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\$1.00 A YEAR

# e CANADIAN DAIRYM

# FARMING WORLD

· PETERBORO, ONT

Chief MARCh 18, 1908



While the collecting of eggs furnishes great fun for the boys and girls the price of eggs is lowered by the practice of letting the hens lay "any old place." The Danes make large money from poultry and eggs Their eggs are marketed promptly and are numbered. It, thus, is easy to tell where the bad eggs come from.

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SANADIAN GOUNTRY LIFE

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[Rural Free Delivery Question

Ed. The Dairyman and Farming World:—I was very pleased to see the amalgamation of The Canadian Dairy-man and The Farming World cele brated (as it were) by such a seasonbrated (as it were) by such a season-able topic, from the farmer's point of view, as rural free mail delivery. This is a live subject and worthy the care-ful consideration of every farmer and every politician as well whose aim it of money are spent to educate the people. Why not spend some along this line? We are told that about 70 per cent. of the Government tax comes from the farm. What do we get in return for it?

comes from the farm. What do we set in return for it?

In most cities the mail is carried twice daily to each door direct. The farmer has to drive several miles for his mail or go without.

Apart from the great educational feature that is bound to spread with rural free mail delivery, my conviction is that the increase in postal revenue would go a long way to meet the increased outlow. Along with the increased outlow. Along with the increased outlow. Along with risk would provide the problem of the increased outlow. Along with risk would rargely solve the problem of keeping the boys and girls on the farm. Too many farmers will hold up their hands in awe at the great expense that it would entail, but they are the farmers who do not realize the large amounts that are being spent by the Government through other channels that are of no benefit to the farmer. If the farmers would make rural free party politics, we would soon have rural free mail delivery.—R. H. Harding, Ont.

#### The New Combined Paper Much Appreciated

Appreciated
That the step taken by combining
The Canadian Dairyman and the
Farming World as one publication is
meeting with the hearty approval of
the readers of both papers is apparent
from the letters which we are receiving daily. Readers of The Canceiving daily. Readers of The Cannew household, poultry and horticultural departments are just what they
have ben waiting for, and are not slow
I letting us know that they appreciate
I letting us know that they appreciate have ben waiting for, and are not slow in letting us know that they appreciate the change which has been made. Those who have been taking The Farming World find that whereas formerly they received their paper only twice a month, or 24 copies of the paper a year, they now get a copy every week or 52 copies in a year. They are thus able to keep in touch with the market quotations, which is same thing were farmer; is creatly a semething were farmer; is creatly with the market quotations, which is something every farmer is greatly interested in. This is something they interested in. This is something they could not do with a semi-monthly publication. Our articles on free rural delivery are being followed with great interest. Read what some of publication. great interest. ir friends have to say regarding the

"Have just received the first copy of the new paper. You certainly deserve credit."—W. J. Stevenson, Oshawa, Ont.
"I have been a subscriber to the Farming World for some time. I am

The above are a few of the many letters we are receiving constantly supplies.

If you like the new combined paper, write and tell us so and give us some suggestions for improvement. We appreciate letters like the foregoing.

#### \$533,263 for Agriculture ! "

Out of total estimates brought own in the Ontario Legislature recoulty, of \$7,501,375.67, which will probably be increased by several hundred thousand dollars more, whea the supplementary estimates are pass-ed, agriculture gets \$533,263, in a direct grant, as compared with \$507, \$45.0 year. are.

453 a year ago.

The amounts for the chief branches of agriculture are as follows for 1907

and 1908:		
	1907	1908
Agr. and Hort. Societies \$	102.093	8107,837
The Live Stock Branch	28,682	25,900
Farmers' and Women's Inst.	27,816	29,772
Bureau of Industries	5,500	5,500
Dairying	57,650	55,550
Fruit, Vegetables etc	40,522	38,500
Miscellaneous	30,500	49,750
Ontario Agricultural College	pine.	
Salaries and Expenses	109,375	117,450
Macdonald Institute	33,250	33,990
Forestry	4,000	4,500
Animal Husbandry, The Far		
and Exper. Feeding	20,610	20,250
Field Experiments	8,990	10,800
Experimental Dairy	14,495	7,000
Dairy School	9,560	10,850
Poultry	3,835	4,990
Horticulture	9,626	9,624
Mechanical Department	950	1,000
The increase in the e	stimat	tes for
Agricultural Societies of		

Agricultural Societies, etc., is made of \$3,000 for field crops competitions, as against \$1,000 last year; \$3,000 for spring stallion shows, and \$1,000 for spring stallion shows, and \$1,000 for spring stallion shows, and \$1,000 for spring stallion shows and \$1,000 for spring stallion shows and \$1,000 for spring stallion shows a spring stalling stalling

eral.
The decrease of nearly \$3,000 in the

Crall.

The decrease of nearly \$3,000 in the live stock is due to a readjustment of some of the fierns, the various associations.

The grant to poultry associations is increased frow \$1,000 to \$1,500.

The increase in the Institute branch is also due, \$3,000 to transfer from some other branch, and the balance for special horticultural and seed meetings, and the organization of farmers clubs, etc.

Pareners (19b., etc.

Pareners (19b., etc.)

The increase of \$2,100, when, in fact, the appropriation for instruction work shows an increase of \$1,250.

The item of \$3,250 for the Western Dairy School, Strathroy, is cut out of this year's estimates.

year's estimates.

The increases at the Ontario Agriline of salary, and general expansion in the work. The cutting of the cost of the experimental dairy by me cost of the experimental dairy by shalf is due to some new plan adopted in receiving the milk from farmers. The College also gets \$28,750 for building account.

A vote that will interest a great

A voie that will interest a great many stockmen, especially in view of the present agisation to move the winter fair to the Union Stock Yards. Toronto Jurction, is that of \$20,000 for additions to 'he present winter fair building at Guelph. Evidently the Government has made up its mind to continue the fair at the Royal City, and intent to enlarge and improve the facilities for holding the show.

The new fruit experiment station, at Jordan in the Niagara District, gets an appropriation of \$25,000, over half of which is for new buildings. As to the general estimates, there

Farning World for some time. I am well pleased with the new combined paper, and wish you every success.—
W. E. Thompson, Woodstock, Ont.—
"I admire the paper very much, and am glad that it is now a weekly paper instead of a semi-monthly. I believe that it will be thus of much more benefit to farmers than formerly—Arthur Fuller, Earlton, Ont.
"I have been a subscriber to The Farming World for some time. I think the change in the paper a good one, and wish you every success.—
(Robt. J. Maney, Chesley, Ont.—
"A copy of the new combined paper a good one, and wish you every success.—
(267.546 for civil government, as gainst \$57.986, and \$1,399.406.541 for the administration of instite.—
(267. There is an increased appropriation this year in the way of arrived to-day. I may say that I am very well pleased with its first appearance.—Colin F. MacAdam, Antigonish, N. S.

The above are a few of the many largely, to the extra cost of

AGRICULTURE, THE KEYSTONE OF CANADIAN PROSPERITY

VOL. XXVIII.

FOR WEEK ENDING MARCH 18, 1908

No. o

#### The Care of Early-Hatched Chicks

M. A. W. Overend, York Co., Ont,

THE care of early-hatched chickens, those brought out in February and early March, is a matter which greatly concerns the postury and early march, early concerns the propose. Natural incubation is not carried on to such an extent incubation is not carried on to such an extent as artificial in the early days of the hatching season. The supply of setting hens is limited, which curtails the operation very much. When, however, they have been secured and a number of downy chicks have been brought forth in due time, there are certain things to be remembered and put into practice, which will assist in rearing the greatest possible number of them.

In the first place, a perfectly snug, dry and well lighted place must be prepared for them. Be particular to see that, no dampness is allowed to congeal on the walls or the floor. This may be prevented, first by covering the outside of the place which you have given up to incu-

bation and rearing purposes with ready roofing, and second, by packing swale hay or straw, between the rafters of the roof, with strips of wood, nailed crossways, (or wire netting) to keep it in place.

Make sure that there are no drafts from windows or doors, by completely stopping up all chinks in the walls, and providing ventilation by stretching on each side of the upper part of a window frame one ply of heavy factory cotton or burlap. Be sure that there is plenty of light. Arrange the windows high up to the roof, facing the south, so that the light may penetrate well back into the house. Light is a very important consideration, and you need not expect your chicks to thrive well if they are housed in a dim "unreligious" light and have to group around for their food and drink. As the days grow warmer and the chicks grow big the window can be opened for a part of the day at least, and the spring sunshine allowed to shine in. course, it is taken for granted that as soon as the snow and frost are gone, the chicks will be allowed to run out- This

KEEP THEM CLEAN

Another essential to success in the raising of chicks, artificial or natural, is to keep them clean. It should not be necessary to go into the reasons for this advice, we simply repeat keep them clean. This is especially needful in regard to early chicks, as they have the rigour of the season to to contend with and, therefore, require to be kept free from line.

A point which scarcly seems to need to be mentioned, but one which is well to follow, is to keep every brood separate; do not let the chicks or the hens mix, or the results will be disappointing to say the least.

For the artificial rearing of early chicks, the housing arrangements, required are similar to those referred to for the natural method. Have the houses front south and lots of light and fresh air obtained, in the manned described. Al-

though there are numerous brooders described as "outdoor" brooders, the care and comfort of the chicks, as well as the comfort of the attendant, will be better served by placing these brooders in an outhouse of the kind referred to. Of course, in the late spring, brooders could be

used outside, but even then it is better to have them under cover.

In caring for chicks artificially, follow the instructions obtained with the make of brooder you operate. The manufacturer ought to know how the best results are to be obtained from his own machine. Particular attention should be given to the advice contained in all instruction, not to crowd the chicks.

The feeding of chicks, no matter, by whatever method they are reared is much the same. There are three aims to be achieved: Do not feed too much; Feed the proper foods; Keep them active.

The proper time to first give food to young chicks is not before they are two days old. Some advise giving the first feed when the

WHERE CHICKENS PAY THEIR WAY

profitable department at the Coldstream Ranch, Vernon, B.C., is the poulry The illustration shows one of the many colony house flocks on the ranch, his flock, "The White Clover" flock consists of 1,000 pure bred white leghorns.

> chicks are three days old, and I am inclined to think that they are right. I have reached this conclusion as a result of my observance of the way the hen treats her young. After all, in spite of the tirades of the Incubator manufacturers against the evil habits of the hen, they must admit that they are endeavoring to follow her ways, or to "be natural" in the methods and results of their inventions. If you let a hen follow her instincts you will see that she will sit on the nest two or three days after the first chicks are out, in the hope that one or two eggs may hatch. During this time the chicks in the natural way receive no food. They simply poke their little heads out of the feathers and draw them in again, making more extended appearances later on. So we believe that the proper way with hens is to leave them alone with their young, and when all possible chance of any unhatched

eggs yielding chicks is over, we then remove the hen to the place where we desire her.

Do not feed the chicks hard boiled eggs. This experience, and, I believe, the experience has been the custom for some time, but our of others has been that it has a great tendency to create bowel trouble in young chicks, which can make away with a flock about as quickly as anything else.

Experts in the science of artificially raising chickens, are investigating, with the greatest possible diligence, the cause of "white Diarrhoea" in chicks. The result of their investigations to date seems to be that a portion of undigested yolk, the yolk which enters the chick before it emerges from the shell, is the cause of the trouble.

It seems, therefore, poor practice to give a young chicken hard boiled egg, when the probability is that what the chick received naturally has not been digested. We are advised by medical men, that hard boiled eggs are indigestible;

if this is so regarding human beings, it would also hold good as to the chickens. I have always had a bowel trouble with chicks that were fed hard boiled egg, while when this was eliminated and dry food substituted, my birds were free from such trouble.

WHAT TO FEED I believe in feeding a first-grade commercial poultry food. It contains all the desirable elements in a satisfactory basic food ration, and in addition, it saves the bother of making our own mixture. Chicks will thrive on it, and eat it continuously for six weeks at least, often longer, and by that time they can be fed grain. Occasionally, I give them a feed of rolled oats, but the chick feed is the main ration, apart, of course, from green food, meat meal, boiled liver, or fine cut bone, the last three of which should be constantly fed, but in sparing quantities at any one time

The only things we should keep before young chicks constantly is plenty of fresh, clean water, finely ground chick grit, charcoal and oyster shell, of which they will consume

considerable quantities right from the start. See that the water is placed on a platform not too high for them to get up to, but high enough to prevent dirt from being scratched in.

If a hot bed can be made and lettuce planted therein, it will provide the very best kind of food for them. They will eat it and thrive. Failing this, mangels are the best.

Feed often, every two hours, for the first four weeks, and little at a time. Never give sufficient for any to be left over. Keep the chicks hungry and they will, if other conditions are right, be healthy also. Of course, on the other band, there is nothing gained by starving them.

As mentioned before, keep them active. If you are raising artificially, see that your brooders contain about two inches of chaff. Throw the chick feed into this, and they will scratch for it. It must be remembered, however, that this chaff

must be frequently renewed, as it would never do to allow them to eat their food out of dirty scratching material. When hatching by hen, if the hen has been confined for two days after the chicks have come out, they will be strong enough and spry enough to take care of themselves, when the hen gets to work with her scratching powers, as she is glad enough to do.

With the regular feeding, proper housing and management along the lines indicated, the results of your operations ought to be successful. All the care and attention you can give the chicks will be wisely expended. The more time you devote to them, the more satisfied you will be with the results. Early chicks mean increased returns financially, just as anything "early" in any other line does, and you should see that they are given proper care

# Figure on the Cost of Your Milking Machine.

J. P. Robinson, Nipissing Co., Ont.

The Experimental Farm, agricultural press and other instructors of the farming community have done more real good by inducing farmars to keep milk records than by all their experimenting and theorizing, highly valuable as it is. Every other business laughs at the farmer, who, with the milk-making machine worth 81s to 82o, fed upon \$50 worth of material and labor a year, turns out \$20 or \$50 worth of finished product, plus the manure and a fack in 84th.

Farming has been class as an occupation requiring the greatest possible amount of labor in return for the least possible remuneration. Of many things helping to make this true, the keeping of poor cows is surely the greatest. Of course, this applies to the farmer as distinguished from the fruit grower, market gardener, live stock specialist, city milk dealer, etc. These men can afford poor cows, though it is not strange that, usually, they have animals above the average. Many have wondered why each succeeding year found them as hard driven as ever before to make ends meet. "Cheese was a good price," they would say. "Butter will be high this winter," And yet it was the same old story. At one factory which I visited during the past summer, the cheese maker told me that only a few of the patrons would receive \$28 a cow for the full season. Hay sold around \$15 a ton in that locality.

When it was announced last fall that a shortage of fodder was imminent in Ontario, some of the alleged wise ones claimed that farmers were panic-stricken without cause. A great number availed themselves of this excuse to get rid of a bunch of dead-beat boarders. "Milch cows selling at \$8 to \$10 a piece" was a repeated newspaper heading. "Filch cows" it should have

The continued repitition that a cow must give at least 6,000 lbs. of milk a year to be profitable, has begun to take effect. Keeping cows, was, for many years, a pastime, while the land was new and favorable seasons produced good crops to feed them. I can recall instances where the strife between neighbors about the number of their cows led to bitter enmity. All would have had better bank accounts if they had kept fewer.

But the cry is "you must have the manure."
Quite so; only don't have \$5 worth made by a
cow from \$2 so worth of fodder unless she will
give you \$20 worth of milk as a by product.
Don't guess at the quantity of milk. Weigh it.
The time taken in doing so is of no consequence.

Put your money in the bank and you draw bank interest. Put it in "Cobalt" and you lose it. Many of the dairymen in the cow testing associations are deriving 30 per cent. interest on the money invested in good dairy cows."—C. F. Whitely, Dept. of Agriculture, Ottawa.

### RURAL FREE DELIVERY; IS IT POSSIBLE TO RESTRICT THE SERVICE?

# The Sixth of a Series of Articles Written for The Canadian Dalryman and Farming World, by an Editorial Representative of tals Paper, who Recently Visited the United States, with the Object of Studying the Free Rural Mail Delivery System.

An interview with a leading official of our Canadian post offiice department, was published in the second article in this series. The statement was made by this official that it had been found impossible, in the United States, to control the condition's upon which the rural free delivery service had been established. He contended that the United States Post Office Department had been unable to restrict the service to routes that are 20 to 25 miles in length and that serve at least 100 families. It had been found useless, he said, to try to limit rural delivery to sections where the roads were good. and where there were the required number of families. The people that were refused rural delivery raised such a row, the politicians forced the post office department to establish the routes. The great expense of the system was blamed to the fact that the government had been unable to control the service.

#### WHAT WE WOULD EXPECT

The conditions upon which the service is established were described in the fourth article in this series. If these conditions have not been exacted and if the Post Office Department has had to give the service to the people practically wherever they have demanded it, then we must presume:

1st—That the great majority of the applications received by the Department for the location of new routes have been granted;

2nd—That a large proportion of the routes are less than 20 miles in length;

less than 20 miles in length;
3rd—That many routes, 24 miles in length serve
considerably less than 100 families.

#### DISPOSITION OF PETITIONS

The reports of the United States Post Office Department furnish the best answer to the contention that the Department has been forced to establiesh the system almost wherever the people have petitioned for it. While the service has been given to some sections not deserving it, such cases are the exception and not the rule.

On July 1, 1903, the number of petitions for rural delivery on file with the Department was 11,700. In addition there were 2307 cases that had been reported upon previously. During the following year 11,650 of the proposed routes were examined by inspectors sent out by the Department. Of these, 6760 were found to comply with the requirements of the Department and were reported upon favorably. Of the remainder, 4,580 were found not to comply with the, requirements of the service and were reported upon adverseby. The number of routes established was 9,447.

During the fiscal year 1905-6, 3331 routes were reported upon unfavorably, 76 routes were discontinued because they fell below the requirements of the Department and 3,656 routes were established. There were 233 routes on which only a tri-weekly service was given.

For the fiscal year 1906-7, 1,670 routes were reported upon unfavorably, 357 routes were discontinued (Note-Some of the routes that were discontinued were merged in other routes) and 2,317 routes were established. There were 680 routes that had only a tri-weekly service.

If the department has been forced to give the service wherever the people have petitioned for it how is it that we find during the past two years alone over 5,000 petitions have been reported upon adversely

We have been told that once the service has been established it has been found impossible to discontinue it. And yet we find that last year alone 357 routes were discontinued or merged during the past two years.

We have been told that if we give rural delivery to one section we must give the same service to every section. And yet we find that while a daily service was given on thousands of routes there were 680 routes last year on which only a tri-weekly service was given.

If it is true that the people and the politicians of the United States force the government of establish the service in spite of the requirements of the Post Office Department, how is it that the Department has had the themeity, during the past two years, to report adversely upon over 5,000 petitions to discontinue or completely rearrange 433 established routes and to refuse to give anything better than a tri-weekly s.rvice on 680 routes?

#### THE LENGTH OF THE ROUTES

Were it true that the Post Office Department has been forced to give way to the public clamor and that in consequence a large proportion of the routes that have been established are less than 20 miles in length, it would be a serious objection to the service provided that the expense of operating the short routes was as great as the expense of operating the long routes. It is not.

For several years the pay of the carriers has been based upon the length of their routes. In some instances this is unjust. There are some short routes on which the carriers deliver three and four times as much mail as other carriers, on longer routes. It has, however, been found to be the fairest basis, and is followed by the Denartment.

#### THE PAY OF THE CARRIERS

The pay of the carriers is as follows:

Routes, 22 to 24 miles, \$854 a year. Routes, 20 to 22 miles, \$810 a year. Routes, 18 to 20 miles, \$870 a year. Routes, 16 to 18 miles, \$630 a year. Routes, 14 to 16 miles, \$540 a year. Routes, 12 to 14 miles, \$504 a year. Routes, 12 to 14 miles, \$4504 a year. Routes, 12 to 16 miles, \$432 a year. Routes, \$10 to miles, \$433 a year. Routes, \$10 to 8 miles, \$432 a year. Routes, \$10 to 8 miles, \$405 a year.

As short routes cost proportionately less than the long routes, what objection can be taken even if the United States Governmena has given way to public clamor, and established short routes? Is it possible that our Post Office Department was not aware that the rural carriers of the United States were paid on a mileage basis?

#### THE ROUTES ARE OVER 20 MILES IN LENGTH

Aside from all this, however, it is not true that a large proportion of the routes are less than 20 miles in length. Fourth Assistant Post Master General De Graw last November issued a special bulletin dealing with this matter. This bulletin showed that of the \$8,316 routes then in existence, 24,704 were 24 miles or over in length, or 64.65 per cent. of the whole. There were 11,282 routes between 20 and 24 miles in length, or 90,52 per cent. of the whole. There were only 2,230 routes less than 20 miles in length. Thus we see that 94.17 per cent. of the routes were over 20 miles in length, and only 5.83 per cent. less than 20 miles long.

Space does not permit mention being made in this issue of the average number of families on the different routes, or of the number of the post offices and star routes that have been discontinued. These will be dealt with later.

#### LARGELY TRUE AT ONE TIME

The defects that it has been claimed exist in the Rural Delivery system of the United States, did exist to some extent at one time. During the first few years of the service, the applications for the establishment of new routes poured in on the Department in thousands. It was found to be impossible to make a through inspection of each of the desired routes. At that time the Department had not formulated its policy as to the conditions upon which the service would be started. Its meahinery for enforcing such requirements as it did have was inadequate. The result was that hundreds of routes were established where they should not have been. The expense of the service on such routes was much greater than the benefits derived therefrom warranted.

#### CONDITIONS CHANGED

During the past few /cars, particularly the last two or three, conditions have changed. The Post Office Department has so perfected its machinery that it has been able to make a thorough was several million dollars less than it was to years ago when the expenditures on free rural delivery amounted to about only \$50,000 a year. These facts are known to the people in the United States. It amuses them, therefore, when they hear the people in Canada advancing the same old arguments against free rural delivery that they heard and grew accustomed to when it was first proposed to extend rural delivery throughout the United States, ard which time and experience have shown to have been for the most part, fallacious.—H. B. C.

#### Feeding Poultry

Wilbur Bennett, Peterboro' Co., Ont.

In the feeding of poultry much depends on the size of the flock kept, and what is desired, eggs, or stock. For egg production on a large scale, and with the minimum amount of labor, there is nothing better than dry, or hopper feeding. Few other systems will give more profit a bird, and keep the birds more hardy and vigorous.

My plan is to feed the whole grains such as



A RUFAL DELIVERY BOX IN FRONT OF THE HOME OF A NEW YORK STATE FARMER Farmers in the United States who enjoy to benefits of from rural delivery are required to framish terior with bear successively an account of the post office department. Many different make to dozen have been approved by the department, any person who tampers with one of these boxes is liable to dozen have been approved by the department. Any person who tampers with one of these boxes is liable to most the post of the post of

inspection of proposed routes almost as rapidly as the petitions for their estblishment have been reciused. Thousands of these petitions have been refused. Hundreds of routes that were established in the early days of the service, as has been shown, have been discontinued, or re-arranged. Hundreds of others have been reduced from a daily service to a tri-weekly service.

In the early days of the service, the Post Office officials were apprehensive as to what the outcome of the service was going to be. Some of them at least were afraid that the expenses of the rural delivery system would prove so great it would ultimately have to be discontinued. Those doubts and fears are now a thing of the past. The Department now has the service under control. About five-sixths of the territory suitable for rural delivery, now has the service. The number of yearly applications for new routes is several thousand less than it was a few years ago. The last two years has shown a marked decrease in the number of petitions received for the installation of the service. This has given the Post Ofoffice officials an opportunity to re-arrange the routes, and to improve and strengthen the whole service. As will be shown later, the deficit of the United States Post Office Department last year

wheat, corn, and buckwheat, in the litter, twice a day, after the birds have gone to roost, and at noon. This makes them take exercise, and keeps them out of mischief. About two quarts of grain to 50 hens at a feed, and a dry mash alwaye before them, gives them all that they require.

Many different mixtures are given for this dry mash. One that I use with success, is the following:-200 pounds bran, 100 pounds cornchop, 100 pounds low grade flour, 100 pounds gluten meal, the whole mixed well together, and kept in hoppers where the fowls can get at it at any time. They will not eat to excess of this kind of food, but are just as ready for their whole grain, and willing to scratch for it, as though they had had nothing since the last feed. I use a lot of green cut bone. Nothing tends more to make my poultry a success, than the meat food given in this form. I feed about 16 oz. a bird a day. Mangels and green clover form fine vegetable food and are relished by the fowls very highly. The supply of water and grit, should be abundant, and clean.

A ton of green manure is worth as much as a ton of rotted manure. It takes two tons of green manure to make one of rotted.—J. H. Grisdale,

#### Crop Rotation

The value of a crop rotation to enrich the soil and cause it to give to the husbandman more bountiful crops is being realized as never before by the average farmer. No one system is adapted to all localities and conditions of agriculture. These matters have to be decided by the amount of moisture in the soil, the locality in which we live, the products we raise from the soil and other conditions peculiar to our situation. But it is now regarded by every intelligent farmer that we must have some system of rotation of crops if the fertility of the soil is to be husbanded and maintained. In fact in many cases it must first be restored. In the systems of farming in the past many so-called farmers have played the part of Soil-Robbers. They have been enriching their pockets at the expense of the soil, leaving to those who came after a soil which though once fertile and productive, has had removed its most valuable asset, FERTILITY. These men were called farmers.

#### THE SYSTEM AT "SPRINGBROOK"

The system of crop-rotation followed at "Spring Brook" has proven satisfax.ory after some years of trial. It has added fertility to the soil. The farm is more productive to-day than when the present owner took it in hand 16 years ago. Then it would hardly produce 30 bushels of oats or 1½ tons of hay an are. Now it produces from 50 to 60 bushels of cats and barley, 2½ to 3 tons of hay, and large crops of corn (for ensilage) an acre. Then 12 cows, 3 or 4 horses and a few young cattle and sheep were kept on 95 acres (12 acres of which was in bush.) Now the stock keeping power of the farm is nearly double what it was then.

Some years ago we adopted the 6 year system of rotation as follows—tst year, corn and hoe crop; and year, wheat, oats or barley, with a seeding to clover and grass; 3rd year, clover; 4th year, mixed hay; 5th and 6th years, pasture. We are now adopting the four year system holding to only one year hay and one year pasture, believing it to be the ideal system of rotation, to keep the soil fertile and free from weeds.

#### WORKING THE SYSTEM

We prefer to manure pasture land, for corn during the months of June or July, the previous year. This gives us a good growth of grass in the months of August and September when the other pastures are dry and short. It gives us, also, a fine mould to plow down in October for corn the following season. The putting on of the manure at this season allows the weed seeds to germinate and either be eaten off by the cattle or plowed under before they come to maturity and thus are destroyed forever. On such land plowed in the fall and well tilled the next spring we have never failed to get a heavy crop of corn. This land is plowed up the next fall, sown to grain and seeded with 6 to 8 lbs Timothy, 3 lbs early and 3 lbs late red clover, 1 lb alsike and 1 lb red top. The reason I sow both the early and late red clovers is that the former gives an early and the latter a late aftermath, giving a good supply of feed from early in August until well on in October. On soil handled in this way we get a fine crop of grain, an excellent crop of clover the following summer, a good cut of mixed hay the fourth year and pasturage the fifth and sixth years.

When grain is sown on the first plowing about 3 lbs. of early clover is sown with the grain to be plowed down in the fall if not required for feed.

The manure not required for the corn land is drawn direct from the stable and spread on the second crop meadow during the winter and spring, or when the snow is not too deep. The straw used for bedding is first cut thus; there is no long straw in the manure to rake up with the hay—W. F. S.

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Have you seen it—the 48-page book, written by an expert, containing practical up-to-date ideas for building everything, from a hen house to a stable?

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F. W. BIRD 2 SON, Est. in U.S.A. 1817. (Dept. ) Hamilton, Ont.



The only way that smut can be eradicated, or lessened, in the grain crop, is to treat the seed before sowing. The two treatments most generally in use for this purpose are the formalin and bluestone methods. The former is gradually replacing the latter method.

For smuth, again, and provided the control of the control o

The former is gradually replacing the latter method. For smut in osts put four ounces of formalin into 19 gallons of water. Put the oats in a pile and sprinkle the liquid over them, turning the grain so that all are well wetted; let spread out to dry. This, and there are not spread out to dry. This, and the spread out to dry. This treatment is simple and very effective. Care should be taken to see that all the grain is thoroughly moistened by the solution, and that the seed is well solution, and that the seed is well solution, and that the seed is well for the control of the control in the formal form, would indicate that the Formal in or formaldehyde solution, should not be prepared until just before it is to be used. If the solution is made and exposed to the air for several days, the water in the solution is made and exposed to the air for several days, the water in the solution even formal should be the prometries of the solution and the control of the solution and the control of the solution is made and exposed to the air for several days, the water in the solution even for the intended, and more liable training the grain. Another treatment, beside the blue-

er than intended, and more liable to injure the grain.

Another treatment, beside the blue-stone, is the hot water treatment. But this is more difficult to manage, en-tails more labor, and is hardly as ef-fective as the others. The formalin treatment is now considered the simp-tentment is now considered the simptreatment is now considered the simplest, and most reliable, and can be handled by any farmer with litt'difficulty. Where smut is bad, no seed should be sown without being treated, and, to be on the sate side, all seeds should be so treated.

Greater efforts are being put forth ow, to improve the farm crops of

soil and climate. These must be studied as well as the different char-acters of grains in their disease re-sisting qualities, such as smut and

rust.

Prof. Zavitz instanced an experiment conducted at Guelph, with 250 varieties or strains of oats. Some of

ment conducted at Guelph, with '20' varieties or strains of oats. Some of these were very much subject to smut while others were not. In one variety only three heads of smut were found during five years growing of this variety. In some varieties of wheat to times as much smut was found as in other varieties grown under the same conditions. Some varieties of potatoes were very much more subject to rot than others. The plant improver must note these points and endeavor to profit from them.

and endeavor to profit from them. It is a common belief that it is nec-

increase in yield did not make for as much improvement as the selec-

is much improvement as the selection of individual plants.

The origin of Dawson's Golden-chaff wheat, now grown more extensively in Ontario, than any other variety, is a striking example of plant selection. Eighteen years ago Mr. W. H. Dawson, near Paris, Ont., in walking througt, his wheat field, which was lodged and weak in the straw, noted one plant that stood up by itself. It was strong in the straw and while other plants are und it were down, it maintained upright position. Mr. Dant, and the next seesaw sowed see seed by itself. From this he was able in a few years to supply his neighbors with seed from it, and in this way it was distributed over the whole country. At the Ontario Agricultural College to straws of Dawson's Golden chaff were recently selected, and eight of these were found to give greater yields than even the original, how establishing the theory that, however good a variety may be it is allowed to be a supply that is the selection of the control of the selection of the sel showed great variation, some yield-ing one head, other two, others three, up to 28 heads. One strain in par-ticular topping the lot, not only in the tests at the college, but also in the co-operative tests throughout the province, in yield, in strength of straw, and in quality of grain.

#### Sanitary Conditions in Handling Milk

Milk
Ed. The Dairyman and Farming
World—Much has been said on the
sanitary handling of milk. Little
sanitary handling of milk. It the
ears and, however, in regard to
the care of milk in transit. This
certainly is one of the points that
cannot be jotted down as the last and,
least. It is a shame that thousands
of cans of milk are taken to cities
daily by various meens of transportation without any assurance peing
given by the transportation agencies
as to the safety of this product. This
winter should demonstrate the need
for a step being taken in this directior.
Many dollars have been lost by spitla
and as forth during the last few
weeks. I have, seen considerable of
this myself. The Improvement of Farm Crops Greater efforts are being put forth now, to improve the farm erops id the country, than ever before. Profitation and the country that the country that the country and the recent annual convention of the Canadian Seed Grower.' Association. Speaking on the details of plant improvement he advised a close study of the foundation stock. There are many varieties of farm crops in Canada and a wide difference in the character of these. There is a great variety of grain will often yield it; bushes an acre more than another variety of grain will often yield it; bushes an acre more than another variety of the same kind. Then there are early and late maturing varieties, suitable for different conditions of soil and climate. These must oe studied as well as the different charts. this myself.

Accidents are not the only reasons for the much-needed improvement, however. In this connection, every for the much-needed improvement, b-wever. In this connection, every chance is given to jealous or mischievous persons te adulterate the milk or cream by putting in vater and other foreign material. Again, there are the thirry Jellows who have been putting milk in little pails. Of curse, we could never admit that the people of this county are so horribly had. It has been proven, however, that there are enough bad to render it necessary for immediate protective measures being taken. If the neath officers and retail milk men do not put such measures in force, the producers and citizens should demand it.

20

13

If milk is not good, the producers get the blame. But there are recrees of inroads that lead to its impurity, all due to the carcless way in which it is handled. A can with a sealed lid by no means fills the bill. What ind by no means and the nu. What is wanted is a simple but sure method of locking the lids fast on the inside. Then there would be no danger of anyone meddling with them. Furthermore, there would be no loss by upsets and railroad accidents.

Let us have the opinion of others next week on this subject. If I was a milk producer, I would not sit any longer and take al. the blame for impure or unsanitary milk.—A Con-

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# SEED OATS

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blished 1850.

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Head Office: TORONTO Over 80 Branches rable to mention the name of this publication when writing to advertise

essary to change seed every three four years in order to maintain its vitality and producing power. Prof. vitality and producing power. Pro Zavitz protested that this was not nec-essary. On the college farm, 30 varieties of wheat, barley, cats and potatoes had been grown continually for it years by selection. With the exception of one variety of potatoes, every variety had given an increased yield the protection of the seed alone, while it helped to improve quality and

#### A Good Word for the Milking Machine

"One of the difficult problems confronting the dainy farmer," and Mr. Geo. A. Smith, of the New York Experiment Station, in addressing a farmers' institute meeting recently, "and which is becoming more difficult all the time is "How is he to get his cows milked with the existing scarcity of labor?" "Last March," he continued, "we made arrangements with the Burrell Company, by which we secured one of its milking machines, and have used it steadily from that time, milking from 20 to 23 cows. Some people

used it steadily from that time, milk-ing from 20 to 23 cows. Some people claim that they have not succeeded. Then, again, I know of a man who has used the machine for three years, milking 40 cows, and who has suc-ceded and who is using it right along."

c.eded and who is using it right along."
"Our experience with the machine is that it milks the cows as clean, if not cleaner, than the ordinary man milks by hand. The other part, the influence of the machine on the flow of milk for a year, is a difficult thing to tell. If a cow does not do so well, it is because she was not milked clean by the machine. If we get a good flow of milk from the ..w, then we can say that the machine is diving good move the company of the

# COMPARATIVE FIGURES TELL THE

"The following figures show what some of the cows did with and without the machine. The records are foom 26 to 28 weeks. Conditions were not comparable within the past two seasons. We do not pasture our cows. In 1906 there was rain and pleaty of green food, in 1907 there to the cows in part of August and September. The following cows freshened both years in March and April and were apparently normal. The cow Dollie was not dry before caliving.

was	not	ary	perore	caiving.				
		Frs.	Milk 1907	M(lk 1906	Giving Nov. 18	P.C. Fat		
Ruth	*****	. 4	-5886	5072	18.1	5,		
Carr;	Fee	4	3687	3696	8.	7.		
Princ	COBH	4	4196	3333	11.7	5.5		
Fanu	y	6	4565	4492	14.5	4.8		

polly.... s 2819 468 18.1 6.

"To make a success of the machine, it is necessary that the man who runs it have a taste for machinery. He should be one who studies, knows and understands his cows. The teat cup should be of the right size. They are graduated from "O" to "O". They must just support and not contract the teat."

#### IT WILL GIVE SOME SANITARY MILK

man can milk as cows in an hour with cae machine. Some men can handle three machines, thereby milk-ing to cows an hour. The tubes are durable if kept procerly, always sub-merged in brine.

"Do you consider the machine on ne whole a success?" was asked. "From our experience, it is a suc-cess," replied Mr. Smith. "For a man who has a large dairy, it a great boon."

#### Test Your Seeds

I; you buy seed of the seed man, demand a guarantee from him I its quality: then test the seed yourself, and find out if he is telling you the truth. Reliable seedsmen will quarantee their seeds, and if they do not do so, don't buy. Also don't grumble at the price of guaranteed seed

ble at the price of guaranteed seed One of the simplest and best meth-ods of testing the germinating power of seed, is as follows: Secure a piece of blotting paper, or flannel cloth, moisture and fold tegether, after plac-ing a counted number, say, 100, of the seed between the folds. Put the ing a counted number, say, 100, or the seed between the folds. Put the blotter or cloth on a plate, and cover with another inverted 'plate, and place in a warm to the property of the plate of the plat

carried on during the cold weather, and before the busy season opens. As to the germinating power of good seed, it should not be lower than 75 or 80 per cent., for the leading grain crops. The United States Department of Agriculture places the state of the properties of the propert

IT WILL GIVE SOME SANITARY MILK
These machines are provided with attachments so that the air entering the machine passes for the most part through cotton filters. By using properly-fitting teat cups and keeping the tubes entirely submerged in brine, without cotton filters. He milk averaged in 49 tests, 31,600 bacteria a.c. When the cotton filters were used, the average for 400, we can propose the second of the second o



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foundation of our roofing, is submerged in asphaltum until every fibre has be thoroughly impregnated with this wonderful moisture-proof composition.

Our asphaltum is a blend of asphalts, which are famous for their waterproof quali, ties, and we can produce a test which shows that UNDER PRESSURE IN WATER FOR A PERIOD OF 60 DAYS THE PER CENTAGE OF WATER ABSORBED BY THE ASPHALTUM IN THAT TIME WAS LESS THAN 1 PER CENT.

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### HORTICULTURE

A Few Remarks on Spraying Col. W. H. Ptolemy, Stoney Creek, Ont.

As the season is fast approaching when, on all well regulated fruit farms, it becomes necessary to make arrangements for a thorough and sys-tematic spraying of fruit trees, in order that we may combat the destroying influences of fungous diseases and in-jurious insects, it behoves us to make thorough preparations for the carry-ing out of spraying operations. Spray-

ing out of spraying operations. Spraying has become a necessity not only to save the trees that have already been planted, but to materially increase the production of fruit both in quantity and quality.

Spraying is essential, not only on the farm where a large variety of fruit is grown, but also on the farm where the apple orchard gives the main fruit crop. It will pay to take good care of the apple orchard no matter how small the area.

FOR LARGE ORCHARD USE POWER PUMP

Although the hand spray pump has been and is still a very useful machine for use in small fruit orchards, the power machine has become a ne-cessity on the larger plantations and

to the wheel.

Three years ago, I purchased a duplex power spray of 290 American gallons capacity. This nachine cost \$250, to which I immediately added improvements to the extent of \$15, including a seat for the driver, covering for the pumps, platform in rear for the operator, and a valve on main discharge pipe for straining the mixture before reaching the nozales.

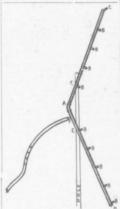
#### A HOME-MADE DEVICE

A HOME-MADE DEVICE

I devised, also, an arrangement for spraying large apple trees, and it as follows: Take two pieces of inch gas pipe, each five feet long, and connect them with a half right angle coupling (a), see diagram. Have holes bored in these pieces one foot apart and short pieces of half inch pipe serewed into the holes. On these pieces, have threads cut on which to place the inguperant from top end (c) and have the lower end capped (d). These pieces, when compled on as described, will form a concave shape, the top half agraying down on tree and lower half upwards on the lower half.

This pipe as a whole is then attach-

has come to stay. In some sections, growers club together and secure these on the co-operation principle. Many two and a half inches in diameter, thinds are built and many different. The hose from the machine is attached preferee he been with a machine producing power from a gear attached to the wheel. ad near the centre by two slips (c) to a pine pole about seven feet ong and two and a half inches in diameter. The hose from the machine is attached to the pipe near the centre by a coupling (f). The pole should stand upright on the platform in rear of machine and be steadled or balanced by the operator with one hand, while, with the other hand, he steadles himself by holding to the machine. Any number of nozales may be used on this pipe at the discretion of the operator. If it is found that material is being wasted, one or more nozales



A Device for Spraying Large Trees

may be removed and the points covered by caps.

In using this arrangement for

ed by caps.

In using this arrangement for spraying large trees, we do not pretend to stop at e.c. three or even io 
shut off the spray between trees, but 
we drive streight on. Considerable 
material may be wasted in this way, 
but the advantage gained in the saying of time and in the number of 
trees covered in a day greatly exceeds 
any waste of material, while also, the 
power is ketu no to a hish pressure.

The same arrangement may be used or spraying plum, peach and pear trees which have attained any con siderable size. Any required number of n zzles may be used.

of n zeles may be used.

For spraying grape vines, we remove the pipe from the pole and uncouple in the centre, cap the ends and hang one on each side of the machine, using about three nozels on each pipe. This requires two lines of hose. To make fast time on vines, the work should be done on a calm day so that the near sides of two rows may be done at once.

For tree spraying, we prefer a

For tree spraying, we prefer a strong steady wind. This will carry the spray much further and penetrate the foliage much better than can be done on a calm day.

KIND OF MATERIAL TO USE

Many different materials have been used for apraying. After trying several different mixtures, we have come back to the old standard. Bordeaux mixtures—four pounds lime, four pounds blue vitrol, 40 gallons water, and for poison, four ounces Paris green. This mixture is very effective and may be used with perfect safety on the most tender foliage.

Not being troubled with hark louns.

tender foliage.

Not being troubled with bark louae and San Jose scale, we have always confined our operations to fighting fungous diseases, codling moth, cauker worm and currelio. When spraying is done thoroughly and at the propare assans to successfully combat the proper seasons to successfully combat the love-mentioned polita, large is little to fear from anything else.

#### WHEN TO SPRAY

For apple trees, three sprayings usually are sufficient, one before the blossom opens, one immediately after the fruit sets, and one, two or three weeks later; for pears, one after the fruit sets and another in two weeks the sets and the s

weeks later; for pears, one after the fruit sets and another in two weeks time; for plums, as soon as fruit sets and one, two weeks later; for peaches, one as near the opening of the leaf as possible for the prevention of cust leaf; for grapes, the early spray before the bloom opens is usually ficient to prevent the rot.

In closing we would venture to advise those who may be in doubt respecting the advisability of going to the expense of purchasing a power machine, that if their orehards are of sufficient size to warrant the expense. Increased results in our apple orchard of fifteen acre, paid for our machine of fifteen acre, paid for our machine of fifteen acre, paid for our machine the first year that we used it.

#### Wallace Power Sprayers AIR PRESSURE ut a cent of cost. Will thoroughly



We have hundreds of them out and have never yet been asked to accept return of one. Large number now used in Carlo Standard. This cut shows our "New Model Standard. Orders for them are coming in lively now; set yourse on our list early—70W. Send for proof that one of them made for a couple of cancilan apple growers is times its own come in one senseon—a post cand will bring most in one senseon—a post cand will bring

We also make 7 styles of Jasoline Engine utilitie, which are the very best and most constitution, and the properties of the properties of

W. H. BRAND, Jordan Station, Ont. power is kept up to a high pressure.



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### POULTRY YARD

#### Hatching in March

Hatching in March
When the March sun begins to
make itself left, and the warmth inman warms and the state of the politryman, who wants reside, the politryman, who wants reside,
man for the state of the continuers of the contining for setting hens. There is one
thing that many of the uninitiated
overlook, however, and that is the
gest are incubated, they will hatch,
and bring forth a healthy brood of
chicks. This uasy, or may not, be
chicked that the food given, and
conditions aurrounding the hen, are
sufficiently correct to induce the hen
to lay, but it does not follow that
the eggs will hatch.

The annual statistics along this

the eggs will hatch.

The annual statistics along this line show that every year the percentage of eggs that hatch, is remarkably small, even with all the knowledge at the 'lisposul of the breeder. For years the cry from all parts of the country has been that the eggs hatch porly, and wany bright hope are dashed to the property of the country has been that the eggs hatch porly, and wany bright hope are dashed to the cate of the country has been that the breeder has to be satisfied with M·y chicks, instead of March and April.

To be prepared, and have your

or March and April.

To be prepared, and have your flock laying fertile sggs in February and March, is the desire of all. This is missed, however, for various reasons. Some, in an endeavor to take too good care of their birds house them too closely, keep them too warm, and feed then too generously. The consequence may be eggs, but with the germ weak, and useless for incubation. Others are either too

# POULTRY EXCHANGE

TWO CENTS A WORD, CASH WITH ORDER WHITE WYANDOTTE EGGS. None better \$2,00 for 13. W, Roebuck, Box 448, No.

FOR SALE.—Six Choice Barred Plymouth Rock Cockerels at a bargain. J. F. TRIVERTON, Poucher's Mills, Ont.

STEPHEN OLIVER, Lindsay, Ont.—26 kinds of fowls—Hamburgs, W. Leghorus, R. Caps Houd.ans and W C B Polands. J. J. SACKETT, Lindsay, Ont. — Breeder of White Leghorns, S S Hamburgs and Barred

INCUBATORS FOR SALE.—Three Models, One Chatham, One Toronto Incubator t.o. also Wire Netting. F. RUBERIS, Danforth Post Omce.

FOR SALE:—First class creamery, well equipped, in good dairying locality. For fur-ther particulars apply to Win. Hoch, Killaioe Station, Ont.

# BREEDER AND EXHIBITOR of high class Barred Plymouth Bocks. Eggs and stock for sale. Woodmere Poultry Yards, Leslie Kerns, proprietor, Freeman, Ont.

#### MISCELLANEOUS ADVS. Important to Financial Officials of Cheese Factories for 1908

Cheese Factories for 1908
Forward, by mail, or otherwise, to the undereigned, your milk-sheets and cheese shaper statements, mentioning any debuyer's statements, mentioning any development of the control of the contr

SHEEPSHEARERS GUIDE supplies the greatest need of sheepowner or sheep-shearer. Send address for copy for examination. If satisfied send 80c coin, if not return book.—G. B. FORD, Cambridge, Ohio.

WANTED—Buttermaker with dairy school training and two years' experi-nee, for pasteurizing, cream-gathering creamery. Apply, with testimonials from past em-ployers, to Box P, Canadian Dairyman, Toronto.

WANTED—Man with some experience at cheese-ma/ting, for season of 1908. Give reference: W. T. Oliver, Box 164, Drum-bo., Ont.

opinionated, or too lazy, to look after their fowls, as they are told to do through the farm and stock journals, and with the same result. The diffiand with the same result. The diffi-nal with the same result. The diffi-nal requires early attention, as the tertility of the egg depends entirely on the healthy condition of both the males and females of the flocks. Those who read the poultry terms that the same magazines, will also the theory that the same property that the same that the health of the same that the ers that the health of the same that the ers that the health of the same that the cross that the health of the same that the ers that the health of the same that the cross that the health of the same that the cross that the health of the same that the cross that the health of the same that the cross that the health of the same that the same that the same that the same that the supplied, she is much better off if permitted to apparently rough the a stitle, and to be treated to pienty of treah air and unlimited exercise. The health of the same that is rendered airy and dry, by the use of a cotton front.

and dry, by the use of a cotton front, an whole or in part, and the tlock given a scratching shed directly cpu to the outer air during day time, will have the healthrest and happiest tot of birds in it. Furthermore, the egg basket will be full of fertile eggs, of to thrus in it. Furnishmen, we egg basket will be full of fertile eggs, if other conditions o' food, grit, lime and water, are properly looked after. All hinge on the giving of iresh air, diy quarters, and plenty of exercise, which are far more important than the food in getting hatchable "ggs," one's anging. in early spring.

#### This Flock is a Good Asset

Ed. The Dairyman and Far a ing World: In 1907, with a dock of 2000 hens composed of barred siock of 220 hens composed of barred l'ymouth Rocks, and buff Orpingtons we marketed 10½ dozen eggs rom each of the 220 layers. That is a pretty fair average for the size of the tiock, and cousistering that the record to the control of the present the present t

grocer in Michireal at an average price of 250c. a dozen. After deducting \$1.00 a head for expenses, it leaves a nice profit for our work, of \$1.55 a hen. the profit on the flock of 290 would thus be \$341.00.

Wilbur Bennet, Peterborough, Co.

Ed. Note.—Mr. Bennet is a very successful poultryman. He keeps a large flock of layers over winter and ands them the most profitable branch ands them the most profitable branch of the farm stock. His experience is valuable therefore to any who contemplate going into the pourty business on a large scale. Elsewhere in ness on a large scale. Elsewhere in this issue will be found pointers from ois pen.

#### Photo Contest

We want to show our readers some We want to show our readers some of the aplendid poultry houses and yards that are scattered all over the country and to induce owners of them to have them photographed; we will offer the following prizes for the best poultry subject, to be houses, yards, docks, or some scene that at once suggests poultry. Subject and quality both considered. Contest closes on April 20.

1st prize ...... \$3.00 2nd prize ...... 2.00 3rd prize ..... 1.00

We reserve the right to reproduce all photos sent, whether prize winners

Edds for Setting should be advertised in our Poultry Department.

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I will tell you exactly what to do to make a success of noultry raising. I will work poultry raising.

with you as your expert advisor, if you want advice. I will see you through show you just how to make most money quickest.

I will even find you s high-paying cash-down buyer for all

the poultry you want to raise, all the eggs you care to ship. And I will put a Ten-Year GUARANTEE behind the incubator and the brooder—an absolute, plain - English guarantee that puts ALL the risk on me, where it belongs.

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It will earn its whole cost and plenty besides in the very first year, if you will do your part—and it's no hard part,

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right-Remember that the risk is on me. The incubator and the brooder will easily earn you much more than their cost long before you pay me for them.

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BECAUSE our directions for operating successful policy of the newest and most novel design of anything on the market for rearing young chicks. Send as types address to-day and we will send as types affects to day and we will send as types affects to day and we will send as types affects to day and the send to the sen

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nted to Give Satisfantis

Gombault's

**Caustic Balsam** 

#### Seasonable Hints for Farmers for March

John Fixter, Farm Superintendent Macdonald College

1. Clean the seed grain thoroughly; also purchase root seeds and reclean them.

clean them.

2. Examine all machinery.

3. Ploughs, see that the coulters, landslides and points are all right; also attach clevises and whiffetrees.

4. Harrows, see that the teeth are whiffetrees.

5. Is the country of the countr

Is the seed drill oiled, and in

5. Is the seed drill oned, and perfect order?
6. Is the reller in perfect order?
6. Is the reller in perfect order?

6. Is the relier in perfect order?
7. Mowers and binders—sharpen
all knives and guards; see if any other repairs are needed.
8. Harness—see to washing, repairing and oiling thoroughly.
9. Remove all manure from buildings to fields where hoed crops are to be grown, and spread same as soon

10. Break in any colts that are to be used the coming spring; get them well hardened before spring work be-

11. See that plenty of firewood is cut and under cover, convenient to the house, sufficient to last the

whole year.

12. Repair all fences as soon as possible after frost is out of the ground.

#### Honeymakers' Honest

A bulletin of the Inland Revenue Department just issued, shows that of 141 samples of honey from various parts of the Dominion analyzed by parts of the Dominion analyzed by the Department, 125 were genuine, 3 were doubtful, 1 was sold as a com-pound, and only 2 were adulterated. The report shows that strained honey sold in Canada can nearly always be relied upon as being the genuine article.

# **Inquiries and Answers**

#### Planting Corn

What is the proper way to plant corn in order to facilitate cutting with the binder. In single or double drills. How far apart should the rows be wisely you goether? How much of the former on a cere-W.O. Poutlac Oo. Que.

Your corn could be cut best in planted in single rows, provided a corn binder is used. If a grain binder is used, the amaller the stalks the rows are advisable. Single drills are generally planted 40 inches apart. If the common grain drill is used have four stoppered tubes between each two that are sowing.

four stoppered times between each two that are sowing.

It is not advisable to sow alfaltand clover together. Alfalfa shoull be sown 15 to 20 ibs. an acre, according to the quality of the seed

Cost of Cement Silo Which is the best silo to build, a c ment or wooden one? State the estimate cost of a cement silo 14 x 20, with c ment at \$2 a barrel and gravel free. I. B. A.

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the aggregate in the way of gravel, or sand and crushed stone, the avail-ability of boulders for embedding in the concrete and the experience of the man in the making of the con-

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make you absolutely independent of the monoply. When you install our telephones, you buy them outright instead of paying an exorbitant yearly rental, as with the trust.

Write us for any information desired. We furnish full particulars free.

# Canadian Independent Telephone Co.

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#### Alfalfa on Wheat

Would it be advisable to sow Alfalfa on fall wheat? Would spring or fall sowing be the best? How much seed should be sown an acre; where could it be obtained and at what cost? Should cattle be allowed to graze on it the first fall after the wheat is out? Would it be a good thing to sow it in an orchard for pasture?—A Greenock Subserber.

It is not advisable to sow alfalfa on fall wheat, although in rare cases good catches have been obtained in this way. If sown on wheat it should be sown late in the spring and harroand in

this way. If sown on wheat it should be sown late in the spring and harrowed in.

Alfalia should be sown at the ra's of 15 to 20 lbs. an acre, preferably with a light nurse crop of barley. The with a light nurse crop of barley. The seed firms advertising on the Ganadian Dairyman and Farning World. The price fluctuates with the market. It is priced at present from \$12.90 to \$14.00, depending on the quality. To get the best results from alfalfs, it should not be grazed, particularly during the first year, as the grazing and tramping is very injurious to the plants. Alfalfs will not stay in the justice, and advisable to pasture or chards, generally speaking. Many object to alfalfs in an ordered on it count of its extreme root growth, which interferes more or less with the root system of the trees.

Bordeaux Mixture on Potatoes

Bordeaux Mixture on Potatoes
Please state the price of Alfalfa a
pound, and the number of pounds requirdate sow an arce. Please state how to
prepare Bordeaux mixture to spray on
potato tops.—It. 0, Leede 60., Ont.
at 26c. a lb., with speculiar accilat 26c. a lb., with speculiar accilarger quantities. (See question vn alfalfal.) You had better write your
dealer and obtain his prices. Sow idto 20 lbs. an acre, according to the
quality of the seed.
To prepare Bordeaux mixture for
potatoes, use the following formula:
Copper sulphate (Bluestone). 6 lbs.
Unsalked sime. . . . 4 lbs.
Water, (one barrel). . . . 40 gals.
For the Colorado potato beetle ad t
8 ounces of Paris green to the foregring formula:

cour des common potato becte and course the course of Paris green to the foregring form of Paris green to the foregring formula to the course of the course

#### Protein in Buckwheat

What is the Protein Content of Buck-wheat? I have been feeding buckwheat to my cattle lately and have thereby greatly increased their flow of milk— D. D., York County, Ont. Buckwheat is comparatively rich in protein, analysis showing it to con-tain 10 per cent.

D

#### Clipping Colt and Breeding Filly

If you clipped or singed a colt would it have to be done every year, because of the hair, having a tendency to grow longer each year? At what age could a speneral purpose filly be bred, and what kind of a horse would be most suitable to breed her to, Hackney, Boadster, Clydeddialo or general purpose?—E. R., Locust Rill, Ont.

Horsemen differ in their opinions upon the effects of elipping horses. The majority believe, however, that the hair grows longer after each clipping. The hair of the horse naturally becomes longer as the horse ages. If your filly is of good size it would be well to breed her late in the season, when she is two years old. What

JOHN GARDHOUSE & SONS If you wish a light horse, you had better use the roadster stallion. If you wish heavy offspring use the Clydesdale, but by no meens use the general purpose stallion. Heavy offspring use the Clydesdale, but by no meens use the general purpose stallion.



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ORMSTOWN, QUE.

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Lachute, Que. JOHN CRUISE

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Oranie uniou. "ILLO TRID AND LAMBOULTHS AND LAMBOULTHS OF TAMBOUTH, IN 1900 AND A Choice-bred, high-class Holstein or Tamworth, inspect my herd and get my prices. Herd headed by Nannet Peterteria Paul, Toronto winner. Three nearest dams Official Records, over a glas, of mouths as a 3 year old. Tamworths for best quality. Prize-winning (Imp.) Knowle Kilip David of best British loked at Bead of herd. Stock of all ages for sale. Write or come and see, A. C. BALDAM, Bresidean, Materiole Co., Oht.

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ave now on hand Clydesdale Stallions and Fillie Scotland prizewinners and champions; Hackney fillies and Hackney Pony; also Welsh Ponies. There are no better animals, nor no better bred ones, than I can show. Will be sold cheap and on favourable terms. A. AITCHISON, Guelph P.O. and Station

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#### THE ASSOCIATIONS AND MILK INSPECTION

It is unfortunate that the conditions under which milk is delivered to the cheese factories of Ontario, and paid for, make it necessary for the Eastern and Western Dairymen's Associations to employ three officials to look after milk inspection, and the prosecution of patrons who add water to or take the cream off the milk Their action, however, is to be commended. It will relieve the instructors from all testing. They will be able to devote their full time to securing a cleaner and better flavored milk from the patrons, and to aiding the maker at his end of the business, besides giving the needed attention to the sanitary conditions of the factories, and dairy farms supplying milk.

But in this age of dairy knowledge and advancement, the need for these inspectors should not have arisen. military purposes. The present class

to do away with this need at little cost. Pay for milk supplied for cheese making by test, and the temptation to water and skim is removed. "here are many factories doing this with success, and everyone of them could do so. Dairying would be upon a higher plane it this were done.

We have heard the statement that there is money in this milk inspection business for the associations. The experience of the Western Association, with one inspector, last year, shows this, and this, we understand, was a strong factor in inducing the Associations to oxtend and assume full responsibility for the work the coming season. They should have a higher aim than this. While, as we have stated, it is recessury under the circumstances to employ inspectors for the special purpose of milk inspection, more energetic efforts should be made to induce factories to pay by test, and do away with the need. Has all been done that should be done in this direction? Do the speakers at dairy meetings emphasize it as much as they should? Is any systematic effort being made to induce patrons to adopt this system?

#### WILL BREEDING MILITARY HORSES PAY?

Attention is again directed to the deficiency in the national horse supply of Great Britain, by a recent statement of a war official that at the end of a year's war, 180,000 cavalry horses would be required, whereas there are only 150,000 horse in the United Kingdom. The situation looked upon as grave, from a military standpoint.

The British Government is said t have under consideration a scheme for the encouragement of the breeding of horse suitable for miltary pur-poses, and some influence is being brought to bear to have it apply to Canada, or at least to have the Britsh authorities keep in view the rossibilities of securing a supply from Canada

Canada has had some experience a supplying military horses. The South African war took from Canada thousands of horses, and helped in clear the country of a lot of inferior types and misfits. Yet the prices paid and the limit up to which the British authorities would go in securing military horses, showed that it would not pay Canadian farmers to breed specially for this trade. This was shown pretty clearly by Mr. Robert Miller in his address at the horse banquet in Toronto a weeks ago.

If the British authorities have any cheme that will enable us to get a fair price for military horses, we can assure them, and also those in Canada who are urging the raising of this class of horses, that we will go into the business of breeding them. But until profitable prices are sasured, it will be wise for us to continue to raise the heavy draft, and high class carriage and saddle Lorges. If there are any misfits, as there is bound to be, these can be sold for

Every factory has it within its power of horses which are being raised most extensively, are in good demand at profitable prices. To change over to some other class, unless the pinces are equally as good, would be poor business.

#### MORALITY IN ADVERTISING

More and more, publishers are coming to recognize the fact that they are under just as great a moral obligation to see that their advertis ing columns are kept free from objec tionable advertising as they are to see that the tone of their reading columns is maintained at a high stan dard. The belief that the publisher is responsible for the character of the advertising carried in his paper, has seldom been more forcibly expressed than it was at the recent convention of the Canadian Press Association, by Mr. Medill McCormick, of Chicago, the publisher of the Chicago Tribune one of the greatest and best news papers on the continent.

"I hank God,' said Mr. Me-ormick, "that the moral standard Cormick, "that the moral sealing of advertising conditions in America is one thousand per cent. righting at was five years ago. The er than it was five years ago. The newspaper is only as clean as its advertising columns. It is only as strong as the confidence it can arouse in its readers. It can make them believe, not only in the new-which it publishes but in the adver-tising which it publishes. We have which it publishes but in the silver tising which it publishes. We have learned to look the truth straight in the face, and to admit that a filthy medical advertisement is a lithly corner in the newspaper, and that a lying commercial advertisement is a lie in the newspaper, and that the the deceptive finacial advertisement is a deception in the newspaper.

What Mr. McCormick said of news papers, is even more true of the agricultural press. There are scarcely more than half a dozen purely .gri cultural publications in Canada. Be ing published only weekly or semimonthly, they should be able to main tain a higher standard than is possible in the case of papers that are published daily. Several of the leading farm papers in the Urited States, including the Orange Judd weeklies, and the Farm Journal, have refused hundreds of thousands of dollars worth of patent medicine, electric belt fit. and premiums given free advertising, during the past few years. Our Canadian papers should not be blind in a matter of this kind.

There is another side to this question. It was touched on by Mr. Mc-Cormick. The more the publisher can induce his readers to buy from his advertisers, the more profitable his advertising columns become. When, however, a reader sees an article advertised extensively, buys it, and finds that he has been defrauded, ne will be slow to patronize other advertisers in that paper. On this point Mr. McCormick said:

We must keep out the thieves we must keep out the thieves and the liars from our papers; we must make our readers feel that they will get a square deal in our markets, and come and buy 'rom our printing stalls with the confi-dence that they will do better than dence that they will do better than they can at any other market. This is not a question of morality, or a question of ethics, but a question of commercial sanity. The public does not went to be deceived. The public has a memory—the public is ure of the butter trade in Great

an Indian and never-forgets.
"I look ferward to the time when a newspaper will be able to print at the top of the advertising page, "We are responsible for every line of advertising that we print. We guarantee a square deal to you. We pledge ourselves to make good any look of the print." I would be seen that you incur through answering any advertisement that we print."

Legitimate advertisers should protect their own interests by refusing to advertise in papers that carry questionable advertising. Were our leading advertisers to take a stand on this question they would soon force our papers to take the stand on this question that they should adopt of their own accord.

As far as lies within our power, we try to admit to the advertising columns of The Canadian Lairyman and Farming World, the advertisements of those firms only that we know to be reliable. Recently we have refused hundreds of dollars worth of questionable advertisements. We want our readers to know that they can dea. safely with every firm whose advertisament we carry. Our protective policy, as published on the first column of this page, is intended to safeguard the interests of our readers. We hope therefore, that our readers will feel free to patronize our advertisers, and that our advertisers will appreciate and support us in the stand that we have taken.

#### A FACTOR FOR THE BUTTER MAKER TO RECKON WITH

While the high price of butter this winter has been a good thing for the producer, it has had the effect f greatly increasing the demand for margarine, or butter substitutes, notably in Great Britain. When the English shopkeeper cannot sell profitably at 1s. 2d. a 1b., (28c.) the demand falls off, and the average consumer begins to look around for something to take the place of butter. For the past few weeks, butter has ranged in price in Great Britain, at from 140s. to 150s. a cwt., (112 lbs.) When he buys at these figures the shopkceper has to sell at, at least, from 1s. 4d. (32c.) to 1s. 6d. (36c.) a 1b. to make any pro-

These high prices for butter have created a little "boom" in the margarine business, and the middle-class housewife is having forcibly brought to her attention the fact that butter substitutes are eatable, and that they can be used for cooking purposes. One English factory is making upwards of 700 tons of margarine a week, and others have greatly increased their output. The "neutral" which takes the place of the butter fat in the mixture, is largely imported from the United States, and that country is benefited to some extent. A feature of the manufacture of margarine that is worth noticing is that everything is done in the most cleanly manner, and the conditions under which it is made are of the most sanitary kind The manufacture does not neglect to make this known in advertising his goods.

This increased sale of margarine may have some effect upon the futBritain. In periods of high prices, the consumer of the middle class once having learned that a wholesome substitute can be bought for butter, will turn to it again, and once having acquired the taste, may, even when butter prices are normal, use it in preference to poor, or medium grade butter. Dairymen should remember, however, that margarine is a "substitute," and not butter. If sold for what it really is, the butter-

ticle, has little to fear. In Canada no substitute for but ter is allowed to be manufactured. There is nothing to fear, therefore, in regard to the home market. But we are dependant largely upon Great Britain for a market for our surplus butter, and margarine will have t, be reckoned with.

The public accounts presented to the legislature recently show a sur plus of \$606,173.58 of revenue over expenditures for the year ending December 31st, 1907. This is very gratifying. At the same time it is well to note that the expenditure for the year shows the large increase of \$994,-056, 54. The revenue increased by \$1,180,940.80, that of 1906 leaving the surplus mentioned. This is fortu-nate. At the same time it would be well to bear in mind that lean years may come. It is always difficult to reduce expenditures after a certain standard has been reached. It would be well, therefore, to go a little slowly even though the revenue is buoy-

#### Money or Pure Bred Stock for You

The offer of The Canadian Dairyman and Farming World to give pure-bred stock free to those of our subscribers who send us lists of new subscribers, has attracted much stending the control of the contro tion. Recently we have secured some nice lists of new subscribers from the nice lists of new subscribers from the opposite extremes of this great Do minion. From away down in Nova Scotia, Mr. Colin F. MacAdam, of Antigonish Co., Nova Scotia, sent us last week the names of 45 new subscribers, at one drilar a year ach, and has chosen a pure-bred Holevian heifer call as his reward and the colored property of the color of the color

premium.

From British Columbia, as we noted in a recent issue, came a nice list of 21 new subscribers for The Canadian Dairyman and Farming World, all at one dollar a year. Masser Rai, and the collar a year. Masser Rai, C., asked for three pure-bred pigs, as his reward. Last year, Mr. Duff, d. Oxthumberland County, Ont., obtained over 100 subscribers for us, and won some pure-bred pigs, and two pure-bred holstein culfs, each of shieh afterwards won first prizes at the Campbellion that, necessity coming, as they do, from widely different points, show how popular the Canadian Dairyman and Far-aing World is in all parts of Canada. As we are receiving numerous requests for information about our offer for new subscribers, are repeat them: From British Columbia, as we not-

15

tions, at one dollar a year.

A pure bred Ayrahire, or Jersey bull or helfer calf, with pedigree for registration, for only thirty new subscriptions, at one dollar a year.

A pure-bred Holstein helfer calf for forty new subscriptions.

#### CASH PRIZES

If you do not desire to take advantage of any of the foregoing offers, we will give the following cash prizes: \$1,500 for only 1,000 new subscribers secured within a year from the time you start work, at only one dollar a maker who turns out a first-class ar-

car. \$1,200 for 850 new aubscriptions. \$1,000 for 750 new aubscriptions. \$1,000 for 750 new aubscriptions. \$700 for 555 new aubscriptions. \$700 for 550 new aubscriptions. \$700 for 550 new aubscriptions. \$150 for 150 new aubscriptions. \$150 for 150 new aubscriptions. \$150 for 150 new aubscriptions. \$35 for 60 new aubscriptions.

All the subscriptions must be new

All the subscriptions must be new and for one year at a dollar a year each. We positively guarantee to pay the prizes mentioned. Smaller cash prizes are offered for smaller lists. If you are interested, write us for sample copies, and fuller particulars. Now, while suction sales are numerous, is a splendid time to secure clubs of new subscribers. Rescure clubs of new subscribers. Reframing World is the only purely farm paper in Canada pupithed weekly for one dollar a year. Write to the circulation manager, The Dairyman and Farming World, Peterboro, Ont.

#### The Dairy Industry of Prince Edward Island

The report of the co-operative dairy business of Prince Edward Island, for 1900-7, as presented at the annual convention of the Prince Edward Island, for 1904-7, as presented at the annual convention of the Prince Edward Island Dairymen's Association, recently a state of the Prince Edward Island Dairymen's Association, recently 11 a 1906 the milk supplied the cheese factories amounted to 23,475,526 lbs., and the milk supplied cheese factories amounted to 24,423,349 lbs., and increase all told, of 556,543 lbs. To the patrons the case factories, in 1906, \$207,508,45, and in 1907, \$85,293-20, increase of \$12,174,88; of butter, in 1906, \$207,508,45, and in 1907, \$85,292,98-a decrease of \$5,285,79, So that the net increase, all told, was but \$5,858,09.

The number of patrons supplying milk to cheese factories was, in 1908, 250, and in 1907, 3,169-an increase

of 161.

The number of patrons supplying milk to butter factories was, in 1906, 662; and in 1907, 600—a decrease of 72.

The milk contributed by each patron averaged, in 1906, 9,917 lbs., and in 1907, 8,528 lbs., a decrease of 399

in 1907, 8,038 10s., a decrease of 30s 10s. a patron. The net average return to each patron was, in 1906, 876.86, and in 1907, 875.14, a decrease of \$3.59. The gross value of cheese and butter manufactured in this province was in 1906, \$357,302.86, and in 1907, \$364,-715.98, an increase of \$7,412.22.

#### Japanese Consumption of Cheese

Among other western habits that Canadian Dairyman and Far-aing world is in all parts of Canada. As we are receiving numerous requests for information about our offer for new subscribers, we repeat them:

PURB BRED STOCK

We will give a setting of eggs, of tart of the standard varieties of fowl, for only two new subscribers.

A nurse bred big, of any of the diameters of setting of the standard varieties of the catent. Already there is quite a reasonable importation of select Canada and the standard varieties of the catent. Already there is quite a reasonable importation of select Canada and the standard varieties of the catent. Already there is quite a reasonable importation of select Canada and the standard varieties of the catent. Already there is quite a reasonable importation of select Canada and the standard varieties of the catent. for only two new subscribers.

A pure bred pig, of any of the dian cheese put up in jars or jueck-standard breeds, from six to dight ages, but this is owing to a demand weeks old, with pedigree for registration, for only seven new subscription, for the foreign pepulation residing tion, for only seven new subscription.





# Creamery Department

#### Points in Judging Dairy Products

The arrangement and judgment of The arrangement and judgment of butter at shows, was a question hand-led by Prof. W. J. Carson at the re-cent Manitoba Dairymen's Conven-tion. He said that he had visited many shows, and was surprised at the lack of facilities available for handling dairy products. The defects lay in lack of means for protecting the pro-ducts from heat, and from handling by spectators. He showed a plan of a refrigerator that would be suitable a refrigerator that would be suitable for the average show, and estimated the cost of one 12 feet long, at \$30. This refrigerator was constructed on the same principle as the one used at the Manitoba Agriculture College, and it was found quite praticable to keep the temperature down to 34 degrees. The ice box should be abut a foot deep, and should run practically the whole length of the refrigerator.

cally the waves being carator.

More attention should be paid to dairy products than is now given, said Prof. Carson, and the prizes should be at least as good as those in other classes of exhibits. As a rule, where the prizes were poor, the chitis were poor. In judging but ride, where the prizes were poor, the exhibits were poor. In judging butter and cheese, a score card should be used. On this card 45 points are given for flavor, 25 for body, 15 for color, 10 for salting, and 5 for finish. Each agricultural society should print a copy of the socre card in their prize

a copy of the source that is the Prof. Carson also strongly urged the Prof. Carson also strongly urged the processity of choosing competent judges—men who were familiar with the requirements of the market.

#### Should Sell Direct

Should Sell Direct

The necessity for Canadian dealers or manufacturers of dairy products, getting in touch with foreign buyers direct, insteal of through commission merchants in New York and San Francisco, was brought to my attuntion a few days ago, reports Commercial Agent W. T. R. Preston, from Cal Agent W. T. R. Preston, from the contract of th list of future purchases, and was re-

list of future purchases, and was re-placed elsewhere.

There is an undoubted possibility of creeting a good market in the East for Canadian cheese. But this, like that of other commodities, will ssitate active business enterprise.

#### CANADIAN BUTTER IN JAPAN

The cost of transportation of butter

12,500 miles, occupying about six weeks, 310 a ton; or, if carried in cold storage, an increase of 25 per cent., making the charge \$12.50 a ton.
Calgary—Distance from Yokohama 640 miles by rail, and 4,500 miles by sea, totaling 4,650 miles, occupying the control of the cold of the

#### The Preparation and Care of Culture

as cheese-makers, must bear in We, as cheese-makers, must bear in mind that when we use a culture or starter in a quantity of milk it not only hastens the ripening of that milk, but the flavor of the cheese or butter made from that milk will depend somewhat on the flavor of the culture or starter used.

Let us look back to the history of starters, and we find they were used in the dairy industry a great many years ago. The fact that starters belped in the manufacture of dairy products was recognized years ago by

products was recognized years ago by products was recognized years ago by practical men, even before scientists recommended the use of pure cul-tures. The introduction of pure cul-tures only dates back to 1890. Prof. Storch recommended their use in Storen recommended their use in creameries in Denmark. In speaking about the different kinds of starters, we might classify them under two names: first, a natural; second, a commercial

PREPARING A NATURAL STARTER

PREPARING A NATURAL STABLES

I would suggest the selection of a number of different samples of the best milk coming into the factory into sterile glass jars, allow the samples to stand until sour, at a temperature of about 70 degrees F. The sample which coagulates into a smooth, uniform curd, and has a pleasant acid taste and smell, is the one I would use as a mother starter.

I would advise makers not to bother with natural starters. I do

not condemn a natural starter, for I believe that good starters have been made from a natural mother culture. I think the best results are obtained from commercial cultures by following the directions sent out. With the from commercial cultures by follow-ing the directions sent out. With the pure cultures we should be able to make a good, clean-flavored starter, but here is where we start our mis-takes. We assume that all commer-cial cultures are found pure, and con-tain organisms suitable for practical work in the dairy, and should pro-duce a pleasant flavor and no gas, but we should remember that commer-cial cultures are liable to become contaminated if not used as soon

opened.

It is essential to have a perfect system in preparing cultures. We should exercise care in the selection of cans, see that they are well made and seams well soldered, and provided with snug-fitting lids. For general use in cheese factories, the ordinates of the second seams of the second seams of the second seams of the second second seams of the seams of the

eral use in cheese factories, the ordinary shot-gun cans, about eight inches wide and 24 inches deep, holding about 50 pounds, answer the purpose very well, and I would recommend their use in preference to a larger can, as the milk is easier heated and coooled when in small quantities.

More care should be given to the cleaning and sealding of cans in which the starter is kept from day to day. The use of a stick or paddle, or a common dipper for stirring the milk should be discarded and replaced with a small wire-handled dipper, and used for nothing else. My the cost of transportation of butter from there countries to Japan in comparison with the freight expenses attached to the import from the Dominis quoted by Mr. Preson as folion is dealer and a number even the milk of an analysis of the milk you select. Last season I the milk on a few and as a number even the milk possible. Last season I is made a number even the milk of an ada an anterior even the milk of an ada an an and an anterior even the milk of an anales of their milk of an

# **FRICTIONLESS**

# CREAM SEPARATOR

### Here are 10 Points Wherein It Excels

and, of course, there are a great many more which you will find 2 in our Big Free Dairy Book which we will mail to you and as many of your friends as you suggest. 3 esting Dairy Book of the day. It cost us a lot to prepare, but it is 4 free to you. Send for it to-day.

1 Heavy three-ply tin supply 5 can. Holds good supply of 6 milk and is low enough for a woman to easily pour milk into it.

2 Feed cup, skim milk cover and cream cover made of pressed steel, tinned. Absolutely true, and doubly as strong 7 as the tin kind used in others.

Light weight bowl-chief cause of easy running. Very simple brake, applied at the base of the bowl, the

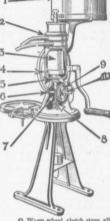
only place where a brake may be used without injury to the bowl. No wear on bowl-all cu a little leather washer.

5 Ball Neck Bearing which eliminates all wear on the spindle. Takes but ten drops of oil a day.

6 Case hardened pinion gear cut out of worm wheel shaft. No chance of working loose. Practically indestructible.

Spindle threaded to bowl. If ever wear should occur it can be unscrewed and replaced at less cost than on any other separator.

8 Three ball bottom bearing on which the point of the spindle revolves when bowl is in motion. The point costs little to renew. No wear on the spindle proper. Bowl w ll always adjust itself to proper



Q Worm wheel clutch stops all mechanism when crank is stopped, with exception of bowl and worm wheel. No lost motion in agein starting crank as clutch grips instantly and without iar to the mech-

10 Points on worm wheel shaft are case hardened until they will cut glass. Fit into case hardened sockets. Wear is reduced to a minimum. Worm wheel and its shaft may be taken out and replaced by just removing a plug on one side. Cannot be put back wrong. In fact, there is not a single part of the Frictionless Empire that can be placed anywhere but in its correct position.

Free Trial We will send the Empire Frictionless to you for free trial if you will just say so.

The Empire Cream Separator Company of Canada

Western Office, Winnipeg.

Toronto, Ont.

# Cheese Department

### Cool Curing Commended

Cool Curing Commended
The cool curing of cheese was
strongly advocated by Dairy Commissioner Ruddick, at the Dairymen's
Convention at Cowansville, Que. The
Government Illustration Station had
done good work, and in other sections
of Quebec, and of Canada, it was being followed out better than at Cowansville. The reason for apathy at
Cowansville, was that the factory was
owned by an individual, instead of
derived no good from the superior
quality of the cheese, whereas the
farmers who would derive the benefit would not put money into a cool
curing plant belonging to another
man. man.

During the last ten years agitation had been made to the Dock 'omnissioners at Liverpool and Loudon, and better cool-curing service recured. Mr. A. A. Ayer, of Montreal, pointed out that this had been the

Phis snap shot of the Chief Instructor F Eastern Ontario was taken by Prof A. Peareon of Cornell University, when was visiting Kingston during school January. Mr. Publow is standing in ont of the dairy school.

means of revolutionizing the busi-ness over there, and had caused on-large firm to lose nearly all its twsi-ness, in favor of another firm, be-cause the latter would, and the for-mer would not, put in cold storage

#### Causes of Gassy Mllk

The qualities which make milk a desirable food also render it undesirable from another standpoint. It is a splendid medium for the growth of bacteria, and, as a result of the manner of production, and the way it it is handled it is subject to contamination with bad flavors. Milkecontains about the period of the production could be producted by the production of first-class cheese. If taken in this condition is the production of first-class cheese. If taken in this condition is the production of first-class cheese. If taken in this condition it will cause a second the production of first-class cheese. The qualities which make milk a

great deal of worry to the maker, as well as the loss and waste, not only to the extent of its own self, but also to that of the whole lot.

It is the duty of every patron of a cheese factory to see that his neighbor takes proper care of his milk, and delivers it in a pure and cleanly mantakes proper care of his milk, and delivers it in a pure and cleanly manner, for the protection of an article of the highest quality. He will be doing himself a double injury if he neglects to do so. His neighbor will undo what he is attempting to accomplish, and again it is no encouragement to try to imprive conditions. Every patron who has not good cold sater to cool his milk, should put up at the cold of the

money shead, and there would be greater encouragement all round. One can of over-ripe or di-flavor milk will spoil a whole vat. As an illustration, we will take the spring of lead. The milk went to the factories in first class shape. The quality of cheese made was of the best. As soon as the warm weather came, however, the trouble began, and all kinds of bad flavors presented themselves. One of the worst was gassymilk, causing pinholes in the classes of the state of the control of

Is Making Good.—Dr. C. A. Publow, who recently accepted a position with the Department of Agricultury for the State of New York, has been so successful that his salary has been materially increased. He has been induced to remain with the Department for a year at least. Dr. Publow is a son of the Chief Dairy Instructor, G. G. Publow, of Kingston. He writes that the sums of money that are spent in the State of New York for dairy and agricultural work, would surprise the farmers of Canada.

Cheese Makers desiring situations should advertise in our Want columns.



T enables you to get every particle of butter fat from the milk. You can't get it by hand skimming. You will have fresh, warm, sweet skimling for calves and pigs—a most excellent feed. When you skim by hand, the milk is cold and stale.

of buieter fair from the milk. You will have fresh, warm, sweet skim-milk for calves and piper-a most excellent feed. When you skim by hand, the milk is cold and stale.

It saves work. You have no idea how milk the milk is cold and stale.

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It saves work. You have no idea how milk the milk is cold and stale.

It saves work. You have no idea how milk the milk is cold and stale.

It saves work. You have no idea how milk the highest grade. Everywhere it is the cream harvester was the highest grade. Everywhere it is the cream harvester users who make the prize products. That is another good reason why you should use one. The prize products of the prize products. That is not right working. The prize products of two of the best machines manufactured. The Bluebell, a gear drive machine. The Bluebell, a gear drive machine, and the Dairymaid, a chain drive machine, are both simple, clean skimmers, CAMABIAN BEANCHES: Calager, Banillon, London, Mentreal, Olivas, Refina, St. John, Wanlpeel and the milk is not right working. The milk of the cream separator. Which will be milk on request. the milk is cold and sfale. It saves work. You have no idea how much drudgery a cream harvester will save if you have never used one.
You want your dairy products to be of the highest grade. Everywhere it is the cream harvester use with make the prize products. That's another good reason why you should use one.

easy running, easily cleaned and are built to cause the least possible trouble

International Marvester Company of America, Chicago, U.S. A.

### The LOW BUTTER CUTTER Makes Accurate Prints



Can't get out of place. Hesides being very accurate the Low Butter Cutter is extremely rapid, simple and easy to operate. Four turns of a crank, and the entire box is cut and ready to wrap. Ohe man can cut HARD butter. We furnish the strongest looped wires made. Get our new illustrated folder and learn more about the light machine for Butter Bealers. Address

D. DERBYSHIRE & CO.

BROCKVILLE, ONT. Exclusive Canadian Agent

STRETCHES UP EASIEST, NEATEST, BEST

A wonderful improvement in woven fencing-that's the verdict of all who have examined the new London Woven Fence. With our improved Factory Looms we produce all even length strands-which means a far



and symmetry is not approached by any fence in your neighborhood. Every lateral, stay and lock of heavily galvanized No. 9 steel wire, of the same temper, clasticity and strength that have earned for London Fence such a high reputation. Stays are remarkably stiff and straight. will not warp or curl. The look is beautifully simple. Requires no weakening of wires by indenting or bruising. And you never saw a look with a grip so marvelously light. By long odds the biggest fence value on

the market.
AGENTS WANTED in unrepresented districts. LONDON FENCE MACHINE CO., Ltd., London, Ont.

# The Two Boys' Telephone Company

ILL HARMAN was called "an active boy." That means that he was seldom puiet for five minutes at a time, from early morning until bedtime. early morning until bedtime. For that reason he might strated your attention just now, for he has sat terminutes at least holding the just-arrived weekly journal in one hand, while crowding the other hand depint his capacious pants' pockets. It is not a nerve-thrilling story which has absorbed will's attent on so completely, but possibilities which arise from the reading of one of the display advertisements.

The announcement reads

TELEPHONES—For private lines. No rent-als. We will sell you outright, a pair of telephones, together with wire re-quired and full instructions. Outfit, \$5.00 Send cash with order, etc.

To think, with Will, was to act, in a very few minutes spent in orther cogitation, he suddenly threw down the paper, with determination, put on his hat with haste, and hurried off to join his boon companion-in all schemes and plans which were hatched by his fertile young mind.

"Tell you what," said Harry Hali, to his friend Will, the next day, as the-pair sauntered home from school, "I've learned of a way I can raise two dollars

two dollars."
"Good! How can you do it?"
"You know that mess of stones, as father calls them, down in our old grass meadow?"

'Down near the brook, where we ed to play 'Poison' most every Sat

urday?"
"Yes, that's the place. Well, father agreed to give me the \$2.00 the minute I clear those rocks from the mildle of the pasture, and pile them along the side of the wall. He's going to try for a big grass crop there the arrive.

ing to try for a big grass crop these this spring.

"Now, that's what I cell jolly! I really didn't see how you would raue so much money right off. I'll have \$2.00 by next Monday, it not a little more. Your fifty cents, and the \$2.00 this job will bring you, puts a clean five dollars into the joint fund of the Two Boys' Telephone Company, doesn't it?"
"Yes," laughed the other gaily.

laughed the other gaily. "Yes," la

"And then we'll mail a money or-der to New York, and within four days there'll be a real telephone wirs runing from your bedracm window

runing from your bedracin window to mine!"
"Hurrah!" and two boys' caps flew from two boys' heads, with an undignified flourish, totally at variance with the rules which should goren the actions of celthing.

The Saturday following the incidents just related, was a day whin, as Will declared, was just made for the transportation of the control of the requirements in this special case. Nevertheless, Harry's father was greatly surprised, upon visiting the meadow at night to find the work he desired done, so completely according the meadow at night to find the work he desired done, so completely accom-plished, and felt a littly anxious at the fear that the boys had done to: much. However, when he learned by carefully inquiry, that nine good-sized boys had assisted by the power-he, was relieved and gratified, and lost no time in making the premised pay-ment.

ment.
"You'll eat supper with me, Will,"
his friend declared, "and then w:'ll
sort o' fix up and go to the villagA post office order's about the thin,
ty get and send with the letter, isn't
it?"

"Yes, or an express order. Guess the post office arder is safer, though. The Dominion ought to be a bigg-r man than any express fellow!"

The new telephone was a success, as expected. In two weeks from the night the money order was malled, with many hopes and fears, the line was in working order between the houses representing the ends of sheline of the "Two Boys' Telephone Co."

Often the boys remained away froz each other, in order to talk over the "phone," and several times after one or the other had retired to his bod, the merry tings-ding-ling of the bi! tie bell had brought him out with a bound to learn what was wanted by the distant "office." Such an urgent case as this usually meant a conversation much after this style "Hello!"
"Hello!"
"Just coing to bed Will and

"Just going to bed, Will, and thought that I would call you up and say good-night."

"Glad you did, but I'd just got in under the bed clothes. I'm a triffe unprepared to meet company!" 'Oh, that doesn't matter. However

I won't keep you waiting—you'll be over to school in the morning, won t you?"
"Yes."

"Well, good night!"

"Good night!"

And both members of the new tere hone company slept better for the xchange of greetings, without doubt. "Come in and stay all night with

me. You say your father and mother won't be home till late to-night."

won't be home till late to-night."

"No, they went over 10 Aunt Mary's; but I have got to go home and sliek things up, and do nny chores; and I ought to be there whet they get home to help put up the betree. But I'll go right up to my room and call you up on the phone, to see how the new belle ring."

"You call me first," and Will Hurman, with a bright not was off for n'a own house, which atood quit a list the piece beyond the home of Harry Hall.

Arrived at the back door, he was

Arrived at the back door, he Arrived at the back door, he was surprised to find it not lockel.
"That's odd, father doesn't often leave it this way," was the only thought he gave the matter, however, as not an quickly up to his own round, whisting loudly, if not masically. Had he not been absorbed by the thought of the telephone, and the experiment to be made with the newly connected bell he might have heard a light step behind him. or, at least.

light step behind him, or, at least, might have caught a pasing glimps, of a shadowy figure which dogged his

passage. As a matter of fact the first intima-tion Will had of the presence of oth-ers in the house was a violent one: and he had hardly removed his coat and he had hardly removed his coat ou entering his room, before a burly strange man had grabbed him, pin-ioned his arms, and told him to "set still, or 'twould be the worse for still, or 'twould be the worse for him,' leaving the room at the sam minute, and locking the door behinding as he went.

him as he went. Here was a predicament, indeed! Father and mother away from hone-night fast coning on, and none to help him, locked as he was in his chamber. The truth fashed acras-his mind instantly that the man now engaged in robbing the house below was the same one recently reported to have stolen corses not many miles

red of the sunset clouds. He was in despair. What could he do to pre-vent his father's property being re-moved bodily from his home? And at the thought of the money, which he knew to be hidden against an approaching interest day, the boy struggled descriptions. gled desperately.

But just at that moment he hears a sound that sets his blood leaping through his veins. "Ting-a-ling-ling:"

the surprise and consternation of the unsual proceedings, Will ital totally forgotten his resources in being at the "live" end of the Two Beys' Telephone Company's line, but now he rushed to the instrument and

responded.
"Harry!"
"Yes, here I am. Had to stop and do an errand. What do you—"
"Don't say another word! Listen to me. There's a robber in the house, who has tied my hands, and locke me up in this room. You must tell your father to get help, and hurry over here to prevent his escap; There may be more than one. Hurry, Harry, for heaven's sake, but don't run risks. Slip into the house through the cellar kitchen door that you know about, and you can sur prise whoever is down there. Don:

prise wherever is down there. Don't prise wherever is down there. Don't ground the control of th

vain to capture.

And the "Two Boys' Telephot Company," is a concern now held very great regard by the families Will Harman and Harry Hall.

#### A Chance to Win

In our February 12th issue we offered to give \$2 worth of merchandise to the woman who purchased the largest amount of goods from the advertisers who advertised in that issue of the paper, setting the time limit on time contest at March 15. We have decided to extend this date, and stake it March, 30. March 30.

cided to extend this date, and oake it March 30.

Any woman purchasing articles of \$10 or over in value, from advertisers. \$10 or over in value, from advertisers to and including the Maine paper up to and including the Maine paper up to and including the Maine paper up to and including the properties of the entitled to this prize. The replies stating amount of purchases, who purchased from, etc., will be received at our office up to, and including, March 31, when the contest will close. The only stipulation to the contest, is that it must be stated that the advertisement was seen in The Canadian Dairyman and Servin in The Canadian Dairyman and Household Editor, Cadian Dairyman and Farming World, Feterboro. Ont.

#### Prizes for Our Boys

How many of our boys have chickens of their own, or would like to have some? Why not try and earn a few, take care of them, keep them for your very own, and make a little money this summer, that you can call your own money. You might even have a pure bred pig, if you would work a few spare hours for us. To every boy who sends us seven new yearly subscriptions to this paper, at st each, we will send a pure bred pig, either a Yorkshire, Berkshire or Tamworth, whichever breed you de-

sire.
To the boy who sends us only four

# The Literary Club

Edited by D. G. French, Temple Buil ng, Toronto, Canada, to whom all cor

#### Chit Chat

Chit Chat

As the Literary Club is to disband after April, so new contests are being offered. We have several to close up. offered. We have several to close up. Poem I Like Best." This contest brought many rpelies. The choice of poems was varied, among them being: Evangeline, Enock Arden, At the Mission Door, The Revenge, The Deserted Village, The Lord of Burleigh, To Daffodils, and The Hanging of the Crane. Grane of the Crane. The Content of the Crane of the Crane. The Content of the Crane of the Crane. The Content of the Crane of the Crane. The Content of the Crane. The Crane of the Crane. The Cra

#### The Poem I Like the Best

By "Daisy," Queensboro, Ont. THE HANGING OF THE CRANE.

Longfellow

This poem was written to show the American people a beautiful picture of happy home life, at a time when war had broken many homes and wandering sons were not inclined to a set-

The poem opens on the night of the The poem opens on the night of the forming of a new home, just after the ceremony of "The Hanging of the Crane," the iron hook of which swung over the fireplace for cooking purposes. The metry guests have departed, all but one silent friend, to parted, all but one silent friend, to whom, in his quuet corner, is granted a vision of the future. The first pic-ture he sees is of a table set for two, "each other's own best company." The second one shows the table, and the two again with "a royal guest, with flaces hair," his high chair for with flaces hair," his high chair for the control of the control of the control of the hitch king, whose throne is given the little king, whose throne is given the little king, whose throne is given up to her. After a time many happy faces surround the table. The last picture but one, is a little troubled. shows the two again alone, the mothbattle fields, in dread of finding in the fatal lists "the one beloved name."

The sun shines brightly over the final scene when many guests and troop-ing children fill the house, and the early bride groom and the bride, behold the scene with happiness contentment.

contentment.

My reasons for liking this poem are: It upholds strongly and beautifully the home, the highest national institution; 2, the series of pictures are drawn as vividly as if on canwas; 3, for its beautiful and appropriate figures of speech, many of them pic-

#### Subjects of Debate

At the Ottawa Collegiate Institute debates were recently held on the subjects: "Resolved, that capital punishment should be abolished;" and "Resolved, that fear of punishment has more effect on human nature than hope of reward."—(Benjamin.")

10

#### Charity Box

Every housekeeper should have Whatever else this unwelcome vistor could do, ne could the a rope about the arms of a boy so as to render his. To the boy who sends us only four new yearly subscriptions to this part of could do, ne could the a rope about the arms of a boy so as to render his. To the works, we will give a setting templetely helpless 'Bo thought's Will, as he tried in vain to withdraw his arms from their imprisonment. He glanced from their imprisonment. He glanced from the window across the attreet of green sward, over this tops of elms and cherry trees, to the loops of elms and cherry trees, to the box in closet or garret to use for this

# THE COOK'S CORNER

In an early issue, we desire to sum assume special recision of levels of a resident and a reside

#### ECCLESS CAKE

Cream % cupful of butter with 1½ cupfuls of sugar, add a cupful of sour milk, a level teaspoonful of soda, 3 level cupfuls of flour, ½ teaspoonful each of cinnamon and mace and a cupful of raisins, seeded, chopped and floured. This cake is excellent to have during the season when eggs are scarce, and, if carefully made, is very good.

#### A RICE SUPPER DISH

A RICE SUPPER DISH
Two cups water, cup rice. Put the
water in a granite saucepan with a
little salt and a cup of cannet tomato juice. When the water boils
put in the rice and boil gently until the water is all used up. Stir
frequently to keep from burning if
you have no double boiler. Then
cover and keep in a warm but not
hot place until the meal is ready.

CODFISH CAKES Cut and pick the codfish into small



whole wheat flour to make a batter. Beat thoroughly for 5 minutes; over, and stand in a warm place for \$25, hours. Then add flour risolvly, stirring all the while, until the dough is sufficiently stiff to turn on the baking board. Knead well, divide into loaves, put into greased tins, and stand in warm place till well risen. Brush tops with warm water or milk, and bake in moderate oven.

#### TEA CAKES

TEA OAKES

Put alb of flour (which should be quite dry) into a basin; mix with teaspoonful of salt and Mib teaspoonful of salt and the salt of the sal

### LEMON AND MARMALADE PIES

Lemon pie with two crusts; 1 lemon with yellow rind grated off; then take a knife and pare off the white part and chop the inside; 1 cup of sugar, 1 cup of cold water, 2 eggs, salt, little butter. This makes 2 medium sized pies. dium sized pies.

#### MARMALADE PIE

Make puff paste, roll out and bake to a delicious brown on 2 jelly cake delicious brown on 2 jelly cake When cold spread both layers tins. tins. When cold spread both layers with strawberry or raspherry marmalade. Put one on top of the other. With the white of an egg and half a teacupful of powdered sugar, beat up a meringue and spread over the marmalade on the top layer. Set in the over until meringue is slightly browned. Serve cold.

#### MOCK MINCE MEAT

MOCK MINCE MEAT

Some years ago Good Housekeeping published a mincemeat recipe
which winter after winter has been
used in our house. It contains no
used in our house. It contains no
without cooking. It has two signal
advantages, it is so easy to prepare. Then, it retains the fine fruity
flavor of all its ingredients.

The recipe referred to reads:
"Take albs of finely chopped suet,
4lbs of grated bread crumbs, 4lbs
of currants, 4lbs of raisins, 4lbs of
brown sugar, 15/18b of peel, lemon
weighed after being chopped, 2 tablespoons of cinnamon, 2 tablespoons of
cloves, 1 tablespoon of mace, 1 tablespoon of salt and 2 qts of boiled
cider." The ingredients are blended
without being boiled: put away in
jars set in a cool place, this mince
will keep all winter.





R. EDISON has perfected his Phonograph until it is a marvelous reproducer of music and other sounds. The list of Records issued each month comprises all that is good, lively, entertaining and amusing in music and spoken speech. The cost of a new Record is a small thing, yet with it you open the door to amusement if you have an Edison Phonograph.

If you have not heard the new model with the big born, go to the nearest Edison dealer and hear it, or it you cannot do that, write for a descriptive booklet. WE DESIRE GOOD, LIVE DEALERS to self Edison Phonographs in every town where we are not now well represented. Dealers should write at once to Mattonal Phonograph Co., 100 Lakeside Ave., Orange, N. J., U. S. A.

# Asked and Answered

Readers are asked to send any questions they desire to this column. Make them brief. The ditor will aim to reply to same as quickly and as fully as space will permit. Address all questions to Household Editor. Canadian Dairyman and Farming World. Peterboro, Ont.

Please tell me, through your column what Canadian cities I will find a man's Exchange?—E. H., Athens, Ont.

man's Eschangel-E. H., Athens, Ont. You will find a Woman's Exchange in Toronto on Toronto street; one to Montreal, Vancouver and Victoria. There may be smaller exchanges in other smaller cities. Write to the City Clerk in the smaller places, I'x this information. Addrepasces, I'x the information. Experience of the toronto relix.

What will take iron rust off fine white lines? Advise something that will not intro the facts, if possible.—Jessie Ruitore the facts, if possible.—Jessie Ruitore the facts will usually remove iron rust from white linen, most successfully, without injury. Mix it with water to a paste, wet the spot then spread on the paste. Hang the article in the sun, and as fast as it dries, wet again. After a lew wettings, if the spot has not disappeared, things, if the spot has not disappeared. dust off the dry powder and repeat.

What will keep away the little red ants that occasionally come in the pantry?—Agnes Fleming, Manitoha.

Place a small quantity of green sage on the shelves, and the ants will not trouble you

Please help me by sending a remedy for coffee, tea and fruit stains on table linen.

—J. G. W., Welland Co., Ont.

Tea, fruit, or coffee stains can be easily removed from linen or cotton, if butter or lard is thoroughly rubbed through the stain, before the cloth is put into boiling water.

\$2.90 COOK BOOK FOR 25 CENTS.—The Canadian Home Cook Book is a reprint of a valuable \$2.00 book, contains 750 recipes for cooking pastry, meat, vegetables, stc. Only 25 cents postpaid. Useful Novelties Co., Dept. F., Toronto.



Then Pays for a New Scale Williams Piano

WE want to place a New Scale Williams Piano in practically every home in Canada. We want those of moderate means to enjoy the delights of owning one of these superb instru-ments. Our Easy Purchase Plan points the way.

Simply by making a payment every month—you may have a New Scale Williams Piano delivered at your bome after the first payment. And you have the use of the instrument all the time you are paying for it.

The richness and elegance of the New Scale Williams Piano impress you at once. When impress you at once. When you hear the beautiful tone, you agree with musicians that the "New Scale Williams" is a masterpiece.

Write for illustrated booklets and our Easy Purchase Plan. Sent free on request. Mail the coupon to us today.

The Williams Piano Co. Limited. OSHAWA. Ont

THE PRACTICAL POULTRY KEEPER. tells all about breeding poultry, abou incubators, poultry houses, diseases and cures, etc. Only 10 cents postpaid. Useful Novelties Oc., Dept. F, Toronto, Can



**Poultry Houses** Dampness and draughts are deadly

o chickens. A dry atmosphere and n even temperature are absolutely ssential to health and productiveness Poultry houses roofed

# FLINTKOTE ROOFING

have protection not only against wind and rain, but also against extremes of temperature, dampness and humidity. REX Roofing is a non-conductor of heat and cold as well as being storm-proof and wind-tight.

10

storm-proof and wind-tight.

REX Roofing has great durability
because it is made of dense, long-fibre
wool felt, thoroughly impregnated
with weather-resisting compounds.

Any farm hand can put it on.

Local for the Born on every roll and
don't buy usines has been a present and the start of the start of

OUR FREE SAMPLES AND BOOKLET

J. A. & W. BIRD & CO.
19 India St., Boaton, Mass.
Canadian Office:
23 Common Street, Montreal



#### **Baking Hints**

If you do not want your cake to stick to the pan after it is baked, butter the dish or pan, then throw in a handful of sifted flour. Shake the pan till the flour sticks to the butter, then turn the pan bottom side up and beat it so as to remove all flour that does not adhere. Do not allow the cake to remain in the pan more than two minutes, after it is

done.

The whites of eggs, beaten to a stiff froth, with 3 teaspoonfuls of sugar to each egg, and a teaspoonful of breakfast cocoa, mixed with both, makes a good filling for layer cakes, when you do not have plenty of sweet cream; but do not try to make frosting from an egg that has been compared to the compared to t

## The "Favorite" is the Churn for a Woman



The "Pavorite" can be operated by hand or foot, or both - while you are sitting in a chair. Rasier than a sewing machine. Steel roller bearings and other improvements make it the ideal churs for farm and dairy. 8 sizes, to churn from 16 to 30 gallons of crean

#### "Puritan" Reacting Washing Machine

ered - are only two of its many improvements. Beau-tifully finished in Oak, Royal Blue or Wise Color, and Silver Aluminum, Write for booklot about these universat favorites, if your dealer does not

> DAVID MAXWELL & SONS Shi Mory's, One.

### The Washing Machine Wins

Convenience of arrangement in that Convenience of arrangement in the matter of wash tubs, boiler, and ironing boards, is the first requisite in making the ever dreaded "blue Monday" a day less to be dreaded by the whole family, and renders the extra labor on that day as slight as possible. The housewife, who has no special wash room, with stationary tubs, stove, mounted boiler, and many other of the up-to-date conveniences, can secure almost the same raults by sesecure almost the same results by se-lecting three or four cedar tubs, of sizes that will fit snugly one into sizes that will fit snugly one into the other, when not in use. A bench with legs that will fold under, and which can be set away during the week, is one of the best supports for the tubs on wash day. After using tubs, always rinse them well, nest them together, the inner tub partly filled with clear water, which is sufficfor all.

filled with clear water, which is sufficient for all.

Dirt should be boiled from the clothes when possible, thus saving unnecessary rubbing. A simple and harmless washing fluid can be made by using one can of pure lye, two ounces of liquid ammonia, two ounces alts of sartar; dissolve this in five quarts of water, bottle, core sightly a washing time. To assist this fluid in its work, a quarter, or a half, bar of soap, shaved fine into the boiler, is an excellent thing. These two form a combination which will assist in readily removing all dirt from the clothes, providing the latter are given a good hour's boiling. This leaves very little rubbing ty do.

WASHING WITH MACHINES.

#### WASHING WITH MACHINES.

A large number of our readers are using the washing machines that are advertised in most of the agricultural papers, and we have received a large number of letters from users of these machines, all of which speak in the highest and best terms of the machine they are using. Why should not the bousewife have this labor saving machine, if it makes the work .d. wash day less hard, and saves time as well as strength? The farmer has all the up-to-date labor savers for use in his work, that he can afford, and sometimes those he can not well afford. The housewife is the last on the farm to demand these helps in her work. Here is what one busy rk. Here is what one busy writes about her washing

machine machine:
"I find that with my washing
machine it takes much less time to do
the washing, in fact, it is completed
in about half the time it took me to in about half the time it took me to do it with the board and tub. It is much easier done. If I did not have the machine, I would not be able to wash at all, as my physical condition would not permit of the violent exercise caused by rubbing the clothes on a board. I also find that clothes on a board. I also find that my clothes last much longer, when washed with the mechine. The machine I have is well and substantially built, and will last me a lifetime, if properly cared for. I have used it every week for four years, and t has not cost one cent for repairs during that time. We would not take any money you could ofter us for our any money you could not replace it."

Mrs. Robert Mallory, Leeds Co., Ont.

HER CHILD CAN RUN IT.

HER CHILLO CAN RUN IT.

Another enthusiast of the washing machine, writes the following note to see that the toys they receive at parties and entertainments. I do not show they are seen to the toy they receive at parties and entertainments are acquisitions to the seen to the control of the toy they receive at parties and the toy they are a couple of the toy they are they are the seen they are the seen they are they all play "shop" most happily for a couple of hours. It is an amusement which is reserved exclusively for stormy days we then the summer holidays. My machine has not needed the slightest repairs since we have owned it, and it has received pretty hard usage. I paid \$15 for the machine, and if I could not get another I would not take \$320 long to the state of the sta

for it."-Mrs. James Ferrier, Halton

ALL THE NEIGHBORS HAVE ONE ALL TPE NBIGHBORS HAVE ONE.

From Hastings Co., Mrs. Anne McKennie, writes us that for some time past she has had a washing machine which has given the best of satisfaction. Mrs. McKennie says: "I find I can do my washing in a much shorter time than formerly, and the machine does not injure the clothes in any way. A number of people in my neighborhood have the washing machine, and all appear to be thoroughly satisfied with it."

We have dozens of other letters from women who have all found the washing machine a great help and a

washing machine a great help and a benefit to them in their work, and we should be glad to hear from any others regarding their experience the machines.

#### Disposal of Ashes and Refuse

The taking care of the little things about the house, has been responsible for the reducing of housekeeping to a fine art. The quicker and more promptly the refuse of all kinds is disposed of, the better for the health-fulness and comfort of the home.

Keep the ashes free from organic waste and they can be used to the state of about the house, has been responsible for the reducing of housekeeping to

etc.) should be cleaned and stored in large sacks, specially for that pur-pose, and placed in some dry out-house to await his next trip through house to await his next trip through the country. Do not leave any damp or decaying rubbish in dark or out of the way places. Make it a practice not to allow old papers or other refuse to accumulate in the yards, or sheds. Nothing begets dirt and refuse, like dirt and retuse itself all such places that pring, and keep them in a bet-ter condition hereafter. You will be ter condition hereafter. You will be well repaid, every time you come near the dark corners

#### The Rainy Day Box

I have a big box in the sewing room in which I put all odds and ends room in which I put all odds and ends of ribbon, silk, pretty ginsham, lace and so on. Two of my friends con-tribute scraps from their dressmak-ing and several young girls donate the toys they receive at parties main entertainments to the children as they acquisitions to the children as the moment of the children as the moment of the children as the moment of the children as th



To get full value out of your food use Boyril in its preparation. Bovril stimulates the digestive functions and is itself a nutritious food

#### Fads for Our Boys

A fad is a boy's great safeguard. A fad is a boy's great safeguard. It is almost a necessity for the boy's well-being. So when thy Jack catches flahes in the brook and wants them fried for supper, don't turn him away. Fishing is his fad for the time. Do you remember the joy of the boy of the price of your prinafore day? That wretched, yellow cur, without whom Tomme is but half a boy! Tolerate the brute, I beg of you. Pets are the most important and most numerous inhabitants of Fadville. Do you remember that stolid expressions.

you remember that stolid, expression-less doll which you confided in so long ago? Why, that doll was discretion itself, for it never told the secrets ago? Why, that doll was disc itself, for it never told the s whispered into its waxen ears. whispered into its waxen ears. And after the lights were out and you couldn't go to sleep, dollie was such good company couldn't go to sleep, dollie was such good company that you never feared the dark. If a bit of saw-dust, and a rag, and china could be all that to you, what can a wriggling, loving Fido be to Tommie? Fido never tells secrets, but he understands them. dim with sorrow, as Tomme dictates. Fido can talk. You may not under-

# We Want the Names



#### OF FARMERS WHO INTEND BUILDING OR REPAIRING THIS YEAR

To everyone sending us three or nore names and addresses of people tho will build in 1908, we will give A Useful Present

Our only condition is that the par-ties named should be actually in-tending to construct new buildings or repair old ones.

"Safe Lock" Steel Shingles " Classified" Steel Ceilings "Acorn Quality" Corrugated Sheets Sheet Steel Sidings

> "Acern" Stanchions Beath's Litter Carrier

Catalogues sent gladly on request

THE METAL SHINGLE & SIDING CO., LIMITED Preston, Ont.

"Roofers to the Farmers of Canada".



stand his conversation, but Tommie

if dogs are the boy's fad, then make a place in your home and your heart for a dog. If it is white mice, stifle your natural dislike, and re-member that the mice fad, as a rule,

member that the mice fad, as a rule, does not last long.

Jimmie is a little older, and his taste runs to catching bugs. A dead bug is perfectly safe and immensely interesting,—for Jimmie. If he wants to see what a pollywog does, leth lim have a fruit ean and a window sill for pollywogs. Trash! Not a bit of it. Not nearly as trashy as the evil Jimmie could learn if he had time to spare from bugs to go after the evil.

Johnnie likes to whittle. Don't

Johnnie likes to whittle. Don't sceld about the shavings, but be sceld about the shavings, but be late, and know where that place is thankful, an encount of the statedart with a state and the statedart with the state and the statedart with the state and Johnnie likes to whittle. Don't

your sons in that beautiful, dreamy land of Fadville.

—Taken from The Housekeeper.

# Try These

How often a page, which has a slight tear in it is left unmended until the tear gradually grows larger and then finally part of the page is gone altogether. The best way to mend a torn page is to paste over it a piece of thin waxed paper. The distribution of the page is almost as strong as when new. as when new

as when new.

A string is always handy. Wind all you string in a ball, and you will be sur, rised to find how quickly the ball wi grow. Keep it in a special place, and know where that place is. Then there will be no hunting in a hurried moment for a piece of string in the una parcel.

#### Little Helps

Left over scraps of laundry soap can be boiled into a jelly, or soft soap, for washing dishes, or shaved into the wash boiler on wash day. Try scalding milk for custard pies. Is adds greatly to the flavor of the pie. An addition of a teaspoonful of brown sugar or molasses, is also

helpful.

rubber hose long enough

helpful.

A rubber hose long enough to reach from the water supply to the atove, will save lifting the heavy pails of water on wash day. In this state of water on wash day. In this state of the hose is small, compared with the benee is small, compared with the content of the small, compared with the series of the small compared to the

out for a while.—Jean Miller, York Co., Ont.

If your mattress is a new one, or is a clean one, make two white slips, just the right size, with a two inch lap at one end. On this lap work several buttonholes, and on the slip sew the buttons. Then cover tho mattress. With these slips, the ticking on the mattress will be clean as long as the mattress is in use. Having two of these cases, enables you to have one laundered whenever necessary.—Mrs. Jack Mason, Leeds Co., Ont.

To keep pillow ticks clean, cover

to have one laundered whenever necessary—Mrs. Jack Mason, Leeds Co., Ont.

To keep pillow ticks clean, cover the pillows with covers made from the pillows with covers made from the pillows snucly. These will not require washing more than four or five times a year. Where the pillows have become soiled, they can be cleaned, by pushing all the feathers to one end of the tick, and using a brush, rinse off the tick, and using in the sun to dry—Nettle Woods, Nwa Scotias cold, or croup, take a flannel and cover with castor oil, then sprinkle with plenty of grated nutmeg and apply to the chest. Make a new application night and morning. My little one haan't had the croup since I began using it.—Mrs. J. G. Frost, Halton Co., Ont.

If you should ask prize Butter-Makers what salt they use - they would say, "Windsor." For Windsor is the choice of Canadian dairymen everywhere. Ask your grocer.

# In the Sewing Room

When sending for patterns kindly do not omit to mention the size desired. Beveral requests for patterns received lately did not give medium, size in all such cases. When ordering patterns, simply state number of pattern and size desired, it is the pattern with order. Allow a week or ten days, before pattern may be expected.



5894 Misses' Seven Gored Box Plaited

The skirt is cut in seven gores and is laid in box plaits, which conceal all the seams. The closing is made invisably at the back. The quantity of material required for the sixteen

of material required for the sixteen year size is 7% yards 27, 5% yards 44 or 52 inches wide.

The pattern 5894 is cut in sizes for girls of 14 and 16 years of age, and will be mailed to any address on receipt of price, 10 cents



5883 Shirt Waist or Blouse. 30 to 40 bust.

This blouse can be made of washable material and left unlined or it can be made of silk or of wool and used with or without the little chemi-

sette. The quantity of material required for the medium size is 4½ yards 24, 3½ yards 32 or 2½ yards 44 inches wide with ½ yard of tucking for the

chemisette.

The pattern 5883 is cut in sizes for a 32, 34, 36, 38 and 40 inch bust measure and will be mailed to any address on receipt of 10 cents.

Baby's Own Soap Best for Baby Best for You



# Take Care of Your Skin

- ¶ All Women, without giving too much attention to their personal appearance, value a nice skin.
- Baby's Own Soap is unequalled for its beneficial effects on the skin.
- It renders the use of expensive skin creams and toilet waters unnecessary.
- Do not give up its use for that of any other soap.

ALBERT SOAPS, LIMITED, MANUFACTURERS, MONTREAL

COUNTRY NOTES AND PRICES In the cause of these heavy marketings of hors, one is that financial trouble the will be only about two binds as in 180 miles and the cause of the cause of these caused to the country of the cause of the cause of these heavy marketings of hors, one is that financial trouble the cause of the cause of these heavy marketings of hors, one is that financial trouble to the cause of these heavy marketings of hors, one is that financial trouble to the cause of these heavy marketings of hors, one is that financial trouble to the cause of these heavy marketings of hors, one is that financial trouble to the cause of these heavy marketings of hors, one is that financial trouble to the cause of these heavy marketings of hors, one is that financial trouble to the cause of these heavy marketings of hors, one is that financial trouble to the cause of these heavy marketings of hors, one is that financial trouble to the cause of these heavy marketings of hors, one is that financial trouble to the cause of these heavy marketings of hors, one is that financial trouble to the cause of these heavy marketings of hors, one is that financial trouble to the cause of these heavy marketings of hors, one is that financial trouble to the cause of these heavy marketings of hors, one is that financial trouble to the cause of these heavy marketings of hors, one is that financial trouble to the cause of these heavy marketings of hors, one is that financial trouble to the cause of these heavy marketings of hors, one is that fore, one is that fore the cause of the cause of

BREDALBANE IMP (4558)

A prize winning Clyde at the Toronto Horse Show last month. Owned and exhibited by THOS, MERCER, Markdale, Ont.

At the present price of pork and the rice of feed there is a loss in every ound of pork marketed.—Richard Gibson, beleware, Ont.

HOGS ARE NONE TOO PLENTIFUL

Hogs are none too plentiful in this district. Prospects for spring business are not very bright because of the high think there is no money in hogs. There is plenty of feed to bring stock through the winter in fair shape.—D. DeCourey, Bornholm. Out.

#### PRINCE EDWARD COUNTY

PRINCE EDWARD COUNTY

ose Hill.—Timothy hay, 80 a ton;
ver, 851; mixed, 820; haled straw, 850;
s. 810; bran, 82; shorte, 854; harley,
a bu; corn, 76c; peas, 80c; tresb eges,
a bu; corn, 76c; peas, 80c; tresb eges,
ored cheese, 15/5c; white, 125/c; poced, begingers, 55; calves, 57; beed,
each; springers, 55; calves, 57; beed,
each; begingers, 55; calves, 57; beed,
beed, 50; calves, 50; calves,
beed, 50; c ns, Mc

#### WHY HOGS ARE LOW

Mr. P. B. MacNamara, Canadian Com-mercial Agent at Manchester, gives the following on the bacon market in the weekly report of March 9:

contesting on the career search and the care

regular slump in common to medium grades. On a slow market inferior stuff at any time. Moral—breed, feed and fit only the best. Prices were From 15s to 25c to 35c and 15s. The slow of th

MILCH COWS

The bulk of mich cows and springers arriving are of medium quality, with a few good to choice ones mixed in. They sell at \$50 to \$55 each, the bulk going a less than \$40 each.

They bring from \$6 to \$7 a, cwt. for the best. The bulk of those offering bring \$10 to \$10 each condition of the condition of the condition of the company of the

SHEEP AND LAMBS

Both sheep and lambs were easier towards the end of the week. Earlier, the best quality of lambs sold as high as \$7.50 a cert, but later dropped as bit, the towards are sold as \$1.50 a cert, but later dropped as bit, the towards are sold as \$1.50 and the sold as \$1.50 and \$1

HOG PRICES

The hog market seems to have reached rock bottom and taken a turn unward. So that the seems to have reached rock bottom and taken a turn unward. So the seems to have reached rock bottom and taken a turn unward. So the seems to have reached rock bottom and taken a turn unward. So the seems to have reached rock bottom and taken and fast at \$450 a cwt. This meant \$450 fo.b. at country points. The market showed a firmer tone. The seems that the seems to have the seems to have reached as the seems to have the seems to have reached as \$450 a cwt. Well hardly find sufficient supply to keep their establishments running. It is the sum of the seems to have reached as the seems to have reached rock bottom. The heat call the seems to have reached rock bottom and taken and taken as 450 a cwt. Well hardly find sufficient supply to keep their establishments at the seems to have a \$450 a cwt. Well hardly find sufficient supply to keep their establishments at the sum of t

### METALLIC CEILINGS

Are both artistic and serviceable, Popularly used by practical people everywhere.



Easily applied-most moderate in cost—fire-proof, sanitary and won-derfully durable—with countless designs to select from.

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### MARKET REVIEW AND FORECAST

Toronto, March 16.—There is more activity among stock brokers, which may be market used asing up a little. The rate raise about the same, however, and very the tight more activities and should be about the same, however, and very the tight more received and libe for colored and Easternies about the same, however, and very the tight more received and the tight more market is, shown in the later assessment of the tight more market is shown in the later assessment as it has been controlled and the market of the same and the market and the market and the market and the market and the prospects at the later and the la

#### FEEDS

The core materials with the amounts farmers hands in the United States is unch less than usual at this season. It arrading low and prices are higher ere at 7c in car lots on track and ard to get at that. There is a scardiry so a constant of the season of

HAY AND STRAW
the hay market shows little change,
ugh the embargo on hay put on hy
British Government does not apply
British Government does not apply
hands, very little is being experted,
can and the strain of the strain
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hand in bundles si3.69 to \$15.69 a
hand the strain of the strain
hand in bundles si3.69 to \$15.69 a
hand the strain of the strain of the strain
hand in bundles si3.69 to \$15.69 a

#### SEEDS

Quotations here for seeds at outside oints are as follows: Alsike \$7.50 to \$9.50, nd red clover \$10.25 to \$12 a bu., with he very best higher. The red clover tarket is firm. These are buying prices. EGGS AND POULTRY

T608 AND POULTRY
The eer market is gradually getting
we to the spring level, and prices are
real cents lower. American stock conreal cents lower. American stock conget from that quarter are quoted at
the to 20e, and Canadian fresh at 25e
25e to the trade. Stocks of limed and
ing of new laid are quite free here
d often in excess of the demand; new25e a dos. On the farmers market
wy bring 25e to 25e a dos.
25e a dos. On the farmers market
the poultry trade is very quited here
15e to 15e, young geese and ducks at
to 11e and choice chickens IZe to 15e.
b. to the trade.

RUIT

A tiverpool Canadian apples are firm.

Inverpool Canadian apples are firm a good demand for the best grades, quality is not wanted. Many lower eapples, unfit for export, have been in Montreal at auction at very low so, one car last week sold for \$2.25 high. for which \$3.25 was refused last

#### DAIRY PRODUCTS

cheese market rules quiet though are not asking less, owing to the supply. Prices are firm. At Mont-

and Wednesday.

THE SEEF CATTLE TRADE

The scarcity of feed does not account for the inferior untilty of the bulk of the inferior untilty of the bulk of the inferior untilty of the bulk of the inferior until the init the inferior until the inferior until the inferior until the i

of the so-the so-the



# GEO. KEITH, SEEDS, TORONTO

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### This Beautiful Picture in 6 Brilliant Colors Mailed to You FREE

Dan Patch, 1.55, The Pacing King Gresceus 2.02 1/4, The Trotting King We have large colored lithogra or World Famous Champion Bu ban Patch 1.55 and Cresceus 2.02;

International Stock Food Co. TORONTO, CANADA

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Let our breeders take the lesson home. The foundation of the business depends upon weeding out fully oncealed of the for breeding purposes. Get rid of this infection staff were fit in the for breeding purposes. Get rid of this infection staff were lift to does mean some sacrifice at the start. The good animals strate will be on a better footing and Canada's reputation for good breeding stock as well as good beef cattle greatly

# **GENERAL MARKETS**

PETERBORO FARMERS' MARKET.

Peterboro. March 14, 1932.—Although the roads leading to this city are in pretty fered somewhat with the demand and roads leading to this city are in pretty that the roads leading to the city are in pretty that the roads leading to the city are in pretty trade last week was the cuty of the demand and trade last week was the cuty of the demand and butter and eggs within the city of the last have and straw and poultry are very searce. There is very little hay and ciraw in this section. It is no change in the current quotations was less have been made during the last very little hay and ciraw in this section. It woo or three days at a freeding less than a dvance of one cent over that of last week. The following was the general run [2008.—Strictly new lab.]

MONTREAL PRODUCE MARKETS
Montreal, Monday, Mar. 16-BGOS. The
egg market is in a pretty bad shape just
ing about five cente a doc, and new laid
were offering freely at 25e with very
few takers, and he trade generally was
plies are light, the stocks of cold stored
and pickted being practically exhansted,
of which supplies are fairly heavy. Two
can loads of stored eggs are being ship
ped back here from the weet and are expected here octoby or Tuesday. They

ABSORBINE

Cures Strained Puffy Ankles, Lymphangitis, Bruises and Swellings. Lam en ess and Swellings. Lam en ess and Allays Pain Quickly without Blistering, removing the hair, or laying the horse up. Pleasant to use £2.60 per bottle, delivered with full directions. Book 5-C, tree.

ABSORBINE, JR., for man-ind, 81.00 Rottle. Cures Strains, lout, Varicose Veins, Varicoccie, lydroccie, Prostatitis, kills pain. SFEDUNG, P.D.F., 123 Monmouth St., Springfield, Mass Canadian Agester STRAN 8038 & CO., Mentreals

THE J. A. MCLEAN
PRODUCE CO. LIMITED
Exporters and Wholesale Dealers

Butter, Eggs and Cheese
74-74 FRONT STREET EAST,
TORONTO. - OANADA.

Some of our larger breeders, who bank upon their reputations to sell their stuff, visited on sor Chanda's oldest and largers breeders of Shorthoras, will apply to some others. At lease 18 young buils in the local cheese in trade is alled.

Some of our larger breeders, who bank upon their reputations to sell their stuff. Climber of the content of

EXPORT BUTTER AND CHEESE TRADE.

EXPORT BUTTER AND CHEESE TRADE.

Montreal, Monday, Mar. i.e.—There is nothing doing in the cheese trade. As far as can be ascertained no sales were made in the cheese trade and the cheese trade in the cheese to go around. and little likelihood of any squeese. Prices are unchanged here, holdings were trade in the cheese trade

MR. J. H. PATTEN'S HOLSTEIN SALE

MR. J. H. PATTENS HOLSTEIN SALE
The Helstein sale of J. H. Patten, Paris,
One, held on Thursday, March E. proved
a pronoused success. The entire herd,
numbering 26 head fewered of which rance
di nage from see weeks to a year old,
of \$130 a head. The total amount realized
from the entire sale reached almost the
\$5,000 mark. The toppers of the sale
\$5,000 mark. The total amount mechiculate
before the sale
\$5,000 mark. The total amount mechiculate
\$5,000 mark. The tota

DUNROBIN CLYDESDALES

The sale of Dunrohin Clydesdales, the property of D. Gunn & Son, held at Beaverton, on Thursday last, was a suc-



AUTHORIZED CAPITAL, \$2,000,0000.00

Special attention given to the business of Farmers, Cattle Dealers, also the accounts of Cheese Factories and Creameries. Sales Notes discounted. Money Orders issued payable at any banking town. Farmers' Notes discounted. Money loaned for grass or stallfeeding cattle. Municipal and school section accounts received on favourable terms.

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STOCKWOOD HERD OF AYRSHIRES stands for everything that is best in this Dairy Breed. Our success in the show yards proves the exce FOR SALE-Stock of both sexes. D. M. Watt, St. Louis Station, Quebec.

STONE HOUSE STOCK FARM Importer and Breader of Clydos-Stock of all ages for sele, including choice young bulls. Enquiries promptly answered and satisfaction guaranteed. Hector Gordon, Howick, Quebec.

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are headquarters for the profitable feeders. The Summer Hill type of Yorkshires is different from the rest. That's why they win wherever shown. Our herd has won more first prizes during the last six years at Toronto, London, Pan-American, Chiesgo international and St. Louis, than all other herds combined, right—and you will be right if you buy Summer Hill Yorkshires.

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1 HAVE FOR SALE Pigs of all ages, both sexes, from eight weeks to eight the old, sired by such Stock Boars as Woodstock Laddie and Polgate Doctor's I. All true to type and prize-winning stock. Call and sec or write for prices. DOUGLAS THOMSON, Woodstock, Ont. C.P.R. & G.T.R.

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AVRSHIRES Of the Highest Dairy Type and of the Choicest Milking Strains.
FOR SALE—At all times young stock of both sexes. Enquiries by mail promptly answered. R. C. CLARK, Hammond, Ont.

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#### Gossip

EDWARDS, DRUMMOND AND WHITE SALE

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FOR SALE—Cheese and Butter Factory, well equipped capacity 200,000; situated in a good dairy section. Easy terms. Apply Box 4. Canadian Dairymen and Farming World, Peterboro', Ont.

FOR SALE.—Two De Lavelturbine separators 3.500 lbs. canacity, also one Farring; on Duplex Pasteurizer, 1.000 lbs. capacity per hour. This pasteurizer is specially suited for a milk dealer's business, handling both milk and cream. Apply to Box L. Canadian Dalryman

FOR SALE—Clover cutter for Poultry, on stand almost new, and other supplies. J. H. Callan der, Review office, Peterborough, Oni. BARRED ROCKS and BUFF ORPINGTONS-Hest strains—bred for utility—fegg record hard to equal—feggs \$1.00 per 13. \$4.00 per 100. Wilbur Bennett. Box 258, Peterborough, Ont.

FOR SALE—6, sores, it miles from the city of Brantford; brick two storey house, frame barn cochard, 130 clerry trees, 25 apple. The property, with horse, cutter, wagons, sleights, and the grant of the property with horse, cutter, wagons, sleights, and the property with horse, cutter, wagons, sleights, and the grantform of the property with horse cutter, wagons, sleights, and the grantform of the property with horse cutter, wagons, sleights, and the grantform of the property with horse cutter with the property of the prop

WANTED.—A cheese factory to rent in the vicinity of Kingston. Ont. Must be up-to-date and large capacity. Apply by letter, staring particulars. T. R. BLANCHARD, 65 St. Mark St., Montreal, Que,

Brougham, Ont. Pine Grove Missie 8th, 17631, 27708, sold for \$505, and goes to help build up, a herd for J. J. Mitchell, Burrell 1990, and the state of the state

a courieous and masterly manner.

The sale, advertised in this issue, under the Auspiese of the Myrtle Sales Association, to be held at Myrtle on March Pith, 1968, gives to those in need of good on the properties of the properti

The Best Telephone.
The farance in the Twoship of Maidstone and Tilbury West. Rochester, in
Essex County, Ont. recently installed a
rural telephone line, so that there would
being installed, the Twenship Council took
every precaution to find out what make of
telephone would give the best all round
ways, the most satisfactory. In order to decide this question the services of an expert
ever employed. After comparing the
finally awarded to the Northern Electric &
Mrg. Oo. Led. of Montreal. This is the
strongest evidence that can be given of
ever all others. The Best Telephone

Canadian Pony Society

Canadian Pony Society
The Ontario Horse Breeders' Association will have to choose new directors, the recent elections having been declared illegal. This was made known at a meeting of the Canadian Pony Society held at Toronto recently. Messrs, Pepper, Robinson and Somers, with the president and «cretary, were appointed a committee to investigate the status of the Canadian Pony Society, as regards the Ontario Horse Breeders' Association. It is proposed to hold a pony shu this coming aummer. Mr. W. R. Mead presided. this coming summer. Mead presided.

#### Azoturia

What do you recommend as a remedy for horses suffering with asoturia? We have had several cases of his disease in his disease in the several case of his disease in the several case of this disease have usually resulted disastrously because of lack of prompt attendance. We would like to know of a remedy that we could beep on hand in case of emergency.—3, B., Otherst country, Ont.

and an and large cancelly. Apply by letter and the state of the state

# HE DEERING

GRAIN GUTTING WITHOUT INTERRUPTIONS



WHEN the grain is tipe you want the work of harvesting to go right along. You cannot afford to be annoyed by breakages and delays. Breakages and tinkering with the Breakages and tinkering with the knotter or other parts to get them to work right means more than vexatious delays. It means expense and it may mean that you will not get your grain harvested in good the grain harvested in good The Deering binder comes nearer giving you insurance of uninter-rupted work than any machine you can buy.

can buy. What can be more satisfactory to the grain grower at the beginning of harvest than to have a machine he

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right working but it harvests all the grain. It handlestall and short, light and heavy, down and tangled grain all to a nicety and with least possible loss. Machines are made in 5,6,7 and 8-foot cuts. In addition to grain harvesting machines the Deering line includes binder twine, mowers, tedders, sweep rakes, side delivery rakes, hay loaders, stackers, corn machines and tuile grinders. Also ments and seeding machines, comprising disk drills, shoe drills, hoe drills, cultivators and seeders, smoothing, spring-tooth and disk harrows, land rollers and scufflers. Also gasoline spring-tooth and disk harrows, land rollers and seufflers. harvest than to have a machine he Also gasonus bugines, and machine. It has stood the test in thousands of harvest fields, and thousands of harvest fields, and thousands of harvest fields and the stood that the stood Also gasoline engines, cream separators, hay presses, feed grinders, wagons, sleighs, and manure spread-

### Clydesdale Fillies

A number of fine imported fillies, sired by such horses as Everlasting, Royal Chattan, and Prince of Carruchan, now on hand and for sale. Good value will be given for the money.

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J. WILHELM, Specialist on Generation

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WILHELM & MOORE, Shakespeare, Ont.

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Five Fine Imported Clydesdale Stallions, of choice breeding, for sale. Fifteen Good Shorthorn Bulls at a reasonable price.

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Three Imported Stallions and one
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And a number of Young Boars fit for
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Canada's Greatest Herd of Herefords

Won at Toronto, 1907—1st, Senior Herd; 1st, Junior Herd; 1st, Herd of 4 Calves; Junior Bull Champion; Bull and Heifer Calves, 1st champion and grand cham-pion, Females any age.

JOHN A. GOVENLOCK, Forest, Out It is desirable to mention the name of this publication when writing to advertisers.

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A telephone in your house is just as much needed as a stove for

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town, vinge or tarming district and once the temporals pand for it belongs to you.

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The nails are "concealed"—can never pull out. Galt "Sure-grip" Shingles lie so closely to the roof that they really might be said to be cemented on. And they lock together in the tightest kind of a grip. These shingles form a solid armor of galvanized steel, affording not the slightest opening for wind to get under. drop off or blow off; neither can they rust or burn off.

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We have been using WYANDOTTE DAIRYMAN'S CLEANER AND CLEANSER for the past two seasons, and think very highly of it. I know nothing so good for cleansing Dairy and Factory utensils; it will bring the dirt out of anything.

We, like yourselves, are anxious to see more "Wyandotte" used, because it means cleaner conditions with the Dairymen. We shall make a special point of distributing samples am Yours faithfully.

(Sed.) B. BOX. Manager

This is typical of any number of commendatory letters received by our Australian Agents. Mr. Cheese and Butter Maker, are you indifferent to your patrons

using Wyandotte Dairyman's Cleaner and Cleanser? Or can you cheerfully say "No buttermaker from Australia can ever be more wide awake than I." My patrons too, share this Wyandotte enthusiasm with me and fully appreciate the benefits which this unusual Cleaner brings them.

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The J. B. Ford Company SOLE MANUFACTURERS, WYANDOTTE, MICH., U.S.A.

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