixture of 100 lbs. each of shorts, barley and oats and 50 lbs. of oil-cake should give good results. We have produced pork on that ration for 4% cents a lb. We tried frozen wheat last winter but it increased the cost of production.

FEEDING ROOTS

"Roots give good results when fed either cooked or raw but the cost of cooking adds to the expense. We feed our meal wet as not so much is wasted in that way. On most farms there are always a few bushels of small potatoes in the fall that are of little use. These can be fed to hogs to good advantage."

THE BROOD SOW

Mr. Grisdale laid great stress on the importance of starting right in hog raising by getting good sows. He claimed that the difference between a good and a bad sow often means a difference of 10 to 20 per cent. in the final results and determines whether there shall be a profit or not. A

sow should be prolific, in healthy condition, from good stock and able to make good use of the feed

In December and January the brood sows at the Experimental Farm are fed clover hay, roots and a pound of bran a day. The last of January and during February and early March they are given 2 lbs. of meal, bran and shorts. Sows before they farrow are given a heavier ration. The hay is fed in racks from which the pigs eat like sheep. The sows are fed laxative feed, rich in protein.

Recent addresses and discussions would indicate that we have got to improve our methods of breeding and feeding hogs if we are to hold our own with the Danish farmers and that by careful feeding hogs may be raised at profit under existing conditions. Were a commission of Canadian farmers to visit Denmark they should be able to obtain a vast amount of information about Danish methods that would be of great value in improving the situation of our bacon

Some Generalities on Sugar Making John Jackson, Argenteuil Co., Que.

No one in these modern times would think of boiling the sap from 100 trees in old fashioned pots or kettles. The sooner the sap is converted into syrup, the better will be the article. To this



Unloading by the Gravity Method

By taking advantage of an elevated piece of ground, the sap is unloaded into the storage tanks or the evaporator by means of gravity. The photo shows the sugar camp of Mr. G. A. Cottingham, Chauteauguay Co., Que.

end the evaporator is an essential part of the equipment of an up-to-date sugar bush.

The proper time to tap is when everything is ready. Once I was particulary smart and tapped a lot of trees the last of February. It then suddenly froze up. Some of the buckets were full of sap at the time and they stayed frozen for quite a while. The result was that many of them burst. I didn't try that game again. It is difficult to say just when to tap. The right time is generally after the middle of March. I would always rather be a little behind than too previous in the matter of tapping.

The No. 2 Grimm spout gives the best of satisfaction. When buying buckets get quality not shoddy. I have some that have been in use for over 25 years and they are still much better than some we got three years ago.

Scrupulous cleanliness should be observed in connection with all things pertaining to the sugar camp. The sap requires to be strained before boiling and the syrup strained as it comes from the evaporator. For this purpose we used two flannel bags arranged on a milk can.

Prepare for Corn

S. E. Lane, Hastings Co., Ont.

Now is the time for those who wish to grow a good crop of corn for their sile to haul out the manure and spread it on the fall plowing. Then, as soon as it is dry in the spring, commend disking and harrowing; continuing this cultivation at intervals, until about the 24th of May. This will dispose of all weeds coming from the seed in the ground.

If one is going to plant in hills, it requires about 15 pounds of seed to the acre, when in drills, 20 pounds. When one is sure of good seed a little less will do. It is a good plan to produce the seed ahead and sprout some of the kernels. In this way we make certain of the seed we plant. We use the White Cap Yellow Dent in our section, as it ears well when planted in good season. Last year was a good year for corn. I filled a silo 18 by 24 from nine acres with the land managed as recommended in the foregoing.

Diseases of Horses and Cattle* Dr. J. Standish, V.S., Bruce Co., Ont

Success with animals depends upon the food we give them; that is they should receive a balanced ration. Hay alone will not give the creature an opportunity to thrive. It requires clover and some concentrated food, also plenty of pure water. Fresh air is very important. Exercise is not valued at half its worth. Many digestive troubles are due to errors in feeding, coupled with a lack of exercise, and a lack of a period of rest for the digestive system between meals.

Horses should not be allowed to injure themselves by continual eating. Some people think that it is mean not to keep food before the animal all the time. This is a great mistake. It is natural for a cow to lie down and chew her cud, but if she has tempting food kept in front of her, she will naturally eat it. This gives less time for rest of the stomach and the chewing of the cud, and, indigestion, which is the cause of fourfifths of all diseases, will be the result.

PREVENT DISEASE

The practice of abusing animals by forcing them to take unnecessary medicines is to be condemned. Our aim should be to prevent diseases, not to doctor them. A long prescription sounds very fine, and benefits the druggist, but the ingredients of such a "shot-gun" mixture counteract each other. Red Water or inflamed kidneys is a disease which never attacks horses unless they are overfed and their exercise neglected. Colic is a disease caused by unwholesome food, such as wet or frozen grass; or by giving an extra big feed before going on a journey. By such treatment the flow of juices in the stomach is checked, gas will arise, and flatulent colic will be the result. If the horse is required to do very strenuous work it is better to give him more food for three days before, as it will not be absorbed before that time. In the case of cows it takes five days for absorption.

KIDNEY DISEASES RARE

Enteritis, or inflamation of the bowels is another disease caused by injudicious feeding and watering. Many mistake it for a disease of the kidneys because the animal will rub its nose up and down its sides. This action is an indication that the horse is following the pain as it proceeds in the bowels. It is rare for cows and horses to have kidney diseases, for they do not, like man take stimulants, pepper, mustard, and such condiments.

If an animal must endure forced idleness it should have its rations reduced. We are not raising dairy cows and horses to eat, we should aim at growth but not fat. There is no power in the latter.

Grease, cracked heels and Monday morning disease are other ailments caused by over feeding and idleness. They generally appear after a rest on Sunday. It is better not to hurt a horse with too many oats when idle. Fourteen pounds of hay and five pounds of oats daily will sustain life in a horse, but it is not sufficient to work upon. For the average horse 14 pounds of oats, 14 pounds of hay and two to four pounds of

*An address delivered recently at the Berwick, N. S., Seed Fair.

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ground barley, beans or corn is a very good ration. Beans, peas and barley should not be given to a young animal.

More Light on Cultivation Methods

Arthur Christie, Dundas Co., Ont.

As Mr. Brethen says in Farm and Dairy for February 25th, "when men like Mr. Rennie and Mr. Fixter differ so widely in their methods of cultivation, what are we to do?" The conclusion that I have come to is that the man who gets along best is the man who adapts himself to his surroundings and makes the best use of the material he has at hand. He must also endeavor to find out for himself which is the best method, also the one which suits his soil best. There is a saying that reads "experience is one of the best teachers." As my experience I presume has been even shorter than Mr. Brethen's I would like some of the older men to take part in this discussion. This old axiom pertains more to the farming industry than to any other business. A man may attend an agricultural college for ten years and if that man has had no previous experience in farming, in nine cases out of ten he will be a failure. So let some of the older men join in this discussion.

I was raised on a farm and have worked on a farm all my life. I spent one year at the Guelph Agricultural College. I take the leading farm papers; I also get the different bulletins. I attend the stock classes and institutes. I read all the papers I take, also the bulletins and lay them saide and keep them for reference or for re-reading. I also endeavor in every way possible to improve my methods and I find there is something new to learn each succeeding year and I do not know half as much as I would like to know. I believe if I were to keep right on for 20 years more I would find there is something yet to learn in connection with the greatest industry on earth.

MR. RENNIE'S METHOD TRIED

When I left the Ontario Agricultural College I was greatly taken up with Mr. Rennie's method of farming. I decided to put it into practice on my father's farm. I accordingly fixed a piece of clay loam for roots, ribbed it up in the fall and left it until spring. In the spring I put the spring-tooth cultivator on it and tried to work it up. After going over it three or four times I became disgusted and hitched on to the plough and ploughed it. I found the centre of the ridges fully as hard as the land was before it was ploughed the previous summer. One of my neighbors who was counted the best farmer in our section, a man who had made a success of farming, became convinced that Mr. Rennie's system was the proper one to follow. He purchased a cultivator for somewhere about \$60 with ribbing attachment. He had a ten acre field on which he had grown a tremendous crop of leaming corn the previous season. The corn had been planted three feet four inches between each hill. In the spring he put the hired man cultivating in this field. After he had cultivated it three or four times he got it ready to sow. As I was anxious to find out how he was getting along I passed the farm the

A Welcome Visitor

Ed., Farm and Dairy.—We congratulate you on the get-up and the fast improvement of Farm and Dairy. We believe it to be one of the best, if not the best farmer's paper in Canada; we have come to this conclusion after reading our other weeklies and dailies. There is a regular scramble in the household to get hold of Farm and Dairy when it arrives.—Gee. H. Caughell, Elgin Co., Ont.

next day. All hands were gathering the corn roots and old stocks into piles with pitch forks and burning them. The cultivator was put into the shed and was not taken out again until it was sold at a sale.

RIBBING NOT A SUCCESS

Since I have been on a farm of my own I have purchased a sub-soil cultivator with ribbing attachment. I have tried it and my experience has been as Mr. Fixter says, the centre of the ridges are hard and lumpy, and the old corn stalks and roots clog the harrows and drill making it almost impossible to get a good seed bed. A man in my neighborhood who has a good clean gravelly loam farm borrowed my cultivator last fall to prepare his corn ground. He told me this winter it was

the poorest and dirtiest piece of grain he ever grew. I have heard men praise this system all over the country and I have seen them preparing their corn ground in the fall for a grain crop. You may judge of my surprise when passing their farms last spring to see them back with the old plow breaking up the baked soil.

In answer to Mr. Brethen I beg to say that although the greater part of Eastern Ontario is clay loam, the land in my immediate vicinity is grave?\(^1\) loam, somewhat rolling, with a few of the more level fields clay loam, with a rocky or stoney sub-soil. Hence I have had an opportunity of testing surface cultivation and of observing others test it in different soils.

ANOTHER NUT TO CRACK

With regard to cultivation I would like to ask Mr. Brethen why he "pulls his manure up to the top of the corn ground." I find when I have plowed down a crop of grass and manure that I have made a store house for conserving moisture. When the bacteria commences to work in the grass and manure it is then in a condition to store up large cuantities of water; and it cannot be improved by stirring it up. I then keep the harrows going until it is ready for the two-horse cultivator, after which I endeavor by shallow surface cultivation, to form as fine a mulch as possible, and thereby prevent evaporation. I also find that by using the broad shears on my cultivator and by keeping the weeds cut off just below the surface a few inches that it gradually weakens the plants. Were I to cultivate deeply and draw the manure to the top it would spoil my storehouse and tend to dry the ground out.

I do not claim my method is the best in every case. I morely claim it suits my conditions, for while my reighbor's corn was curled up in the leaf during the continuous drought last summer mine was always fresh and green. The difference between Mr. Brethen's method and mine can easily be seen. While shallow plowing and deep cultivation has proven the more successful with Mr. Brethen, deep plowing and shallow cultivation has proven the better in my case.

CROPS TOO HEAVY TO HARVEST

As to the increase in crops by the different methods, Dundas being a strictly dairy county, we find that our farms are increasing in fertility



The Directors and Prominent Members of the Eastern Ontario Dairymen's Association, as photographed at the Prescott_Convention, specially for Farm and Dairy

The directors of this association are elected each fall at the district dairy meetings held in the different dairy districts of Eaftern Ontario. They include members and ca-members of the House of Commons and Ontario Logislature, wardens of counties, reseves and their prominent men. For list of names see page ten.

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every year and in ordinary seasons crops grow as heavy as can be handled. In fact, were our corn crop any heavier than it was this year, our new McCormick binder would have been beaten. I have seen crops of cats that we could only cut half width with the binder, as it came on the table in such quantities that the knotter was unable to handle it.

The days of the plow are not yet over in Dundas county. After trying the systems of ... number of leading agriculturists, I use Mr. Rennie's rotation, Prof. J. B. Roberts' method re plowing, and Prof. Grisdale's method of preparing corn land. One great advantage I find in Prof. Grisdale's method is: should my new seeding winter kill I will not be left without

grass as would be the case had I plowed my sod in the fall.

I trust this discussion will not close

before others have taken part. This discussion has been most valuable to me and it should interest every farmer in Ontario and the Eastern provinces. There is nothing pertaining to the interest of the farm that benefits the framer more than such discussions in a paper like Farm and Dairy.

Particularly is this true when it is carried on in a friendly manner. I regret to say, however, that as farmers, we do not always do this. We are too often ready to light on to one another if our views are not alike, or if any other framer tries to tell us anything. We, apparently, sometimes forget that all men are not situated forget that all men are not situated alike and a method that will prove auccessful with one farmer in one locality may not answer on another farm differently situated.

Earth Roads and Their Maintenance

W. B. Rittenhouse, Beamsville, Ont.
A mistake that has heretofore been generally made in road construction is by making them too wide, thus costing too much in building and maintenance. Narrow them down to from 18 to 24 feet depending upon the amount of traffic. Besides the saving in maintenance, by contralizing the traffic, you have a firmer and consequently a better road. A road I undertook to improve a few years ago was 20 feet wide. The first season I turned two furrors with the plow on each side towards the fences, thus narrowing it about four feet. The next year I turned one mece, so that now I have a road about 24 feet wide.

Many of our roads as we find them

Many of our roads as we find them the cody have ead more or less attention from time edition to less attention from time edition from time to prading, perhaps every five, in the property and the control of the contro

A newly graded r.ad (unless special attention is given by repeated rollings, draggings, etc.) is not generally left in good condition the first year, and therefore has a tendency to force the traffic whenever possible to the sides, whereas it should be directed at once to the centre to make it firm and compact. A plan I have sometimes adopted on a newly graded road with good results, to induce the traffic to the centre, is by making a few rounds with a wide-tired wagon, after which they all fall in line. Such a road will need careful and frequent looking atter the first season. As soon as it becomes the least rutted with use, which it is certain to do with the first traffic, use the spill-log drag repeatedly whenever indications show an unnear roak surface, and you will soon

*Extract from an address delivered at the Convention of the Good Roads Association last week. have a road that is worthy of its name, and not hear of such uncomplimentary remarks that one frequently hears, of the abominable condition of the roads. My plan of operation is that when a road is once graded, it can ever after be maintained with far less expense, and a very much botter road at all times as a result, and never a general "tear up" at any

The good old adage "a stitch in time saves nine" is specially applicable time saves nine" is specially applicable to the same and if observed we have a set of the same and give us better roads. It is consistent of the same and the drag occasionally over the read from gutter to gutter, thus never allowing any grass or weeds to grow, as such would be, not only unsightly, but also prevent the judicious use of the drag, and have a tendency to check the free escape of water, and retain moisture in the soil to the injury of the road. By this method of procedure you have at all times an even, uniform road surface from gutters to centre of road, hence no water term to centre of road, hence no water term to remain on the road, with which the remain on the road, with which the remain on the rest yet one to with the same passed must with.

GET RID OF SHOULDERS

Many of our roads, are already sufficiently graded, that is they have enough drop from the centre of the road to the gutters, and yet they are in bad condition, on acount of the shoulder at the sides, which must necessarily be removed in order to put the road in proper shape. When the sod and earth is not too stiff or firm, this can be cut off with the grader, as well as the grass and weeds right down to the gutters. When it is done in that way, it will be necessary to use the disk harrow to cut up the sods after having been carried on to the road, and then by applying the roller and the split-log drag, you have it in good shape for future maintenance at a nominal cost.

a nominal cost.

Another way less expensive, and I hink preferable to accomplish the same results, is to first cut up the sods with a disk harrow and cultivator, or by shallow plowing and then cutting up the sods and moving them on to the road with the drag. One man and team will do not the road with the drag. One man and teams with the grader at such work, thus leaving the grader for to do the work on new roads being constructed, and where carth is required to be moved. When our earth roads are once got in that condition, then and not until then, can we expect to have good and cheap roads during the greater part of the year.

Dr. J. G. Rutherford, of Ottawa, Dominion Live Stock Commissioner Dominion Dominion General, who tendered target Dretter General time recently with the state of the country.

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THE EXPENSE OF CONDIMENTS

It is recognized by feeders generated in the recognized with stall feedings in necessary with stall feedings in the recognized with stall feedings and the recognized with the recognized

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Steele Briggs

THE best soil in the world and the best care in the world cannot bring a good crop if the seeds are poor.

STEELE, BRIGGS' seeds are known from one end of Canada to the other as the safest seeds grown.

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Steele, Briggs Deed G. Similar TORONTO WINNIPES

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

The Feeders' Corner

The Feeders' Corner is for the use of our subscribers. Any interested are invited to ask questions, or send items of interest. All questions will receive prompt attention.

พื่อของของของของของของของของ Criticism of Ration

Criticism of Ration

In the Jan. Elst issue of your valuable paper, Farm and Dairy, there was an article headed "Composition of Cattle Foods." As I intend to go into dairying, and and have been trying different kinds of feed, and not knowing the composition of the different feeds, this article came of the different feeds, this article came used on a mixture of food for a ration for a cow. I would like your support and advise conseruing it, as I know of no support than that given by Farm and Dairy. I hope there will appear more of such articles in Farm and Dairy, of which we have the support than I was not provided the support of the property of the control o

Your correspondent proposes as food for a dairy cow for 260 days the amounts and kinds of feed given below. It is probably intended to mix the different kinds of meal to suit the requirements of the cows.

Oats, 500 lbs. at \$1.50 a cwt.... \$7.50 Oats, 500 lbs. at \$1.50 a cwt. . 1.50 Corn, 100 lbs. at \$1.40 a cwt. . 1.40 Peas, 200 lbs. at \$1.60 a cwt. . 3.20 Wheat middlings, 500 lbs. at \$1.10 5.50 Wheat bran, 800 lbs. at 1.10 a 8.80 cwt... Cottonseed meal, 100 lbs. at \$2.00 2.00 a cwt... Linseed meal, 200 lbs. at \$1.65 a Gluten meal, 100 lbs. at \$1.60 a 3.30 ton 13 50

This would, your correspondent states furnish a daily ration as follows for 260 days:

Meal	mixtur	re									.10	lbs
Hay.				16	,			.,			73/4	lbs
Turni	silage		2		2				*	.8	14/3	lbs

Re feeds and proposed ration, I have the following remarks to offer. In the first place I would suggest that the Barley, Corn and Cottonneed meal be left out of the ration anless some very strong reason not given exist for their use. The place of the corn and barley might be taken by an equal amount of oats making 700 lbs. instead of 500 lbs. oats. The Cottonseed meal might be replaced by Gluten meal or Oil Cake meal, preferably the latter. preferably the latter.

Such small quantities as 100 lbs. of such shan quantities as 100 lbs. or anything in a mixture of 2600 lbs. is trouble some and of very little value, further cottonseed meal is usually very hard to get and often sadly adulterated.

The ration makes no mention of straw. I would suggest that half the hay be replaced by out straw. The daily ration indicates roots throughout the 260 days. I would suggest rather a more plentiful supply of roots when in heaviest flow of milk and none cr

> the most effective and cheapest liquid fer-tilizer for ALFALFA, CLOVER and all le-Enriches the soil in NITROGEN, benefits other crops, corn, wheat, vegetables, potaloes, cotton, to-

ad 20 ets, for small trial bottle and test s your home. Price \$s per acre. Vrite for particulars to

Dr. Reiche Nitragia Co. MILWAUKEE, WIS.

few when not so much milk is being duced

The ration suggested is suitable for a cow in full flow of milk, but is too heavy for one giving a small quartity. I would suggest that the meal ration I would suggest that the meal ration be fed more nearly in proportion to the milk being produced, say at the rate of about one pound meal mixture for each four pounds milk produced. At this rate 2600 lbs. meal would be sufficient for a 10,000 lbs. milk a year Such cows are scarce.

Your correspondent seems to allow for 260 days in milk. A good cow should milk at least 300 days in the year. Further, she must be fed while days for which. year. Further, she must be fed white dry for which no allowance is made. J. H. Grisdale Agriculturist, C.E.F.,

Rations for Nursing Sows

I have been much interested in J. H. Grisdale's feeding rations for cattle horses and hogs. What proportion would horse and hogs. What proportion would come how the state of the state of

Sows nursing little pigs may be expected to give best results if fed approximately as follows:

Of a meal mixture of bran 200 lbs., shorts 300 lbs., pea chop 100 lbs. Give what the sow will clean up nicely, and an equal amount or slightly more

If skim milk is available it should be mixed in with the meal. It would never be advisable to give more than eight or ten pounds a day and it should be uniformly sweet or uniformly sour. Do not over feed but be sure to give her enough.

Ration for Milking Cows

Katton for Milking Lows
Kindly make up ration for milch cove
from following feeds which are available
at following feeds which are available
at following prices: Oil cake meal. \$34.
covn. \$35. cats. \$35: nidellings, \$35.55:
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covn. \$35. cats. \$35.

roughage to mix with meal ration?—L. II.
L. West Sheford, Que.

The best and most profitable results from the above feeds might be anticipated from following approximately the following augestions.

Cut the oat straw. Pulp or cut sagar bests. Spread out a layer of sugar bests. Spread out a layer of the control of the co

the metioned feeds would be:

Oil ca							
Bran						600	lbs.
Mixed (Oats,	gra	ev an	d p	eas	as d	300	lbs.
A ge							

lbs. milk a day would be about as

	mixtu																			
Long	hay		ķ	Ļ	ŕ													,	6	lbs.
Cut h	ay	٠									ì					ĺ,	ġ	į	6	1bs.
Straw							i	į.			Û	į,			į		Q	į	10	lbs.
Sugar	beets		į		į	į		á	į		ì			9	ĺ,				20	lbs

Farm and Dairy is a clean paper. It is well filled with good, useful farm and home pointers. — Geo. Corner, Sr., York Co., Ont.

Cattle driven nearly man irritation of Lice and other parasites cannot be expected to be such MORE MILK?

LICE AND VERMIN COOPER'S FLUID

CANADIAN AYRSHIRE BREEDERS' ASSOCIATION.

WM. COOPER & NEPHEWS Toronto, Ont.

Huntingbon, Que... Jan. 27th, 1909.

Toronto, our Gentlement of the sample can of Fluid Dip as a disinfectant and find it all that you claim for it. As an insecticide 1 am of the opinion that it will be alproached be a distinct to the sample can of the opinion that it will be appreciated by our stockmen. No stockmen should be without some preparation of this kind in the stable.

Very truly yours, (Signed) W. F. STEPHEN

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Dairy Number

Out April 8th

Will be the next big magazine number of FARM AND DAIRY. Special articles will appear that are of splendid educational value. Dairying on the farm, creameries, cheese factories, exporting, cream separators and a number of other subjects equally important will be dealt with. Forms close March 30th.

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Please Take Notice



The Feed That Makes The Cream

Livingston's Oil Cake is the cheapest feed for cows—cheaper than corn, shorts or even hay. Because it actually increases the richness of cream—and also increases the amount of butter that you get out of the milk. Test your core before and after feeding Livingston's Oil Cake for a sth—and your "matter soney" will show its economy.

stain from 8 to 115 of pure Linseed Oil—are all nuts—and are completely and easily and prices if your dealer cannot supply you, ited, 31 Mill Street. Montreal.

Livingston's Dairy Oil Cake

HORTICULTURE

Making and Managing Hotbeds E. G. Cooper, Halton Co., Ont

There are two systems of making hotbeds—the pit and the surface. For the pit system a permanent place should be chosen in fall, which is sheltered on the west, north and east sides. The height of the shelter should be not less than five feet from the level of ground.

Dig out the soil to a depth of one Dig out the soil to a depth of one foot three inches, six feet wide and any length that is required. The bed should run east and west. Fill up with leaves, if possible, then cover with brush or boards to await the right time in spring.

HOW TO MAKE FRAME AND SASH

A frame five feet six inches wide should be made of one inch boards securely fastened at the corners, one securely fastened at the corners, one side of said frame to be six inches deeper than the other, the one side to be 18 inches and the other 12 inches. Supports or cross bars should be mortised in every three feet for the sashes to rest on.

The size of the sash recommended is five feet eight inches long by three feet wide. Two centre bars should be put in each at equal distance apart, and running lengthwise of sash. Use three rows of 10 x 12 glass. The side pieces should be two inches from the outside of the frame to the edge of the glass, and the inside bars one inch from glass to glass. This will inch from glass to glass. This will take up the three feet of space as follows: three rows of glass, 10 inches follows: three rows of glass, 10 incnes wide, 30 inches; two side pieces, two inches wide, four inches; two bars or centre pieces, one inch wide, two inches; this makes 36 inches, which is the width of the sash

The side pieces and centre bars should have supports tacked on or be grooved with a plane so as to support the glass. Put the glass in lengthwise, using five lights to each space, and butting them. The end pieces should be four inches from the

Hamilton,

Winnipeg, Man.

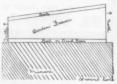
verses are rest for the glass. The rest for the official of the glass. The rest for the glass at the top should be the same as the sides and bars, but the lower one should be one-quarter of an inch thinner so that the glass can rest clear from obstruction in order that the moisture and water may run off the frame. Thus the pass will be two inches longer than the frame is wide

so that it may project over.

Sash covered with factory cotton can also be made the same size as the others. The cotton should be the others. The cotton should be given a coating of raw oil. Centre pieces or bars should be put in the sash to keep the cotton from sagging. These sashes can be used for protection from frost, and also from the severe heat of the sun later in the season

THE PIT SYSTEM

The pit system is the most econ ical as far as the material for the bed is concerned. It requires one-



Build a Hot Bed Like This

The illustration gives a general idea of the relative positions of the materials used in making a hotbed by the surface system. Read the article, and note that the frame should be banned with earth

quarter less manure than the surface Take fresh horse and cow manure in the proportions respectivemanure in the proportions respectively of two to one. Take it from the stables. Mix well, say twice, making a heap as large as is required. When putting it in the pit tramp it well and leave for a day or two, then shake well and tramp again thoroughly, esspecially in the centre.

especially in the centre.

Put on the frame with the highest side to the north and cover with the glass sash, leave it for at least two

days, then take off the sash and if the days, then take oil the sash and it me bed is good and hot put on four to six inches of very rich soil, finely pulverized, spreading it evenly over the bed. Put on the sash for a few days more, then if the soil is warm, it is ready for sowing. Level the soil with a garden rake.

The first crop may consist of let-tuce, radishes, shallot onions for green tuce, radishes, shallot onions for green use, a little cress or endive, early kinds of tomatoes, celery, beets, onions, cabbages and cauliflowers. In a shallow box three or four inches deep put two layers of an early variety of potatoes.

The time for the commencement of the first bed should be the second week in March. Sow the seeds of radish, onion, tomato, cabbage and cauliflower shallow, merely covering them, in rows two inches apart. Celery and lettuce seed should be covered only with a damp cloth. Sow shallot onions and beets one inch

THE SURFACE SYSTEM.

THE SURFACE SYSTEM.

In the surface system, the material, frames and sashes are the same as for the pit system. The manure is placed on the top of the Zyround and lead to the system the width is put on. In the pit system the width is axi feet; in the surface system it is axi feet; in the surface system it sloud be eight inches wider on both sloud be eight inches wider on both sides and both ends. After the frame sides and both ends. After the frame sides and other ends. After the stability is put on and covered with sash in both systems, it should be banked well on the outside close to the boards to keep the heat from escaping.

HAVE TWO BEDS.

After two or three weeks another bed should be prepared in the same way and with the same kind of material so that the plants from the seed bed may be transplanted. Place cabbage and cauliflower two inches apart each way, celery one inch, and lettuce and tomatoes five inches. Beets and onions can be left in the seed-bed until the open ground is ready to receive them. Transplant the beets four inches apart in rows and the onions two inches. This is done about the first of May.

done about the first of May.

When the plants in the second bed have grown to a good size, the glass can be removed and kept off during the day to harden them. At night, the glass sach or the cotton sash, or perhaps both, according to the temperature, can be put on. Cabbage, cauliflower and celery can

be transplanted to the open ground about the first of May. Tomato plants should be left in the beds, hardplants should be left in the beds, nard-ened in the day time and covered at night until all danger of frost is past. Do not water the seeds in the first bed with any force. Have a watering

can with a rose that is perforated very

can with a rose that is perforated very finely. Keep the second bed moist but do not water too heavily. After all the plants have been re-moved from the beds, cucumbers and melons, that have been raised in pots or strawberry boxes, can be trans-planted and grown there. Put the glass sash on them. Mushrooms may appear in the bed later in the season. After all use for the sashes, both glass and cotton, is over, they should be stored in a dry place, securely packed, and kept for another season.

The Cabbage Maggot

One of the worst pests of the vege-

One of the worst pests of the vegetable garden is the cabbage maggot. From experiments that have been conducted at the Agricultural Experiment Station, St. Paul, Minn., the following facts in respect to its control have been learned:

The best results wree obtained by treating cauliflower by the method given below. It is an available remedy for a limited number of cauliflower for a limited number of cauliflower and reabbage, and if the crop brings and reabbage, and if the crop brings and price whatever, it would seem that it is practicable for a large acreage of cauliflower.

bore in one quart or water for an hour, then dilute with water to make hour, then dilute with water to make one gallon of the decection. Larger quantities can be a proposed by increasing the proportions. Apply with watering pet from which the report from the report f Fields exposed to breeze suffer less

March 11, 1909.

Fields exposed to breeze suher less than sheltered fields. Fields in which the old stalks are not allowed to stand appear to be less affected than fields which are neglect-

affected than neus which are neglected in this particular.

Holland cabbage appears to be exempt from attack, no cabbage maggots being in this variety. Red cabbage, on the contrary, is not

immune, since it suffers from the at-tacks of the maggot.

Cabbage maggot flies may emerge from pupae (the hard brown resting stage following the maggot) which are buried five inches deep in the soil.

If it were not for parasites and pre-daceous enemies, which play an im-portant part in helping the gardener, this pest would be much worse than

Grass Seed for Lawns

What is the best mixture of grass seeds to seed down a late? In what proportion should they be sown?—E. A. B., Mildmay, Ont.

A good lawn mixture is made of A good tawn mixture is made or equal parts by weight of blue grass, red top and white Dutch clover. Sow at the rate of about 50 or 60 pounds an acre. All the seed firms that ad-vertise in Farm and Dairy have ready remarged lawn mixtures for sale. prepared lawn mixtures for sale

Watch the fruit trees for cocoons and eggs of tussock moth, tent cat r-pillars and other insects. Destroy all that you find. It will lessen the num-ber of insects for next year.

Many farmers who said a few years ago that spraying does not pay, are now the most enthusiastic followers of the practice

ESTABLISHED 1850

SEEDS SATISF

Regal Red Clover, \$ 7.50 Bushel Regal Alsike " \$10.50

Regal Lucerne , \$11.50 Regal Timothy , \$ 3.00

Cotton Bags, 25c. each The above brand is our best grade of Seed and complies with the conditions of the Seed Control Act

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the mai informa sickness conditio helped owls a chicken blood flesh, a The plu comes might h The n and sun

the oxy the case give no

W. D. Card, Northumberland Co., Ont. In order to have geese laying early they should be fed corn and wheat

and plenty of green feed such as cab-bage or mangles. Allow them to run out doors where they can get grass as soon as the snow is gone.

as soon as the snow is gone.

Some 'ave difficulty in getting their geese to lay before the 24th of May.

Mine always get started by the first of March for at the latest March 15th.

Those having geese that will not lay before the first of April should discard them and try some other kind.

The large grey Toulouse will be found to be good early layers when handled as recommended in the foregoing. led as recommended in the foregoing.

Managing Turkeys

Mrs. M. Ryan Peterboro Co., Ont Last year I raised 50 good turkeys

Last year I raised 50 good turkeys. I had my losses, however, and while I raised this number, I lost about 35 income the information at my disposal I ludge that the loss was due to cholera and at that time I did not know how to treat them. However, the construction of the control of the con

keys are allowed to roam around free-ly when it is dry: in wet weather they must be sheltered while young. When the turkeys are two weeks old. I feed them a mixture of ground grains composed of equal parts of bar-ley, wheat, corn and buckwheat. This is ground finely together mixed with water and fed lightly three or four times a day. In addition to this I use the herbageum or poultry food when they are young.

Anaemia in Fowls

What would be the best treatment of What would be the best treatment of fowls ailing as follows: The birds are White Rock pullets. Their plumage has become apotted with bluish and dirty gray colored feathers. Some of them have become so thin and weak that they cannot stand up to eat though they are always hungry and eat the best they can ways hungry and eat the best they can consisting of either hards. The consisting of either hards wheat or, a strong the consisting of either hards. sitting down. They are fed on a varied diet as follows: Grain in the morning, consisting of either barley, wheat or a or a mixture of oats and peas fed in little of the street of the s

condition of bowels, etc., it would have belped but from symptoms given fowls are probably suffering from Anaemia. The main symptoms of chickens suffering from anaemia are a bloodless appearance, and loss of flesh, as the disease advances, until the bird is nothing but skin and bones. The plumage losses its gloss and becomes ruffled and in a white bird might have the appearance mentioned. The main cause is lack of fresh air and sunshine. The blood does not get the oxygen required. Should this be the case here, correct the errors and give nourishing mashes, add some tonic, keep everything clean and pure,

J. S. Dumaresq, in "Industrious Hen"
Three hundred eggs a year per hen.
That is the zecord of this remarkable
breed. For the production of eggs
there is no other breed that touches
them. The Leghorns, Hamburgs,
Wyandottes, even the Rhode Island
Reds "are not in it with them." Buttercups are non-setters, and lay
practically all the time, even when
moulting. They lay large pure white
eggs. This new breed is extremely
unique, totally unlike all others.
Some of them have legs of a willowgreen color, while others have them
of a yellowish color. The comb is
their peculiar characteristic. It is
further the production of the color of the last color of the J. S. Dumaresq, in 'Industrious Hen'

flower, hence the name "Buttereup."
Plumage of the cook is a butterish red, to a red, with black main, tail and wing flight feathers, very much the color of the Rhode Island Red. weight from 5 to 7½ bls.
Hens are solid buff or somewhat spangled or laced after the manner of Golden Spangled Hamburgs. Weight of hens 4½ to 6½ lbs. They lay as well at two and three years of age as they do when pullets, and are good layers until six years old. They matter very early from three to four months, are very small boned, and have a great deal of meat as yellow as gold.
The gentleman from whom I procured my eggs writes of them as followed the summable Leghorns Buttercups' are extinually gentle and friendly. They are active and good foragers, and what

RAW

POULTRY YARD

allow plenty of fresh air and the least affected may recover in time, the ers. It does not require any more others had better be killed.—F. C. E.

Buttercups—A New Breed

I. S. Dymoses in it adultations. Hen;

with remaining the winter months of the properties of the winter months.

winter months,
"They are extremely vigorous and
hardy. The chickens feather and mature quickly, and are unsurpassed as
broilers. Unlike Leghorns and the
other egg-producing breeds, they are
as plump as a partridge and the meat
is of the very highest quality for the
table.

"They have exceedingly small a bones, and there is more meat on a 'Buttercup' than on another breech of the same weight. Although others, one count of their size, they are not recommended as roasters, but for eggs, eggs, eggs, eyery day and all the time, without the shadow of a doubt they are the best and most valuable breed on earth."

"Buttercups" were brought from the Island of Sicily by the captain of a

Island of Sicily by the captain of a vessel, who brought a cargo of oranges, raisins, and figs to this

When ready to sail he bought a coop of fowls that he might have fresh meat on the voyage home, but they meat on the voyage home, but they laid so many eggs he concluded to bring them all home instead of eating them, feeding them as well as he could during the voyage.

I have a pullet hatched May lat, that laid August 15th, 3 months and home the could be shown by a could the country of the country there.

15 days, showing how early they

nature.

I have given up Wyandottes so that
there will be no chance for a mixture
in breeds, and I am able to give the
Buttercups more freedom than form-

Renew Your Subscription Now.

Hatch Chickens by Steam Stahl "Wood-GEO. H. STAHL, BOX 32F QUINCY, FLL.

242 EGG STRAIN (Kulp) Brown Leghorns from the biggest birds and biggest layers of big eggs (np to 32 oz. per doz.) Best business breed in America. Hardy, hand-some and profitable: lay earliest and longest. Book orders early for guaranteed fertile eggs at \$2.00 per 15. Circulars free.

BRANT POULTRY YARDS, Brantford, Ont.

Any hens showing signs of unhealthiness or lack of constitution would be better out of the way. Be sure they are free from lice and the house free from mitter

Renew Your Subscription Now.

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD

THIS DEPARTMENT is one of the most valuable in the Paper. At a cost of only Two cents a word, you can advertise anything you wish to buy or sell, or situations wanted or

racant. THE ADDRESS must be counted as part of the advertisment, and each initial or a number counts as one word. Minimum cost 26 cents each insertion. When replies are to be sent to a box at our Office, 10 cents extra is charged to pay plottage on replies to be sent to advertisers Cash must accompany each order.

Assi must accompany each order.

CPPY must be received at our Toronto office,
2 Queen St. W., by Thursday to guarantee
section in issue of the following week.

NO BLACK-FACED TYPE or display of
ay kind will be allowed under this head, thus
baking a small advertisement as noticeable as
large one.

GGS.—High-class Rose Comb Brown and Single Comb White Leghorns; \$1.50 per 13.—J. H. Rutherford, Caledon East, Ont. ROUEN DUCK EGGS at \$1 for six, or \$2 for 13. These ducks are bred from imported eggs.—J. H. Rutherford, Caledon East, Ont.

NINETY-FOUR PER CENT. of our readers keep poultry. Get rid of that surplus stock by placing an advertisement in this column.

WHITE WYANDOTTES.—Eggs, Pullets and Cockerels for sale from the noted win-ning strain of H. Lush. Will make win-ners.—Robert Maitland, Fowlers Corners, Ont.

FARMERS ARE NOW BUYING settings of eggs in large quantities. If you have any, place an advertisement in this column, and see how fast you sell them.

and Write for Weekly Price List JOHN HALLAM TORONTO, ONT.

MONARCH Stiff-Stay Fence

The Fence With No HIDDEN Weaknesses

Why do you see so many broken fence wires? Nine times out of ten they are the result of hidden weak-they are the result of hidden weak-they are the result of hidden weak-they are the result of inferior grades of wire-undily kinked laterals-severely applied mean locks driven directly over the place where stay and strand wires cross. This tremendous direct preserves. This tremendous direct preserves. This tremendous direct preserves, the stay of the place where stay and strand wires the lock and is sufficient to make the work of the stay of t



Now, in the Monarch, the lock is applied diagonally with the strand, which means there is no pressure applied at the crossing. And the ends of lock are neatly hooked over the strand wires. Thus the Monarch lock is prevented from spreading or loosening. And the fence is made of best grade No. 9 Hard Coiled Wire. Also, there is no undue kinking of laterals.

No hidden weaknesses in the Monarch fence. It will stand the most severe tests of weather, animal or man. Catalogue free, if you'll ask for it.

THE DILLON Hinge-Stay Fence

It's impossible to bend the stays on the Dilion. They are hinged to the strand wires. They give or swing under pressure and spring back to original unrightness when pressure is removed. The hinges cannot silp along the laterals, which is a supersymmetric product of the strand wires amply provides for contraction and the strand wires and the strand wires amply the strand wires are strand to the strand wires and the strand wires are strand wires. The strand wires are strand wires and the strand wires are strand wires and the strand wires are strand wires. The strand wires are strand wires and the strand wires are strand wires and the strand wires are strand wires and the strand wires are strand wires. The strand wires are strand wires and the strand wires are strand wires are strand wires are strand wires are str

The Owen Sound Wire Fence Co., Ltd. Owen Sound, Ont.

More Agents Required

Energetic men will find our line of fencing and gates the best-selling on the market. No other agents have two such superior and different fences as the Monarch and Dillon. In comparison with other agents our representatives have double'd chances of securing an order of the such as the second of the second securing an order of the second securing second securing second securing second securing second securing second second

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

************** FARM MANAGEMENT ***************

To Register Pure Bred Cattle

To whom must I apply to have a p bred Shorthorn calf registered?—D. S., Bruce Co., Ont.

Apply to the Accountant, National Apply to the Accountant, National Live Stock Records, Ottawa., for appli-cation forms for the registering of Shorthorn cattle. The forms must be filled in and properly signed by the breeder and returned to the account-ant with the necessary fees, sent by "National Conference of the Account-tant with the necessary fees, sent by "National Conference of the Account-tant with the necessary fees, sent by express money order, or registered let-ter. The dam must be transferred to the owner from each succeeding owner and the signature of the owner of service sire must be provided. The rules of the Dominion Shorthorn Breeders' Association appear on the back of the application forms, also the fees.

Is It a Case of Fraud?

Is it a Case of Fraud?
Did you ever hear of a pure bred Holstein being red and white? I purchased a pure bred registered built from a well to grade own the whole the heart of the work of

A case such as that described by A case such as that described by your correspondent has never come under my personal observation. I believe however, that it would be possible for a pure bred Holstein bull to get red and white calves, and I would not say that the bull in question is not a pure-head on this count alone. is not a pure-bred on this count alone. In Holland, I believe that red and white animals of this breed are not known, and that there are pure bred herds which are selected for red and white color to the color for the color to bred nerds which are selected for red size as follows:
and white color to the exclusion of black and white. But while the ealf 30 yds. gravel at 50c yard... \$15.00 may be pure bred, it cannot be re- 30 bbls. cement at \$1.80...... 54.00

1000

corded in either the Canadian or American herd book, because both these as ociations require that an animal must be black and white in order to be eligible for registration.

order to be eligible for registration.

This rule 1300 excludes animals which are all white or all black, so that the red and white calf will be on the same basis as those which are black or all white, so iar as registration is concerned, though there is no question as to the purity of blood in the case of all white or all black animals.—G. E. Day, O.A.C., Guelph.

Queries Re Cement Silo

How much gravel and cement will be required for a silo 12 x 30 feet? What kind be the probable cost of x and what would be the probable cost of x and what would it be necessary to tie the well that was under ground? We propose to set it in several feet of an embankment.—J. S., Halton Co., Ont.

Hatton Co., Out.

A sile of this size will take 30 yards of gravel and 30 barrels of cement at a cravel and 30 barrels of cement at a cravel used is that from the size of pen's eggs down to sand. The coarser the gravel the better, as long as there is sufficient sand to fill all the voids between the gravel. If your correspondent cannot get coarse travel and must use fine material he gravel and must use fine material he can save cement by securing a few large boulders. Seven or eight yards

large boulders. Seven or eight yards of boulders up to six inches in Iiameter can be used by simply dumping them into the concrete as the curbs are being filled. For each yard of boulders used it will save him about three-quarters of a barrel of cement. In regard to cost of building we might state that eement can be purchased in car lots at \$1.50 a barrel, or can be purchased retail at \$1.80. If one decides to operate his own curbs and build his own silo he can save a considerable amount on labor. Three men will erect this silo in seven days men will erect this silo in seven days operating a set of silo curbs. We figure the actual cost of a silo of that

3 men 7 days, 21 days labor at \$1.50..... 31.50

Actual cost of silo to contractor\$100.50 Actual cost of mo to contractors/100.00 A contractor erecting his silo usually gets about \$240.00. In regard to theing the silo below ground, we might state this is not necessary. The first is-inforcing is usually placed about 18 inches above ground level.—London Concrete Machinery Co., H. Pocock, Manager.

Getting Rid of Wire Worms What can I do to prevent yellow wire orms from destroying my oat crop?—M., Glengarry Co., Ont.

impossible to get at them with any impossible to get at them with any sort of poison. Salt has sometimes been recommended but it would take such a large quantity that sufficient to kill the worms would destroy any vegetation. Clean cultivation and short rotation of crops are the best means of keeping under control both Wireworms and White Grubs.—Charles J. Bethune, Entomologist O.A.C.,

Officers Eastern Dairymens Associations

Getting Rid of Wire Worms
What can I do to prevent yellow wire
worms from destroying my oat crop?—M.
M. diengary Go., Ont.
These are the grubs of long, narrow
destless which have the habit of springand members of the Eastern Ontario
Dairymen's Association, as they
come the limit of the come of the come of the come of the come
are called Click Bender and the come of the come

TELEPHONE



Why is this? Because the Independent telephones are up-to-date and high-class in material and workmanship. It never pays to buy cheap goods, and in the case of a telephone this is especially true. The best is what you want, and that is why so many companies have changed from the makes they had been using to the CANADIAN INDEPENDENT TELEPHONE, and are now buying nothing else.

INFORMATION FREE

If you have no local telephone service, write us and learn the way many others have built up and now own and successfully op ate their own systems. There has been a remarkable growth in rural telephone companies in tanada during the past year and the indications are that there will be a still larger increase during the present year.

The business and social advantages gained to rural communities with their own telephone system should command your earnest consideration, if you are not already enjoying the privileges

Municipalities, companies or individuals interested should write us and our engineers will supply full information. Estimates of cost of construction gladly furnished without charge.

PRICES ARE RIGHT

We are manufacturing telephones in Canada and with all our equipment you have the positive guarantee of a Canadian com-

We can also supply every-thing in line and construction

materials at reasonable prices.

Best quality and prompt shipment are making our business a success

NADIAN INDEPENDENT TELEPHONE CO., Limited, 26 Duncan Street TORONTO

Ive An mach to les probs const carrie is bro horse a lar the w farm crude neat to-day and p

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out each field switch at cost us however, afterware Smith of year ago now mak idera think ser capacity

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One of The Labor Savers

Ivan M. Law, Durham Co., Ont. Among the great labor-saving machines now placed upon the market to lessen the heavy labor of the farm probably none are so much and constantly used as a good corrier. Several times every day it is brought into use in cleaning out the horse stable, here and nig ness, On great labor-saving Among the is brought into use in cleaning out the horse stable, byre and pig pens. On a large farm without a litter carrier the work is slow and heavy. The carrier shown in the illustration

the work is slow and heavy.

The cerrier shown in the illustration on this page has been in use upon our farm for six or seven gard. It is a crude production compared with the neat malleable and steel arrier of to-day, but it was built for fard work and plenty of it. It has a lard work and plenty of it. It has a lard work and plenty of it. It has a lard work and plenty of it. It has a lard work in the state of the sta

from our cows at a load, as some makers claim, with cars having a box of far less capacity. We use considerable straw in bedding and thus have three carrier loads and one team load of manure from 15 cows, steers and

Horse News from New Brunswick

Taking advantage of the clearance taking advantage or the clearance sales being made by the breeders of thoroughbred horses in Kentucky last November, due to the anti-gambling laws which deprived these breeders of a weaker translation. laws which deprived these breeders of a market upon the Race Track, the Government of New Brunswick sent an agent to these sales to see if any horses suitable for the improv-ment of the driving horses of the Province could be secured. Mr. Peter Clynch of St. John, N.B., the well-known horseway whe in the

the well-known horseman, who, in the past has been a judge at the Montreal, past has been a judge at the atomrest, Boston and New York shows, was the gentleman sent. He has secured at very low prices three stallions and 17 mares of good size and splendid bone and conformation. Before these horses, could be abined from Kentucky quarcould be shipped from Kentucky quar-antine regulations on account of the foot and mouth disease in the various foot and mouth disease in the various States was enacted, and it was not until some three weeks ago that the purchase could be moved. The con-signment arrived in good condition and on the 24th inst. were sold by public auction in the city of St. John.

A NOTED SIRE

A NOTED SIRE

Among others the purchase of the
stallion, "Water Light," by George
W. Fowler , Sussex, N.B., for \$900
is worthy of note.

He is a splendid specimen of the English Thoroughbred; he is six years

gone to Debec, Carleton County where he will no doubt continue his good

Two Scotch bred Clydesdale Mares four and five years old, imported two years ago by the Government of New Brunswick from Scotland were resold on account of the failure of the purchaser to pay for them. One, Miss Bothwell, bred by William Bothwell, Berry Hill, Bridge of Don, Scotland, went to J. Sutton Clarke, St. George, N. B., the purchase pricebeing \$900. The other Jeannie Wallec, bred by James A. Wallace, Clayerop, Kirkinnar, Scotland, went to Nat. McNair, River Louison, Restiguench County, for \$275. Two Scotch bred Clydesdale Mares

Nat. McNair, River Louison, Resti-gouche County, for \$275. H. C. Jewett, the well-known horse-man of Fredericton, N. B., sold his splendid standard bred Stallion "Dan Gilbert," to William Alexander, St. John, for \$900.

Much interest is being taken by the horsemen of New Brunswick in breeding operations this year, and it is likely at their request legislation for the inspection and licensing of Stallions will be passed at the coming Session of the Legislature.

Appreciates Farm and Dairy

That Senator W. C. Edwards, of Russell Co., Ont., appreciates Farm and Dairy, was shown recently, when he sent us \$9 and asked us to send Farm and Dairy to his added to the send farm of the control of the control of the control different post offices in Ontario and Quebec.

Quebee.

The Senator is the owner and proprietor of a large lumbering concern, with offices at nine different post offices, all of which he wished supplied with copies of Farm and Dairy regularly throughout the year. We wish there were more men like Mr. Education.

DAIN HAY LOADER

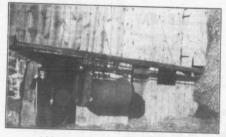


The Dain Hay Loader being a raker bar loader, will meet all the raker bar loader, will meet all the hear that had been seen to be the property of the hear that had been did not be condition. It is a Rake as well be conditions. It is a Rake as well be conder, as the hay can be taken been did not be taken to be taken t

Ask your agent about it, or write us for special information

PRESTON, ONTARIO

A CREAMERY FOR SALE SHOULD BE ADVERTISED IN OUR FOR SALE COL-



A Labor Saver that has become Popular in Recent Years

The litter carrier has done much to lighten the labor of the stockmen. Wherever it has been installed it has made friends. The illustration was taken on the farm of Mr. Ivan Law, Durham Co., Ont. Read the adjoining article.

ing stock and four calves each day. This with the litter from three horses and 20 or more pigs makes nine load of manure a week. We aim to draw i each week and spread it upon the

field.

The carrier complete with one switch and two hundred feet of track cost us less than \$50. The arrier however, advanced in price shared afterward. It was made by Lyman C. Smith of Oshawa, Ontario. About a year ago he sold his patents to Wartman & Ward of London, Ontario, who now make the carriers. Farmers with considerable manure to handle should think seriously of purchasing a large. think seriously of purchasing a large capacity litter carrier.

Get acquainted with

Black Watch

the big black plug

chewing tobacco. A

tremendous favorite

everywhere, because of

its richness and pleasing

old, his Sire, Water Cress, was the biggest Thoroughbred in the world, weighing 1500 pounds. He was so weighing 1500 pounds. He was so successful as a Sire that many of his yearling colts brought \$10,000 apiece at auction. "Water Light," himself sold at auction at that age for \$2,500 and his purchase at that sold at auction at that age for \$2,500 and his purchase at the present time for \$900.00 is a happy thing for the horse stock of New Brunswick.

Nearly all the marso offered, some of them imported animals, were by sated Sires and as they have been

noted Sires, and as they have been moted Sires, and as they have been well scattered through the Province, and are in good hands, we may ex-pect in future years to see grand re-sults in the quality and endurance of the driving horses bred where their blood will be disseminated.

blood will be disseminated.

The Sale was largely attended, and although the prices realized were not high they more than covered the first cost and all expenses of the importation, being the first instance in the history of Government importations, where the Province of New Brunswick has made, a direct world out of the second of the se has made a direct profit out of the transaction

OTHER HORSES SOLD

At the same time and place the Sussex and Studholm Agricultural Society sold their Thoroughbred Stal-lion, "Dracula," an imported horse lion, "Dracula," an imported horse weighing 1200 pounds, which has done good service for the last six years in Kings County. He realized \$350. Six years ago he cost \$1500. He has

"Success" Light Roller Bearing Manure Spreader

for 1909 is greatly improved

Just go to the Paris Pl Agent in your locality and examine the New 1909 Success" Manure Spr er. You'll have no doubts about which machine to purchase after y en it and noted the improve

The drawing below illustrates the New Gear Case enclosing the Apron Driving Mechanism. The case is cut away so that you can see the We and Gear, which run in oil. This case not only prevents all "leakage-

waste" 0.8 oil but is dusttight, too. This oil-tight, dust-proof case around Worm and ear makes the apron

driving mechanism of the "Success" the smooth est and easiest-running, lightest-draft on any manure spreader. And as the Worm and Gear are so fully protected against wear they are rendered prac cally indestructible.

But just see the "Success," and note all its su perior features. That's the right thing to do before making your choice of a mai

THE PARIS PLOW CO. LIMITED.

PARIS

The bottom drawing st Roller Bearing at end of Beater shaft There is also another Roller Bearing at other end of Beater Shaft. These two bearings make the "Success" Beater a marvel for smooth and easy running—and materially decrease the draft. There are materiany decrease the draft. There are three other sets of Roller Bearings on New 1809 "Success." (Any Paris Plow Agent will show them to you). Their use lessens the draft of "Success" by at least one

The large Black Teeth shown on ends of Beater are the Harpoon Teeth. These Harpoon Teeth cut up the long pieces of straw that would otherwise wind around the end of the beater and clog it up. And this is just another draft-decrea spreader but the



ONTARIO ntern Agents; The John Deere Plow Co., Ltd., Winnipeg. Regina; Calgary and Edmontats for Quebec and Maritime Provinces: Prost & Wood Co., Ltd., Montreal, Quebec, St.John, N. s desirable to mention the name of this publication wass writing to adverting 12 200

Pipe Sections Welded Together

WINNIPEG,

Testing Better than Showing

I clearing Better than Showing

"I have done a lot of exhibiting at the leading fall shows in the past."

In the leading fall shows in the past."

It is for that assen that I believe that said Mr. G. A. Gilroy, the well-known Holstein breeders of the said fall shows in the past."

It is for that assen that I believe that said Mr. G. A. Gilroy, the well-known Holstein breeders of the said fall that have a had to have won a good many prizes at exhibitions before the call when the said have about concluded that in tuture it will pay me better to put my cows in the official tests. At a public said of some of my stock, I sold a calf, from a cow that had produced 26 lbs. of but cow that had produced 26 lbs. of but the said fall of the animals or of their ancestors. It is for that assen that I believe that said Mr. G. A. Gilroy, the well-known had been as good many prizes at exhibitions before the calf when the special to the spend money putting their beginning to look for the milk records of the cattle they will have sold for such a side of the animals or of their ancestors. It is for that assen that I believe that shows that I believe that shows the records of the animals or of their ancestors. It is for that assen that I believe that shows the records of the animals or of their ancestors. It is for that assen that I believe that shows the records of the animals or of their ancestors. It is for that assen that I believe that shows that I believe that show

make them more popular.

ROST Gates have the distinction of being the first made from steel tubing, and naturally

their sale has been heavy. Of course they have been widely imitated, but that has only served to

Not being content with having "Frost" Gates imitated we have installed a modern galvanizing plant for coating the frames of all plain and fancy gates. Thus we are able to give them a more permanent and substantial finish than their imitations. The pipe is first put through a pickling process which removes all dirting the process and scale, so that the galvanizing not only spreads all over the surface of the metal, but goes into it, filling up the pores and giving an even, smooth and exceptionally durable coating.

Putthermore, "Proces" Gates how the distinction of the second of the coating.

Furthermore, "Frost" (Jates have the distinction of being the first in which the frame is not weakened by having the first in which the pipe in order to join it to the coupling. Not have in the pipe in order to join it to the coupling to the pipe sections are WELDED together, making the part that was heretofore the weakest now the thickest and heaviest. And by wedling, the tubing is the thickest and heaviest. And by wedling the training the tubing is the pipe sections are the proposed to the pipe sections are the pipe sections.

couplings.

No extra charge is made for this wonderful welded-improvement or for the more handsome and permanent finish—another reason why you should buy "Frost" quality in preference to other goods couting the same.

"The production of the same of supplying "Frost" Gates and building "Frost" Fonces. It will pay you to get acquainted with him. If he is not known to you, write us.

ter in a week, for \$190. That calf would never have been sold for such a price had it not been for the big but-ter record of its dam. This dam would have had to have won a good many prizes at exhibitions before the calf would have sold for anything like that wind.

That calf invariably asked for the milk records

DON'T BUY GASOLINE ENGINES ... UNTIL YOU INVESTIGATE ... THE MASTER THE MASTE

OLD WAY

Pipe Sections

Threaded into

Coupling.

FROST WIRE FENCE CO., LTD., HAMILTON, ONT.

MANITOBA FROST WIRE FENCE CO., LIMITED.

hibition. People see them there and hibition. People see them there and talk about them and thus the breed is benefited. On the other hand, show-ing cattle at an exhibition does not benefit them. They do not do as well afterwards.

afterwards.

After returning from exhibiting at the Dominion Exhibition at Halifax I found it almost impossible to get the cows back to proper milk production.

Our Veterinary Adviser

MANGE.—My calves have mange. Please advise treatment.—G. E. H., Lennox and Addington Co., Ont.

Addington Co. Ont.

If you are correct in your diagnosis it is your duty to notify the Department of Agriculture, Ottawa, and your nearest Government Inspector. In fact you are liable to a heavy fine for not doing so. The inspector will take charge of the cases and quarantine your premises. Mange is a highly contagious disease and requires prompt measures. If your calves are prompt measures. If your calves are

in water will soon effect a cure.

UTERINE DISCHARGE—Cov was bred in June last, and supposing she was in calf, we dried her some time ago. She is not showing symptoms of approaching symptoms of approaching symptoms of approaching symptoms. She passes more discharged in the symptom of the state of the symptom of the symp

highly contagious disease and requires prompt measures. If your calves are simply suffering from eczema or other simple skin disease washing twice weekly with a warm five per cent sol-ution of Zenoleum or Cooper's Fluid in water will soon effect a curs.

Frost Gates A \$5,000 DAN PATCH STALLION FREE

This New Picture of DAN PATCH 1:55 in Six Brilliant Colors MAILED FREE TO



This new picture of Dan Patch 1356, is the Pineast I have ever gotten out for framing. It is printed in als brilliant colors and is free of advertising. It gives his age and a line of all the and if you should be the most from a "Spead Photograph"; it shows Dan as idle the solid you should be the printed the printed by the printed the solid printed the printed the solid printed to the printed the pr

A \$5,000 DAN PATCH STALLION FREE

An Abrolledy Free Rair Counting Contest Without Money or Purchase Gonsideration Author Press Rair Counting Contest Without Money or Purchase Gonsideration Author Press Rair Counting Contest Without Money or Purchase Gonsideration Author Press Rair Counting Countin

Post Office..... Province.....

Our Legal Adviser

RIGHT TO OUTLET.—A has a hollow should two feet deep and 20 feet wide and 20 reds long, situated by a line fence. The should be should b

have an outlet?—Wellwisher.

"B" must submit to the water flowing on to his land from A, from natural causes; but A has no right by artificial means to cause the water to flow on to B's land without B's permission.

Protection for Farmers

Few farmers realize the great necessity for protection against accidents, which are so liable to happen on the farm. Different forms of machinery and the many new labor-saving

on the tarm. Directors forms or measure incry and the many new labor-saving devices now in general use all tend to haste in work, and a consequent increasing probability of accidents. Why not take advantage of our free offer and secure for yourself an up-to-date accident policy to the amount of \$1,000 for one year. This policy is absolutely free, on the one condition that you send us one new yearly subscription to Farm and Dairy, at \$1. Read our advantage ment in this issue for fuller particulars; then secure a neighbour's sub-scription, which remember, must be a NEW one, and thus secure for yourself the accident policy for \$1,000 for a year.

1.W. R From

Mar

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s now years a cropped hay sol live sto farm cr received of selling A pure-beef bre duction

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Why We Introduced Holsteins at Riverside

J.W. Richardson, Haldin and Co., Ont

About this time we started to weigh and test each cow's milk, at least once a week. We found that a number of cows were making good returns, others were kept at a loss. This was a serious state of affairs, as in the meantime more land had been purchased, and a mortgage now stood sagainst the farm. For several years a sactions the farm. For several years we were foolish in going into Holtstein of each 12 months it was a surprise to many, who thought sagainst the farm. For several years we were foolish in going into Holtstein on the standard of our pure-brods, and complete the several years with the several years. Under these conditions on investments. Under these conditions on investments. Under these conditions of the business had been paying rose decided to place a dary sire where decided to place a dary sire the head of our herd. We found that we must specialize in our business. We long and which had continued so long and the second so long and so long and the second so long About this time we started to weigh

part of our farming operations.

We selected the Holstein, because she was the largest of the dairy to the selected strong in the selected one of the selected one of the selected one of the best pure-bred Holstein sires that we could purchase, and began and the selected one of the best pure-bred Holstein sires that we could purchase, and began crossing with our beef and dairy cows. The returns from this cross were very marked. As soon as we were able, The returns from this cross were very marked. As soon as we were able, we made a selection of pure-bred females from several of the most noted herds in Canada and the United States. About this time we had a sale of 12 head of grade Holsteins, that in the season had produced from 8,000 to 10,000 lbs. of milk. At this

Good Advertising Medium

We appreciate the value of Farm and Dairy as an advertising medium. It is a clean, bright interesting paper and should be in the hands of every dairyman—The Steel Trough Machine Co., Limited, Tweed.

Nova Scotia Seed Fair

The fourth annual Seed Fair at Berwick on February 24, 1909, was a great success. In spite of the storm the afternoon meeting was crowded with men and women. In the evening the storm became very violent, and, notwithstanding that the hall gently swayed with the wind, and creaked with every fresh rust, like a ship of which were with every fresh rust, like a ship of which were fresh rust.

gently swayed with the wind, and creaked with every fresh gust, like a ship in distress, while several big trees were snapped off in the neighbour-hood, a splendid and enthusiastic gathering again assembled to hear Dr. Standish lecture on horses. Owing to the fury of the gale Messrs. W. H. Woodworth and L. D. Robinson did not address the meetings.

The Seed Branch of the Dominion Department of Agriculture provided the judges and lecturers for the fair, while the Provincial Department of Agriculture at Halifax furnished the money for the prizes.

Agriculture at Halifax furnished the money for the prizes.

Mr. S. J. Moore, while judging the beams, asid that they were the beat samples he had ever seen, and that samples he had ever seen, and that one worst of the oats on exhibition were better than he could buy in the worst. The competition in buckwheat was very ken, chiefly in the common was very ken, chiefly in the common variety. There was a small but excellent exhibit of sweet and yellow corn, also onions, but no one entered peas.

corn, also onions, but no one entered peas.

The apple show was somewhat smaller than last year, but was of excellent quality, while there were about 70 entries of potatoes.

Mr. Moore briefly addressed the meeting before taking the train to attend another seed fair. Dr. Standish succeeded him and occupied the platform until the closing. The doctor spoke about horses and cattle in general, their management, diseases and modes of treatment. His address and modes of treatment. His address appears elsewhere in this issue.—Eunice Watts.

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The reason so many country fires result in a total loss to farmers' buildings and stock is because assistance cannot be quickly secured.

Eighty per cent of the fires that occur could be checked if aid were promptly summoned.

This is just one of the many instances where the value of a telephone is of vital importance to the farmer.

It's true that you may never have had a fire, but how do you know that you are not likely to have one at any time?

Don't wait until a fire actually occurs and your buildings are destroyed before installing a telephone.

Have it installed now and be prepared to cope with a fire or other emergency. It's in serious cases of this kind that a telephone must act and act without loss of time. Above all things it must be reliable-it must give and receive the

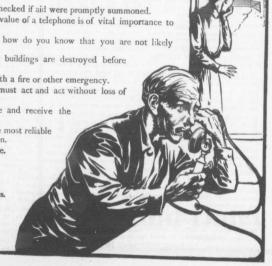
messages sent promptly and distinctly. Let us send you particulars of cost of installing the most reliable telephone made—one that can always be depended upon.

You can build and operate your own telephone line.

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FARM AND DAIRY

AND RURAL HOME

Published by The Rural Publishing Comof Philip

FARM AND DAIRY is published every Thursday. It is the official organ of the British Columbia, Manitoba, Eastern and Western Ontario, and Bedford District Chebec Dairymen's Associations, and of Chebec Dairymen's Associations, and Jer-sey Cattle Description of the Columbia Frederick Associations.

cy Cattle Breeders' Associations.

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the banks.

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CIRCULATION STATEMENT CIRCULATION STATEMENT paid-in-advance subscriptions to and Dairy exceed 8,000. The actual tion of each issue, including copies paper sent subscribers who are but in arrears, and sample copies,

creminate of each issue, including copies circulation of each issue, including copies circulation of each issue, including copies, and as a control of the copies of the c cation of their advertisements Should the circumstance warrant, we will expose circumstance warrant we will expose circumstance warrant we will expose the continuous control of the paper. Thus we can be control of the control of th

FARM AND DAIRY PETERBORO, ONT.

TORONTO OFFICE: Room 306 Manning Chambers, 72 Queen St., West, Toronto.

REGULATE SALE OF FEEDING STUFFS

A wide variation exists in the com position of feed stuffs sold in Ontario under the same name. From Bulletin No. 138, of the Ontario Agricultural College, we find that in the case of pea bran the amount of protein ette oats on light, weak soil, or the varies from a little over seven to Black Tartarian oats on a rich botsomething over 15 per cent. In tom land. It would be equally ungluten substances, such as gluten wise to grow White Wonder peas on a meals, the amount of protein varies weak soil, or the Prussian Blue varifrom 15 to over 34 per cent. It has ety on land that produces a large also been shown that there is a wide amount of straw. Longfellow corn variation in the composition of the would give much better results in various materials sold as mill by Northern Ontario and the Learning products, also that the proteids in variety in southern Ontario than if some samples of bran are so low that this order were reversed. Scores of we must consider them adulterated.

some millers are adulterating bran. different varieties of grain crops in This practice, in fact, is becoming length of straw, strength of straw, common of late, and to so great an and quality of grain, as well as in have refused to use this product, not- spects.

withstanding its value when unadulterated.

With mill products, other than bran. the names under which they are sold mean but little to the buyer. The product of different mills varies so much in composition that its name does not signify as much to the purchasers as it should. These foods should be sold subject to a guarantee. The Dominion Government at Ottawa should enact a law somewhat similar to those in operation in a number of the States of the American Union. In some of the States, the law demands that the miller have placed on the bag the number of pounds of substances contained in the bag, the maximum amounts of proteids and fat, and the minimum amounts of crude fibre, and also a statement of the grains from which the food is prepared. Such a statement would give the farmer a definite idea of the value of the food stuffs he purchased.

A deputation appointed by the Ontario Agricultural and Experimental Union, is shortly to wait on the Hon. Sydney Fisher, Dominion Minister of Agriculture, with a view of having such a law enacted. We can assure the Dominion Government that in the light of recent investigations and analyses made of commercial feeding stuffs, that the best interests of our farmers are concerned in this matter, and it is imperative that a law regulating the sale of these products be enacted.

INFLUENCE OF VARIETY ON PRODUCTION

There is a great difference in the yield of different varieties. As some breeds of live stock have been bred for many years to fill certain purposes, so have certain varieties of farm crops been raised for long periods of time with different objects in view. Some varieties are well adapted to rich, loamy soils, others to heavy clay soil, and still others to soil of a light character. The selection of crops to be grown must necessarily be governed to a considerable extent by the locality of the farm. The climate, the soil, and the particular kind of farming that is to be followed, and the use to which the resulting crop is to be put, as well as many other things, must be considered when making the selection of crops most likely to give the best general results.

It would be unwise to grow Joansimilar instances may be enumerat-Evidence is not lacking to show that ed. Great differences exist between

Varieties tested at Ottawa or at Guelph may not do equally as well price received for creamery butter, when subjected to the peculiar conditions of a particular farm. Ontario for their enterprise. farmers can, however, profit much from the experiments carried on over Ontario, under the direction of the Experimental Union. The results of these experiments are available to all who apply for them. A farmer who looks carefully after his own interests will give a considerable amount of attention and study to this question, and make sure that he is growing a variety best suited to his land, and to the purpose for which it is grown.

KNOW WHAT YOU ARE KEEPING

It is difficult to understand why it is that in spite of the information available as to the great value of systemically testing cows, cow owners continue to think that it is the other fellow that has poor cows. Too true it is, but are you sure that your herd would not be benefitted, and your returns increased, by systematic testing? The number of cows one keeps is no indication of his income, though they do tell us in a measure the size of his expense bill for feed and labor. Our dairymen have not given this matter due consideration.

It is much better to have ten cows. each yielding 6,000 pounds of milk annually, than to have 50 cows which yield only 3,000 pounds annually. which latter is the yield of the average Ontario cow. The soundness of this statement is not apparent on the surface. Figure a little on interest of investment, and cost of extra care and interest of investment of extra farm land necessary to keep the extra 50 cows. You will then become convinced of the truth of this argument. The profit must come from the margin at the top.

If ten 6,000-pound cows are to be preferred to fifty 3,000-pound cows, surely it is high time we knew which class we are keeping. Granted that we already know what our own are doing, we are not doing our duty if we do not organize a cow testing association for the benefit of that neighbor, who perhaps is not blessed with as much light or as much information as we, but who can just as well feed good cows as poor ones, did he know the difference. It is a simple matter to organize a cow testing association. The Dairy Commissioner at Ottawa will be glad to supply record blanks for yields of milk, and to assist in organizing cow testing associations. With the advent of spring, cows will be freshening. If you have not already done so, organize an association in your community now. It will prove a lasting benefit to all who are privileged to be connected with it.

ILLEGITIMATE TRADE IN BUTTER

It is stated that there are concerns in some of our larger cities that regularly buy quantities of tub butter, and by means of a skilful process of reno-By means of this practice, they are followed, Mr. Caldwell received injur-

enabled to take advantage of the extra thus allowing them a good margin

This business should be suppressed. To allow such an industry to thrive here in Canada, is not fair to our creamery men, nor to the consumers. who in buying creamery butter justly suppose that they are getting a first class legitimate article, manufactured in an honest way in a creamery. The Dominion Dairy Division should deal with this matter without delay.

FAVOR AUTOMOBILE LEGISLATION

In the February 25th issue of Farm and Dairy, we offered to print a petition form asking the Ontario Legislature to pass some stringent form of legislation, which will effectually protect farmers from reckless parties who race their automobiles on the country roads without regard to the rights or convenience of others. This petition was to be printed on condition that at least 20 of our readers will write us that they will undertake to circulate the petition. As yet we have failed to receive the number of replies asked for. Can this mean that our Ontario farmers have no interest in this matter? Are they content to allow autos to drive them and their women folk from the roads, as they have done for some time past?

Some of our readers have come out strongly in favor of petitioning the Legislature for legislation stringent enough to regulate the automobile nuisance. Here are a few extracts from their letters:

Mr. F. Birdsall, Peterboro Co., writes: "Farmers should have at least two days in the week that any member of their families can drive on the roads without risk of being hurt or killed. As it is now, my wife, who used to be very fond of driving, will not venture on the roads in the summertime, for fear of meeting an automobile. We have built most of the roads, and it is not right that we should be driven off them. Send me a petition, and I will get you many signatures."

Mr. J. W. Robbins, Prince Edward Co., writes: "If you send me a copy of your petition concerning automobiles, I wil see what can be done in this locality towards securing signatures to it."

Mr. B. W. Hynchman, of Thunder Bay District, writes: "If you will send me a petition form, I will do my best to get it well filled in. While we have a lot of men here using automobiles with from reasonable to great care, still we have others that should be serving a term at Kingston."

We received a letter from Mr. J. H. Caldwell, Carleton Co., who was so unfortunate during the past summer as to be seriously injured in a mixup with an auto on the highway near Ottawa. Mr. Caldwell was driving a team when the auto approached. He held up his hand, signalling them to vation and subsequent printing of the stop. They took no notice of it, howbutter, give it the appearance of ever. His horses reared, broke the extent that some well known feeders yield per acre and in many other re-creamery butter, and sell it as such. neck-yoke, and in the fracas which

ies that have necessitated his being under the doctor's care ever since. Those in the auto took no notice, whatever of the accident, but sped by at a terrific speed. Mr. Caldwell decided to have them brought up in court. There were five in the automobile. All five swore that their machine was running about 15 miles an hour, that they slowed up on meeting Mr. Caldwell, that Mr. Caldwell did not hold up his hand to signal them to stop, and that his horses showed no fear, and were standing like lambs. After the facts were all in, the magistrate imposed a fine of \$10. Mr. Caldwell, in his letter, continues. "I had spent the most of two days in getting this case ready, and had employed a first class lawyer, without which the case would have been dismissed with costs. The case cost me nearly as much as it did the motorists. Had I been alone, I could never have shown up in court. As it was, they had five witnesses against my three, and they were utterly reckless of their word or oath."

More might be said. All farmers are more or less familiar, many of them from sad experience, with the recklesseness of automobilists. anything is to be done in the matter of obtaining legislation to regulate this nuisance, it should be done now. If you are interested in this matter, and will circulate a petition, write us to this effect at once. As soon as we receive 20 replies from those who will circulate the petition, we will have them printed, and the good work can be started forthwith. If you wish anything done in the matter, write today. Do not wait for some one else

How to Treat a Man By A. Horse.

When a man drops from sheer exhaustion or illness, promptly seize an end-board or a cart-stake, and pound him on the head and on the ribs. If this does not fully recuperate him, kick him violently in the stometh. This treatment will restore him, kick him violently in the stometh. The restore him has been seen to be a stometh of the restore him and freels that it will seriously strain him to proceed, kick off a fence board and knock him down and then hammer him thoroughly. This will give him weed energy, and he will make no more fuss. But do not on any account reduce the load.

If a man refuses to drink when you give him water, do not give him any water for two days. That will "teach him' to be thirsty at any time you find it convenient to attend to him. It is a good plan to nly the whin fre-When a man drops from sheer ex-

and it convenient to attend to him. It is a cood plan to nly the whin frequently on a man who is at work. No matter if he is doing his best, hit him now and then on "igeneral principles." and to prevent him taking any comfort. If his load is not heavy, oblige him to go much faster to make up for it.

Tie vour man's head back in an un Tie vour man's head back in an un-natural position with his even toward the sun. This will give him a "fine appearance" and prevent stumbling. In winter remove his clothing to "gruent vent his taking celd." He will also dry quicker when you coverwork him. Wen thus treated are "much health-ier" when when allowed winter cloth-ior.—W. R. Gilbert in "Rider and Driver."

************** Creamery Department

Higher Prices For Dairy Products in the U.S.

Products in the U.S.

The products of the dairy cow in the United States are valued to-day at close on to \$800,000,000. The increase in value in recent years has not been due solely to an increase in the motion. The mean factory price of Elgin been in 1869 was 10.66 cents, in 1907 tents of the price of

Dairying In Brazil

Dairying In Brazil

During recent years dairying has made rapid progress in Brazil. There has been an increased demand in the large cities for dairy products. Ten years ago it was impossible to buy a glass of fresh milk in any shop in the city of Rio de Janeiro. The source of milk used by the householder source of milk used by the householder of those who we milked at the door of th

Building Cold Storages

In erecting cold storages at cream-eries proper insulation is the impor-tant thing to be considered. If the temperature in cold storage cannot be controlled it is of no use. The follow In erecting cold storages at Creamcontrolled it is of no use. The follow-ing article on this question from the New York Produce Review is to the It was written by an Ohio Creamery man:
Creamery walls should be built of

Creamery man:
Creamery walls should be built of
two or more thicknesses of material,
so there will be dead air spaces in
the walls. Such walls, if free from
cracks or places for air to circulate,
afford sufficient insulation for a creamcry against the summer heat and the
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cry against the summer heat and the
desired to use bricker. Where it is
desired to use bricker. Where it is
desired to use bricker where the
to build a creamery, if the more expense
and build the walls to keep out as
much heat as possible. Three thickmesses of matched lumber with a fourinch space between each thickness
does very well, but can be improved
by packing the air spaces full of shavlags. In building a wooden refriger,
lags. In building a wooden refriger,
lags. In building a wooden refriger,
seed. Sawdust will cliences of lumber
seed. Sawdust will cliences of lumber
seed. Sawdust will clience so full not
becomes water-scaked it is worse than
useless.

Many refrigerators are built with.

Driver."

I em decidedly pleased with Farm and Dairy.—C. L. Shayer. Sask.



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Ease of Operation,

Efficiency,

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Circulation Manager

Peterboro. Ontario again before the other is opened. The doors should be made with padded

or a should be made with padded edges so they will close tightly.

Mineral wood is a good insulating material, for it has advantages not possessed by shavings—rats do not bother it, and it does not burn or decay. Where there is unusual danger from fire, the refer to the control of the contr decay. Where there is unusual danger from fire, the refrigerator—and also the creamery building—can be built with an outer coating or wall of cement, mortar or concrete.

Competitors and Dairy Exhibitions

that he is the best man in the country, and that nobody can teach him much that he does not know. This, I be-lieve, is one of the reasons why there are very few makers who are suc-cessful competitors for several years. After they win one or two prizes, they become careless and are unable to win again. to win again.

to win again.

One of the most auccessful prize winners and one who has not allowed her winnings to prevent her repeating. Her successes, has been Miss Morrison, of Newry. She is by far the most successful exhibitor we have ever had at exhibitions in Canada. Miss Morrison has won more prizes than any other maker in the country.

Some Causes of Bad Butter

At Cornell University a monthly empetition in butter scoring is held, the main defects in the butter shown in the October competition were in flavor and color. The causes ascribed for the defects are so similar to those we hear talked about here, that they we hear talked about here, that they are worth repeating. Several samples had an old-cream flavor, indicating that the cream had been kept at least two days before churring. This practice is somewhat common in the lail and winter. In many instances the cream is neglected, and the butter quality suffers. If it is necessary to quality suffers. If it is necessary to the cream for more than one day, it shaded be kept at a very low temperature, and too much lactic acid should be allowed to develop before churring. Several competitors, in their axiety to preserve a perfect prain or texture in the butter, did not have the sail properly dissolved not have the sail properly not have the sail properly dissolved not grain or texture in the butter, did not have the salt properly dissolved and worked into the butter, and con-sequently the color was motified. The mottles could have all been prevented by allowing the butter to stand for a short time after the salt had been applied before giving the butter a final working. Commercial starters are now zenerally used by most butter, applied before giving the butter a final working. Commercial starters are now generally used by most butter-makers, and when these are good, the flavor of the butter is of a charac-teristic and desirable nature.

Dairy Notes

Mr. Edward Weir, of Roseneath, writes that he is rebuilding his cheese factory which was burned about a year ago. He says that he knows that Farm and Dairy will be of great help to him in securing a good cheese maker.

It costs less to produce a pound of butter fat than a pound of beef. Notice the difference in price.—W. F. Stephen, Huntingdon County.

Cheese Department
Makers are invited to send contributions to this department, to ask questions on matters relating to thesemaking and to surgest sub-

Cheese Making in Manitoba

N. J. Kuneman, M. A. C., Winnipeg.

The dairy industry in Manitoba during the past season was quite encouraging. It was a most satisfactory one from the producer's standpoint, as the market for butter and cheese through market for butter and cheese through-out the whole season was good. This was particularly so with cheese, which started out ri about 11½ cents and kept advancing right along, every 15 days finding a change, and at one time, 12½ to 13½ were the prevailing prices. All season the demand was in excess of the supply.

In excess of the supply.

The fact that the cheese output has increased has likewise increased the increased that increased the increased has likewise increased the increased has likewise here is a deduction to be made from this as they were chilead to nay more for their supplies. obliged to pay more for their supplies obliged to pay more for their supplies. Boxes were about one and one-fourth cents higher than the year before and all other supplies were slightly higher. When we consider this and figure it up, we find that the increased output does not come up in value to the increased values of supplies. A year ago there was some talk of raising the price for manufacturing. The year ago there was some talk of raising the price for manufacturing. The farmers, however, raised great objections. consequently some of the mannacturers did not feel inclined to fall in with this scheme. They thought that possibly they would get some of the other fellow's patrons if he (the other fellow) raised his price.

present price of manuacturing was set some years ago, cheese was selling at from about eight to It cents and he was getting his supplies about 20 per cent. cheaper. The farmer should not want it all. He should realize that it is through the factoryman that he is enabled to obtain this increased price the law material. for his raw material.

The quality of the cheese made last season showed considerable improve-ment, with the exception of flavor. This was also true of the butter made, ment, with the exception of flavor. This was also true of the butter made, which, in most cases, had a more dead which, in most cases, had a more less bitter flavor, due to the cows eating dandelions, of which there was a good growth right from the start of the season. There were some other off flavors also. They were not as bad nor as numerous as in other years but our September cheese were not as good as they should have been owing to the fact that we had considerable warm weather. Again, most farmers were very busy and they did not give very busy and they did not give very busy and they did not give the milk the attention that they should hausequently, we found a number of too and the season of the season of the season during the season of the season during september. Taking it all through however, the workmanship showed improvement.

One thing, however, that was practised and abused, more so that in many previous years, was the shipping of green cheese. This practice cannot be too strongly condemned as it works great injury to our markets. In an appropriation of the control o that possibly they would get some of the other fellow's putron in the the other fellow's raised his price he (the other fellow) raised his price he (the other fellow) raised his price he (the other fellow) raised his price he (the We fail to see why the manufacturer should not get a slice of the investment or should not get a slice of the investment of the properties of the last few years, because when his Bayers are largely to blame for the

SHAKE-SHAKE-SHAKE-No Stopping It

OU can buy any one of many kinds of common "bucket bowl" cream separators and be positively certain the "bucket bowl" will eventually shake itself to pieces. Or you can buy a Sharples Tubular Cream Separator and be positively certain it will never shake.

Here's the Reason:

COMMON "bucket bowl" separators have a heavy "bucket bowl" set heavy end up on top of a spindle which is held up by several bearings. The weight is above the bearings. Such bowls constantly try to tip sidewise. If they did not want to tip, why have bearings to hold them up? This tipping wears the bearings, allows the bowl to shake and eventually wracks the machine, causing expensive repairs or the purchase of a new machine. There is no way to prevent the "shakes" in common "bucket bowl" machines.

OU can surely avoid a shaking separator by getting a Sharples Tubular. Sharples Separators are entirely different from all others. They have light bowls, hung below a single frictionless ball bearing. Being hung naturally, with their weight below the bearing, Sharples bowls can not and do not tip sidewise, shake or vibrate.

SHARPLES bowls run as smoothly after 20 years use as when new. Tubular bowls weigh just about half as much as common "bucket bowls," yet wear many times as long.

SHARPLES separators are the only kind with suspended bowls fed through the bottom-the only kind that do not get the "shakes." Our patents prevent others from making them.

THE manufacture of Sharples Tubular Cream Separators is one of Canada's leading industries. 1908 sales were far ahead of 1907-way beyond

The Sharples Separator Co. other makes combined.
Write for catalog No. 253. Toronto, Ont.

Winnipeg, Man.

any other make, if not all Write for catalog No. 253. It will interest you.



Sharples Separators are most easily and perfectly oiled. Simply pour a spoonful of oil right down among the enclosed, dast proof gears once a week. The lower fear wheel, when in motion, sprays the oil over the fears and the single, frictionless hall bearing supporting the book. Nost convenient, insures perfect oiling with least attention, and adds wonderfully to the easier vanning and freater durability of Sharples Separators as compared to others. ators as compared to others.



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SALI TISE

practice of shipping green cheese. If they would refuse to take any cheese under 15 days old, there would be more general satisfaction and better results would be the outcome to the trade. During the past senson we sendeavored to get buyers together on this point and to have them buy on grade. Our efforts were without avail. they get the amount they required, they had to take all at the same figure. If they were to buy on grade, they would not get cheese at all; the other fellow would take it regardless other fellow would take it regardless of the difference in quality and maturity. This is a near-sighted and childish idea as all seem to have the same yarn. If all would come to an understanding and abide by it, they would be doing a great favor to themselves and to the consumers.

and to the consumers.

A number of improvements have been made in the factories during the past season. These improvements are general. The most noticeable improvement is that of clevated whey tank. Where these have been installed, there have been been to what of the whole is the stank. where these have been installed, there has been less trouble in whey flavors. The elevated tanks are easily kept clean. Some new factories were in operation this past senson, and most of them had good runs. Summing up the whole situation, we can confidently as where here. ly say that we have made satisfactory

The Cheese-maker's Wages

There are so many conditions gov erning the price paid for making cheese that it is difficult to arrive at a basis that would apply to all conditions. As a rule in most of the large ditions. As a rule in most of the large well-equipped factories, makers are being fairly well paid for their ser-vices—none too well-paid, however, and a little advance would encourage and a little advance would encourage more good nen to continue the business. The maker in charge of a large factory where from 100 good of a cheese are made in the seasons of the serves to be well-paid. He assumes large responsibility and more skill and intelligence are needed in successfully managing an up-to-date cheese factory than in most manufacturing industries, where managers are much better paid.

But it is in the small factory where the amount of milk received is small particularly that makers are underpaid. And the reason why they are underpaid. And the reason why they are underpaid is because the business will not admit of any higher wages.

are underpaid is because the business will not admit of any higher wages. The remedy lies is much properly and the second section of the second secon

OFF RID OF SMALL PACTORIES
If patrons, factory-owners and makers alike would conselve the result of GET RID OF SMALL FACTORIES work. A well-paid maker who is put-ting by a little every year, will do better work and render better service to those who employ him, than a maker, equally competent, who at the end of the season has nothing to the good and who may consider himself

CHEESE FACTORIES FOR SALE SHOULD BE ADVER-TISED IN FARM AND DAIRY.

lucky if he pulls through without any neary if he pulls through without any debt to pay. The solution is to get rid of the small cross-roads factory. Makers can do considerable towards effecting its removal, by refusing to accept the mere pittanee in the form of wages that is offered for their services.

A DECREASED OUTPUT
In all fairness there should be some scale of prices fixed so that a maker wor needing higher wages when the price receive higher wages when the price seeive higher when it is low. As the see is high than when it is low. As the failing off in the make of cheese, that is largely responsible for the higher prices which have prevailed. Where the maker is paid according to the quantity of cheese made he loses when the make falls off and the price of the finished article advances, though in some instances the advance in price encourages patrons to send more in some instances the advance in price encourages patrons to send more milk. The increase from this cause, is, however, hardly ever sufficient to make up the loss to the maker by the general falling off, which has brought about the higher prices for cheese.

A SATISFACTORY SYSTEM

A SATISPACTORY SYSTEM
There is a cheese factory in New
York State that for 27 years has been
paying its maker according to the
price that the cheese made sells for.
This system has worked out very satisfactorily. The maker is paid at the
rate of 10 per cent. of the money rerate of 10 per cent. of the money rerate of 10 per cent. of the money reissue the control of the control
maker to call the control of the control
maker to call the control
maker to the cont made. When cheese sens night within 10c the maker gets more per 100 lbs. for making, and when it sells at a lower price, his rate for making is not so high. If this plan were adoptated in the cheese sense for the cheese sense not so mgn. It this pian were adopted in Canada a percentage rate for the money received from cheese sales high. High testing milk is worth would have to be worked out accord.

DECREASED OUTPUT

make a quality of cheese that would command the top price. It would tend to decrease waste in cheese and cause more care to be exercised in

What do makers and others inter-sted think of the plan? We would be glad to have their views for publica-

selling cheese locally and to the pa-

Patented 1906

ing to the size of the factory and the amount of milk received. It is worth considering, however, and might be a better system than the one now in general use for paying makers. It would be an incentive to makers to

Dairy Jottings

Cheese-makers must be alive and awake in order to keep pace with the producers.—Dairy Instructor Ward,

I would like to see the farmers of this country get into the habit of having their milk paid for according to its butter fat test. Paying for milk by weight is absolutely unfair to those patrons whose milk tests high. High testing milk is worth

"PERFECT"

STEEL CHEESE VATS

The most popular and sanitary line of dairy utensil in Canada, Steel Cheese Vats, Steel Whey Tanks, Steel Cream Vats, and Steel Curd Sinks. Steel Agita-tors, Steel Butter Whey Tanks, Milk Cooling Tanks, Steel Whey Leader, Smoke Stack.

Let us quote you on entire equipment Get our Catalogue

The Steel Trough and Machine Co. TWEED, ONT. LIMITED

Publow, chief dairy instructor, Kingston, Ont.

When a farmer puts water in his milk and sends it to the factory he is hauled up in court when found out. When a man sends dirty milk out. When a man sends dirty milk to the factory it reduces the value of the good milk of all the rest of the patrons and yet that man is not touched although his milk does more damage than pure milk that has been watered. — Senator D. Derbyshire, Brockville, Ont.

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD CASH WITH ORDER

WANTED-A man with one or two years' experience in cheese factory for seven months. Apply stating wages wanted, to J. B. Doan, Birnam, Ont.

FOR SALE.—A cheese box factory outfit complete, including delivery wagon. Ap-ply, Box 23, Farm and Dairy.

IF YOU ARE LOOKING for a position, place an advertisement in this column. The cost is small—returns large.

FACTORY OWNERS should advertise for help in these columns. Read by nearly all cheese and butter makers.



HOW LHC. CREAM HARVESTERS HELP MAKE BETTER CALVES

HERE are indirect as well as direct benefits in using I. H. C. Cream Harvesters.

Cream Harvesters.
Everybody knows that the Cream Harvester will save labor, save time and get more butter fat out of the milk than you can get by hand skimming. These are direct benefits. They are the most persuasive reasons why every dairyman should have a cream

But an indirect benefit, hardly less important, is the better

calves you can raise.

When you skim by hand the calves get the cold, tasteless, sour skim milk that has but little life in it. If you hall cold milk to the creamery and take back your portion of the skim milk to feed your calves, it is even worse. In addition to its being stale and lifeless you take grave chances of introducing tuberculosis into

If you have an I. H. C. Cream Harvester, you sepa-mid the milk while it is warm and fresh. The calves, and pigs and chickens get the skim milk before it is and pigs and chickens get the skim milk before it is appeting the skim of the skim of the skim of the skim appeting this milkes it an ideal food, practically as good as the whole makes it an ideal food, practically as good as the whole milk.

as good as the whole min.

I. H. C. Cream Harvesters are very close skimmers.

The saving in cream alone by using one of these
machines goes far each season toward paying for the
cost of the machine if you keep a number of cows.

There are two styles of I. H. C. Cream Harvesters, the Dairymaid and the Bluebell.

Dairymaid Cream Harvester

This machine is chain driven, and it is made in four s-350, 450, 650 and 850 pounds capacity per hour.

Because of the simple and direct application of power Because of the simple and direct application of power from the crank to the bowl, it is exceptionally easy running and is very easily kept in order. The strongest points about this machine are its close skimming, convenient operation and simplicity, which make it exceptionally durable. The supply can and crank are waist high, an ideal location to make the work easy. When you get a Dairymald you can be sure you are going to get all the butter fat in the easiest possible

Bluebell Cream Harvester

The Bluebell is a gear drive machine. It is excep-The Bluebell is a gear drive machine. It is exceptionally well constructed. The gears are accurately cut to the thousandth part of an inch. They are thoroughly protected from dust and milk, and they are provided with Al oiling facilities. That is why Bluebell owners have less trouble than any other separator owners. The machine is simple. It is long-lived, and it is very easy running. The Bluebell bowl skims down to the thousandth part. Its interior separating device is patented, and it is the most efficient device of this kind manufactured. The supply can and crank shaft are at the proper height to make the operation easy.



Get elither of these separators and you will get more butter fat out of your milk than you are now getting. You will get more nutritions and appetising feed the fatternative. To will save blator, save time. Investigate fully by calling on the Internative. Investigate fully by calling on the Internation. In the Internation of the Internation of the Internation of the Internation of the Internation.

CANADIAN BRANCHES: Brandon, Calgary, Edmonton, Hamilton, London, Montreal, Ottawa, Regins, Saskatoon, St. John, Winnipey. International Harvester Company of America







100 man is born into the world, whose work is not born with him. There is always work and tools to work withal, for those who will. And blessed are the horny hands of toil. The busy world shoves angrily aside, The man who stands with arms akimbo set, Until occasion tells him what to do. And he who waits to have his task marked out, Shall die and leave his errand unfulfilled.



The Home Coming of Melinda

M ARK my word, Mrs. Branham," and Lydia Martin drove a letter determined stitch into the letter she was embroidering, "Melinda's coming will be more of a disappointment than a pleasure to you." The tired-faced little woman looked

up from her mending with a puzzled, wounded look clouding her gentle, mouse-brown eyes. For a second mouse-brown eyes. For a second, some-thing clear and sparkling hung pen-dent on her flickering lashes; then suddenly made a single glistening track down her cheek. "You don't know Melinda, Lydia, if you say that." There was conviction enough in her voice, but it trembled slightly under its veneer of calmness.
"Don't know her, Kate Branham!"

"Don't know her, Kate Branham!" Miss Lydia's scissors elattered to the floor in her consternation, "How in the world can you make such a remark when I pinned the very first slip on the child, taught her her A B C's and helped to make the graduating dress with my own hands?"

Mrs. Branham lifted a hand of good-Mrs. Brannam lifted a hand of good-natured deprecation. A faint wave of pink colored her face for a moment. "I know. You've done all that and a vast deal more, Lydia. You mustn't think that I do not appreciate what a real friend you have been to us, or a real friend you have been to us, or that I undervalue your opinion. But just a word in Melinda's defence. You've scarcely seen her since she was a girl of fifteen, the year she finished at the Brookside high school. Her four years at Wellesley, and this last one in Europe, have changed her-made a woman of her, and—" "That's just it, Kate—they've

made a woman feer, and—"
"That's just it. Kate—they've
changed her it isit the girl's fault,
of course, but can't yes that all
this goes to prove my pose to live,
if she'd stayed out of college, and
the European tour had not been
planned, maybe things would be different. As it is—" She broke off
with a significant uplifting of her
straight black brows.

The little mother looked up with a
gasp. "You mean you think all this
spoiled my girl?" she asked tremulously.

Miss Lydia shrugged. "Now don't Miss Lydia shrugged. "Now don't go and get sentimental, Kate. No girl is proof against it. You couldn't call it a fault, or a shortcoming, you know that it a fault, or a shortcoming that it a fault is a fault of her training. Use a little common sense. Unlimited pocket money—a favorite at college-clothes in ridiculous quantities—every wish gratified—a small fortune in a trip abroad. Would anybody in reason expect such a pam-pered creature to cheerfully settle

Mrs. Branham swept the room with Mrs. Branham swept the room with disconsolate eyes. A gentle sigh es-caped her. "You're right, Lydia," she said slowly, "You are right—as always. She wouldn't be human, would she? On my blindness and joy of always. She wouldn't be human, would she? On my blindness and joy of seeing her so soon, I quite lost sight of what a shock it will be to her. Of course I dreaded telling her about Mr. Branham's losses, but it never occurred to me that she would be the chief sufferer by them. Indeed you chief sufferer by them. Indeed you are right. When she left home, her are right. When she left home, her father was a rich man; she will return to find him a—pauper." Her voice broke on the last word and she covered er face with her hands to hide the swelling tears.

swelling tears.

Miss Lydia kept tactfully silent a moment; she carefully put aside her embroidery, thimble and scissors, and came up to the other's chair. She laid a re-assuring row of square fingerips on Mrs. Branham's slender shoulder and said: "Never mind, Kate, I've figured it all out for you. I kneel how wrapped up you'd be in the plant how wrapped up you'd be in the plant how wrapped up you'd be in the constitution of sunshine in it. I have a neaf little bird's-eye maple dresser I'm not using, and you're welcome to it. It will just match the desk and washstand. Then we can take one willow chair out of the parlor and the table from the back hall to finish up. The blue iron bed for the parlor and the table from the back hall to finish up. The blue iron bed for the parlor and the table for the parlor and the table for the parlor of a girl, break helinda's not that sort of a girl, break helinda's not that sort of a girl, break helinda's the day henry of time to realize the situation of the parlor of the day her helinda's the apple of your eye—you needn't deny it—and I'm trying to make it easy for you to make it easy for you cape."

Mrs. Branham caught ber breath; she looked up into Miss Lydia's keen black eyes with a wordless gratitude shining in her own. "You've more tact in a minute, Lydia, than has been given to me in a lifetime. I leave everything to you."

Miss Lydia took the chair opposite and proceeded: "I'll bring over that bolt of muslin in the morning, and we bott of fidelin in the morning, and we can frill up some curtains in no time, working together. After dinner to-day, I'm going to send Hester here to help you get this room cleaned up

"But—but you're too genercus, dear; 1 couldn't let you—" dear; I couldn't let you—"emreusion,
"I'm not like you permission,
Mrs. Branhana ling your permission,
Mrs. Branhana ling the ling on head."
You've heard it, hen go ahead."
You've heard it, hen go ahead."
You've heard it, her go ahead."
You've heard it, he ling a heard it, but a ling a li

Mrs. Branham laughed a little hys-Mrs. Branham laughed a little hys-terically. 'She will be mighty happy to think of how you've all exerted yourselves for her pleasure. I'm sure of that." Her little head went up with a sudden touch of pride. "Mellie has the biggest heart as well as the prettiest face of any girl in Brook-side!"

"And now," said Miss Lydia, rising,

"And now," said Miss Lydia, rising,
"I must run on home, and make a
marshmallow cake for to-morrow
night. Hester will be here about
three, and you may look for me bright
and early in the morning.
Mrs. Branham rose too, following
diss Lydia out on the porch. "And
lyou don't mind, Lydia," she said,
lyou don't mind, Lydia," she she
lace, and he reson which the she
lace, and he reson which was a look
lyou don't mind. Lydia, "she lydia," she
list lydia, "she lydia," she lydia, lydia, lydia, lydia,
lydia, "she lydia," she lydia, lydia, lydia, lydia,
lydia, "she lydia, "she lydia, lydia, lydia, lydia, lydia,
lydia, "she lydia, "she lydia, lydia, lydia, lydia, lydia,
lydia, "she lydia, "she lydia, lydia, "she lydia, lydia

last edge of her glistening black brilliantine had vanished from view, Mrs. Branham heaved a sigh and went back into the room to think.

Was it true that Melinda's homewas it true that menna's nome-coming was apt to bring her more disappointment than pleasure? She could not bring herself to believe it, knowing her daughter as she did. But she had not reskoned with the influence of the past five years! Lydia Martin had a keen insight into human hearts she must be right. Mrs. Branham', heart grew heavy within her. Would the little they were able to do help any, after all, she wondered? Not knowing what else to do, she went to her desk and took out Melinda's last letter, vainly hoping to glean between the lines some vague denial of her fears.

Dearest Mamma: We arrived at Dearest Mamma: We arrived at neon yesterday, and I can scarcely wait to see you. But there are many things I must attend to, and I just may pay a wee little visit to the '07 girls—all of them that are here—before I leave. So do not expect me until Thursday at four.

until Thursday at four.
So you are still at Brookside? Is
your rheumatism so bad—or Johnny
worse? Somehow I can't help feeling worried, although I know you
would have written me if there was
saything serious. anything serious.

I have oceans to tell you of my trip—it was simply grand. I am dying to have you see the four Paris gowns I bought with the two thous-and dollars papa gave me for clothes.

and dollars papa gave me for clothes. They are exquisite—all different shades and styles.

Lucye is hurrying me to dress for dinner, so you will excuse a short note this time?

this time?

Be sure to meet me with the RayneDrexton. I've developed quite a
frensy for the latest thing in
'motors.'

With love inexpressible for you all,
Devotedly, Mellie.

The latest thing in motors! Out-

side the cottage and farm, they hadn't the price of a single car in all the world. Mrs. Branham's hand went to world. Mrs. Branham's hand went to her heart. Two thousand dollars' worth of Paris finery—in Brockside! She shuddered. Miss Lydia's warning recurred to her with ominous persis-tence, gathering force with every fresh evidence of their truth.

Well, there was no use wasting valuable time in vain regrets and idle speculations. She must get to work that room.

speculations. One many get three, and on that room on that room on the room to make the decomplished wonders in the next two hours. The dresser had arrived, and was placed advantageously between two low windows. In one of the draw-res was a dainty linen searf, worked exquisitely by Miss Lydia's own deft fingers. Mrs. Branham dashed a tear of gratitude from her eyes as she smoothed it out and placed the little Dresden toilet articles artistically about. She had resurrected them from an old family trunk, recollecting that Melinda used to admire them so much.

much.
The bed was clothed in fresh draper The bed was clothed in Iresh draper-ies, and spread with the whitest coun-terpane. Blue ribbons were run through the willow chair brought in from the parlor, and a gay little oriental cover placed on the reading

Before nine o'clock the following morning, Miss Lydia, with the bolt of muslin tucked under one arm and a mammoth bunch of vari-hued chrys-anthemums in the other, ran up the front steps and rapped. (Concluded next week

************* The Upward Look Ine Upwaru Louk

A Glorious Promise

Jesus answered and said unto him, if a man love Me, he will keep my words; and my Father will love him, and we will come unto Him, and make our abode with Him.—John, 14,

23.
What are Christ's words? First, that we must love the Lord our God with all our heart and with all our soul and with all our mind: Second, that we shall love our neighbour as ourself. If we will do but these two things we will fulfill all the rest of Calls convended.

things we will fulfill all the rest of God's commands.

Is there anything that occupies our thoughts more than anything else? Is it our pleasures or troubles, our business successes or failures, a love of honor, of money, or of anything pertaining to this world? If so, we must beware. Thoughts of the control of the cont

minds. If they do not, then uod will not love us as He might.

This does not mean that we must give up the things of this life. It means, if anything, that we must give up the things of the life. It means, if anything, that we must be consciously endeavouring to please God. We must be like the humble shoemaker, who said that he tried to make every pair of shoes so well that were he to die and be asked not be anything the shoes he was not be ashmed to say yes. This aboem to be ashmed to say yes. This aboem to the arms time, thinking of God and trying to please Him. The shoes he made were all the better on that account.

that account.

So it may be with us. In our daily work we should endeavor to do everything-even the most trivial things, to the best our ability so that God may be pleased with our work. We should desire to have:

"A mind to blend with outward life, While keeping by Thy side, Consent to fill a little space If thou be glorified."

Thus we will keep God's words, and He will love us and make His abode with us.—J. H. N.

Ma Maki Wm. 1

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of gales its posi lowing useful, AN Lengt

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or other more w sions g changed the styl be taker so as t ment), box at eight to (inside inches. The d top and the front ontward ance wh board we allows th

to hang to the el cial to have thr in thick bottom t to prever Some ha about six for drain be paint down fro purpose. eye shoul box wher of strong ened to the in the w this purp at least t length of vanized s ting. The perhaps h

tion of th

Making and Managing Window with ordinary care last for nine or ten years if given an occasional coat

Wm. Hunt in Candian Horticulturist.

A window box does not necessarily require to be of an elaborate or expensive nature, so long as it is strong enough to stand the pressure of the



An Undecorated Window

weight of soil and to resist the efforts of gales and winds to dislodge it from its position. A plain wooden box made of one inch dressed pine of the fol-lowing dimensions will be found very useful, inexpensive and effective:

AN UNDECORATED WINDOW

Length of box (over all) should be about the width of the window itself, not including the window frames. The two or three inches in width of frames on each side of the window will allow for covering the box with cork bark, or other material, if required, of which cover the control of the covering the box with cork bark. or other material, if required, of which more will be said later. The dimensions given here can of course be changed to some extent so as to suit the style of window, but care must be taken not to have the box too laree, so as to be heavy and unwieldy: Width of box at tor finishe measurement, nine to ten inches; width of continuous ments of the continuous control of the control

The difference in the width of the The difference in the width of the top and bottom of the box will allow the front to stand at an angle or slope outwards from the bottom up. thus avoiding the common box-like appearance which a perfectly upright front board would leave. This method also board would leave. This method alse allows the drooning varieties of plants to hang clear of the box, thus adding to the effect, as well as being benefi-cial to the plants. The box should have three or four thin cleats of wood one inch in width and half an inch in thickness nailed to the outside of bottom to allow of free drainage, and to prevent the rotting of wooden alls. Some half inch holes should be bored about six inches apart in the bottom some naff inch holes should be bored about six inches apart, in the bottom for drainage purposes. The box should be painted outside, and two inches down from top on inside. A dark, dull, olive-green color is best for this purpose. A small iron staple or serve-yee should be placed on each end near yes should be placed on each end near eye should be placed on each end near the box when placed in position, a piece of strong wire, or an iron hook, fast-ened to the screw-eye or staples placed in the windows should be used for this purpose. The box should have at least three inches bearing on whole length of window sill. A piece of galvanized sheet iron may be placed on the sill to prevent the sill from rotting. The following diagrams will perhaps be of service in the construction of the box:

of paint

A more elaborately constructed box A more elaborately constructed box can be had by having the bottom pro-ject about an inch on the front and ends, and the edges nicely rounded. Beading can also be used effectively for appearance sake. All of these are of little use, however, and only serve to help rot the box. It is much better for the nicestal results. off little use, however, and only serve to help rot he box. It is much better for the successful growth of the plants to have a plain box as described covered with virgin bark, or even the bark should be nailed on firmly. Flat pieces of bark are best for covering window boxes. It may be necessary to run a saw cut partially through to run a saw cut partially through the corn bark lengthwise on the inside, to make it more pliable and to make it set closer. The bark of the hard marle, ash, and walnut are particularly well suited for this purpose, execularly if taken from a recently execularly if taken from a recently end of easily placed in position. The covering of the bark—or bark and cevering of the bark—or bark and



A Plain Painted Box

moss—as seen in the photos, not only gives the box an artistic and rustic-looking appearance, but also helps to prevent the soil from drying one as quickly as it does in a plant wooden box, a point worthy of consideration, especially if the box is to be placed in an exposed sumy situation. Covering the outside with small pieces of split cedar nailed on has a good effect from an artistic point of view, as well as preventing the soil from drying out too rapidly. These as well as preventing the soil from drying out too rapidly. These are some of the methods by which window boxes can be made more ar-tistic and less crude looking than we often see them, and also give the plants the best possible conditions for successful growth.

SOIL FOR WINDOW BOXES

A good, rich, loamy compost, about two parts loamy potting soil and one



Box Covered with Cork Bark

vanized sheet iron may be placed on the sill to prevent the sill from rotting. The following diagrams will sperhaps be of service in the construction of the box:

A box constructed as stated will

A box constructed as stated will

Front.



End Section of Box



Back

Bottom of Box, showing Cleats and Holes for Drainage

sprinkling of bone meal or a thin one-inch layer of well-rotted barnyard manure spread over the soil about an inch from the bottom of the boxes.



Covered with Native Bark, Lichens and Fungi

This serves as a reserve fertilizer when the balance of the soil has become exhausted.

(Continued next week)

...

If You Want To Be Loved Don't contradict people, even if ou're sure you are right.

Don't be inquisitive about the affairs of even your most intimate

Don't underrate anything because ou don't possess it.

Don't believe that everybody else in the world is happier than you.

Don't conclude that you have never had any opportunities in life.

Don't be rude to your inferiors in ocial position

Don't repeat gossip, even if it does interest a crowd. Learn to hide your aches and pains

under a pleasant smile. Few care whether you have the earache, head-ache or rheumatism.

Learn to attend to your own busi-ness—a very important point.

Do not try to be anything else but a not any to be anything else out a gentleman or a gentlewoman, and that means one who has consideration for the whole world, and whose life is governed by the Golden Rule: "Do unto others as you would be done by."

Old flannel has a strong attraction for moths and buffalo bucs, so after taking the usual precautions in putting away the winter garments, if a source of flannel is left on the floor of the closet, where the moths may be expected, they will eat the flannel in preference to anything else. By carefully watching the trap, if they are discovered, they may be destroyed on the flannel. . . .



What Our Trade-Mark Means to You

T means that the flour contained in bags and barrels so trade-marked is decidedly whiter, a great deal stronger and more nutritious than other flours.

It means that the flour has been properly aged to mature its full strength.

It means

"More bread and better Bread"

and better pastry, too.

It means elimination of uncertainty-"your money back" if Purity fails to give entire satisfaction.

Costs more than the other kind, but worth the difference.

Western Canada Flour Mills Co., Limited, MILLS AT WINNIPEG GODERICH, BRANDON,



Nothing is easier to understand than this-one paint won't do for everything any more than one medi-cine will cure all ills. That's the reason we make a specialty for every purpose. Ask your dealer for

Sherwin-Williams

Made in Canada.

Montreal, Toronto, Winnipeg.

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

The Spring Reign of Terror

R. M. Belle, Victoria Co., Ont. R. M. Belle, Victoria Co., Ont. The ambitions woman who is al-ways trying to out of her neighbor, makes one great or the neighbor, makes one great or the second of the control of the con



house is in confusion, herself not specially attractive in that ragged

house is in confusion, herself not specially attractive in that ragged yown, is it a wonder that the men folks and children keep out of the way as much as possible, and are heartily glad when this reign of terror is over, and the witch of mop and broom is transformed into her old self again?

The word of the word of the word of the word of the want women there are who, in the word of the house. Better make haste more slow-ly, plan wisely, make our brains save our bodies and take them to enjoy the awakenings of spring, the soft, sweet air, the birds and flowers. There is so much now that is inspir-ing and ennobling. Mother Nature opens the book for us; if we would

PLAN BEFORE

To plan wisely we must see if there is not much we can do as preliminary work. There are boxes and bags of odds and ends that have to be looked is not much we can do as preliminary work. There are boses and bags of odds and ends that have to be looked over, and these should be brought to the kitchen, for storerooms and attics are not especially warm at this time of year; then, too, you can watch the pot boil, while you are sorting over the articles. Do not gather useless rubbish: remember that every year brings its own accumulations, and what you cannot possibly use, give to someone that can, or throw it away, thus saving much valuable time at the semi-annual cleanings. Bookard of the semi-annual cleanings which is semi-annual cleanings and this semi-annual cleanings to the semi-annual cleanings and t

a good amount of stock may be pre-pared previously and kept in air-tight jars; by the addition of vegetables, rice, etc., a nourishing soup is quick-ly prepared.

BEST METHODS The approved method of cleaning is to begin at the attic and go down. Select warm days for the upper rooms for there are many things to be aired and sounned, and the cleaner will be much exposed going in and out. Tie up the head and shoulders when putting articles out upon the lines.

when putting articles out upon the lines.

One cannot be too careful regarding springs and mattresses; get them as clean as possible, especially if there has been any illness in the family, when some antiseptic fluid should be added to the cleaning water. Pick over husk beds, adding new husks when needed and wash the ticks; and the seases are easily cleaned by beating the seases are easily cleaned by the surface, and the seases are easily cleaned to the surface, and the seases are easily cleaned to the surface, and every the sease will circulate freely. The sease will circulate freely. The sease will circulate freely the sease will are to the sease will are years, and every year between well aired and beaten. When the ticks are to be washed, the feathers are easily emptied into another by ripping a piece in one, and overhanding it firmly to a corresponding place in the other, them shaking them hourglass fashion, into the empty one.

Fillows are not so hard to handle. A Fillows are not so hard to foot the sease of the One cannot be too careful regard-

read and enjoy, and we must not bury ourselves in housecleaning may unexpectedly appear; the upper from morning till night. the living rooms at a time, as visitors may unexpectedly appear; the upper rooms do not matter so much as long as the beds are ready for occupancy at night. The kitchen and the pantry are the tug-of-war, so ought to be appeared to the consumer appeared by any the tensor that, thinking his will want to save this or that, thinking his will want to save this or that, thinking his will want to save this or that, thinking his will want to save this or that, thinking his will be the save that the save the s

often results in a sprained or dislocat-

ed ankle.

Don't try to wash all the blankets Don't try to wash all the blankets at one time; take one each week with the regular wash until all are class. You will not feel the extra work. And one more don't as I want to emphasize what I said af first: Don't start too soon and contract influenza or something equally as bad; the whole spring is before you.

Talks with mounts Talks with Mothers

Stop Worrying

Mrs. Nancy J. Spillings, Sask.

If all women knew how much nerwows force it takes to worry and tet they would do less of it. If it really did any some and the they would be one thing, but it does not all the to the they would be one thing, but it does not be the to the takes and the to the takes and the to the takes and takes If all women knew how much ner-

down gave me plenty of time to see the error of my ways, and I have been repenting ever since.

This is why I am writing you, dear sisters. If I might be the means of urning some one into the right path before it was so late! Begin to follow my motto now, this minute! I have been the since of the since

For a Large Family

For a Large Family
In a large family of small children
the mother lost much waluable, time
on storay mornings "mubbers for their small owners, we will
has solved the problem by buying a
dozen of the patent clothes-pins. Each
one was painted a separate color and
each child given one. When the rubbers are removed they are fastened
together with the clothes-pins and
thus are together when next needed.

You will surely miss Farm and Dairy if you don't renew your sub-scription.



The EDISON PHONOGR4

is an entertainer which comes into your home for a small price and makes all kinds of vocal and instrumental music available.

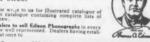
By means of the AMBEROL RECORDS, Mr. Edison's newest invention, a great many other kinds of music, monologues, dialogues and other things are available for the Edison Phonograph which have not before been used in a talking machine.

Hear the Edison Phonograph and the Amberol Records at your nearest dealer's, and make arrangements with him for obtaining them at once.

FREE. Ask your dealer or wr., e to us for illustrated catalogue of Edison Phonographs, also catalogue containing complete lists of Edison Records. Old and new.

Edison Records, old and new.

We Want Good Live Dealers to sell Edison Phonographs in every town where we are not now well represented. Dealers having established stores should write at once to



National Phonograph Company, 111 Lakeside Avenue, Orange, N. J., U.S.A. It is desirable to mention the name of this publication when writing to advertiser TH

Mai

Reese

"Spo Quite nary ler gue, wh lemon p and gra ful of si (roundir Put the the mill mixture ing and the pie

Wipe small p quantity moisten Mound leaves ar and can fancy sh Curled

GOITI

HISCOTT COLLEGE

THE COOK'S CORNER

Send in your favorite recipes, for publication in this work of the pretaining to cooking amount of the pretaining to cooking as soon as possible after receipt of same. Ur Cook Hook after receipt of same. Ur Cook Hook and the pretaining to same the pretaining to the pretaining t

"Sponge Cake" Lemon Pie

Quite an improvement on the ordi-Quite an improvement on the ordi-nary lemon pie with the fussy merin-gue, which is always so difficult to get just right, is the "sponge cake" iemon pie. The ingredients are: Juice and grated rind of one lemon; I cup-ful of sugar; 2 eggs; 2 tablespoonfuls (rounding) of flour; 1 cuptul of milk. Put the sugar into the yolks, and best. Add the flour, and best again. Add the milk. Fold in the stiffly beaten whites, being careful not to beat the whites, being careful not to beat the mixture after the whites are added. The whites rise to the top while baking and form a sort of meringue, so the pie is really as good to look at as to set as to eat.

WALDORF SALAD

Wipe and pare apples, then cut in small pieces. Mix with an equal quantity of finely cut celery, and moisten with mayonnaise dressing. Mound on a nest of crisp lettuce leaves and garnish with cul'd celery and canned olives cut in strips or fenny shapes. fancy shapes.

Curled celery often makes an attrac-

HAVE YOU GOITRE?

GOITRE SURE CURE

Home remedies for Tan, Freckles, Moth-patches, Eczema, Pimples, Hackheads, Ivy Poisoning cic, Write for particular stating Poisoning cic, Write for particular stating Superfluous Half, Moles, Warfs, etc. Superfluous Half, Moles, Warfs, etc. Fradicated for ever at our office by our reliable method of Electrolysis. Satisfaction assured. Send for Booklet "K."

HISCOTT DERMATOLOGICAL INSTITUTE

COLLEGE STREET, TORONTO, ONT

treatment for Goitre is a most reliable

most reliable
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young lady
who was unsuccessfully
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ourtreatment
reduced her
Goitre in less
than three
weeks. Do not
worry if you
have Thick
Neck, but

USE

in two-inch pieces. With a sharp knife, beginning at the outside of the stalks, make five cuts parallel to each other, extending one-third the length of the pieces. Make six cuts at right angles to the cuts already made. Cut the other end in the same fashion, Put the pieces in cold or iced water, and let stand for several hours.

STEAMED BROWN BREAD

One pt. sweet mike, 4 tablespoons monasses, 1 cup indian meai, 2 cups rye or granam flour, 1 teaspoon sait, 1 of saieratus; mix with a spoon, and steam 3 nours, and then bake half an langer or more.

BOSTON BROWN BREAD

One and ½ cups graham flour, 2 cups corn meal, ½ cup molasses, 1 pt. sweet milk, ½ teaspoon of sona; steam 3 hours.

steam 3 hours.

Cream 1 cup butter, and 2 cups sugar, mixed with 3 tablespoons flour, 3 well-beaten eggs, and 1 cup cream. This is a splendid filling and enough for two pies. Bake with under crust only.

CHEESE PIE

Heat some sour milk slowly until curd separates from whey, then drain and rub cheese through a colander. To 1 cup cheese add 2 well-beaten To 1 cup cheese and 2 well-beaten eggs, 1 cup sugar, a little salt, and 1 teaspoon lemon extract. Beat all well together and lastly add ½ cup sweet milk. Bake in under crust like custored sixthesis. tard pie. ...

Putting Away Winter Furs

The putting away of furs at the beginning of the warm days may made as attractive and pleasant task as any of the sweet, cleanly household duties of the careful house-

Did you ever think when gazing at bid you ever think when gazing at the loveliness of the sweet-scented ger-aniums growing in your window, that they may be of use, as well as give color and fragrance?

color and fragrance?
When you put away your tippet, stole
or muff, or the becoming fur hat that
has been so useful through the winter months, just gather a quantity of
leaves of the sweet-scented rose-geranium and strew them under, over
and all around the fur, which is then
cosily laid away between sheets of tissue name carefully lapped at the sue paper carefully lapped at the edges to seal the smallest opening. It may then be placed in a box. If you have an old linen pillow-case, slide have an old linen pillow-case, slide the box into its capacious opening, lap the edges securely and fasten with large, neat stitches, label the contents of the box, and then stow away for its summer rest.

A SUCCESSFUL METHOD
A few yards of unbleached muslin
an be made into bags; these are iro-

mersed in turpentine and then hung out to dry. The liquid serves the double purpose of rendering the bag impregnable and, by the character of the odor, keeping the moths at a distance, for turpentine has many times proved itself the victorious foe of the fluffy-winged insects. A fur jacket or coat may in this way be left on its hanger servants according on its hanger serenely from a peg.

Simple as any one of these methods has proved to be, let it not be forgotten that the chief factors for good are the following: The bright, clean condition in which the fur is put

clean condition in which the fur is put away, and the cool dry atmosphere in which the fur is placed.

On a bright sushiny day, when the sun is not too hot, hang your furs on the line where the breeze is gently stirring, and let them get the air and sunshine of a day. Before taking sunshine of a day. Before taking them down a gentle beating will prove of the greatest benefit. If there is a spot anywhere on the fur, be sure to remove it with dry magnesia or safe cleaning fluid. cleaning fluid.

Then, when putting the furs away be sure that you have found a place both cool and dry. For after all is said and done, a more or less continuation of the said and done, a more or less continuation. ous baking, or prolonged though slight soaking are more greatly to be feared than the attacks of our gentle

winged friends.

Warm sun, fresh breezes and clean-liness are sure guards against the liness foes of fur. ...

Take Care In Ordering

We have several orders for patterns that we are unable to fill, as the part-ies ordering them have forgotten to give us their address. One order for stamping outfit we are unable to send for this reason. The woman ordering sent us 75 cents, which we are holding. As she did not state where she lived, we have not been able to send the pattern.

pattern.

Too much care cannot be taken in ordering, giving full address, and size of patterns desired, with number of pattern, written plainly in ink.

...

If a child should accidentally get pepper or any other smarting sub-stance in its eyes, apply sweet milk at once, and plenty of it.

To prevent a bruise from turning black or blue, rub the affected parts at once with olive oil.

. . .

Do you want to have your own sub-scription to Farm and Dairy renewed free? Then send us 2 new subscrip-tions at \$1 each and we will renew your own subscription free for one year.

The Sewing Room

Paterns 10 each. Order by number and size. If for children, give age; waist, and will be a consulted for the series of the patern of the pa

CIRCULAR SKIRT 6193

I SKIRT 483
The circular akirt
that is closed at the
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for medium size is 5½ yds 24, or 27, 3½ yds. 44, or 2% yds. 52 in wide.

The pattern is cut for a 22, 24, 26, 22 and 30 in. waist and will be mailed to any address on receipt of 10 cents.

WOMEN'S PAJAMAS 6197



Many women pre-fer pajamas to every other sleeping gar-ment. They are sim-ple, comfortable and roomy and can be made from a variety of materials. The pa-jamas consist of con-

of materials. The pa-jamas consist of coat and trousers.

Material required for medium size is 7%, vis. 36 or 27, 5%.

The pattern is cut of 28, 5% 36, 38 and 49 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38 and 40 in. bust and via 28, 5%, 38

TUCKED BLOUSE 6199



The blouse that is tucked in various effective ways is the favorite one of the moment and this model would be The mouse that is the bound of the favorite one of the favorite one of the moment and this model would be charming. The plain yoke and centre yoke and centre of the favorite of the favorite

and 42 in, bust and to find the pattern is cut for a 32, 34, 36, 38, 40 ceipt of 10 cents.

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

Art Embroidery

No. 571. Special Perforated No. 011. Special February Stamping Outfit. This splen-did outfit consists of about fifty up-to-date and hand-some full-size designs, includ-some full-size designs, includsome full-size designs, includ-ing a Shirt Waist, Corse, Cover, Lingerie Hat, two Complete Alphabets (one 2½ in. and one 1 in.), Center-piece (size 16 in.), two Doi-lies (5½ in.), two turnovers, Borders, Belt, Book Cover, Corp. Dillow and many other Borders, Belt, Book Cover, Sofa Pillow, and many other useful designs, in all the mo-dern styles of embroidery. The above designs are perfor-ted on a good quality of The above designs are perfor-ated on a good quality of paper. We also include a cake each of the blue and white of the "Ideal," two Poncettes, and full directions for using the stamping pre-paration, at the special price of 75c for all.

These Perforated Patterns can be used an unlimited number of times.



OUR FARMERS' CLUB Contributions Invited.

OUFBEC

SHERBROOKE CO., QUE. SHERBROOKE CO., QUE.
LENNOXVILLE.—The weather conditions
have been rather trying of late. An einch fall of snow lately, followed a fedays later by a 12-hour rainfall, with
plenty of wind in between, have kept the
snow plows and rollers busy, and has efsnow plows and rollers busy, and has efwe ha was been ended to the condition of the
works was been conditions. by the way has been a serious one for many farmers. The local market for dairy produce holds up fairly well though dairy produce holds up fairly well though slightly lower than at this time last year. This is probably owing to the large amount of butter held in cold storage since the summer. One local merchant had 1800 lbs. in storage and others doubt-less had butter in proportion while Mesers. Ames & Sons of the Sherbrooke Cold Storage, also bought large quantities during the fall for winter trade. Eggs have been very scarce, bringing 40c and 50c. They are now much more plentiful but the extra demand during the Lenten season will have a tendency to hold prices up till Easter time.—H. M.

> ONTARIO HASTINGS CO., ONT.

RASTINGS CO., ONT.

(ROOKSTON.—There is a little complaining about searcity of feed. Last year's splendid cons crop is proving of value in this respect. Judging by the prices being paid for dairy cows farmers are looking forward to another good year. Live hogs are worth \$7 a cwt.; eggs are 25 a dog., potatoes, 75c a bag; butter 25c a lb.—H. W.

THE RIDGE.—The snow is not deep in he woods and lumbering is going on quite the woods and lumbering is going on quite extensively. Nearly all the farmers are taking out logs to the saw mills. There are four saw mills in this neighborhood, all within five or eix miles of each other. Feed seems to be quite plentiful, al-though hay and grain sell at a good price, hay bringing 91s at on: oats, 55e a bubs.; polatoes, \$1 a bag; beef, 6c a lb.; and but-ter, 25e.—A. B. C.

HALIBURTON CO., ONT.

HIGHLAND GROVE.—The snow is very scarce here, but ice is plentiful. There is hardly enough snow for the log haulis hardly enough snow for the log haul-ers. Some farmers are uneary as to how the winter is going to hang out, there being quite a few who have to buy what they feed for the rest of the winter. Feed is not very chaep. Hay is \$12 a ton; cats, 55 a bush; other produce remains about the same. Seed grain is almost out of sight. It is thought that the cheese busi-ness will be rather slow this year.—FMJ. VICTORIA CO., ONT.

HARTLEY.—Farmers' clubs and Women's Institute meetings are again engaging the Institute meetings are again engaging the attention of our people. These organisations have done a great deal of good in the past, and there is a great work for the past, and there is a great work for engage of the past, and there is a great work for plenty of smart young men and young women, in a very short time those meetings could be made very interesting without having to import speakers from other out having to import speakers from other encourage them all we can, Forming rural districts. The material is with us; let us encourage them all we can. Forming rural telephone companies and making prepara-tions for building rural telephone lines. tions for building fural telephone lines, seems to be the order of the day. With the number of lines already built and phones installed and the number on the way in the near future, we expect to be able to sit by our own freside and talk with the editor of Farm and Dairy, instead of writing, which we have to do at the present time.-W. M.

WENTWORTH CO., ONT.

KIBKWALL.-Nearly all the farmers are hauling their farm manure out at intervals of every two or three weeks. The or the second section of the section spread it directly on the fields, where the

OUR FARMERS' CLUB greater quantity of it is fed to the cattle, sheep and hogs on the farm, and
even larger prices are being received
when fed in this way than if the grain
was all drawn away as soon as threshed. was all drawn away as soon as thr -C. A. W.

WELLINGTON CO., ONT.

WELLINGTON CO. ONT.

MOUNT POREST—Auction sales are now
quite numerous. Many farms are for sale.
The West seems to be the attraction. For
many, the vast unclaimed wheat lands of
the western plains hold unclaimed fortunes. The present weather seems more
spring-like than that of winter. We have
noticed for some time different species
of spring birds and the probs are that
comparatively mild weather will continue.
selephing. It evel concept some to make
sleighing. It well concept some to take of
in the bush this spring to take off the
first harvest, which is that of sugarmaking.—C. N.

ELORA.-February has been most markable for its variation of weather-from warm and spring-like to very cold. The rains have relieved the water scarcity The rains have relieved the water scarcity and every one seems to have plenty for stock and domestic purposes. Prices of stock and domestic purposes. Prices of the prices able for seed, as nearly everyone isfied that for seed "the best is the est," and "whatsoever a man sowetle est," and "whatsoever a man soweth that shall he also reap."—G. W.

BRUCE CO., ONT.

WIARTON.—The price of seed grain will be higher but there are not likely to be any importations of western oats again any importations of western outs again this coming spring. Many found this close of seed grain would not germinate last year. Many of us are wondering whether the grasshoppers will be bad this coming season. The last two years they have tolled outs and harley 25 to 50 per cent tolled outs and harley 25 to 50 per cent tolled outs and harley 25 to 50 per cent and the season of the season of the season. The period of the season of the

MUSKOKA DISTRICT, ONT.

MUSKOKA DISTRICT, ONT.

HUNTSYLLE—We are having a very mild winter. The snow has not been over one foot in depth. A large number of farmers are engaged in hauling wood and logs, although the prices for both these are considerably lower than in former years. Farm produce is in good demand and prices are high. Hay is \$12 a ton; butter, 30a a lb: ergs, 40e a dozen; butter, 30a lb: ergs, 40e a dozen; butter, and local dealers are having their supplies shipped in from other parts. Horses are not in much demand. The few that are changing hands command rather high ands command rather high ands command rather high ands command rather high hands command rather high ands command rather high and some properties of the state of the s prices. Farmers are cleaning and prepar-ing their seed grain and grass seed for the coming season. It is to be hoped they will be well rewarded for their trouble. —F. R. B. are changing hands command rather high

THUNDER BAY DISTRICT, ONT.

SLATE RIVER VALLEY.—The much-needed rural telephone system with city needed rural telephone system connections, is receiving the attention it connections, amongst farmers. Meetings connections, is receiving the attention it well descrives amongst farmers. Meetings are being held to complete organization, and we trust they will result in an up-toare being held to complete organization, and we trust they will result in an up-local and we trust they will result in an up-local and we trust they will result in a up-local and a second a sec on farm topics, etc., conducted during the winter months. As this section is dis-tant from any of the colleges it is diffi-

HOGS

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

THIS WEEK'S PRICES FOR HOGS DELIVERED AT FACTORY

\$7.00 a Cwt. FOR HOGS WEIGHING 160 TO 220 LBS.

THE GEO. MATTHEWS CO., LIMITED

PETERBOROUGH.

HULL, BRANTFORD

sary training along these lines. Rural free mail delivery will possibly be the next matter to be taken up by our farmers.—

GOSSIP

Mr. John W. Todd, of Corinth, in sending in new copy for his advt, writes that his adversing in Farm and Dairy has the with the best results as less were the following: A pair of Tam-worths to Charles Osler, Cairo, Ont.; a gilt to P. J. Reddick, Moonsburg, Ont.; a Tam-worth boar to Jacob Ruffman, Miverton, and the control of the contr

W. H. Wilkinson, Springfield, Ont.; one hoar to John Tiddle, Grovesend, Ont.; a Berkshire sow to J. Huffman, Springfield,

Ont.

William Cooper & Nephews: In response
to your inquiry re Cooper's Fluid Dip,
would say that I have used it on my cattle with the best results, and can recommend it to my fellow stockmen as a vermin killer, likewise a disinfectant. I
have also used it for scratches or grease
heels on horses and find it to be entirely
satisfactory, and I fully believe the pre
satisfactory, and I fully believe the pre
farmers of Canada (Bigned) A. Dudley
Alton, Applieby, Ont.





PETER HAMILTON **Gorn** and Straw Cutters

are the safest, strongest, easi to operate and best cutters made.

PLOWS

Farmers everywhere testify to the splendid work of our plows

Better Get One Send for Catalogue.

The Peter Hamilton Co.

Peterborough, Ontario

desirable to mention the name of this publication when writing to adver-

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ing or May w Patten sold the week t wheat in the ma, no permai game der to is no o two ha mate v ket. H ket. E the slu general report and the an imperop.
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Argenti bear' there v and spe get for Dealers to \$1.07,

The of week, to owing to prevaile however values. quoted Dealers side and ket here but stea week's ers here side and market. 98c½ to side.

There for mill bran an sell bran compani demand treal Ms horts a here repshorts asside. The vance. treal at here. Deto 70c 7 barley is a bush.

ed sitt feeling i seem to A great colored a weed see pose of re-cleane \$5.50 to \$ timothy; as to qui of 50 lbs

The ha

MARKET REVIEW AND FORECAST

Toronto, Monday, March ét. — General trade continues fair for this season. A good volume of baddiefor this season. A good volume of baddiefor this season. A good volume of baddiefor this season when the roads are breaking up also rules fair, especially as this is the season when the roads are breaking up the season when the roads are breaking up to the season when the roads are breaking up to the season when the roads are breaking up to the season when the roads are breaking up to the season when the roads are breaking up to the season when the roads are breaking up to the season when the roads are breaking up to the season when the roads are breaking up to the season when the roads are breaking to the season when the roads are breaking to the season when the roads are the season when the roads are the season when the season when the roads are the road

on good security. Suscession on Commercial paper continue at 6 to 7 per cent.

The week has been a somewhat exciting one in wheat circles. A week ago May wheat was shoved up to \$1.20 by the Patten crowd in Chicago, and cash where the patten crowd in Chicago, and cash where week there at \$1.55. At the end of lasty week there at \$1.55. At the end of lasty week there at \$1.55. At the end of lasty week there are somewhat of a dilemma, not knowing whether this drop is a great where the some somewhat of a dilemma, not knowing whether this drop is a great whether the same the some of merely part of the rame the special part of the same the same the special part of the same the same the same that Dealers bere quote Ontario wheat at \$1.07 to \$1.06 outside, and fall wheat \$1.06 to \$1.07, and goose at \$1.01 to \$1.02 on the Toronto farmers' market.

Toronto farmery market.

COARSE GRAINS
The oat market has ruled steady all week, though at the end of the week, owing to larger receipts, an easier tone between the control of the contro week's quotations. Malting barley is quoted at Montreal at 55% to 55c. Deal-ers here quote barley at 55% to 56c out-side and 50c to 52c on Toronto farmers' market. Peas are quoted at Montreal at 58c% to 59c, and here at 92% to 55c out-side.

There is not much change in the market for mill feeds. Millers are still short of bran and are reported to be refusing to sell bran to dealers unless the order is accompanied by a large order for four. The companied by a large order for four. The strength of the self-strength of th FEEDS

a bush. There are no new developments in the seed situation. Dealers report a quiet feeling in the market and there does not seem to be much competition in buying. A great deal of the seed offering is badly seed to be seed of the seed offering is badly seed. A great deal of the seed offering is badly seed seeds, which makes it hard to dispose of in Canada. Dealers here quote re-cleaned seed at \$7.75 to \$2.55 for alsike: timeday: \$8.75 to \$2.55 for alsike: timeday: \$8.75 to \$2.55 for also \$1.55 to \$2.55 for timeday. \$8.75 to \$2.55 for also \$1.55 to \$2.55 for timeday. \$8.75 to \$2.55 for also \$1.55 to \$2.55 for timeday. \$8.75 to \$2.55 for also \$1.55 to \$2.55 for timeday. \$8.75 to \$2.55 for also \$1.55 to \$2.55 for timeday. \$8.75 to \$2.55 for also \$1.55 to \$2.55 for timeday. \$8.75 to \$2.55 for also \$1.55 to \$2.55 fo

The hay market shows little change. A falling off in receipts at Montreal has

Supplies of potatoes have been liberal during the week. Quebee potatoes are quoted at 70 to to 75c a bag in car lots at Montreal. Dealers here quote Ontario potatoes at 60c to 65c a bag in car lots here and 75c to 90c on the local farmers' market.

market.

There is not much doing in beans, as shippers are, it is claimed, holding prices at too high a figure to do business. Ran-goon beans, though not of as good quality as Canadian least, can be brought in at a much lower price and help to take the business. The state of the control of the business of the control of the control of the business of the control of the business of the control of the

EGGS AND POULTRY

EGGS AND POULTRY
The rougher weather has lessened receipts of eggs at Montreal and new-laid are quoted a little higher at 70 to 28 in are quoted a little higher at 70 to 128 in receipts of eggs arrived the A. car of American eggs arrived the hought at Chos, it is reported, can be hought at Chos, it is reported, can be hought at Chos, and Freight or express charges added, can be laid dwn there at 25% to 27c a dox. The laid dwn there at 25% to 27c a dox. The receipts and are steady, under liberal receipts and are steady, under liberal quote new-laid in case lots at 25c to 27c a dox. On Toronto farmers' market new-laid.

quote new-laid in case lots at 26c to 26c a doc. On Toronto farmers' market new-laid sell at 30c to 36c a doc.

10c and the control of the co

MAPLE PRODUCTS

Some business is doing in maple products at Montreal. Maple sugar is quoted at 6/5c to 7c a lb. Dealers in the country who hold sugar are offering it at 6 f.o.b. Old syrup is selling there at 5c to 4c a lb.

DAIRY PRODUCTS

The cheese market rules strong and a The cheese market ruces strong and a good wind up to the season's business is expected. Colored cheese has sold at Montreal during the week at 13 3-16c a lb. Dealers here quote cheese firm at 13%c to 13%c for large and 13%c to 14c a lb. for

The contract of the contract o

HORSE MARKET

There is increasing activity in the horse market. At the Horse Krehnage, Union Stock Yards, hast week, there were warmed to the horse of the warmer was the horse of the warmer warmer. As the warmer icreasing activity in the horse

horses last year at the exchange, and was so well pleased with the treatment he received that he intends in future to buy all his horses there. This is why the business is steadily growing. There are other adtime stabiling is of the best. Horses are the stabiling in the stabiling in the stabiling is stabiling in the stabiling in the stabiling in the stabiling is stabiling in the stabiling in the stabiling in the stabiling is stabiling in the stabiling in the stabiling is stabiling in the stabiling in the stabiling in the stabiling is stabiling in the stabiling in the stabiling in the stabiling is stabiling in the stabiling in the stabiling in the stabiling is stabiling in the sta

UNION STOCK YARD PRICES

UNION STOCK YARD PRICES
West Toronto, Monday, March & -There
was a light run at the Union Stock Yards,
35 cars in all, consisting of 1716 cattle, 135
cars read, consisting of 1716 cattle, 135
calres, 45 sheep and 7 hogs. Choice exat \$430 to 250 to \$8.00 good exports
at \$430 to 250 to \$8.00 good exports
buils, \$4 to \$450 to \$4.00 to \$55
export buils, \$4 to \$4.50 to \$4.00 to \$55
export buils, \$4 to \$4.50 to \$4.00 to \$55
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LIVE STOCK

LIVE STOCK

Recoipts at the cattle markets during the
weak have been fair. Trade also was fair
considering the quality of the also
cattle offering. Drovers had paid too
much for some of this light weight stuff
in the country and consequently business
holding has as little draggy, drovers
holding has as little draggy, drovers
own out of their he hope of getting their
own out of their he hope of getting their
own out of their land was brisk
choice cattle trade was brisk
week. Taking it altogether the week's
operations were on a fair bast in nearly
every line of live stock.

The export market showed some signs of improvement towards the end of the weak improvement towards the end of the weak improvement towards the end of the weak over conditions a week ago, though the number of export segres of a special segres of the end The export market showed some signs of

this quote active. London cables of Marchith the control of the site of the ab dressed with the control of the

Choice veal cattle are in demand.

Choice weal cattle are in demand. On the control of the control of

in the control of the

Windsor Dairy Salt —the Buttermakers' thorfavouroughly. ite, No lumps or grittiness.

MONTREAL HOG MARKET

MONTREAL HOG MARKET

Montreal, Saturday, March 6.—Our market
host register of the logs registered a slight advance in the logs registered a slight advance in the log registered wing to a shortage in supplies duried from the highest
up about 25c a cwt. from the highest
quotation ruling last week. The bulk of
the offerings were quickly cleared at
\$750, to \$752, a cwt. for selected lots
\$750, to \$752, a cwt. for selected lots
as the roads in some part moprary one,
with the shipments. There is no change
in the quotations for dressed stock. Trade
has been good, and prices for fresh kill.
\$150, and the stock range from \$10.25 to
\$150, and \$15

EXPORT BUTTER AND CHEESE

EXPORT BUTTER AND CHEESE
Montreal, Saturday, March 6th—Orders
for cheese in small quantities keep coming
for the stock in Chee
beginning of the
month the stock in Chee
both and the stock in Chee
both and the stock in Chee
both and the stock in Chee
for the stock
for the

VINEMOUNT CREAMERY FOR SALE

VINEMOUNT CREAMERY FOR SALE
Thomas Burrows, Auctioneer, will
sell under Mortgage, the Vinemount
Creamery, otherwise known as the
Vinemount Butter and Cheese Pactermount Butter and Separators,
and the Cheese PacBuildings cement-concrete, with
modern pasteuriser and separators,
Buildings cement-concrete, with
modern pasteuriser and separators,
There is a generators of the Cheese
Packet Packet Packet
William William William
There is a generators of the Cheese
Th

Dated, 5th March, 1909.

CHISHOLM & LOGIE,
Solicitors.
Hamilton.

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AYRSHIRES

JAS BEGG, ST. THOMAS, AYRSHIRES, Standard for

DAVID A. MACFARLANE, Kelso, Que milkers, good testers and good lookers Several young bulls for sale; prices

SUNNYSIDE AYRSHIRES

Have been bred and imported with a view to combine quality with production. The herd contains some noted winners. Nether Hall Goodtime (Imported) now heads the herd. Young stock for sale.

J. W. LOGAN, Howick Station, Que.

AYRSHIRES FOR SALE

fine lot of young bulls and calves; the famous stock bull, "Not Likely of Annes, 19740." Come and see his off-ing. Also Shetland ponies and York-Ste.

> D. BODDEN, Manager, Riverside Farm, Montebello, Que

Hon. W. Owens, proprietor. 0-6-16-09 RAVENSDALE STOCK FARM



0-5-19-09

and Yorkshires

W. F. KAY, Philipsburg, Que.

BURNSIDE AYRSHIRES

Are in such demand I will make another importation, Will attend great dispersion sale of the world renowned Hardensie Herd of Mr. And. Mitchell, nowned Hardensie Herd of Mr. And. Mitchell, or the state of the st

HUME FARM AYRSHIRES

On hand young buils for service. Several vary choice Angust, 1908, also helfers in oalf, young cows, and cows any desired age. Family cows a specialty. Orders booked for Yorkshire pigs, orders for importing Ayrshires solicited. Phone in residence. Hoards Station, G. T. B.

ALEX. HUME & CO., Menie P.O.

STONEYCROFT STOCK FARM Harold M. Morgan, prop., Ste. Anne de Sellevue. Choice young Arrehire Bulls and heifers for sale. Yorkshire pigs from mported Sires and Dams, February and farch litters. Largest selection. High-st quality. Write for prices. est quality.

E 5-26-09 E. W. BJORKELAND, Manager.

STONEHOUSE STOCK FARM



0.8.4.69 Howick, Que

AYRSHIRE CALVES FOR SALE

RECORD OF PERFORMANCE COWS

PRICE: -\$35 when one month old sire, head of herd.

GUS. LANGELIER

FOR SALE — THE AVRSHIRE BULL,
"Togo" 1993, of Ste. Annes breeding, Also
two bulls, one year old sired by Togo,
and from deep milking females. Other
young stock for sale. Write for prices.
P. A. Beaudoin, 107 St. James street,
Montreal, Que.

SPRINGBROOK AYRSHIRES

are large producer of milk, testing high in butter fa Young stock for sale A few choice bull calves of 1908 ready to ship. Prices right. Write or call of e-4-1-09 W.F. Stephen, Huntingdon, Que.

NEIDPATH AYRSHIRES

Bull Calves dropped this spring. By imported Bull. First prize Toronto, Ottawa, and Halifax. Long distance phone e-3-25-09 W. W. BALLANTYNE, Stratford, Ont.



LAKESIDE STOCK FARM

GEO. H. MONTGOMERY Philipsburg, Que.

SPRINGHILL AYRSHIRES

Imported and home bred stock of a ages for sale. See our stock at the leading shows this fall. Write for prices.

ROBT. HUNTER & SONS

Maxville, Ont. E 6-23-05 Long distance phone.

HOLSTEINS

FOR SALE-30 HEAD of HOLSTEINS If you are wanting a choice young cow or eifer it will pay you to write me before making pursulection or better come and pick them out.

GORDON H. MANHARD E-5-09 Manhard P.O., Leeds Co., Ont. 7 miles sorth of Brockville on C.P.R. (Clark's Crossing)

FOR SALE

The richly bred bull Hengerveld De Kol Keyes No. 559, Vol. 8. Is 4 yrs. old. His name indicates his breeding. He is gentle and ame indicates his breeding. He is gentle attaight of the property way, beautifully marked, straight best bred bulls in the straight best bred bulls in the price \$150 to a quick buyer. Also young calves, both sexes, stred by Duchland Sir calves, both sexes, stred by Duchland Sir Land Bulls and Sir College and Sir College and Sir College Bulls dished the Sir College and Sir College and Sir College and Sir College College and Sir College and Sir

A. D. FOSTER, Bloomfield, Ont.

LYNDALE HOLSTEINS ROCK SALT for Horses and cattle, in tons and Head your Heid ara Hengerveld Ko am was recently is 3 nearest dams

sara Hengerveid Korndyke whose dam was recently sold for \$2,000, his 3 nearest dams average 29,12 lbs, butter each in 7 days. Only 2 of his sons left. We still have a few sons of Count DeKol Petertje number of Heifers he Paul, and a BROWN BROS, LYN, ONT.

SPRINGBROOK HOLSTEINS

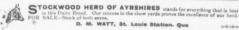
A. C. HALLMAN, Breslau, Out.

HOLSTEINS



H. E. GEORGE, CRAMPTON, ONT.

Cap Rouge, Que. Putnam Stn., 1% miles-C. P. R.





Union Stock Yards Horse Exchange, West Toronto Our Annual Auction Sale of Registered Clydesdales March 22, 1909

March 22, 1909

Imported and Canadian Fred Marca and Stallions, till ages, will be offered. Anyone having entries for this tale if requested to send in full particulars at once and get full information by return mail from us how the sale will be handled.

Auction Sales of Milk Cows.—At the request of a number of Drovers, Dairymen, Farmers and others we have started a Weekly Auction Sale of Milk Cows which will be held every own to us for quick can hale.

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

Well DRILLING Summer MACHINES

WILLIAMS BROS., Ithaca, N. Y.

GREAT IRISH CATTLE SHOW

ROYAL DUBLIN SOCIETY



SPRING SHOW 1909 at Ball's Bridge, Dunlin April 20th to 23rd The largest collection of Pure Bred Bulls at any Show in the United King-dom. Auction Sales of Cattle held on the premises. For parti-culars apply to the—

Agricultural Superintendent Leinster House, Dublin, Ireland

dom. There are a few Eastern cheese about that could be picked up at 12c to 12½c but the supply of this grade is small.

The butter market has been dull and dragging all through the week. The trade as the grown as had to mouth character as the grown as however, and a considerable quantity is offering at from 16c to 17c. There is a large quantity here, and it is meeting with a very slow demand.



Toronto Salt Works, Toronto.

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

SPECIAL SALE.—White Wyandotte pullets one fifty each. Eggs from prize winning pens, two dollars setting. Poultry grit, sixty cents hundred.—Highland Park Poultry Yards, Westboro, Ont.

FOR SALE.—A Fairbanks two-horse power gasoline engine, and a Clipper grain cleaner, with travelling brushes, cheap, Write for particulars. The Chase Bros. Company, Colborne, Ont.

WANTED — Four experienced men (Scotch preferred) on a dairy and stock farm. Must be good milkers and teamsters . Ap-ply, stating wages wanted, to Box G, Farm and Dairy.

FARM HANDS.—Good, experienced. Wants situation on farm; good horse and cattle man; experienced in fruit farming; reli-able and trustworthy; age 35. Box A, Farm and Dairy.

FARM HAND wants work Seven year experience; strictly temperate; stat wages. Box B, Farm and Duiry.

FARM HAND WANTED — Young Scotch-man preferred: month's trial, and if satisfactory, wil hire by year. Box C, Farm and Dairy.

MISCELLANEOUS

JOS. FEATHERSTONE & SON, Streetsvil arge Yorkshire Hogs for sale, R. H. HARDING, Maplview Farm, Thorndale, Corset Sheep a specialty. Telephone. E-3-17-09

J.A. GOYENLOCK, Forest, Ont., Herefords, Canada greatest winners. Toronto and London, 1907-1908 Stock, all ages, for sale. HARRISON BROS., Mt. Albert, Hereford cattle, Oxford Down sheep. Stock for sale at all times, e-5-23-00

AYRSHIRE NEWS

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

AYRSHIRE BREEDERS' ASSOCIATION

The 34th annual meeting of the Ayr-shire Breeders' Association was held at the Manhattan Hotel, New York, on Feb-ruary 3rd, 1909, with about 50 members and ers present.

value and poly, with about 50 members and the property of the secretary showed remarkable gains in official tests of Arrishire cows and heifers, the result of the Advanced Registry Tests inaugurated a few years ago. The testing the past one of the property of the proper

Bryn Mawr, Pa. Jonnie of Sandhill, as a three year old, gave 10,50 lbs. of milk and 50 lbs. of butter, owned by S. S. Karr & Sons, Almond, N. Y. Madonua Lass 3rd gave as a three year Madonua Lass 3rd gave as a three year owned by Lbs. of milk, and 500 lbs. butter, owned by Lbs. A. Beynam, Wheeling, West Virginia.

irginia

Baby Douglas as a two year old gave 9,662 lbs. milk and 440 lbs. of butter, owned by L. A. Reymann, Wheeling, West Vir-ginia.

The Association voted \$300.00 each as special premiums for Ayrshires shown in the ring at the Alaska-Yukon-Pacific Exposition, and the National Dairy Show for this fall.

The officers elected for the ensuing year were: E. J. Fletcher, Greenfield, N. H., The officers elected for the ensuing year were: E. J. Fletcher, Greenheld, N. H., president; J. F. Converse, Wootville, N. S., vice-president; J. F. Converse, Wootville, N. S., vice-president; George E. Pike, Gouvreneur, N. X., vice-president; J. W. Olfse, Scattle, Washington, vice-president; J. A. Ness, Auburn, Maine, vice-president; J. A. Ness, Auburn, Mande, Vice-president; J. A. Ness, Auburn, M. Handon, V. Serdander, V. S. B. Chand, Avon, N. Y. E. Schande, Avon, N. Y. Excutive S. W. E. Schande, Avon, N. Y. Excutive Grand Cook, Beford for three years; Howard Cook, Beford for three years; Anditor, disc. H. Yeaton. A banquet with 44 covers was served after the meeting.

Brandon,

GOSSIP

WELL-DRILLING MACHINERY

WELL-DRILLING MACHINERY
Williams Bros., Ithaca, N. Y., the wellknown well-drilling machinery firm, have
just published for gratuitous distribution
a catalogue illustrating and describing
over seventy styles and sizes of machines
for drilling, sither deap or shelps wells. over seventy styles and sizes of machines for drilling either deep or shallow wells, in any kind of soil or rock. The drilling in any kind of soil or rock. The drilling machines made by this company contain all the latest and best improvements guaranteed to be strong, simple and durable, and are easily operated. For drilling wells for houses and barns, and in groups for coal, gas, oil, etc., they who are about equal. It will pay those who are about equal. It will pay those who are about a strong the strong of drilling wells of strong medinary to write for a copy of this catalogue.

REMEDY FOR LICE AND TICKS
Messrs. Wm. Cooper & Nephews:
In replying, I received your sample of
Fluid, which I have tried on aheep for
ticks, and for liee on calves, and it is and
each to them. I recommend it to all farmers and sheep breeders. I will send to mers and sheep breeders. I will send you an order as soon as my supply runs out. —(8gd.) James Bryson, Brysonville, Que.

Took Spavin Off and will Cure Fistula
I have had a horse with fistula on
withers for two years. Will Gombauli's
Caustic Balsam cure it? (Yes.—L. W. Co.)
I took a bone papvin as large as a here's
egg off the same horse with your Balsam
some years ago; no blemish nor lameness
since.—PETER DOBSON, Redwing, Ont.

BERKSHIRES AND TAMWORTHS
to brend, by imported sire. Choice Tamworths, all farm papers as well, but can find none price to great papers as well, but can find none price to great part and Dairy. We are getting a few other farm papers as well, but can find none price to great part and Dairy. I intend to get some new subscribers for it in the summer and thus earn some pigs.—D. W. McOrizmon, Glengarry Co., Ont.

Shoe Boils, Capped Hock, Bursitis are hard to cure, yet BSORBINE

W. F. YOUNG, P.D.F., 123 Monmouth St., Springfield, Mass.

-WANTED-

If you want to sell property which you on the U. S. or Can-FARM of a busin ada, such as a FARM of a busin ada, such as a sew successful plan of selling di BUY American Investment Association A SELL

WINDMILLS



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every engine. What more? With the above advantages we can MEET ALL COMPETITION Ont. Wind Engine & Pump Co., Ltd.

TORONTO

VENTILATION

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This is a new book tissued December 1989, which treats in a concise, practical way, the question of Ventilation in all tentilates. It shows the necessity of the concept of the control of the control the control of the control travings never before used. Special chapters are given on the ventilation of chapters are given on the ventilation of the heatings we and those already built, the heatings we are three to see the control school - houses and churches, and of stables, poultry houses, etc. Send for a cony.

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Is the Esseno SIMPLICITY

HOLSTEIN-FRIESIAN NEWS

The Canadian Dairyman and Farming World is the official organ of The Canadian Holstein-Frieslan Association, all of whose members are readers of the paper. Members of the Association are invited to send items of interest to Holstein breaders for publication in this column.

HOLSTEIN-FRIESIAN OFFICIAL TESTS FOR JANUARY, 1909.

Idaline Pauline De Kol (10083) at 8 y. 2 m. 16 d. of age, 17.17 lbs. butter fat, equivalent to 20.00 lbs. butter; milk 534.5 lbs. Owned by George Rice, Tillsonburg.

Flora Wayne Sarcastic (6316) at 3 y. 10 m. 6 d. of age, 16.77 lbs. of butter fat, equivalent to 19.57 lbs. butter; milk, 447.7 lbs. Owned by David Caughell, Yarmouth Centre, Ont.

equivalent to 1957 hbs butter: milk, 497,7 hbs. Owned by David Caughell, Yarmouth Centre, Ont.
Pride Marguerite 2nd (7432) at 5 y. 5 m. Pride Marguerite 2nd (7432) at 5 y. 5 m. Pride Marguerite 2nd (7432) at 5 y. 5 m. Pride Marguerite 2nd (7432) at 5 y. 5 m. Pride Novel 19 hbs. David Caughell 19 hbs. David Caughell 19 hbs. David Caughell 19 hbs. Owned by M. H. Haley, Springford, Ont. Queen Be Marguerite 19 hbs. Owned by M. H. Haley, Springford, Ont. Queen's Butter Girl (835) at 2 y. 11 m. 4 d. of age, 10.53 hbs. butter fat, equivalent to 12.93 hbs. butter; milk, 327.0 hbs. Owned by M. David Caughell 19 hbs. Owned 19 hbs. David Caughell 19 hbs. Owned 19 hbs. butter; milk 230.1 bbs. Owned 19 hbs. butter; milk 230.1 bbs. butter fat, equivalent to 1.64 hbs. butter; milk 230.2 bbs. butter fat, Calanity Starlight Butter Girl (19065) hbs. butter; milk 230.0 hbs. butter; milk 230.0 hbs. butter fat, equivalent d. of age, 5.40 hbs. butter; milk, 230.0 hbs. butter; milk, 230.0 hbs. butter; milk, 230.0 hbs. Owned by George Rice, Tillsonburg, Ont.

Calanity Starlight Butter Girl (19065) act 2 y. 11 m. Edith Anthony 2nd (19859) at 2 y. 11 m.

Ont.

Edith Anthony 2nd (10359) at 2 y. 11 mp.
12 d. of age, 8.10 lbs. butter fat equivalent
to 9.45 lbs. butter; milk, 275.5 lbs. Owned
by George Rice, Tillsonburg, Ont.—G. W.

GASOLINE ENGINES COW TRANSFERS FOR JANUARY, 1909. The publication of these transfers is paid for by the Holstein Friesian Breeders

Lida Posch, Logan Bros., to W. LeRoy Ferguson, Sussex, N. B. Lilly Acme 2nd, W. H. Hawse to Isaiah A. Parker, Toledo, Ont. Lilly De Kol Victoria, Estate of Wm. Cleland to Robert A. Cleland, Listowel, Ont.

Lily Witzyde, Delorma Patterson to J. Lily Witzyde, Delorma Patterson to J. I. Arnold, Easton's Corners, Ont. Lucy Bell, William T. Bell to Walter L. Vilson, Willettsholme, Ont. Lucy Sweep De Kol, William T. Bell to Lucy Sweep De Kol, William T. Bell to Lula Cornucch Willetsholme, Ont. Lula Cornucch Services Statement Corners, Dat.

Luia Cornucopia De Kolt J. A. Caskey to William Pollock, Wellham's Corners, Ont.

Maid of Killarney 2nd. Edgar Bureh to Arthur Mitchell, Renton, Ont.

Maid of Killarney 2nd. Edgar Bureh to Arthur Mitchell, Renton, Ont.

May Gogna Bros. to W. Lelkoy Ferguson, State of Control of Marida Paul De Kol. Edman Brown to Marida Paul De Kol. Edman Brown to Marida Paul De Kol. Edman Brown to May Bell W., Gordon H. Manhard to J. Sheridan, Toronto, Ont.

May Bell W., Gordon H. Manhard to J. Sheridan, Toronto, Ont.

May Flower Dell, Charles Willoughby to May Flower Dell, Charles Willoughby Corner, Esson's Corners, Ont.

May Flower, Easton's Corners, Ont.

May Flower, Easton's Corners, Ont.

Meschildle Pauline De Kol. Matt. Rich.

Mechildle Pauline De Kol. Matt. Rich.

Mechildle Pauline De Kol. D. Jones, Jr. to B. J. Boshe, Downs, Fr. Caledonia, Ont.

Mercenia Daisy Banks, Elias A. Smith to Harvey J. Singer, Otterville, Ont.

Mina Ashania, Que.

Mina Sale Shane, Que. D. Jones, Jr. to A. Lamb, Nelles Corners, Ont.

Mina May Flower, Control of Market, Control of Market, Mina Market, Marke

THE

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There's Truest Economy in choosing

"EASTLAKE" METALLIC SHINGLES

They last indefinitely. Are fire, lightning, rust and leak-proof.

Fit together perfectly by means of their special patented side lock, can't possibly work apart.

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Galvanized "Eastlakes" are heavily coated on BOTH sides with all the galvanizing material that will adhere to them.

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Write and let us give you further information.

WESTERN CANADA FACTORY, 797 NOTRE DAME ST., WINNIPEG, MAN.

Champion Evaporators Make Better Syrup

DON'T rave at your luck if the other fellow gets more out of his Maple Grove than you do. Every day you try to make syrup without a Champion Evaporator you are a Champion Evaporator you are a corrugated botton, which do has a corrugated botton, which do has a corrugated botton, with do more work for its size than any other form of Evaporator. It finishes the syrup that the control of Evaporator. It finishes the STREE or the corrugated by the corrugated by the corrugated by the corrugated botton will do more form of Evaporator. It finishes the syrup that the corrugated by the corrug



"Champion" Evaporator

THE GRIMM MFG. CO. 58 WELLINGTON ST., MONTREAL

Less Better' Crops s Work

THE BISSELL STEEL

ut this ro T. E. BISSELL CO. Ltd., Elora, Ont.

Our readers say that our Magazine Numbers are of excellent value to them. The next one will be our

DAIRY NUMBER

Out April 8th. Advertisers should send special copy for that issue.

Forms Close March 30th

FARMS, HOUSES AND LOTS For Farms, Houses, Lots FOR SALE BLEWETT & MIDDLETON, BELL AN 421 George St., Peterboro. 376 Water Street

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Write for a free copy of our New Catalogue of Dairy and Farm Books. A post card will bring it. Address—

Ontario

O much depends on the condition of the soil and the way seed is of much depends on the condition of the soil and the way seed is put into the ground that drills are among the most important machines on the farm.

The Deering line, consisting of disk and hoe drills, have long been popular with Eastern Canadian farmers. They are prized for the excel-lent work they do. Each is admittedly a leader in its class.

Choice between these two machines depends in a large degree upon soil conditions. The hoe drill is better for sandy soil and rooty and

soft continuous. I the five unit is occur for samp son and roop seed.

Both have a double run force feed which insures an even distribution of seed. The amount of seed being sown can be accurately regulated and just the right amount will be deposited.

Both the disks and hoes cut into the soil to the proper depth. The seed is deposited at the bottom of the furrow and it is always covered the side deposit.

right depth.

Each drill is equipped with grass seeding attachment. Each has strong wheels and staunch frame which cannot be wrenched out of line to cause poor working of the feeds. Each has ample clearance for trash.

The Deering one-horse broadcast seeder, with 50-inch, broad tired wheels, force feed and safety grain spout, sows dependably any quantity of seed desired net acre.

per acre.

The Deering line of spring tooth, disk and smoothing harrows, acufflers, cultivators and land rollers are all deserving of a place on the rightly equipped farm.

Local agents throughout Eastern Canada will gladly supply all needed information on Deering seeding machines and tillage implements. Call on them write nearest branch house for catalog.

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Lands are offered for settlement in some cases FREE, in others at 50 CENTS per acre, in various districts

Write for information as to terms, homestead regulations, special rail-

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Renew Your Subscription Now.

Owing to the rapid increase in the export business of The Page Wire Fence Co., of Walkerville, Ontario, since the introduc-tion of its "Empire" white fencing for railway, farm and ranch use, it has been thought best to have the foreign business handled by a company of a name similar a greater degree of as much freedom of to that of the fending, and to this end action. security and convenience as the Empire Fence Export Company, Limit Crumb's Warriner Chain Hangling ed, has been formed. It is owned and Stanchion.

controlled by the same people as the old company. The head office and factory will be at Walkerville, Ontario.

Every Safe Lock Shingle is made to meet the rigid requirements of the Brit Sovernment for Admiral and other Public Ser



HE British Government requires all galvanized steel roofing for Admiralty or other public work to be of specific grade and to be capable of withstanding a certain acid

test. certain acid test.

The acids used for this purpose are strong enough to burn the skin off a man's hand, and yet the galvanizing must be heavy enough to withstand their action for a definite period.

Exposure to wind, rain and snow for a quarter of a century is much be desirable than this paid to the state of the st

less destructive than this acid test

Yet every Safe Lock shingle is guaranteed to meet the Government require-ment in this and all other respects. No wonder that those who have used Safe Lock Shingles declare that they

will last as long as the buildings they

Safe Lock Shingles are the only shingles that actually lock on all four sides so that they cannot pull apart. Shingles which do not lock on four sides are not Safe Lock Shingles. Again: Safe Lock Shingles are the

only shingles that completely protect the roofing nails from weather.

The only shingles that have three thicknesses of steel along the upper edge of lock, thereby doubling the strength along the line of greatest

-The only shingle galvanized after the sheets have been accurately cut

to proper size for Safe Lock Shingles.

—The only shingle with galvanized

edges.

—The only shingle sold with a po —The only shingle sold with a posi-tive protective guaranty against light-ning, backed up by a free insurance policy signed and sealed by the manu-facturers, the Metal Shingle & Siding Company, a \$200,000.00 Canadian cor-

Every Canadian farmer who expects to put up a new barn or house or to re-roof old buildings is directly interested in this extraordinary free

Think of it! A straight-out lightning insurance policy free from con-ditions of any kind. It is the most liberal roofing offer ever made to Canadian farmers.

adian farmers.

Insurance records show that one-half the fire losses on barns in Canada result from lightning. The property loss in these cases amounts to many thousands of dollars every year.

Safe Lock Shingles have been on the market for more than ten years, and in all that time no building cov-ered with them has ever been harmed

by lightning.

This proves to us that Safe Lock roofing is a positive guaranty against

Anyway, we are willing to show our faith in Safe Lock Shingles and will protect you from lightning without one cent additional cost to you, directly or indirectly.

Safe Lock Shingles are sold at the same price as shingles known to be inferior in quality of steel, galvanizing

inferior in quality of steet, galvanning and construction.

Safe Lock Shingles lock positively and securely on all four sides. They cannot be blown off, nor can they be pulled apart through the warping of the sheeting, or in any other way.

And remember this—
No other shingle is a Safe Lock Shingle.

Shingle.

Safe Lock Shingles can be found in every part of the Dominion of Canada where they have been subject to storms of all degrees

of severity.

No building covered with
Safe Lock Shingles has ever
been unroofed.

We want you to know what some of the users of Safe Lock Shingles say of them

R. T. McLAUGHLIN, Fair View Farm, Alba, Ont.—"The 'Safe Lock' makes your shingles absolutely wind and water proof. They are the best shingles on the market to-day."

F. B. DOUD, Branchton, Ont.—"The Galvanized Steel roof is apparently as good as when put on in 1898. The 'Safe Lock' Sbingles make a lasting, storn-tight roof, and give clean cistern water. "I am satisfied that I put on a good roof."

W. J. McPHERSON, Berryton, Ont,—"The 'Safe Lock' Shingles that I purchased from you ten years ago have given splendid satisfaction. The roof has never leaked a drop, and they seem to be just as good as the day they were put on."

good as the day they were put on.

J. C. PAYNE, Cayuga, Ont.—"It must be ten years now since I

bought the metal 'Safe Lock' Shingles, and up to this time I have no
reason to regret their purchase. We have had wooden roofs put on
reason to regret their purchase. bought the metal 'Safe Lock' Shingles, and up to this time I have no reason to regret their purchase. We have had wooden roofs not on since which are open in spots from the splitting and shrinkage of shingles. No difficulty, so far as I have noticed at least, has arisen with your Metal Shingles, and the roof seems compact and durable, the shingles have been able to see, I have seen no wear or injury to the shingles the ten years' use, and cannot see but that the roof is just as good to the years' use.

MURDOCK McKENZIE, Bear Line, Ont,—'The 'Safe Lock' Shingles have never given me any trouble, and they appear to be as good to-day as the day I put them on. I am well astisside with them, as I believe them to be the best roofing that can be used on barn building.'

GEO. HARDY, Ashgrove, Ont.—"It will be eight years in June since the barn was shingled. I never had any trouble with it in any way, and it appears to be as good as when put on. I have been recommending your shingles as the best that can be got."

recommending your shingles as the best that can be got.

MRS. JAMES STEWART, Pendleton, Ont.—'In reply to your
letter asking about shingles I bought from you over five years ago.
I looked the roof all over to-day, and they seem to be in as good
condition as when they were put on the roof. The shingles don't seem
to be any the worse for wear, and they will last for years.'

Sand to the control of the shinglest of the seem to be any the worse for wear, and they will last for years.'

Send to-day for our book, "The Truth about Roofing" and full details of our Fire Insurance Policy payable in cash if your Safe Lock Roof is damaged by lightning.

The Metal Shingle and Siding Co. Ltd.

Roofers to the Farmers of Canada Dover Street Factory, Preston, Ontario Branch Factory, Montreal

CUT OFF THIS COUPON AND MAIL TO US

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Give Ple	case send me your booklet "Truth about Roofing," with full particulars of
roof along ridge; also	I expect to build
distance from	Size of Roof. If interested in any other Metal Building Goods please state
we will send approximate	such fact here.
cost of a Safe Lock Root	
roof measuresft	in. P.O. Province. Province.

Only One Kind of Roof I Know of is Guaranteed for 25 Years.

O SHAWA Galvanized Steel Shingles make a roof that is not only guaranteed, under seal and with \$250,000 back of it-guaranteed to be and to remain a perfect roof for twenty-five years: It is the only roof I know of that is sure to be a good roof for a hundred years. It's steel, you see, to start with - heavy (28 guage) sheet steel of high quality. Can you imagine steel wearing out? -on a roof.

S TEEL'S only real foe is rust; but rust cannot get at the steel of an Oshawa-shingled roof, because every shingle is heavily galvanized on both sides-coated with a tin-andzinc smelter that perfectly

protects the steel against every form of rust .

THAT is why you will never need to paint an Oshawa-shingled roof; it doesn't need painting,. because the heavy galvanizing is a far better protection than paint could

ever be. Think what you save by putting on a roof that needn't be painted, and yet will be a good roof for a hundred years!

D ON'T imagine our guarantee is any mere form of words. It says, in plain English, that if any Oshawa-shingled roof, put on right, leaks, or is at all unsatisfactory within 25 years we will supply and put on a new roof free of all cost to you. Is that fair and square? Did you ever hear of another roof that had such a guarantee back of it?

ON'T get the idea, either, that cost is a big factor in roofing



really right. An Oshawa-shingled roof's first cost is no more than the cost of an ordinary wood-shingled roof! It's final cost is ten times less

ND lightning cannot damage a building covered with Oshawa Steel Shingles, because these insulate the building-the bolt may strike the structure, but it can't damage it. Such a roof is far, far, better insurance against lightning than any lightning rod system that ever was.

NYBODY who can use a hammer and snips (tinner's shears) can put these Oshawa Shingles on right -easily and quickly. They lock underneath, on all four sides, so that every nailhead is completely covered with galvanized steel and the whole surface hasn't a seam nor a crevice.

GALVANIZED STEEL SHINGLES

A new roof for nothing if they leak by 1934

than the cheapest wood-shingled roof! And an Oshawa-shingled roof is more than rain proof, more than snow-proof, more than wind-proof. It is not only an absolute insurance against leaks, but it is an insurance against fire and against lightning! Is that worth considering?

OF course you know that flying sparks or red hot embers couldn't possibly set fire to a roof covered with one seamless sheet of steel. That one fact alone makes an Oshawa-shingled roof earn money, because such a roof gets you a lessened fire-risk premium on any build-

SUM it all up—a roof that costs one-tenth what cheapest wooden shingles cost; a roof that is absolutely weatherproof, fire-proof, lightning-proof; a roof that is guaranteed to be a perfect roof for 25 years (or a new roof for nothing)sum it all up-wouldn't

it be wise for you to send to-day for the booklet that tells why YOU should roof right? Just send a postcard to-day to our nearest warehouse.

Ask for Roofing Right Booklet No. 9.

PEDLAR PRODUCTS include every kind of sheet metal building materials—too many items to even mention here. You can have a catalog-estimatenere. 1ou can have a catalog—estimate— prices—advice—just for the asking. We'd like especially to interest you in our Art Steel Ceilings and Side Walls—they are a revelation to many people. More than 2,000 designs. May we send you pictures of some of them?

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