

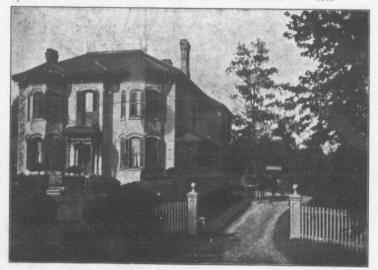
VOL. XXVIII

NUMBER 1

RURALHOME

PETERBORO, ONT.

JANUARY 7 1909



"SUNNYSLOPE," A BRANT CO., ONT., FARM HOME

The prosperity evidenced in the illustration is largely due to the system of mixed farming, and to dairying, which is practised on this and other farms in that section. Mr. J. H. Cornell, the proprietor, has been connected with the producing end of the dairy business for years. His farm of loam soil, consists of less than 100 acres. On it he keeps an average of ten milch cows, from 20 to 30 head of young stock, as well as a considerable number of pigs and poultry.

He also counts on raising from one to three colts each year.

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A Reputation Unequalled



THE MONEY SAVER

LINK-BLADES

CLOSE SKIMMING

EASY OF OPERATION

SELF - BALANCING BOWL

Used by thousands of Canada's best farmers

Backed up by the reputation of the House of Derbyshire

Recognized in the leading dairy countries as the best Cream Separator made

The foundation stones upon which the

has built its reputation are actual facts, of the indestructible kind They are not the imaginary kind, made of sand, that are easily destroyed when the machine is in actual operation. The name of Derbyshire stands for all that is good for dairying in Canada and it would not be used in connection with a cream separator unless that machine was worthy of a place in any dairy in the Dominion. The sales of Link-Blade Separators during 1908 were the greatest in the history of the machine. This is a strong evidence of its increasing popularity.

Start the year with a Link-Blade.

D. DERBYSHIRE & COMPA

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WE WANT AGENTS FOR A FEW UNREPRESENTED DISTRICTS

COAL AND ICE ICE TOOLS HANDLING MACHINE ord Wood

desirable to mention the name of this publication when writing to

Percherons vs. Clydesdales

Fercherons vs. Clydesdales
Ed. Farm and Dairy:—I have been
greatly interested by the letters in
your journal such by the letters in
your journal the above caption.
Never but once in life did I aim
to breed any horse other life did I aim
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consumed as any other animal. But
he is too light to handle the heavy
to-day, and in many cases he is too
nervous and high strung for an ideal
farm horse.

nervous and high strung for an ideal farm horse.

For about 30 years, we have had in this section both grade Clydesdales and Percherons. I am free to say that the latter have many point, that compel my admiration. They are smoothly made, clean ut animals, with better necks, he. ds and limbs so far as contour is concerned, than any smoothly made, clean, cut animals, with better necks, he ds and limbs so far as contour is cornect, than any Clydes. They are free meditarily made and the samppy movers, all horse, and for the snappy movers, all horse, and for the snappy movers, all horse, and for the snappy made of the snappy movers, all horse, and for the snappy movers, all horse, and though no expert in judging horses. I have never yet seen a Percheron in which I could not pick a really serious are some of the snapped of the snapped and the snapped an

horse."
It is not surprising then, that the grade Clyde is here fast displacing the grade Percheron though the latter had the first inning. If surprise grade percheron the grade guite possible that we were unifortunate in our choice of foundation stored of the French horse. If he is worthy, many of us would gladly see him on his way to the front again.—L. J. Flower, Queen's Co., N.B.

A Profit in Quebec Hogs

Ed., Farm and Dairy—In your editorial, "An Impossible Suggestion." published in your issue for December 9th, you said that the idea had been advanced at various times that the packers should keep the price of hogs at a reasonable figure, and you claim that the sum of practical. I agree, the property of the canadian Record of Performance work and provided the property of the Canadian Record of Performance that the packers should keep the price of hogs at a reasonable figure, and you claim that the sum of practical. I agree, the provided history of the sum of performance work which work which the provided history of the sum of performance work with the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work with the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Performance work and Dairy—Report No. 1 of the Canadian Record of Per Now, however trying to breed th packer

In case any of our readers may not have seen our an-nouncements in former issues they will be surprised to receive this, the first issue of the New Year, bearing the name of

FARM AND DAIRY

The only change that has been made in The Canadian Dairyman and Farming World is in its name (the former name was too long). This is the same paper under the same management. It will continue to be a bright, interesting and helpfu as it has interesting and helpful is it has been in the past, and will be published weekly at the same old price—only \$1.00 a year.

raise, the better they find hogs pay. They aim to get two litters a year from their breeding sows. The spring litters are turned out to pasture as soon as the clover, rape, or alfalfa, has grown enough to provide feed. These fields are enclosed with a regular farm fence and then divided into sections with what they call here a long fence, about 26 inches to .30 limbing the control of the contr Tae gre

When the hogs are four to four and a half months old, they weigh from 125 to 150 lbs. The farmers claim that they cost them less than three cents a pound up to that stage. They are then put into smaller enclosures and their feed changed to one of a and their feed changed to one of a fattening nature. Being in a good healthy condition they put on from 1½ to 2½ lbs. fat a day and are soon ready for market at a weight of 175 to 199 lbs. The best ones are sold and their places filled by the best ones out of younger litters. After our farmers get the rotation well started there is scarcely a week in which they do not scarcely a week in which they do not sell two to six nice hogs at from \$5.75 to \$7.25 a 100 lbs. live weight depending on the time of the sell that the sell

to \$7.25 a 100 lbs. live weight depend-ing on the time of year, and the ques-tion of supply as well as on the Danish killing which rule all markets. Our farmers are beginning to raise more of their own feed. They find that roots, ensilage, etc., make good that roots, ensilage, etc., make good (bat roots, etc., make good (bat roots

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FARMAND DAIR RURAL HOME FORMERLY THE CANADIAN DAIRYMAN AND FARMING WORLD

Vol. XXVIII.

FOR WEEK ENDING JANUARY 7, 1909.

No. I

THE GRANGE AND ITS OBJECTS WHY FARMERS SHOULD ORGANIZE

E. C. Drury. B.S. A., Simcoe Co., Ont., Master of the Dominion Grange.

The great Aim of the Grange is Education and Influence. It is Broad, Patriotic, Reasonable and Worthy of the Support of All

THE farmers of Canada should be organized in order that they defend their own interest against those who would encroach upon them. We are not conjuring up any fictitious bogey-man, when we say that those interests and rights are very seriously threatened, and that if we, the farmers of Canada fail to take action now, we may, twenty-five years hence, find that the time has passed, that we have lost that which nothing short of a revolution could restore to us.

One of the great characteristics of the present age, in the New World, is the thirst for great wealth, and the successful scining of the few to concentrate in their hands the wealth that should belong to the many. In the republic to the south, this has already taken place to such an extent that it is said that nine-tenths of the wealth is held by one-tenth of the people. In that country fabulous fortunes have been amassed, a permanent aristocracy of wealth with all its attendant evils, has been created, and the very fabric, social and political, of their democracy, is threatened.

WHERE OPPRESSION FALLS

In our country the same influences are at work. Corporate interests, organized capitalists, promoters of various sorts, and a score of other interests are constantly on the alert to secure from a drowsy public, favors for themselves by which they may gather wealth at the public expense. While these work great harm to the country at large, their oppression falls most heavily on the one great unorganized industry, agriculture.

This burden on the farmers is already making itself felt in a great many ways. The farm population of every province east of Manitoba is actually decreasing, that of Ontario at the rate of over 6,000 per year. Even in the West, town population is increasing much faster than rural population. It was shown three years ago, before the Tariff Commission, that the best managed farms in Ontario were not paying five per cent on capital actually invested, above the wages of those who work them.

FAF.MERS SUBMIT TO TARIFF

In the face of these facts, the farmers of Canada submit to a protective tariff which is of no advantage whatever to them, and which costs the ts farmers between nat. o. \$1.77 cer in increased prices to favored industries. We allow bounties and bonuses to be paid to industries which have no claim to them. We allow our railways, which we largely bonused at the time of their building, to pretty well escape taxation. In short, we allow ourselves to be exploited by every interest which is better organized and more far-sighted than we. Surely it is time we were on the alert, if we would enjoy that measure of prosperity to which our industry and thrift entitle us, if we would leave to our children that independence which was hewn for us by our fathers, out of the wilds of this country, and if we would save our nation from the parasites which would fasten themselves upon it.

CHARACTER OF THE GRANGE

The one organization which is of a national character, and which aims to deal with these questions, is the Grange. This order has been in existence many years, and in the past has done some splendid work for the farmers of Canada. But, owing to some misdirected enterprises which it undertook of late years it had fallen somewhat into the background. The Farmers' Association formed some few years since also did good work, but, because it lacked in its mode of organization, it failed to reach the bulk of farmers, and did

I have been delighted with the dairy articles in The Canadian Dairyman and Farming World. Many of them bring back the good old days at the Ontario Agricultural College, and I so often hit upon the very thing I want, when my memory needs refreshing. As for articles on stock and general farming, they are read, studied, and discussed with every fresh issue.-J. C. Brown, Welland Co., Ont.

not accomplish all it should. But, a little over a year ago these two organizations united. The experience of the past in the organization of farmers was drawn upon, and, cutting out all those features of previous organization which had seemed to hinder their work, a beginning was made in the great work of organizing the farmers of Canada. So far, good success has been met with, and we look forward to the future with exceedingly strong hopes.

EDUCATION AND INFLUENCE

The Grange does not seek to create a new political party, but rather to work through and on, existing parties. It does not engage in buying, selling or manufacturing, as its experience in these things in the past was not entirely satisfactory. It has two great aims-Education and Influence. It aims to get the farmers together and to educate them on questions initial to their interests, and then, when public opinion has been formed in this way, to give it such an expression backed by a strong organization, that our Government no matter what political party may be in power, will not dare turn a deaf ear to the just demands of the farmers.

The foundation unit of the Grange movement is the Subordinate Grange. These organizations

are run with just enough of formula to give interest and order to their proceedings. Their main object is to get the farmers together, to promote discussion, and to enable them to form clear opinions on the public questions of the day, which are brought to their attention by the central organization. But they accomplsh more than this. They are meetings when all questions relating to agriculture may be discussed. The Department of Agriculture are engaged in establishing Farmer's Clubs throughout this Province. and we would commend them heartily for the work, but it is worth while to point out that all the advantages of the Farmer's Club are possessed by the Subordinate Grange in the discussion of agricultural matters. Further, the Grange posses an important means for improving the social life of rural communities.

The Dominion Grange, which meets once a year is formed by delegates appointed by the Subordinate Granges. It is intended to give expression to the opinions of the Order generally. Public questions are discussed, resolutions passed, and steps taken to urge the wishes of the farmers on those in power.

PROSPECTS OF THE MOVEMENT

Will this movement for farmer's rights succeed? It will, provided only we can get the country well organized. If even one-third of the farmers of this country were organized in this way, knew their own minds, and how to ask for what they want, no political party would dare resist them, and the days of favored interests and of the exploiting of the public for the benefit of the few would speedily cease.

In conclusion I would call upon all farmers who are interested in the future of their sons, of their calling or their country to help with this work of organization. The Grange does not interfere with personal liberty in any way, it is inexpensive and simple, and it seeks to accomp-lish nothing that would injure our nation in any way. It is broad, patriotic, reasonable and worthy of the support, not only of every farmer, but of every public- spirited citizen.

Should be Thoroughly Discussed

Thos. MacFarlane, Carleton Co.. Ont.

The subject of "The Bacon Hog" as dealt with by Professor Day in a recent issue of The Canadian Dairyman and Farming World interests me very much, as I keep pure bred Yorkshire hogs, bred of imported stock. I am opposed to too many varieties of pigs for it seems impossible to get uniform sides of bacon under such conditions. Neither can I see where dairying can be carried on profitably without the hog to consume the surplus whey or milk.

The Dominion and Ontario Government should take this matter up, as it will be a serious loss to the farmers of Ontario if we lose the British trade. I would be in favor of appointing a commission to tour Britain and Denmark, where they make hog raising a success, in search of information upon the most important questions. I would like to see this matter thoroughly dis-

Send a Commission to Denmark

H. McNish, Leeds Co., Ont.

The articles in The Canadian Dairyman and World re the bacon trade have greatly interested me particularly so because I was one of the first to advocate the raising of more bacon hogs by our Dairymen. In the early eighties Canada was importing hog products instead of exporting them. I saw no reason why, with superior advantages Canadian Dairymen had in their cheap by-products from the dairy, they should not only supply the home market but export large quantities of bacon.

It has been a great satisfaction to me to see how the export trade has grown during the past ten years.

No one regrets more than I to see the figures this past year or two growing the wrong way.

It is to be admitted that there are local causes for this falling off in the export trade. The past two years have been poor years for the production of milk, which of course materially lessened the cheap pig feed. Grain has been unusually high and pork has ruled low for the past 12 months. With these two extremes it certainly has made the production of bacon hogs, on a large scale, unprofitable. I have not been one of the large producers, but my yearly output will average up pretty well. For the past ten years I have not turned off less than 100 hogs a year and sometimes up as high as 210.At present I have not one that I am feeding for pork.

Now what puzzles me is the statement made by the Matthews people to the effect that the Danes are buying the very grain that we Canadian farmers do not think profitable to feed to hogs and are producing bacon and selling it to our customers at a profit. If this is a fact, why is it? Are the Danes more skilful feeders than the Canadians, or do they get more for their hogs than we Canadian farmers do? This bacon question is a very important one and as a nation we must not allow any trade that we have once secured to slip away from us.

I have great faith in the ability of the Canadian farmer. He is an intelligent man and I believe can hold his own against all comers with equal

To get at the very roots of this matter I suggest that a commission be sent over to Denmark to inquire into the question and find out at whose door lies the fault, whether it lies with the packer or with the farmer. Send good practical men, men who can go into all the details from the time the pig is weaned till it is put on the consumers'

Such a commission would not cost much and I am sure would be worth many millions if they could stay the decline in this most important trade.

The Seed Question

W. J. Stevenson, Ontario Co., Ont.

Considerable discussion is going on at this season of the year while the seed shows are on, relative to the sowing of good pure seed. Let us first consider what is required of a seed. The seed is nothing more nor less than a store house of plant food, intended to nourish the germ until the root and leaf are developed. The germination to take place, moisture, oxygen and a suitable temperature are necessary, under these conditions the seed swells, oxygen is absorbed, a part of the carbonaceous ingredients is oxidized, heat is developed, and carbonic acid is evolved. During these changes the solid ingredients of the seed gradually become soluble; the starch and the fat are converted into sugar.

With this supply of soluble food the root and leaf stem are nourished; They rapidly increase in size and burst through the coats of the seed. If the external conditions are suitable, the root and leaf commence their separate functions.

How important then to select large plump seed

that will be able to supply the food required until the root is established in the soil thus giving the young plant a good start in life. Sowing large and small grains will never produce the same results as large plump even seed. The smaller seed being weaker is apt to be buried too geeply and this can not reach the surface as quickly as large and it consequently suffers in the race.

Planting Trees on Stony Land

The planting of forests on absolute agricultural soil in the older parts of Ontario is not advisable, but there is in many agricultural sections of the province considerable waste lands in the form of steep hillsides, sandy or rocky soils, which could with profit, be covered with trees. At the request of a subscriber living in Northumberland Co., Ont., for information regarding the planting of a piece of stony land to a wood lot, we herewith publish an extract from "Farm Forestry," Bulletin 155 by E. J. Zavitz, B.A., M.S.F., lecturer on Forestry at the O.A.C. In forest planting we are



Senator D. Derbyshire, Brockville, Ont.

Senator D. Derbyshire, Brockville, Ont.
The annual correction of the Eastern Ontario Dalrymer's Assertion correction of the Eastern Ontario Dalrymer's Assertion of the Eastern Ontario Dalrymer's Assertion of Correction of the Co

limited to certain species of trees owing to various factors. Some of these factors are

1. Hardness and rate of growth. 2. Nature of soil to be planted. 3. Kind of wood crop desired. 4. Availability and cost of planting material.

"In choosing species to plant, the original growth of forest in Ontario gives us some knowledge as to the possibilities of our native trees for re-foresting. With the evergreens, some of the more important species in relation to re-planting are: White Pine, Red Pine, White Cedar, or Arbor Vitae and White Spruce. Of the native species of hard woods, the following give promise of usefulness, Red Oak, White Elm, White Ash, Black Locust, Black Walnut, Black Cherry, Sugar Maple, Manitoba Maple or Box Elder, Whitewood or Tulip. One of our best guides in re-planting will be found in the original natural distribution of trees. Through many generations certain species have become adapted to certain areas having certain conditions. Such distribution may be spoken

of as geographical and local. Geographical distribution depends upon climatic factors as temperature, rain fall and atmospheric moisture. Local distribution depends on local varia-

tions as quality of soil drainage, exposure, etc." Probably the best varieties of trees for planting the piece of stony land in question to wood lot would be, White Pine, Black Locust, Red Oak, Chestnut and Rock Elm. These varieties would furnish a very desirable crop of the different sorts of wood required in a wood-lot. If it is desired to make a solid plantation of one variety probably White Pine would give the best results. From the information available it would appear that the Black Locust is a very desirable tree to plant for wood-lot purposes. It is a hard wood and a very rapid grower. It is also very desirable for fencepost puposes. We would suggest as being a most satisfactory combination, White Pine and Black Locust. Possibly it would be best to set the plancation out all White Pine and afterwards fill in the blanks with Black Locust. If it is desired to have good wood for fue! purposes, one had better plant Red Oak, Sugar Maple or Rock Elm. As these latter are much slower growers, the White Pine and Black Locust are to be preferred for ordinary planting.

The Clover Seed Midge

Arthur Gibson, Chief Assistant, Division of Entomology and Botany Otlawa.

During the past season the clover-seed midge has done serious damage in districts of Ontario, where clover is grown for seed. Many complaints have been received from farmers of the presence of the small legless, pink maggots in their clovered at threshing time, and some anxiety has been felt as to whether these would mature, and affect the crop of next year. In the samples received, all the maggots were dead and shrivelled up.

The life-history and habits of this insect are well known. There are two broods in the season, corresponding with the two crops of clover-seed. The eggs are laid in the forming flower heads of the clover; when these hatch, the maggots penetrate the seed pods and destroy the seed. When the larvae are full grown, about the end of June, they leave the clover heads and enter a short distance into the ground, to change to pupae. The perfect insects, forming the second brood, emerge from the ground, just as the second crop of clover is coming into flower, and the females, at once, begin to lay their eggs amongst the forming blossoms. These eggs soon hatch, and, about the time the seed is ripe, the maggets leave the clover and enter the ground to pass the winter, whence they emerge again the next spring, just at the time the clover comes into flower.

Experience has taught farmers that the practice of feeding off their clover fields with cattle and sheep until the beginning, or middle of June, or cutting it before the 20th of that month, is the only way to secure an autumn crop of seed; thus the maggots of this first brood are destroyed by the cattle eating them, or they dry up with the clover hay which has been cut before they were mature enough to leave the heads of clover and go into the ground to pupate and change to the perfect insect, which is a small midge. If the clover is left standing in the fields till the end of June, a sufficient time elapses for this latter process to take place, and the perfect flies emerge again just in time to lay their eggs in the opening flowers of the second crop. In this way the seed of the second crop is destroyed, as well as that of the first

As mentioned above, in all the samples of infested clover-seed received this autumn and early winter, the maggots were already dead and dried up; consequently there would be no advantage in destroying, by burning such material. At threshing time, however, if the living maggots are noticed, it would be a good practice to have all screenings swept up and burned.

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Three Bushels Where Before He Got Two

John C. Shaw, Oxford, Co., Ont. A short time ago an article appeared in The Canadian Dairyman and Farming World on "Plowing Corn and Root Land," by John Fixter of Macdonald College, Quebec. I cannot agree with the article in full, especially in regard to the deep cultivation after corn and roots.

When I was a young man on my father's farm my work was to plow and prepare the ground. The prevailing idea at that time was, that success in a crop of roots depended on the great depth in which the plowing was done. Observation and experience has long since proved to me that the heaviest yields of roots, corn and grain can be produced from light plowing of about five inches, accompanied with surface cultivation.

For roots I do not plow any deeper, but I follow with a deep cutting cultivator throughout the hoeing season, being careful not to bring any of the subsoil to the top. The heaviest crop of roots I have ever grown has been from the surface preparation of the soil; and I am quite satisfied that I am reaping easily three bushels from shallow cultivation where from the deep I reaped but two.

Plowing Corn and Root Lands
Thos. McMillan, Huron Co., Ont.
Having noticed a discussion of the above question in some of the recent numbers of the Farm and Dairy, I am entirely in accord with the views of Mr Brethen of Peterboro County regarding the mistake made by some in plowing our corn and root lands in the fall, after these crops have been removed.

This decison has been reached on my part after a number of years experience along this line. For three years in succession I adopted the method of plowing one-half my corn and root field in the fall, and just cultivating the other half of the field, giving the whole field a shallow cultivation in the spring, before sowing to grain crop and grass seeds. In each of the three years I had upwards of 10 bushels of mixed grain per acre more, and as well a better stand of clover on that portion which was confined to surface cultivation.

Of course, such a system of surface cultivation pre-supposes that during the growth of these crops the land has been so thoroughly cultivated, that the weeds are all destroyed, leaving the land after the crops are harvested, as clean as after a thorough summer fallow.

The various field crops usually grown in a regular rotation, may be divided under three heads. First, we have the soil enrichers, such as clovers, peas, beans, and all the other legummous crops, Secondly, there is what may be called the soil cleaners, such as our corn and root crops, in the growing of which we are able to cultivate and clean the land, and lastly we have the soil impoverishers, or those which (if sold off the farm) tend to deplete the soil of its fertility.

PLOWING IN FALL

Such a division tends to outline a proper system of rotation which may be followed, and which may be lengthened by a year or two in pasturage if desired. With a soil which is infested with noxious weeds, I follow the practice of plowing the clover stubble directly after removing the hay crop, and cultivating during the fall months as a preparation for the corn crop the tollowing season. If the land is clean, however, I allow the clover plants to grow on till the late fall, sometimes harvesting a second crop of hay, a crop of clover seed, or plowing down the aftermath, but I always follow the method of plowing the clover sod in the fall. I find that the land plowed in the fall will hold the moisture the following season, better than if left till spring before being plowed.

In manuring for the corn crop, as we always do, I like to keep the manure on the surface soil, where it can be worked into the surface soil, during the process of spring cultivation and preparation of the seed-bed. In having the clover sod plowed in the fall, upon which is to be grown our corn and root crops during the following season, the manure is drawn directly from the stables in winter and spread broad-cast upon the surface of the field, when it is ready to be incorporated into the surface soil in spring. To overcome any difficulty with the long strawy portion of the manure, all the straw is now cut during the process of threshing, which renders it more easily handled in every particular.

APPLYING MANURE

By applying the manure in this way, and upon the surface of the plowed land, it is placed just where it will do the most good to the growing crop, and any weed-seeds it may contain are held sufficiently near the surface, to germinate and be destroyed during the work of summer cultivation. As a result, when these crops are removed. the surface soil, to a depth of three or four inches is quite clean of noxious weed seeds, and on being loosened up is the very best portion of the soil for receiving the grain and grass-seeds the following spring and giving them a rapid start; Therefore, it is a great mistake to turn that surface soil under, and bring to the surface other material which has not been so subjected to such a

weed-cleaning process. Any system of cultivation

Champion Angus Bull at Toronto and London, 1908 Owned by James Bowman, Wellington Co., Ont. A low-set "soggy" fellow, well this year than ever before.

fleshed and carrying it well down to his hocks.

given should be such as to retain the surface soil on top and thus ensure a clean seed-bed and the best condition of soil for the crops which follow.

Upon well drained land the clover plant as Mr. Brethen says is the best sub-soiler we can have, as it sends its long tap root down into the sub soil where its little fibres gather the mineral matters, the phosphoric acid and potash, storing these up in the structure of the plant where they are held and supplied to future crops. With such ability coupled with the means of being able to make use of the free nitrogen of the air (the most valuable element of plant food) and also store it up in its structure, the clover plant is the most important and most profitable crop which can be grown. It is the foundation of all successful agriculture wherever it can be grown and may well be called "the farmer's friend."

Toronto Fruit Market

Although the fruit growers of Ontario have been shipping their fruit to Toronto under very unfavorable market conditions during the past few years, considerable improvement has been made during the past season but there is yet plenty of room for further efforts in this direction. These points were brought out in the report

of the committee appointed by the Ontario Fruit Growers' Association to investigate these matters and which was read by Mr. H. St. C. Fisher, of Queenston at the convention of this association held in Toronto in November. Mr. Fisher pointed out the efforts that had been made by this association towards bettering the fruit market facilities in Toronto. "In order to better the conditions that existed a year ago," said Mr. Fisher. "The Grand Trunk Railway has had the old Scott Street Fruit Market renovated in such a way that now there is probably four times the floor space that was available a year ago. Other needed improvements were made, particularly in the matter of lighting. The repairs cost the G. T. R. about \$4,000 and our thanks are due them.

country and we should not rest until we have built in Toronto, one of the finest fruit market buildings on the continent. Toronto is worthy of such a market as it is the best market for choice fruits in Canada. Fruit growers should aim to send to this market, as to all others, a high standard of perfection in their fruit, quality before quantity, and every package honestly packed. If these things are observed, the price will take care of itself.

"This association should appoint a standing committee to deal with this matter of a suitable

fruit market in Toronto until such is secured. It should do its best to show the City Council that if they wish to hold the fruit trade, they must, as soon as possible, build a suitable market to which all the transportation companies will have access on equal terms.
"The Canadian Express

Co., working in conjunc-tion with The Michigan Central and Grand Trunk Railways," continued Mr. Fisher, "have done much during the past season towards landing the fruit shipped from Queenston and intermediate stations in the Toronto market without delay and in good, marketable condition. We have had better facilities

It is hoped that the

company will do more for growers in future. "The Dominion Express Co., working in conjunction with the Niagara Navigation Co., did their part at our end of the line, but when the fruit landed in Toronto, there was no decent place on the wharf for the commission men to handle it. It had to be loaded from the fruit trucks to waggons or drays, carted across the railway tracks to the fruit market and there unloaded again. The same is true of the fruit that is shipped from St. Catharines and vicinity to Toronto. It is well known that the oftener that fruit is handled, before the market is reached, the less it is worth. All these things go to show that the fruit market conditions in the city of Toronto can yet be greatly improved upon."

If the average farmer can get cows testing 3.5 per cent. and giving large quantities of milk, they will obtain better results than with cows testing 4 per cent., which give less milk, as they will have the extra by-products from the larger quantity of milk. Milk testing 3.5 is good enough for factory purposes as well as for city use. I like cows that give milk with a high butter fat test. but have been informed that such animals are more subject to tuberculosis.-G. A Gilroy, Holstein Breeder, Leeds Co., Ont.

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PUT ON IN 1885

Perfect Protection in 1909

Metal Shingles may be "guaranteed" to last for 25 years-and not last five.

When a house has been making Metal Goods only a few years, of what good is their "guarantee that their shingles will "last a life-time."

They don't know themselves how long their shingles will wear because they have not had time to put the shingles to the test.



METALLIC SHINGLES

MADE IN CANADA FOR 24 YEARS

Don't forget that-Made in Canada for 24 Years. In use, right in your own province, for 24 years. Proven lightning-proof, fire-proof, leak-proof, w.nd-

The guarantee that goes with "Eastlake" Shingles is backed by 24 years' test. You don't take risks, you know.

There's the "Eastlake" Cleat—the improvement that makes the "Eastlake" Shingles perfect. An entirely original idea, patented, and found only in "Eastlake" Shingles. Let us tell you all about it. Write for catalogue.

The Metaliic Roofing Co., Limited TORONTO Manufacturers WINNIPEG

Agents wanted in some districts. Write for particulars naming this paper.

Directory

Realizing that organization is the order of the day in all occupations in life, the farmers of Morewood, Ont., decided to follow suit and be in the decided to follow suit and be in the race. We accordingly organized a farmers' club which has in connec-ticn with its produce directory. This organization was formed, mainly, for the interchange of ideas, social inter-course, general enlightenment and to encourage the young men to be able course, general enightenment and to encourage the young men to be able to express their thoughts in a tangible shape and be able to command an aushape and be able to command an au-dience without being subject to "stage fright," should the occasion arise. Also, that these young men may ask questions of the older men who have had more experience, and that they may be encouraged to adopt new methods. methods.

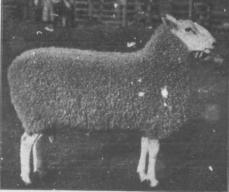
A Farmer's Club and Produce shall be as prompt as possible in car repetition of buyers. A time limit of seven days is allowed for cancellation. after which offenders will be subject to the penalty of a fine, to be determined by the executive. This constitution may be added to as occasion requires

Annual Meetings in Toronto

You wou the follow 1. How to 2. How to wm. Wi The following Annual Meetings wilgarm. We he held in Room "G", King Edwardshate we Hotel, Toronto, during the time of the 3. What Horse Show, Jan. 12th to 15th: missed hay The Canadian Pony Society, Tue-3. 4. Would day, January 12th, at 8 p.m.

The Canadian Shire Horse Associas farm, rath tion, Wednesday, January 13th, a street. on a tion, Wednesday, January 13th, a street. The following Annual Meetings willing

The Canadian Hackney Horse Soc. 1. Alfal tty, Thursday, January 14th, and good 1 30 a.m.



he hav w A Typical Border Leicester Shearling Ram First in his class at the Newcastle Royal Show, 1996, and winner of the Challenge Cup as best Border Leicester. Bred and owned by Messrs. Arch. Cameron & Sons Westelde Farm, Brechin. value as a siderable.

The Produce Directory in connection with the club allows the members to register anything they have to sell, such as, horses, cows, pigs, potatoes, grain or in fact anything on the farm.

The directory is to be placed at the post office, or some other place of prominence in the village so that anyprominence in the village so that any-body requiring anything may find out who has the same without loss of time. Thus it is a benefit to both parties inasmuch as it saves the buyer from having to travel around the whole country to find what he Yes! we will gladly send you this Frictionless Empire, with its easier cleaned skimming devices, its lighter bowl, its simpler and smoother running mechanism, its frictionless bearings, and guaranteed to skim as close

The rules that we have formulated

The rules that we have formulated and adopted, will give one a good idea of our organization. They are:

1. The organization shall be called the Morewood Farmers' Club and Produce Directory. An annual fee of 50 cents per member shall be charged.

2. The board of management shall consist of president, vice-president, secretary-treasurer, and a board of four directory. four directors.

four directors.

3. The annual meeting shall be held
on the first Friday of December of
each and every year. Regular meetings shall be held on the first Friday each month.

4. No member shall be eligible vote or to receive any benefits of the organization unless his fees are paid up in full

The object of this organization

The Canadian Clydesdale Associa on, Thursday, January 14th, a

7.30 p.m.
The Ontario Horse Breeders' Association, Friday January 15th, as

FEEDING IRON SULPHATE.-Will gree opperas hurt a mare that is carrying a sal?-W. G. W., Victoria Co., Ont.

No. If necessary to administer On such iron sulphate or copperas to a pregnant mare it is quite safe, but it is unwise to give medicines to any horse unless to keep there is some disease or fault to correct. This applies especially to breed in such a

KEEPING HORSE'S BLOOD IN ORDER

The idea that periodical adminis-tration of drugs is necessary to keep a horse's blood in order is all wrong. a horse's blood in order is all wrons. Healthy horses require no drugs, in fact it is very unwise to give any Good care and careful feeding keeps a horse healthy, where any allment occurs medicines whose actions are such that they should correct the fault should be given in proper coses, but the less medicine a healthy animal gets the better.

Clover hay is better than timothy hay for colts. Keep the colts growing well.—A. G. McKenzie, Oxford Co., Ont.

Our Veterinary Adviser

Hints o Give some nent of hor g in conc ssible.

oderate q ecessary, moderate ran, 10 lb f roots, reed most in the mor imilar por ion of hay Water befo mixture the mo

orses are orses are would be traw taker Groom the omfortably

-What is good to give horses occasionally to keep their blood in order?-W. L. B. Craigville, Ont.

5. The object of this organization shall be to benefit each other by means of discussion and debates regarding farming and the uplifting of our profession.

6. No political discussion shall be allowed on penalty of being expelled.

7. Any member selling an article that is registered in the directory animal gets the better.

"EASTLAKE"

proof, rain-and-snow-proof, wear-and-rust-proof by 24 years' resistance against storms and climate.

CREAM SEPARATOR

Easily and Thoroughly Cleaned Skimming Devices to half-clean other skimming devices.

To keep the skimming devices perfectly clean is of first importance, otherwise the quality of the cream suffers—profits diminish.

The majority of skimming devices are hard to clean. Some next to impossible to clean perfectly. But the Empire cones are easier than any others to keep clean and sweet.

They are of sheet steel, six in they are of sneet steet, six in number, pressed into shape after fourteen distinct operations. They are accurate to a fraction, fit to a nicety—and it's utterly impossible to put them together wrong.

Light and nice to handle. The Light and five to handle. The surfaces are smooth as china, with no crack, joint, seam or rivet to catch the albumen and impurities of the milk which stick like glue if given a chance.

Nothing could be simpler than to take our brush and wash out these cones, as shown in picture. Inside and outside, every part readily accessible easier to clean the thoroughly than



as any other Separator made, for free trial in your own dairy.

ble in car-

FARM MANAGEMENT be determined that the solution of the solutio

You would favor me by replying to the following questions: 1. How to grow and handle alfalfa? 2. How to distribute manure on the Toronto 2. How to grow and handle alfalfar
2. How to distribute manure on the
farm. What crops return the greatest
value when manured?
3. What is the value of a ton of good etings will

ng Edwar time of the

time of the 3. What is the value of a ton of good listh; mixed hay for manure? icty. Tues. 4. Would you advise buying feed hay m. at \$15 a ton to feed cattle on your own the Associal farm, rather than having the eattle windle Associal farm, rather than having the eattle windle and the state of \$6 a head.—A. M. S., Waba, Ont.

Horse Soc. 1. Alfalfa requires well tilled land 14th, ain good heart and thoroughly drain-ed, and should have been manured the previous season, preferably with a hoed crop. It should be thoroughly worked in the spring, then seeded down with about 25 lbs. of seed per acre. If a few bushels of surface soil from an old alfalfa field could be tered over the field in question, ter results might be anticipated.

not use any nurse crop. Do not move any crop first year. Clip with a scythe or a high cutting mower Clip with

seythe or a high cutting mower two or three times in the season. Do not clip later than the first or second week in September. 2 Manure should be applied fairly trequently to different fields, rather than in large quantities, and at long intervals. Following a four or five intervals. Following a four or five rear's rotation, applying manure on the hoed crops, such as roots, corn or potatoes, will give the nost profitable returns. If the hoed crop cultivated is not sufficient to utilize all the manure, then it should e applied on meadows rather than on grain.
3. Good mixed hay contains about

3. Good mixed hay contains about 30 lbs. of nitrogen, 9 lbs. of phosphoric acid, and 12 lbs. potash. At current manurial value this would make the hay worth about \$6 per ton for manure. But, in addition to this, its a \$80m so it will be a be a producer of humus is considerable, so that I should say that arm, should be worth about \$10 a Associal on as fertilizer.

14th, at 1 should very certainly advise uping hay at \$13 a ton to feed stock lears' As-50 your own farm rather than having 15th, at \$6 or \$6 a head on

Will gree

iters' As-9n your own farm rather than having lith, aithem wintered at \$5 or \$6 a head on traw at a neighbor's. My experience s that \$5 or \$6 a winter cattle look like \$5 or \$6 a winter cattle in the apring.—J. H. Grisdale, Agriculturst, C. E. F., Ottawa.

Hints on Caring for Horses Give some hints on care and management of horses.—A. M. S., Waba, Ont.

salay may and find you maintiful along the lowest lying parts, if it is intended, to mount for some hints on care and management of horses.—A. M. S., Waba, Ont.

In the minister of horses.—A. M. S., Waba, Ont.

In the minister of horses.—A. M. S., Waba, Ont.

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In the minister of horses.

In the horses the horses hould be fed so the surface soil, and should have a fall of the surface soil, and should have a fall of horses.

In the morning, and at noon give a limitar portion of grain, a fair portor of hay, and the straw at night, all minister of horses.

In the morning, and at noon give a limitar portion of grain, a fair portor hay, and the straw at night, all the hay. Where healthy a the most satisfactory. Where healthy hay a to deeper not bed, and more less than the horses are not working, straw may replace at least half the hay. Where horses are not working, straw may replace at least half the hay. Where horses are not working, straw may replace at least half the hay. Where horses are not working, straw may replace at least half the hay. Where horses are not working, straw may replace at least half the hay. Where horses are not working, straw may replace at least half the hay. Where horses are not working, straw may replace at least half the hay. Where horses are not working, straw may replace at least h arrying a

Where heavier horses are tilated. Where heavier horses are used rations would need to be in-creased. A fair rule for a hard working horse is a little better than 1 lb, of oats a day and a little less than a lo. of hay a day for each 100 lbs. in weight of the horse. That is, los. In weight of the horse. That is, a 1600 lbs. horse should have around 17 lbs. oats or meal, and around 16 lbs. of hay a day when at hard work.—J. H. Grisdale, Agriculturist, C. E. F., Ottawa.

Queries Re Cattle

1. What breeds of cattle are best for aising stock for the market?
2. What month is best for having the

What month is best for having the cows calve in?
 What breed of milk cows give the largest net gains, and yet are fair in the beef market?

the beef market?

4. Do you know of any man who has a good milking class of cows? Give his address.—A. E. M., Waba, Ont. 1. Shorthorns, Herefords and Aberdeen Angus are the cattle that produce the best steers.

2. Cows to produce calves intended for beef had better drop them in March, April or May, preferably

3. There is no breed of milk co that gives a large net gain for milk, and at the same time a fair carcass of beef for the market. The milk-

ing Shorthorn probably comes near-est filling the bill.

4. Any breeder of pure-bred Ayr-shires, Holsteins or Jerseys, could supply you with such animals as you supply you with such animals as you require, or if milking Shorthorns are needed, then I might refer you to the Central Experimental Farm, Ottawa See the live stock adevrtisements in this issue.—J. H. G.

Feeds for Young Animals-Draining Land

1. What are the best feeds for young animals, say, calves and fillies? (1) For growth: (2) Fitting for exhibition? 2. How should I proceed to drain some low land?

1. Good, clean, mixed hay, clean oat straw, bran, oats, roots and ensilage are all suitable for calves and fillies for good growth. Where they are to be fitted for exhibition, then the addition of oil cake meal, corn meal and in some cases barley to the bran and oats would prove ad-vantageous. For growth, one or two pounds of bran with a little oats addpounds of bran with a little oats added, would be sufficient for either calves or fillies. For feeding for show, two or three pounds, and even slightly more, might be fed during the last part of the feeding period.

2. To drain low land, the first requirement would be to find a good outlet for the water, then if underground grading is introduced to.

ground grading is intended, to lay a good main tile along the lowest ly-ing part of the field. Later on later-

Farmers seem to have caught the spirit of doing things quick as well could not do that with Old Tom, and as town people. In several instances so to do things quick the auto is so to do things quick the auto is their nearest of a markets with their to be catching all over Indiana as their nearest to be catching all over Indiana as market, at 6 a.m., and getting back Farmer.

ALL AUTHORITIES

Recommend CARBOLIC ACID for the Treatment of Contagious Abortion

COOPER'S FLUID

Contains 60% PURE CARBOLIC ACID. Is made from PURE CHEMICALS and is free from tar impurities. Send for Booklet A.

To the first 50 readers applying for our Booklet A., we will send a FREE SAMPLE, Express Paid, of this truly marvelous dip. This is the last time this offer will appear.

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BE UP-TO-DATE USE A "CHAMPION EVAPO-RATOR" IN YOUR SUGAR BUSH

You will find it very profitable to do away with your oldfashioned outfil and install a "CHAMPION EVAPORATOR" which will do your work in less time with a saving of fuel, and at the same time produce a much finer quality of syrup and sugar. Send for our Illustrated Cata-



"Champion" Evaporator

THE GRIMM MFG. CO.

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TO EARN THAT BIG SALARY, LEARN RAILROADING. A LITTLE FIGURING.

Whatever your present monthly salary may be, multiply it by 12, and find your yearly income. Will it amount to \$1,690,80, the salary shown above? Do you earn one-half that amount? If not, why not?

FIREMEN AND BRAKEMEN Earn from \$75 to \$150 per month.

With the rapid progress of railway building in Canada it takes only from two to three years to be ador conductor, whose

earn that money. We can start you for it.

BAY RECEIVE

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With the rapid progress of railways building in Canada t takes only from two to there years to be adranced to engineer reconductor, whose sularies are room 80 to 10 years are years to the room to the room to the reconductor, whose sularies are room 80 to 10 years and years and years are room to the room t

Canadian Railways.
Our free booklet tells all about our system of teaching. When writing, state age, weight and height. Address t When

THE DOMINION RAILWAY SCHOOL Dept. R Winnipeg, Canada.

mention the name of this publication when

January 7, 1909.

HORTICULTURE

Resessossossossossos Co-operation and Apple Marketing

P. W. Hodgetts, Secretary, The Co-operative Fruit Growers of Ontario

The apple shipping season of 1908-9 has been a peculiar one. An abundance of bloom in the spring gave promise of a large crop everywhere. The reports of the apple dealers were that the fruit had set well, and there would be an abundant crop, that a large crop was expected in Europe, and that with poor trade conditions in both continents, apples would be a drug on the markets. Everyone was looking for low prices, and early the season accepted low prices.
t apples have been increasing steadily in value, until now prices in the local markets and in the large cities in the United States are away beyond the reach of ordinary individ-

In the Old Country, prices for In the Old Country, prices for early apples were comparatively high, and led exporters to hurry up shipments of later varieties. These were picked and shipped during the long, hot drought, with the result that most of the fruit arrived in wretched most of the fruit arrived in wretched condition, not only slumping the market for the poor stuff, but spoiling the sale of that of good quality. When the weather cleared, market conditions improved and prices for good fruit have regained a fair market value. The one point noted about the conditions are considered to the conditions of ket value. The one point noted about the reports from Great Britain is the difference in selling price of good fruit and poor fruit. Not a week passed but attention was called to the fact that too much fruit of ordin-ary quality was being sent forward. ary quality was being sent forward. The difference between sound firsts and seconds and slacks during the season was from four shillings to as high as 11 shillings per barrel with wasty selling from two to three and a half shillings lower still. Yet many of our growers still persist in neglecting to spray, claiming it does not pay, or are willing to allow any kind of a packer to put up their fruit so long as it is safe into the barrels and out of the road.

EXTENSIVE PLANTING OF ORCHARDS

A notable feature of the horticultural press during the year was the report of extensive plantings of apple orchards. This was not confined any one section of the country, extended all over the continent, from north to south, east to west, being north to south, east to west, being specially noted, however, in the northwestern states and British Columbia. This has now being going on in the west for some years, with the result that every year large acreaing the state of the result that every the total processing the state of the result of the property of the processing of the state of the property of the property of the property of the west are losing no time in getting after the eastern markets, During December a large exhibition of western box apples was exhibited specially noted, During December a large exhibition of western box apples was exhibited in New York, and attracted great attention, largely owing to the even grading and packing of the fruit. Similar exhibitions are now being shown in the chief trade centres in Great Britain by British Columbia and the western states. and the western states. In the latter instance it is entirely at the expense of the growers themselves, and with the sole object of opening up new markets, not for their lands but for their fruits. The strict horticultural laws providing for compulsory spraying, orchard inspection, etc., and the great care exercised in packing and shipping only first class fruits, toshipping only first class fruits, to-gether with good organizations for

marketing, is already showing results in the splendid prices being re-ceived for their produce.

Markets previously given over en-tirely to eastern fruits are now being

invaded by the western men. Ontario must wake up to the new conditions if she expects to hold the prominent If sne expects to noid the prominent place for her apples that she has done in the past. That she can hold her own, is true, for the writer has seen the actual returns for Ontario-boxed apples shipped during the present season from several sources, which compare most framewhere its contraction. which compare most favorably with any received from western orchards.

USE OF BOXES

The use of the box for No. 1 fruit has increased very largely during the year, and we trust that this increase will still continue. The very fact that only good fruit must go into the smaller package will tend to force our growers to obtain a greater per-centage year by year of the higher class apples from their orchards. Our co-operative fruit growers' associa-tions should be the ones to lead in this movement, and indeed some have already shown their influence in this

One of our horticultural journals aptly stated in a recent issue that the great need of the present time is not that the growers shall produce more fruit, but that they shall produce that the growers shall produce more fruit, but that they shall produce better fruit. This applies, perhaps, mire to the pele than any other fruit grown in Ontario. We export to Great Britain alone some years a million barrells. How much better it would be for both fruit grower and dealer if this quantity was cut down to half a million if necessary, and the quality raised even 50 per cent. Ontario's reputation would go up accordingly. The only parties to suffer would be the transportation companies and the commission houses. panies and the commission houses, and neither have shown much consideration in the past for the poor grower.

As co-operative associations formed

to aid others as well as our-selves in building up a great industry in the best agricultural province in the Dominion, shall we not go forward into 1909 determined to do all that lies in our power to make the coming season a "quality" seaall that lies in our properties of the coming season a "quality" season? Get after your members early and late, in season and out of season, and late, in season and cultito prune, spray, fertilize, and culti-vate their orchards as never before; and last, but not least, to pick, grade and pack the 1999 crop in a manner that will bring nothing but credit to cur associations and to our country. May that crop be a bountiful one, big in size and numbers, rich in color, and flavor, and worthy of the province that produced it.

Fruit Market in Birmingham

J. E. Rac, Canadian Commercial Agent

For the guidance of apple exporters, I may say that the Birmingham market is wel stocked at the present market is wel stocked at the present time, consequently low prices are ruling. It would be judicious if Can-adian apple exporters would retain their stocks until after the Christmas holidays. The market is always glutted at Christmas time.

I went through Smithfield market yesterday and inspected barrel after barrel of apples from British Colum-bia and Nova Scotia. The fruit from bia and Nova Scotia. The fruit from both provinces was exceedingly fine,

but much that came from Ontario was not up to the anticipated stan-dard. Barrow's stores devoted a large window to a display of British Columbian apples which were the delight of crowds of spectators. The apples of crowds of spectators. The applies were a Lyapificent color, large in size and solid in flesh, and Birming-ham, I feel sure, will look forward to these British Columbian shipments year by year, if the quality is maintained.

Pears are commanding a price at the present time, as doctors are now recommending them to in-valids instead of grapes. The retail price in Birmingham for good varieties is 6d. (12 cents) a pound.

LAND for SETTLEMENT

Lands are offered for settlement in some cases FREE, in others at 5 CENTS per acre, in various district

in NORTHERN ONTARIO. Write for information as to terms homestead regulations, special rail

way rates, etc.

THOS. SOUTHWORTH, HON. JAMES S. DUFF. Minister of Agriculture

The SUCCESS MANURE SPREADER



OLDEST NICEST WORKING BEST WORK LIGHTEST DRAFT

The "Success" has the largest rear axle and strongest drive-chain of any Spreader made. Its site of the control of the strongest drive-chain of any other points covered by atrong patents. Our catalogue tells all about I and gives much valuable information for farmers. Write for it.

MANUPACTURED BY

The Paris Plow Co., Limited. WESTERN BRANCH: WINNIPEG, MAN. PARIS, ONTARIO.

A FREE COURSE

Ontario Agricultural College

We will pay the board and railway fare to Guelph and return, of any one living within 75 miles of Guelph, who is interested in the short winter courses in Horticulture or Live Stock and Seed Judging and who sends us a club of 25 new yearly subscriptions to Farm and Dairy at \$1.00 each. Parties living within 175 miles of Guelph, must secure 35 new subscriptions at \$1. each in order to obtain this free course.

Remember each subscription in the Club MUST BE A NEW ONE, and taken at \$1.00 a year.

The short winter course in Horticulture opens January 25 and ends February 6. The course in Stock and Seed Judging opens January 12th and runs for 2 weeks.

25 New Yearly Subscriptions at \$1 each, entitles you to either course, ABSOLUTELY FREE, or we will accept 20 new subscriptions at \$1 each and \$3.75 in cash, or we will accept 15 new sub-riptions at \$1 each and \$7.50 in cash.

An opportunity to learn Stock and Seed Judging. ALL FREE for only a FEW HOURS WORK among your neighbors. Write

CIRCULATION DEPARTMENT,

Peterboro, Ontario

HOW TO BUILD A GOOD FENCE

January PO

Fee

No fixed regard to fe will require er, and so er, and so others, so ment as to ing. Poultry of animal, foods, ther yourself wit of food as

locality.

Let it be pers should grains such dlings, etc. charcoal an grains such buckwheat, should be as often as the fowls should only HOW T During la Morning, tv

milk, one q bran we'll m ten to sixte bone. At fo After the go out an wheat ar shed to set they can see red beets, or once or twice bone, gives birds show e

ing, cut out above cost n 10 cents a ping sold near at 22 cents the cull of m about 56 cen n winter qua \$42.96 less if out a few eg before our laying.—F. i

Pr Mrs. Fred. very good a try papers, thens from v six months, I began wi

and they wer for. In ord-must go bac began breedi I noticed fromy hens werers. My her but as I had my health a of it, I spe flock; consecutive of each indithat some much more that these w

TheC

Feeding The Lavers

district district

No fixed rules can be laid down in regard to feeding—the heavier breeds terms will require more food than the small-ier, and some fowls eat more than others, so we must use some judgment as to how and what we are feeding. To simply the state of the small regard to the small r

Let it be understood that your hop-ber is been deed to the contain crushed grains such as oats, corn. bran, snid-dlings, etc., with oyst:: shell, grit, charcoal and beef scraps. All whole grains such as wheat, corn cots, rye-buckwheat, and even millet seed, should be fed in the litter morning and evening, using a different grain as often as possible, so as not to tire the fowls of any one grain. Corn should only be fed at nights. HOW TO FEED THE LAYERS

R

e

HOW TO FEED THE LAYERS

should only be feed at nights.

HOW TO FERD THE LAVERS

During laying we feed as follows.
Morning, two quarts of warm skimmilk, one quart of shorts and one of foran wil mixed. At noon give them ten to sixteen ounces of green cut those. At four-o'clock, one-half gallon of whole corn in the litter.

After the birds have gone to roost, I go out and scatter one-half gallon of wheat and oats in the scratching shed to set them to work the minute they can see. A cabbage head, a few red beets, or a mass of boiled potatoes to be seen the seen of the birds show evidence of two minutes they can see. A cabbage head, a few red beets, or a mass of boiled potatoes to be seen they can see a seen they can see a seen they can see a seen they can be seen they can be seen to be s

Profitable Hens

Profitable Hens

Mrs. Fred. Wilcox, who writes some very good articles in American poulty papers, Italia how she bred the 24 hens from which she made \$900 in six months, as follows:

I began with the right kind of birds, and they were properly fed and cared and they were properly fed and they began breeding the White Wynadottes I noticed from the first that some of my hens were better layers than others. My hens were not trap-nested, but as I had taken up this work for my health and am passionately fond of it, I spent much time with my flock; consequently I became quite accurately acquainted with the merits of each individual hen. I saw, too, that some of the chicks matured much more rapidly than others and that these were the first to lay and

Black Watch Black Plug The Chewing Tobacco of Quality.



POULTRY YARD To be a layers. Therefore I began to breed only the best birds. Of course, all the time I kept one eye on the Standard of Perfection while with the other I closely scanned the course.

with the other I closely seamed the egg ballot. The control of the

seventy-one days ago.

When people understand the importance of thorough breeding success will be more easily attained and failures will not be so numerous.

A Pretty Good Record.—A farmer's Western yarn.—F.C.E. wife in the Eastern Townships, Quebec, has 40 White Wyandotte pullets, hatched April 1, that on October 15, is arranging to have a poultry insti-

had laid 60 dozen eggs—an average of 18 eggs each. It is no wonder that from her flock of 40 hens she each year sells in poultry and eggs \$300.00 worth of stuff

Short Poultry Course.—From the second to seventeenth of February a special course in poultry will be given at Macdonald College. Those wishing information regarding it should write the principal.

Why Don't They Advertise?—The poultry editor of this paper is continually getting requests for poultry. Naturally he will refer them to those who advertise in this paper. So fee he advertise in this paper. So far he has not been able to find sufficient ad-

An Egg Story.—A Methodist minister in Alberta sends me the report that a farmer has an egg from his flock that measures nine inches one way and seven inches the other. He hints that we should get some of these hens at Macdonald College. Had it not come through the source it did, it not come through the source it did, I would have put it down for a Western yarn.—F.C.E.

ONTARIO HORSE BREEDERS' **EXHIBITION**

> UNION STOCK YARDS WEST TORONTO JAN. 13, 14, 15, 1909

Over \$3,000 in Prizes Entries Close January 2nd

All horses exhibited will be stabled in the Exhibition Buildings. For Prize Lists, Entry Forms, and all in-formation, address

A. P. WESTERVELT, Sec., Parliament Bldgs., Toronto WM. SMITH, President

tute at the close of the poultry course in February. He is getting some good speakers and there ought to be a profitable time for poultry men who can attend.

Renew Your Subscription Now.

Mounting an Eagle

Lock

Field

on Frost

Erected



BIRDS AND ANIMALS!

\$20 to \$50 Weekly Easily Earned

Let us teach you the wonderil art of Taulderny. You can hearn at home in you spare time to meant birds, animals, game heads, thines, to tan all lious of the sand first; make rugs, fine robes, oic. Protessionals make from 1500 to \$100 to \$

We Absolutely Guarantee Success or Refund Tuition Fees FREE for a limited time only, our beautiful illustrated Box on Taidemy, Sample Copy of the TAXIDEMY MAGAZINE, Sample Diploma and full information how we teach this fascinating the Copy of the fascinating the Copy of the fascination of the Copy of the fascination of the Copy of the fascination of the Copy of the Copy



Frost Agents have Reasons to "Crow." They increased their sales 25 % last year. Why not join them?

Nine out of ten Manufacturers, Merchants and Agents will tell you that last year was a "lean" business year, yet "Frost" Agents did not find it so. They increased their sales of "Frost" Products 25%. Do you wonder that they are crowing?

There are reasons for the conspicuous suc-cess of "Frost" Agents. The reputation of their goods gives them an influence no other Pence Ageuts have. They have the most complete line: Woven Wire Fence, Field Built Pence, Ornamental Pence and Gates. No order they cannot fill. They can supply every possible fence requirement.

They are able to sell fencing of the

famous " Frost " quality at a rate that makes the price for inferior goods appear highly unreasonable, to say the least.

On account of its elasticity, the farmer has great faith in Coiled Wire for horizontals in his wire fence. Without that springiness or elastic feature, wire fence will, as you know, soon become slack, unsightly and fail to give the service required.

"Frost" Coiled Wire has made "Frost" Field Erected Fence famous, But provisions for expansion and contraction are as neces-sary in a machine-made fence as in the fieldsary in a machine-made reference there built kind. In "Frost" Woven Fence there are extra provisions made for this. A piece of this fence stretched on the posts has every

Fence appearance of a field-built fence with coiled

appearance of a field-built fence with coited laterals. Horizontals and Stay Wires in the "Frost" Woven Pence are identically the same grade as the "Frost" Coited Wire used for horizontals in "Frost" Metal Lock Pence Now we are increasing our field force this year, so why not join our "crowing" Agents and take orders for the easy selling "Frost" Products, and largely increase your Bank

Remember there is only one "Frost" Wire The farmers have become educated to this and you will find a big trade awaiting you.

FROST WIRE FENCE Co., LIMITED, Hamilton, Ont. MANITOBA FROST WIRE FENCE Co.,

rost Fence

FARM AND DAIRY

Published by The Rural Publishing Com-



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

sey Cattle Breeders Associations.

2. SUBSCRIPTION PRICE, 81.00 a year strictly in advance. Great Britain, \$1.26 a year. For all countries, except Canada and Great Britain, add 50c. for postage. A year's subscription free for a club of two new subscribers.

3. REMITTANCES should be made by Post Office or Money Order, or Registered Letter. Postage stamps accepted for amounts less than \$1.00. On all checks add 20 cents for exchange fee required at the banks.

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The paid-in-advance subscriptions to Barm and Dairy exceed 8,500. The actual circulation of each issue, including copies of circulation of each issue, including copies and subscripers who are but slightly apper sent subscripers who are but slightly apper sent subscripers who are but slightly apper sent subscriptions sumplex copies. Subscriptions, unless renewed, are discontinued as they expire. No subscriptions are accepted at less than the full subscription rates. Thus less than the full subscription rates. Thus containing lists do not contain any dead circulating

Sworn detailed statements of the circu-lation of the paper, showing its distribu-tion by countries and provinces, will be mailed free on request.

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FARM AND DAIRY PETERBORO, ONT.

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

A BETTER SYSTEM NEEDED

Such good work has been done by the Dominion Dairy Division through the Cow Testing Associations, it is unfortunate that the system has received a set back this year through the method of testing the milk that was adopted early in the season. In previous years, representatives of the Dominion Department of Agriculture used to visit the different cheese factories and test the samples of milk taken by the members of the different associations.

Last year this arrangement was changed. Arrangements were made to have the cheese makers in the different cheese factories test these samples of milk. This arrangement may be more economical to the Department of Agriculture, but it is hav-

ing an injurious effect on the work of the association. When the representatives of the Department visited the different factories, it kept them posted in regard to the work in each section, and was a means of conveying information from one district to the next. This tended to increase the interest. Chee'se makers have their own work to perform, and are apt to pay but little attention to the work of a cow testing association. It thus, often, is neglected. Not only should the Department of

Agriculture adopt the former method of testing the milk, but it should carry the whole work out much more thoroughly. As at present conducted, the work of the association is only superficial. It does not give the members any actual idea of the returns they are obtaining from each of their cows. The work should be carried on in much the same manner as it is in Scotland and in Denmark. Figures should be obtained showing the cost of feeding the cows in the different herds, thus giving some idea of the net returns per cow. It might cost more to gather this information, but the increased interest that would be taken in the results would prove ample compensation. If the work were to extend greatly, the Depart ment would be justified in increasing the charge per member, which would tend to keep down the expense.

It is understood that the Department of Agriculture feels that the returns that have been secured through the work of the cow testing associations, does not justify the expense that has been incurred. This is the best line of work that the Department has undertaken for years, and it should be pushed vigorously, even if the cost does appear great. The Department should recognize that it takes considerable time to arouse general interest in a movement of this kind. The farmers of this country are worth spending a good many thousand dollars on. When we realize that the expenditures of the Dominion Department of Agriculture amount to only about one million dollars a year, while the expenditures of the Department of Militia and Defence amount to about six million dollars, it wevident that there is room for ded increase in the wise exp of the Department of Agriculture, without anyone being injured

UNDESIRABLE ADVERTISING

"It takes nerve and costs money "to exclude not only medical adver-"tising, but the raft of other adver-"tising, which by many is consid-"ered legitimate, but which, ac-"cording to our code, is more or less "objectionable. I know that the "Orange Judd weeklies, including "also the semi-monthly Farm and "Home, and the magazine Good "Housekeeping, issued by the Phelps Publishing Co., sacrifice over \$100,000 cash each year by "refusing medical advertising and "other objectionable business."-Agricultural Advertising.

Dairyman and Farming World has increased since his increased investthat a paper is responsible for the corresponding increase in the price genuineness of every advertisement he gets for manufacturing. Condithat appears in its reading columns and, therefore, that it cannot afford to publish advertisements that are likely to be misleading or cause loss to its readers. Papers, all over the continent, are beginning to recognize the truth of this principle and are discontinuing the publication of electric belt, liquor, patent medicine, and other similar advertisements. public will serve its own best interests if it backs up those papers that are taking this stand.

RESULTS OF CHEESE SHORTAGE

For the past two seasons the make of cheese in the average factory has been considerably below what it was previous to 1907. The patron is usually the first one to be considered when a falling off in the make takes place. The exports of cheese from May 1st to December 23rd, 1908, fell off 223,950 boxes, as compared with the same period of 1907. If to this be added the shortage in stocks on hand, as compared with a year ago at this time, we have a total shrinkage, as compared with the season of 1907, of well on to 300,000 boxes. Then the make of 1907 was considerably below that of 1906, and we are safe in estimating a shrinkage of nearly 500,-000 boxes in the manufacture of cheese during the past two seasons. This amounts to about 40,000,000 lbs. of cheese. The average price of cheese during the pas, two years has been about 11 cents a lb. This shrinkage then means a loss to Canada of nearly \$4,500,000.

This loss is figured out by statisticians and others as coming directly home to the farmers or patrons of cheese factories. This loss is undoubtedly very large in the aggregate, and amounts to an average of about \$40 for each one. It is well to remember, however, that had the make of cheese kept up to the big records of 1906 and one or two previous years, the average price of 1907 and 1908 might not have been so high, and the real loss not so large as the above figures would seem to indicate. It is serious enough, however, and has had its influence upon the general business of the country.

But there is another side to it. How has this shortage affected the cheese manufacturer and the cheese maker? Look at the question from the manufacturer's standpoint for a moment. During the past season or two, there have been greater demands made upon him than ever before, for better factory buildings, and for better equipment and facilities for making cheese. The reports of the instructors show that he has responded to this demand, with some exceptions, in a very liberal manner. He has invested more capital in the business, and has a larger investment to pay interest on, or to make a profit on, skimming of the surface. In some than he had two years ago. He has

refused hundreds of dollars' worth of ment was made. The make of cheese undesirable advertising. It believes has decreased, and there has been no tions have arisen for which no one is responsible. But they have so affected the annual revenue from his business that the manufacturer finds himself, financially, in a worse position than he was before these extra demands were made upon him for better buildings and better equipment. These improvements are urgently needed in the interest of the business, and are essential to maintaining the standard and quality of Canadian cheese. The question is, is it reasonable to expect the manufacturer to continue to invest money in further improvement of his factory unless the revenue from his business increases likewise? In short, it looks as if the price for manufacturing cheese will have to go up, unless the make increases very materially during the coming season.

PLOWING IN RELATION TO WEED

DESTRUCTION The weed nuisance may be perpetuated with the plow. If care be taken, however, it need not be the case very often. Some weed seeds like those of wild mustard have great vitality and may lie, like a sleeping dog, in the soil for years. When the plow again brings them to the surface and they receive a warm May shower they suddenly waken up and show what they are made of.

If all soils were of the proper texture for drainage and for holding plant food, it would not be necessary to plow deeper than four or five inches at any time. In that case, where fields are weedy and many seeds have formed before the plowing is done, these weed seeds would not be turned under in most cases beyond the point of germination. Most of them would be encouraged to grow and then be killed while they were young and tender. This is the reason why, in most seasons, a shallow plowing with a gang immediately after the crop is removed is so beneficial. It covers the weed seeds with sufficient soil that with accompanying moisture to cause them to grow, they may be killed with after cultivation or by a late plowing.

Very often a mistake is made in plowing the field after the hoe crop has been harvested. More especially is this the case if the field has been well cultivated. Through the frequent and thorough cultivation that the hoe crop receives to conserve moisture as well as to kill weeds, nearly all the foul seeds in the three inches of soil at least, have germinated. Below that line there may be a great many different kinds of weed seeds awaiting their opportunity to grow when brought to the surface. The practice of bringing them to the surface with a plow, is altogether too common.

If plowing is necessary at all on the heavier soils, after a hoe crop is harvested, it should be just a light cases, however, as with the land this found, however, that his source of year, when it was hard and dry, it During the past year, The Canadian revenue a decreased rather than could not be plowed at all, except it

were plowed many cases bed has bee in the fall f in the sprin good and off the result. clover seed the fine tilth

January

For all li and working heavier soil of drainage ture of the with the d should be seeds near plowing of t neesess

> Cream Butter Make ions to this con natters relati

gest subjects letters to the geesese: Better Col

A crying business at ter cold sto creameries. made last : Herns, chief the average storages at o tario, was b keeping of states that are in good dition, and This accoun creameries Ontario las therefore, b have no colo ing butter. over one thi cold storage tion. The condi

ern Ontario, parts of On ing facilitie needs of the ter cold stor ly needed It seems diff derstand that ed, after a or butter ha considerable food produc quickly und than butter. large propo Canadian ci the unfavor ing it after be kept as a after it is Hern's inve average tem storages is creameries, facilities, ha down to nea degrees at a then the te ter was kep

grees. The lack ter is show the refriger carriage of improvemen temperature on these ca tation facili

creameries to bring th

WINNIPEG

were plowed to a great depth. In place is low temperature at the creammany cases the preparation for a seed bed has been made with cultivators, in the fall for fall wheat and rye, or in the spring for spring crops, and as good and often better crops have been the result. For a catch of grass and clover seed the firm under soil with the fine tilth on top is almost ideal.

For all light soils shallow plowing and working is preferable. With heavier soils, however, the question of drainage and the mechanical texture of the soil have something to do with the depth to which plowing should be done. For keeping weed seeds near the surface the shallow plowing of the soil is preferable. ****************

Creamery Department

Butter Makers are invited to send contributions to this department of the contribution to this department of the contribution to the department of the contribution o

Better Cold Storage in Creameries Needed

A crying need in the creamery business at the present time, is bet-ter cold storage facilities at the creameries. From investigations made last season, by Mr. Frank Herns, chief instructor, we learn that the average temperature of the cold storages at creameries in western On-tario, was 52 degrees. This is too storing was 52 degrees. This is too high for the proper cooling and keeping of butter. Mr. Herns also states that 29 of these cold storages are in good condition, 18 in fair conditions and 18 in fair conditions. dition, and 13 in very poor condition. This accounts for only 60 of the 77 creameries in operation in western Ontario last season. There must therefore, be 17 creameries which therefore, be 17 creameries which have no cold storages at all for keeping butter. At any rate, only a little over one third of the creameries have cold storages that are in good condition

The conditions which apply in western Ontario, will apply in other parts parts of Ontario. Just as better curneeds of the cheese industry, so better cold storages or means for keeping and "curing" butter are urgently needed in the creamery business. It seems difficult to get people to understand that anything more is needgerstand that anything more is needd, after a good quality of cheese
or butter has been turned out. They
are slowly learning, however, and at
considerable cost, too. No article of
food produced will deteriorate more
quickly under unfavorable conditions
to butter. It is safe to say that a than butter. It is safe to say that a large proportion of the defects in Canadian creamery butter is due to the unfavorable conditions surroundthe uniavorable conditions surrounding it after it is made. Butter should be kept as near to the freezing point after it is made, as possible. Mr. Hern's investigation shows that the Hern's investigation shows that the average temperature in creamery cold storages is about 20 degrees above that point. We may infer that the 29 creameries, with good cold storage facilities, have kept the temperature down to near that point, or below 40 degrees at any rate. If this be true, then the temperature at which butter was kept in the remainder of the creameries must have been very high to bring the average up to 52 degrees.

The lack of proper storage for but-The lack of proper storage for butter is shown by the experience with the refrigerator, no cold water or in a cellar. Head of the carriage of butter. There was some improvement the past season, but the temperature at which butter is loaded on these cars is far too high to get the fullest benefit from the transportation facilities provided. The ideal

eries, and low tempearture while the butter is in transit to the consumer. This ideal has not been reached yet, and will not be till every creamery has proper facilities for cooling butter and keeping it at a low temperature until it is put on board the train. The refrigerator car facilities provided last season were as good as could be reasonably expected under the circumstances. It is up to the creamcumstances. It is up to the cream-eries to do their part, and supply those cars with butter properly cured and in a condition to be carried to its destination without any danger of deterioration in quality.

Creamery Butter-makers' Salaries in Denmark

They have been wrestling with the makers' salary question in Denmark makers' salary question in Denmark and endeavoring to establish a basis to work on. Owing to the increasing and endeavoring to establish a basis to work on. Owing to the increasing interest in this question in Canada, the following from one of our ex-changes will be of interest. It is the scale of salaries recommended at a recent meeting of the Jutland Cream-ery Association. ery Association:

with	ameries million nds of milk	of manager including salary and board	Of this is sup to be used fo	
pou	nds or milk	to help	Cash	Board
1		\$ 420	\$ 97	\$ 54
2		634	162	108
3		870	270	135
4		1,052	324	162
5		1,136	367	189
6			394	216
7		1,283	421	243
8		1,391	475	270
9			513	297
10			540	324
	- 41	lass to	anlanlato	4 400

cash value all supplies, such as income from garden, fuel, light, milk, cream, etc., only not the dwelling which is provided free. The salary which is provided free. The salary is calculated to be normal for creameries where no cheese is made and where extensive retail sales are not made. The labor cost of making up 1,000 lbs. of milk will thus vary from 42 cents for the one million creamery down to 16.2 cents for the ten million

This table would indicate that Dar This table would indicate that Daniah butter-makers are not over paid in the way of salaries. In a creamery receiving 10,000,000 lbs. of milk, 884 has to be paid out of the gross amount the manager receives for help and board, leaving a balance of \$750 out of which he see salaries compare with what makers receive in

Care of Milk by the Householder

At the New York State Fair prizes were given for the best essay on the care of milk by the consumer. The first prize was won by Mr. B. Publow. The following are some hints from his essay worth noting:

1. Bottle milk is practically free

from outside contamination and is the preferable form for purchasing it. 2. Can milk is liable to contamina-tion from dust, from heat, and from strong-smelling substances in the re-

3. The top and outside of the bot-tle should be rinsed off with warm water before being opened, as the milkman usually carries the bottles y the top or neck, and more or less dirt and bacteria are certain to be transferred to the outside of the bot-

4. Place the milk at once in a

Your Old Machine Cannot compare with The New Model A fair allowance is made for the old Separator. Be ready for any Dairy emergency-USE THE DE LAVAL DE LAVAL SEPARATOR CO

Dairymen's Association

173-177 William St. MONTREAL

42nd Annual Convention and Winter Dairy Exhibition

BRANTFORD

JANUARY 13th AND 14th, 1909

\$360.00 IN CASH FOR PRIZES FOR BUTTER AND CHEESE Cheese Buyer's Trophy valued at \$150.00 for Sweepstakes Cheese Splendid List of Speakers

\$100.00 in Cash Prizes for Dairy Herd Competition Silver and Bronze Medals by Ryrie Bros. Toronto

Special prizes by Holler and Merz Co.; New York, R. M. Ballantyne Limited, Stratford; C. H. Slawson & Co., Ingersoll; J. B. Ford Co., Wyandotte, Mich.; The Canadian Sait Co., Windsor; The Western Salt Co., Mooretown.

THREE SESSIONS EACH DAY

Wednesday afternoon session specially for patrons of cheese factories and creameries and all milk producers. Reduced rates on all railroads. For programs and all information apply to

FRANK HERNS, Sec.-Treas., London, Ont.

These should have tight fitting cov-

7. Never mix fresh and stale milk as all becomes tainted or sour in a

short time.

8. Milk slightly sour can be sweet

VANCOUVER

Dish-cloths should never be used around dairy utensils. They are too hard to clean. Use a stiff brush instead.—J. N. Paget, Haldimand Co..

Makers are invited to send contributions to this department, to ask questions on matters relating to cheesemaking and to suggest sub-jects for discussion. Address your letters to The Cheese Maker's Department.

************* A Champion Cheese Maker

One of the oldest, best known and most successful cheese makers in the Dominion, is Thomas Grieve, of Wyandotte, Ontario, illustration of Wyandotte, Ontario, whom is here published whom is here published has been making cheese for Grieve has been making cheese for Julian state of the Julian state ost successful cheese makers in the paratively little interest was taken in

"PERFECT" Steel Cheese Vat



(Patented August 14th, 1906)

Durable—All Steel. Sanitary—Not a crack or spot for milk to lodge in and decompose. Mandy—Levers and gears to raise and lower inch by inch. Ideal Drainer—Built so the last drop runs out.

What Men who Know Say About Them:

Am pleased to say that your steel cheese vat is the coming vat. After testing it carefully during the past year, I can recommend it very highly to all

C. B. LARRY, Fineh, Ont., Dairy Instructor

I have examined and carefully tested your steel cheese vat and consider it the best vat I have ever seen and take pleas-ure in recommending it to all factory

H. E. BRINTNELL, Kingston, Dairy Instructor. Your steel choese vat is superior to anything I have ever seen. As to sanitation and surability it is by far the best. I have pleasure in recommending it.

W. J. RAUSDALE, Smith's Falls,
W. J. RAUSDALE, Smith's Falls,

This is to certify that I have had 49 years' experience using choses wate and it gives me much pleasure to: y that the vat manufactured by your company is the bost that I have ever seen. I have one in use at the present time in the Plum Grove MILINON, WILLIAMS OFFICE, JAMES WILLIAMS, Chockes Mfr. and Buyer.

We have no hesitation in saying that we regard a steel whey tank as the best and most sanitary tank we use at the pre-sent time.

J. W. MITCHELL, Supt. East Dairy School. G. G. PUBLOW, Chief Dairy Instructor.

Get our free catalogue of steel vats, steel agita-tors, steel curd sinks, steel whey tanks, etc. Write us,

THE STEEL TROUGH & MACHINE Co. Tweed, Ont.

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

FOR SALE OR RENT—The best equipped cheese and butter factory in the country. Good section and buildings: capacity 125 tons per season. Owner has other business. For particulars apply Box F., Farm and Dairy.

Cheese Department dairying in Canada. This victory aroused greater interest in cheese-making, and had a pronounced effect in encouraging people to send their in encouraging people to send their milk to the cheese factories. In the same year, Mr. Grieve sent cheese to an exhibition in New York, where he also won the first prize.

The best known cheese factory and creamery in Ontario is the Black Creek factory, erected by the late Hon. Thomas Ballantyne, of Stratford. Mr. Grieve made cheese in this factory for 13 years, having preceded for some time as maker, Mr. George H. Barr, now the Assistant Dominion Dairy Commissioner, who made cheese in the Black Creek factory for about five years. For 28 years, Mr. Grieve has been making cheese in the Wyandotte cheese factory. At last, he is suffering from the same cause that has driven so many of our cheese makers out of the business. Another maker has volunteered to make cheese for 8 cents a cwt, of cured cheese less for 8 cents a cwt, of cured cheese less for 8 cents a cwt, of cured cheese less. The best known cheese factory and for 8 cents a cwt. of cured cheese less than Mr. Grieve was making for, and will box the cheese in addition. The



Thomas Grieve, Wyandotte, Ont.

management of the factory has acmanagement of the factory has ac-cepted the offer of this new man, and now Mr. Grieve is without a position. This tells a tale about the cheese business, about which so much has already been said, that we hardly deem it necessary to make further reference to it.

November Cheese Not Wanted

While speaking at the annual banwrite speaking at the annual ban-quet of the Belleville cheese board, Mr. H. Hodgson, of Montreal, the well-know cheese exporter, advised dairymen to stop making November se and to manufacture butter incheese and to manufacture outler in-stead. The exporters want all the butter in November that can be made. The November cheese is not wanted because, generally, it is hard and

because, generally, it is made leathery.

Mr. Hodgson urged dairymen to use larger boxes and suggested that so it is not so it is not convenient. He did not want the dairymen hanges to not a 56 lb. cheep. men, however, to put an 85 lb. cheese in a 95 lb. box.

Induce Patrons to Put Up Ice One of the chief troubles cheese makers had to contend with last sea-son was over-ripe milk. During the makers had to contend with last sea-son was over-ripe milk. During the hot months the quality of the cheese made in many factories was mater-ially injured because the milk when received by the maker was in an over-ripe condition and the finest product could not be made from it. The only remedy is to cool the milk, and keen it cool, until it is ready to

The olop Hustling Representation of the factory. Unless the factory given to control the factory of the factory

patron of a cheese factory should store ice for use in the summer months. A small ice house can be months. A small ice house can be erected at small cost and it is not a very difficult task to store a few loads of ice during the winter months. There is always a creek or pond near at hand at which ice suitable for this at hand at which ice suitable for this compose can be secured. It will come at hand at which ice suitable for this purpose can be secured. It will come in handy for other purposes as well as cooling milk for the cheese factory. It will pay cheese makers to give some attention to this question dur

ing the next couple of months. By explaining the necessity of cooling milk properly for cheese making patrons can be induced to take the matter up. The storing of ice by the patron is one of the needs of the business at the present time. The maker will have a much more satisfactory season in 1909 than he did in 1908, if he can induce his patrons to make preparations for putting in a supply of ice for use when the hot weather comes.

WINDSORSALT

Best for Butter

WINDSOR SALT is a money-maker and a money-

It makes money for farmers and dairymen, because it makes richer, tastier butter.

It dissolves quickly, and works in evenly.

It actually saves money, because it is absolutely pure, and requires LESS to properly season the butter.

¶ Every grain is a perfect crystal and does not cake or

If-you want prize butter use WINDSOR SALT.

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WINDSOR CHEESE SALT is prepared especially for cheese-making.

It dissolves slowly and stays in the curd.

It salts MORE curd at LESS cost-and salts the curd thoroughly and evenly.

It insures a smooth, firm, rich cheese, preserves the fine flavor, and aids much in making the cheese "keep"

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Jan. 6th, 7th and 8th, 1909

Do not forget the dates. There will be something worth hearing all the time. It will pay you to attend

January

HLOE with "I stood," she a deaf-mut heaven wh to come a never men Sabina me But Sab

estic liti clause in o looked. B if anything in our little came back. office, and of course any sort of readily got taking ev granted. the differen points of v keeping: N sented to r without no an ignoran chiefly as duction! S that I lack for properly But how a while I an lem? It or explain the my sex is Sabina sthe letter trefused, I t

to see that alone so lo again, a fe faded away Mr. Ogden day, rather and seeme Van Ness come out to once before with her, a Chloe acted serve either was counting

However, that they knows enough dur I had been Ogden I sho notice of h the domesti Chloe took the coincide

For rease she practic

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in



TET us never forget that an act of goodness is of itself on act of happiness. No reward coming after the event can compare with the sweet reward that went with it.



The Domestic Adventures

By Joshua Daskam Bacon

(Continued from last week)

CHLOE looked solemnly at me (she calls him "your young friend," with Mary's letter in her hand, with an enigmatical glance at me), or and the standard solemnly and the standard solemnly with an enigmatical glance at me), or and the standard solemnly sole

But Sabina's "immunity from do-mestic litigation" was too definite a clause in our arrangements to be over-looked. Beside this, she has been, if anything, less interested than ever in our little household crisis since she office, and at our old boarding house of course there was never a hint of any sort of friction, and I suppose she without notice and the ingratitude of an ignorant person, appeais to Sabina chiefly as a humorous literary production! She admits this, and says that I lack the necessary perspective for properly appreciating the incident. But how am I to get the perspective while I am wrestling with the problem? It occurs to me that this may explain the lack of humor, of which is a support of the perspective with the problem? It occurs to me that this may explain the lack of humor, of which is a support of the problem. The problem is a support of the problem in the problem in the problem is a support of the problem. The problem is the problem in the problem is the problem in the problem in the problem is the problem in the problem in the problem in the problem is the problem in the problem in the problem in the problem is the problem in the problem in the problem in the problem is the problem in the problem in the problem in the problem is the problem in the problem in the problem in the problem in the problem is the problem in the problem is the problem in the problem i

refused. I think she was allowing him to see that she resented his leaving us alone so long, for when he appeared again, a few days after the house was in order and the disinfectants nearly faded away, she stayed at home with Mr. Ogden, who had come the same day, rather lottery, but Jolly as ever, and seemed quite shocked when Mr. Very and seemed the shocked when Mr. Very and seemed on the shocked when Mr. Very and seemed on the shocked when Mr. Very and seemed one one of the shocked was under the shocked when Mr. Very and the shocked was allowed to be shown that the shocked was allowed to show the shocked was allowed to be shown that the shown that the shocked was allowed the shown that the sh once before! Sabina was quite cross with her, and told me afterward that Chloe acted viciously and didn't deserve either of them. She said Pluto

serve either of them. She said Pluto was counting on the drive. However, I was glad at the time that they didn't go, though heaven knows I have repented it often enough during this last month, for if I had been left aflone to entertain Mr. Ogden I should have taken no sepecial notice of his ideas on the solution of Collect took them be about the consideration of the control of t

and cereals for a week!

"And I hope we all see now," she
concluded, looking straight over my
head, "what I suspected from the
beginning—that an American is
simply impossible. You see, we have
no servant class. It must be foreigners

no servant class. It must be foreigners—or monkeys.

Mr. Van Ness, who was sitting by Sabins, caught this, and nodded.

"Quite right," he said. "That's what my sister says. Monkeys. And when you see her new Japanese butler you will think she has one."

This he addressed to all of us, with his usual politeness, but for the mom-

left, intelligent women, who like that

left, intelligent women, who like that sort of work-women used to."
Of course the proper thing to have said to this didactic young man at this point was, "How do you know they used to?" But nobody did. Mr. Van Ness paid no attention whatever to him, which was his usual course. The course of the course of the course of the course that the course of th Ness lead which was her usual course.
At that very moment, indeed, it occured to me with renewed force that Sabina and I were both of us wasting a great deal of time and attention on that graceless Chile and her lovers, and that she would probably have and that she would probably have settled her affairs much more prom-ptly if she had not been able to depend upon us to repair her alternate neglect and favoritism. But I listened,

neglect and lavortism. But I listened, polite as Sabina at the other end of the room, to Mr. Ogden.
"There must be somebody," he went on, who is tired of trying to make a living at other work, where went on, who is tired of trying to make a living at other work, where the competition is frightful, who would be glad of a good home, and who would have brains enough to treat the work scientifically, you know, and—oh, well, the way you would yourself. It must be a lot healthier than working in a factory. "Are you acquainted with many of these persons you desorthe so feel-ingly?" said I. Is with the way looking at Chloe, and followed his eyes. She had all the appearance of a child that tries not to talk during a church service: short of holding her tongue with her

short of holding her tongue with her fingers, she was a pantomine of de-termined silence.
"What is it?" I asked.

"What is it!" I asked.
Her eyes sparkled but she shook
her head. "I—oh, it is too ridiculous!" she burst out at last.
"Perhaps you know one of these
fictions of Mr. Ogden's brain?" I sug-

"She's not a fiction—but I shall never tell you!" she declared. "Chloe," I said severely, "don't be childish. If you really know of any-

Farm and Dairy extends to every Canadian housewife

and every Canadian home, its heartiest and best wishes for a Most Happy New Year.

ent I was cross enough at Chloe to hope also would never see that butler. What she had always suspected, "What she had always suspected," which is the had always suspected, indeed! I immediately lost my perspective again. I am sure of this, because if I had kept it I should have laughed at Mr. Ogden's next speech, work would be the best thing for her instead of agreeing with him, which instead of agreeing with him, which is the standard of agreeing with him agreed with him the standard of agreeing with him the st

ent I was cross enough at Ohloe to hope ahe would never see that butler. "What she had always suspected," indeed! I immediately lost my perspective again. I am sure of this, because if I had kept it I should have laughed at Mr. Ogden's next speech laughed at Mr. Ogden's heat speech contradicted Chile, that are he made it, I'm equally atrad, to contradict Mr. van Ness.

"It seems to me you're on the wrong tack," he said, "because as fast as the foreigners get to amount to anything they quit the servant class and go into something better, don't they' on the was as the foreigners, you see, and what would be left? My mother says that we must get back to you know Mr. Van Ness.

"It seems to me you're on the wrong tack," he said, "boscale equals, on the word of the word

Why on earth should they? But that is a remark very characteristic of Mr. Ogden, and he always goes on without waiting for the least encourage-

ogden I should have taken no sepecial notice of his ideas on the solution of the domestic service problem, whereas Chlee took them seriously enough to —But no one could have blamed her the coincidence was so extraordinary. For reasons best known to herself she practically ignored Mr. Van Ness that day, and sat with Mr. Ogden the serious of the terms of t

I got the letter this morning.
our senior president, you know, and
our senior president, you know, and
she's teaching up there now. She's sac's teaching up there now. She's just as managing as ever, and the girl was in her classes, and she's telling everyone she knows about her, so they can find her a place. She's a poor girl and very plain, Editha says, but she always had high marks. She wouldn't expect to eat at the table."

(Continued next week.)

**************** The Upward Look

NEW YEAR'S RESOLUTIONS
Put on the whole armour of God,
that ye may be able to stand against
the wiles of the devil.
For we wrestle not against flesh
and blood, but against principalities,
and the right of the standard of the right of the r

the ocean, without a chart or a com-pass, would be apt to wander help-lessly over the waters. Unless we aim constantly to improve ourselves, our lives will prove failures. New Year resolutions help us to direct our lives towards better things. When remembered from year to year, they enable us to see the progress we are

able us to see the progress we are making.

Most of us feel the need for making good resolutions. We realize that our lives are far from being as loving, as kind, as cheerful, as uncomplaining as they might be. We long to do better. We decide constantly to the property of the property wherein we realize that we are weak.
Alas, too often we rely on our own
strength of will, and when inevitable
failure overtakes us, we are inclined
to become discouraged. We ask ourselves what is the use of trying to do better, when we are so sure to fail. This year some of us have resolved

This year some of us have resolved to try and be more loving and unselfish in our homes; to be better mothers or fathers, sons or daughters, brothers or sisters. We have decided to endeavor to overcome our faults of character, to control our tempers, to master our foolish pride, to be more faithful in the performance of our daily duties; it may be that our endeavor is to overcome some great temptation, such as a love of strong drink. Some of us, although the new year is only a few days old, may have broken already many of our good resolves.

We need not break them, or, if we We need not break them, or, if we do, we may know that the reverse need be only temporary, and that complete victory will be ours if we persevere in the right manner. We have definite, absolute assurance that we have not a fault, no matter how serious a one, it may be, that we cannot overcome.

Before we can expect to succeed, we must have a clear conception of the greatness of the difficulties that confront us. If we under-rate them, controlt us. If we under-rate them, they will overcome us. We must recognize that we are not struggling merely against faults. Our effort is against the devil who is endeavoring to drag us down by means of our faults. Our text makes that clear. It warms us against he willen of the It warns us against the wiles of the It tells us that we do not struggle against merely human odds, but against powers, against the rulers of the darkness of this world, against spiritual wickedness. Many of us do not realize this, when we make our good resolutions. That is who we are good resolutions. That is why we are so hopelessly defeated. The devil is infinitely stronger than we are. Sin-gle-handed we cannot hope to overcome him.

But our text tells us something more. It directs us to put on the whole armour of God in order that we whole armour of God in order that we may be able to withstand the assaults of the devil. God is stronger than the devil. If we will but ask God for His assistance, and are faithful and persistent in our asking, He will give us the victory. He has told us so and He cannot lie. The Bible records His recovers. cords His promises to this effect over

cords His profuses to and over again.

In John 16, 23, we read, "Whatsoever ye ask the Father in my name, He will give it to you." In John 16, 7, we are informed, "If ye abide in you, ye and my words abide in you, ye 7, we are informed, "If ye abide in me, and my words abide in you, ye shall ask what ye will, and it shall be done unto you." If, therefore, we fail to keep our good resolutions, it is because we do not take God at His word, because we are not faithful enough in asking Him to help us, tul enough in asking Him to help us, because we do not strive earnestly enough to abide in Him, and to have His words abide in us. Let us once realize this, and our characters, if we so will, may be changed from glory to glory.—I. H. N.

Renew Your Subscription Now.

That the women's institute in Ontario is appreciated by the women of the Province, is evidenced by the fact that in less than ten years, it has grown from one institute with a membership of not more than 50, to 485 institutes, with a total membership of over 12,000.

ship of over 12,000.

We have in the women's institute
we have in the women's institute
an organization which permits of all
classes of women of a community,
meeting with a common object in
the side of the scientific training and
care of children, economic and
hygienic value of foods, clothing and
fuels, and a view to raising the
general standard of the health, and
morals of the family in general.

If has been said that the formation

It has been said that the formation of a Country is laid in the home, and the Women's Institutes are for making women efficient in the home. making women efficient in the home. The most important factor in every home is the woman at its head and why should she not take advantage of everything that will tend to make her more fit for the duties she has to fulfill.

Having occasion recently to visit several institute meetings being held by the women of Ontario, the writer was more than impressed with the energy and enthusiasm put into the work of many of the speakers sent out by the Department of Agriculture. Some of the appalers again out age. out by the Department of Agriculture. Some of the speakers sent, out, are not, perhaps as well adapted for their work as others. All women cannot get up and speak before a large aud-ience; they all cannot give up personal comfort and self to go out to meetings and deliver addresses, simply for the addresses, simply for the Dutwent of the companion of the con-but of the companion of the com-but of the companion of the com-but of the companion of the com-ton of the companion of the companion of the com-ton of the companion of the companion of the com-ton of the companion of the companion of the com-ton of the companion of the companion of the com-ton of the companion of the companion of the com-ton of the companion of the companion of the companion of the com-ton of the companion of the companion of the companion of the com-ton of the companion of th benefit and good to be done to others.

But when one sees women who have good homes, and every comfort, put their work, or the work of the betterment of their sex first of all, leaving their homes in the midst of winter, travelling in the cold, often late

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Published

Value of Women's Institute

That the women's institute in drain is appreciated by the women the Province, is evidence, is evidence, is evidence, is evidence, is evidence, is evidence, and it is a grown from one institute with a grown from one institute with a tembership of not more than 56, hardships are many. It is when one Institute, it seemed almost impossible to the presidency of the Women as these taking and for her to accept the position. So

through—one cannot but help admire the curses of these women. Their hardships for these women. Their hardships where the control of the theorem and the control of the cont

constantly received, and consequently there is more interest and variety in the home duties. None of us know so much that we cannot learn more. Whatever plan we may follow in our remaining the control of the control

you grow? Women's and for that matter, men's

\$1.00

dent of the women's institute in a certain town, used to be a most timid and retiring woman, who would never get up or speak at any meeting, who was a woman of most excellent ideas and suggestions. Upon being elected to the state of the women's limit of the women's limit of the second most impossible for her transport of the Women's limit of the laders in all matters pertaining the leaders in all matters pertaining the leaders in all matters pertaining the leaders in the women's limit of the women's limit of

Institute work should be taken up on the broad basis that it will benefit every part of the home life in every style of home; benefit all every style of home; benefit all the inmates, young and old, and touch all kinds and phases of the work of the home. If the women of each community would take the trouble to know and learn something of the Institute, they would be proud to belong to an erganization whose object is the betterment of home life and the upbuilding and making of character.—C. B. M.

Talks with Mother

Self Reliant Children

The tree grows as the twig is bent, so if we wish our children to become self-reliant we must begin early, train-ing them to become helpful, indus-trious and methodical. Give them a small amount of work to do each day and see that they do it neatly and

and see that they do it neatly and theroughly.

A small broom, gay sweeping cap, gingham apron, dish cloth, dustres and towels, all her own, will make a girl's duties like play. When she begins to cook, get some dannty utensils for her individual use. I well remember the small rolling pin my grandfather presented me with after a queen gallough the axie has a queen gallough the axie has a queen gallough the axie has a queen gallough the axie and the same an

he has sested my arst biscurs: I was as proud as a queen although the article is considerably under-size. I have used it ever since.

I have in mind two different families. Each has three girls and live upon farms. In one, the mother is a household slave, weeking early and lies. Each has three girls and live upon farms. In one, the mother is a upon farms. In one, the mother is a household slave, working early and late, and seldom ever going to church or visiting her friends. In fact she has stayed at home so closely that she feas old-fashioned. When the girls leep about the house, they are almost leep about the house, they are almost dreen to it; one does beautiful fancy-dreen to it; one does beautiful fancy-dreen to it; one does beautiful fancy-and the other is a veritable tomboy, and the other mother makes answer in excusing the mother makes answer in excusing the condition of the condition of

A CONTRAST

In the other family, the children do a portion of the daily housework. To relieve the monotony, they change about each week and already the eldest, now nearly fourteen, is an accomplished housekeeper, having taken published housekeeper, having taken and the state of the state of

A Pleased Boy

What one boy has done, another boy usually can do. Get busy, boys, and earn a good watch for yourself, It won't take you long. Several boys have now received our premium watches, for securing one or two new subscribers for us. For one new yearly subscription to Farm and Dairy at \$1.00 a year, we can send you a good watch; for two new yearly subscriptions, we can send you a

you a good watch; for two new yearly subscriptions, we can send you a better one. One boy writes us, "I received the watch with pleasure and I am very well pleased with it. I might try and get some more sub-I might try and get some more sub-scribers some other time. I am going to school and I haven't much time."
—Cecil Presley, Peel Co. Ont.

If you have trouble with lampwicks, perhaps you will find it advantage-ous not to trim them with scissors, but rather to rub off the charred part as close as possible to the edge of the burner by slipping an old stocking over the hand and rubbing the burner wick with the forefinger until it is even. BE BE BE

Red onions are excellent diuretics; raw, white onions cure insomnia.

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A CONTRAST

January neeeeeee

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> If eve bouse the w

compla "Black with rubbin shines a resu

Alway Stoves Ironwo It's th bigges

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Send for for get 't town

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ART EMBROIDERY

If we do not publish designs you desire, write and ask for the kind you would like. This department is for the benefit of our readers, Address, Art Editor, Farm and Dairy, Peterboro, Ont.

**************** Fancy Aprons



Pretty and attractive aprons are among the fads of the moment. They are charmingly coquettish if worn upon the right ocworn casion and they give just that housewifely touch that is so essen-tially feminine. Here are

that are adapted to various purposes. They can be utilized for the chafing dish supper, for the afternoon tea, for the hours given to fancy work and to all occasons of the sort. In the illustration, trimmed with narrow lace, while No. 2 is made of flowered organdie with frills of lace and banding, and belt of insertion, and No. 3 is made from dotted Swiss muslin, and is embroiddetect dwis missing an is emissing are dread red at the lower edge to give a daisy effect, which is eminently decorative while the work involved is slight in the extreme. Its edge is finished with a narrow frill. All the aprons are appropriate, however, and there are flowered and cross barred muslins included in the number, as well as those illustrated, while some women like pretty Oriental sash silks r the purpose. No. 1 is made with a plain founda-

tion and an outer portion that is cut

If everything else in the bouse did its share of the work as well as

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very few women would complain of the housework. "Black Knight" does away with the everlasting rubbing and polishing. It shines quickly and produces a result that satisfies the most particular.

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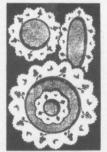
Send dealer's name and 10c for full sise can if you can't get "Black Knight" in your

The F. F. DALLEY CO. LIMITED. HAMILTON, Out,

are joined at their edges, so that the space becomes a capacious pocket. Nos. 2 and 3 are made in one piece and all the three aprons are ed with frills. The seam of No. each, each, and all the three aprons are finished with frills. The seam of No. 2 is covered with banding while the edge of No. 3 is finished with feather stitching, and No. 2 shows a belt of embroidery, while in the case of No. 3 the belt is of beading threaded with ribbon. But ties can be of ribbon or of the material as liked.

braiding designs Coronation and are increasing in popularity; they are worked the same way. For this kind of work a running outline must be selected in order that the cord or braid be not cut too often. A good, practical way to sew the cord or braid is by taking a short button hole is by taking a short button hole stitch through the wrong side, catching only the back of the cord or braid; sew rather close; cord or braid must not be pulled nor yet be too loosely, but evenly covering the stamped line. If fine cord or braid is used, the ends may be pulled is used, the ends may be pulled through to finish; if heavy cord or braid is used, one end must be lapped over the other and button holed.

Here is a piece that may be as elaborate or as simple as the worker elaborate or as simple as the worker desires. Worked in plain outline it could be handled very easily by any of our young girl readers; of course the design will look much better if



No. 552

worked in solid embroidery, but do not let that deter you from attempting to provide yourself with a dainty table set, for done in outline stitch it will be very neat and pretty.

This set, No. 552, consists of centre piece, size 15x15 inches, tray, 6x11 inches, doily, 6x6 inches, and doily, inches, doi

Perforated patterns of one of each size, price for all including stamping materials, 50c.

Designs stamped on linen, sists of one centre piece, one tray, six doilies 6x6 inches, and six doilies, 9x9 inches; price for all, \$1.

Before and After Marriage

(Sweet Briar)

To my mind no service or cere-mony is more solemn than the mar-riage ceremony. It is an untried step in life. How often we see cases where marriage seems to be a complete failure, or, as I heard a young lady say once, it does not have the desired effect. The effect it should have, of course, is to make both husband and wife the happier, and each state of the course of the co working for the good of the other. No doubt many of us have seen young men pick out the girls of their choice. They talk love, and have things down fine. To each of them there seems to be nothing in store for them but perfect happiness. They for them but perfect a uppiness. They marry, and everything goes very nicely for a time. Visit them in a few years, and you would scarcely believe they were the same couple. You would never dream he was the young nan who would bring his box of choice bon-bons every time he called, or send his bouquet of cut flowers.

etc., (oh, no.)
Things are quite different nowthey are married; no need for that any more. The aim now is to get out of debt as fast as possible, and if there is no debt, to accumulate wealth as fast as possible. After that they will take things easy and enjoy each other's company. What a mistake. Ere they know it, their health is gone, and at any rate they are older; their ways are set, and it would be as good as a ten cent show to see them making love to each other, for it is only a sort of make up. If there is anything in this world

that is a foretaste of heaven, it is a happy home. Some people imagine nappy nome. Some people imagine they cannot have a happy home unless it be well furnished, and everything up to date. Money may make a home comfortable, but it will not make it happy. Very often it is the families happy. Very often it is the families who are depending on the father to who are the earn their daily bread which are the happiest. A happy home is where each one labors for the good of the other.

Some people will tell you that wosome people will tell you that wo-men have a great influence over men. They may have, to a certain extent, but very often a good strong pipe would have a larger influence. Nor do I accuse the men for all unhappi-ness. I believe that if the women of our land would not yet so certified land would not get so carried away with society, trashy afternoon

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This set consists of the following pieces: 12 tea plates, 12 dinner plates, 12 soup plates, 12 fruit dishes, 12 butter pata, 12 cups, 12 saucers, 1 platter (10 inch), 1 platter (14 inch), 1 platter (14 inch), 1 platter (15 inch), 2 inch), 1 platter (15 inch), 2 inch), 2

among your neighbors; get the children at work, and you will not have much aring only Nine New Yearly Subscriptions for Farm and Dairy, at \$1.00 a conies on request. Write Circulation Department:

FARM AND DAIRY, PETERBORO, ONT.

etc., but be at home to welparties. come their "guid maun," and train and teach their "little bairns," we and teach their little bairs, we would not see so many men spending their evenings in the corner house or billiard room. No doubt there have been fathers and mothers whose sons and daughters have for a time gone down the stream as it were, but the good seed sown is sure to bring forth fruit, and in time they may return.

Entire confidence in each other is one of the secrets of married life, I believe in a woman standing by her believe in a woman standing by her husband as a wife, in the very truest sense of the word, and the husband to do likewise—to be, as it were, one person and show by our lives that marriage is not a failure, so that the rising generation will not have a dread of marriage lest they should become like us. become like us.

***************** THE COOK'S CORNER

Send in your favorite recipes, for publication in this column. Inquiries pertaining to cooking are solicited, and will be replied to, as soon as possible after receipt of same. Our Cook Book sent free for two new yearly subscriptions at \$1.00 each. Address, Household Editor, this paper **************

LEMON PIE

LEMON PIE

To the juice and grated rind of 1 lemon add 1 cup granulated sugar, and 1 tablespoonful corn starch. Then add the beaten yolks and 1 white of 3 eggs (save 2 whites for frosting), and 1 cup boiling water. Bring this mixture to a boil, then bake with an under crust. When done cover with a meringue made from the whites of 2 eggs and 2 tablespoon products. 2 eggs and 2 tablespoons powdered sugar. Replace in oven and brown lightly. This makes 1 pie.

CREAM OF TOMATO SOUP

Into a qt can of tomatoes, stir 34 teaspoonful of soda. Let it stand 1/2 hour, and then add a teaspoonful of hour, and then add a teaspoonful of onion juice; heat and mash through a colander, adding salt and pepper to taste. A pinch of sugar is also allowable. In another saucepan met a tablespoonful of butter. Into this mix a tablespoonful of flour, and when this mixture bubbles, pour in a third at a time, a nit of ways will. third at a time, a pint of warm milk— the richer the better. Stir until it thickens. Do not mix the tomatoes with the milk until serving time. STUFFED ONIONS

Parboil the necessary number of

medium-sized large onions, trying to medium-sized large onions, trying to get all of the same size. Change the water at the end of each ¼ of an hour, and at the end of ¼ of an hour, unless very large, they should be tender. They must not be allowed to lose their shape by too much cooking. Scoop out a deep cavity, cooking. Scoop out a deep cavity, and fill with a mixture half bread crumbs and half chopped cold ham. Arrange in a baking pan and baste occasionally with water and melted butter. When the crumbs are nicely browned the onions are ready to serve. Make a little hole in the bread crumbs with a tooth pick and insert a spray of parsley in each.

CRANBERRY JELLY

Wash thoroughly a qt of cranberries and put them in ½ pt of water. Cook for 10 minutes. Press through a sieve, add 1 lb of sugar, and a teaspeonful of gelatin, dissolved in water to insure the jelly keeping its shape. Mould in individual stars, and place one at each plate.

BLACK PUDDING AND SAUCE To scant ¼ cup molasses add 1 cup lukewarm water in which dissolve 1 level teaspoon soda, 1 well-beaten egg and 2½ cups flour sifted with 1 scant and 2½ cups flour sifted with I scani teaspoon each ground cloves and cinnamon. Lastly add I cup seeded and chopped raised fredged with flour. Steam. This is nice served with the following sauce: Mix I cup brown sugar with I tablespon flour, then add gradually I cup water, I tablesp vinegar, pinch saft, and tablesp butter. Cook until thick and smooth. When ready to serve slices of lemon may ready to serve slices of lemon may be added if desired. The quantities for this recipe may be doubled or trebled, and the pudding steamed and kept in a cool place, to re-steam in cases of emergency. It will keep for several weeks or months, or even all winter, in a cool place.

N 10 10 A Trip Around the World

Have you secured one of our sets of 50 beautifully illustrated post cards entitled, "A Trip around the World?" If you have not, you should get one.
They are free for one new subscription to Farm and Dairy, at \$1 a year. tion to Farm and Dairy, at \$1 a year. The set of cards is well worth orking for. Those who have secured these cards cannot praise them enough. Our supply is limited. Send us \$1, with one new name, for a year's subscription to Farm and Dairy and a set of file card. and a set of 50 cards will be forward-

Household Secrets

To those who do not care to eat the skins of baked potatoes: Before bakskins of baked potatoes: Before skins ing them I suggest my plan of whi-ing them I suggest my plan of whi-ing very carefully, pouring boiling water over them and leaving for three or four minutes. Then take out and wipe them dry and rub over each po-tato a piece of brown paper which has been dipped in melted flat. They will be a supple of the proper state of the pro-tation of the property of the pro-tation of the property of the pro-tation of the pro-tation

TO AVOID THE SPLASHING OF GREASE To prevent meat of any kind from soiling your stove or floor by splashing out of pan while frying, sprinkle some flour over contents of frying-pan. It will cease popping immediately, and keep a clean stove and prevent disagreeable odor of burnt fat as well.

TO IMPROVE SUET CRUST

When preparing suct crust for meat and fruit puddings, add one cold boiled mashed potato to each half-pound of paste. The result will be a most marked improvement in light ness and sweetness.

A NEW ECONÓMY

save considerable in my hous hold expenses by using suet and leaf-lard. I use about two pounds of leaf-lard to one of suet. Cut in small and put in a bread-pan to "tr If the oven is not too hot it re out." If the even is not too not is re-quires no watching. When done, the lard should be strained into a lard-pail. The cracklings can be used to make corn-bread. Leaf-lard being cheaper than rendered lard, and suet cheaper still, the saving is even great-er than one would imagine.—Jessie B.

TO PREVENT SKIRTS FROM SAGGING To prevent dress skirts from sagging To prevent dress skirts from sagging or becoming wrinkled while hanging in wardrobe, fold the waistband back and front together, then fold once more. Take a small strip of cloth or more. Take a small strip of cloth or tape, pin with safety-pin to skirt, so tape, pin with safety-pin to skirt, so tape, pin the safe of the safe ways keeps skirt in good condition. conditio

TO KEEP THE IRON SMOOTH

When ironing starched pieces, rub your iron over a half pint of salt which should be placed on a paper and will do for a number of ironings; it will make your irons smooth and

DOUGH MINUS SPLINTERS

If you have an old-fashioned mar-If you have an old-hashioned mar-ble-top table, use it in the kitchen on which to roll pie or pastry dough. It is easily kept clean, and no risk of getting splinters in the dough.

The Sewing Room Patterns 10 each. Order by number and size. If for children, give age; for adults, give bust measure for skirts. Address all orders to the Pattern Department. Patterns to controllidren, give age; and size. If for oblidren, give age; for adults, give bust measure for for adults, give bust measure for for adults, give bust measure for address all orders to the Pattern of Address all orders to the Pattern of Department.

Bettereeeeeeeeeeeee



The blouse that is made with long close sleeves is the latest decree of fashion. The model suits all The model suits all the materials that are thin enough to be tucked, however, and is just as desirable for the odd waist as it is for the entire gown. Cashmere is exceedingly fashionable. ingly fashionable ingly fashionable and always is pret. ty. Material required

in wide with 2 58 yds of banding to trim as illustrated. The pattern is cut for a 32, 34, 36, 38, and 40 in bust and will be mailed on receipt of 10 cents.

GIRL'S GIBSON DRESS 6195.



The Gibson dress The those is a generally becoming one. The dress is made with fronts and back, and is laid in plaits in each shoulder, the opening being made invisibly beneath one invisibly beneath one of the tucks at the left side of the front. The fulness is held in place by the belt. The. collar can be made to match.

Material required from reduling size (10) material required for medium size (10 years) is 5½ yds 24, 5½ yds 32, or 2 7-8 yds 44 in wide.

The pattern 6195 is cut for girls of 6, 8, 10 and 12 yrs of age, and will be mailed on receipt of 10 cents.

SHIRT WAIST 6194.



The plain shirt waist is one of the latest and smartest of the season, and promises to be even nore popular in the future.
The waist is made

with the fronts and back and when the yoke is used it is applied over the

Material required for medium size is 3% yds 21 or 24, 3 yds 32, 2% yds 44 in

a 32, 34, 36, 38, 40, and 42 in bust, and will be mailed on receipt of ten cents.

BOY'S NIGHT SHIRT 6192.



day is the time.

Roomy and fortable sle sleeping garments are essen-tial to the boy's comfort and night shirt will be found satisfactory. The shirt is made with front and back

The plain sleeves are simply stitched at their lower edges, but those in shirt style are gathered and finished with over laps and straight offs.
Material required for medium size (10 years) is 4 yds 27 or 3 yds 36 in wide.
The pattern is cut for boys of 6, 8, 10, 22 and 14 years, and will be mailed on receipt of 10 cents.

. . Renew your subscription now. To-

ed to you, free of cost. "New Century" Washing It is the cheapest machine ever sold, for value given.

The ." New Century washes a tub of clothes in five minutes - without boiling or rubbing. It washes heavy clothes thoroughly - and soft,

thin things without

the least injury. The "New Cen tury" enables you to do the biggest kind of a wash in an hour, that would take the whole day with an ordinary wash-tub.

It saves your hands, your back, your time, your nerves - to say nothing of the clothes. The ball bearings and powerful oil-tempered steel springs make it run so easy that a child can do the

family washing.



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It is desirable to ment

....... OUR F

January ?

COM COMPTON .any are oblig r water. T le in the cou out as it show that it goes ra ing as much :
of the high potentials fed on
the yield bein
because of the rere a fair crearm weather armers a cha

HALIR KINMOUNT .tormy month ng, no frost night of the ser registered Kinmount. Bef been down to hay has been Christma lowing prices:
9½c; chickens,
butter, 23c a l
dear. Not ma
this winter, so
pigs is poor.—, VICTO WOODVILLE.

eping wintry; ndition. ndition. The mng into the ough the water his section, y leard of cases ompelled to n ive stock. Gra is not as high live stock ma bright and the re fairly brigh WENT HAMILTON.—7
cold with light sleighing. y of coars

hinds is high in hinds is high in carbon with the season of the season o wheat barn, \$22;
HEPWORTH.—
and it has mad
large quantity of
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fires of last sun
very low. They
roads into swan
ju them. Wood

in them. Wood Owing to the buyers have low BLYTH, — Aft reather has been wo weeks. Most all work pretty as difficult wit round being ground being has been very go past few days, a off again near thaw, which was eed more water now. The agriculation with any teaming the stand of t es of poultry, mpared with o good, running ere is a likelih

ugh for the C MUSKOKA HUNTSVILLE .nild and pleasar he Christmas s aking advantage all

OUR FARMERS' CLUB ‡

COMPTON CO., ONT.

COMPTON CO., ONT.
COMPTON C-Actile are looking poor.
Many are obliged to ge quite a long way
for water. There are not not go
the in the country. Hay is not holding
out as it should; it seems to be no dry
that it goes rapidly. People are not feeding as much meal as usual on account
of the high price. There are not many
surrips fed on account of the poor crop,
he yield being far below the average
because of the dry weather. Potatose
were a fair crop, and so was grain. The
farmers such continuing so late gave
fone.—H. C. ONT.

HALLIEPTON CO. ONT.

HALIBURTON CO., ONT.

KINMOUNT.—December has been a
stormy month. No thaws; mow. 20
inches deep on the level. Good sleighing, no frost in the ground. On the
inght of the 9th the official thermoneter registered 24 degrees below zero in
Kinmount. Before and since then it has
Kinmount. Before and since then it has
have been sold from \$10 at 100
hay has been sold from \$10 at 100
howing prices: Geese, 9/5c dressed; ducks,
p/scc chickens, 10c a h; turkeys (100
butter. Ede a h. Mill feed is still very
butter. Ede a h. Mill feed is still very
this winter, so the have been bred
this winter, so the proper size of the pring
pigs is poor.—J. A. S. Jok for spring
pigs is poor.—J. A. S. J.

VICTORIA CO., ONT. HALIBURTON CO., ONT.

VICTORIA CO., ONT.

WOODVILLE.-The weather WOODVILLE-The weather is still keeping wintry; the roads are in splendid condition. The outlook for fresh water comag into the wells is critical, and alchough the water supply is not serious in this section, your correspondent has heard of cases where the farmers were compelled to melt snow to water their live stock. Grain is a fair price but it is not as high as it was last year. The is not as high as it was last year. The result is not as high as it was last year. The result is not as high as it was last year. The result is not as high as it was last year. The result is not as high as it was last year. The result is not as high as it was last year. The result is not as high as as h

WENTWORTH CO., ONT.

WENTWORTH CO., ONT.

HAMILTON.—The weather is moderately cold with light snow, scarcely enough
for sleighing. Live stock is doing still
plenty of coarse grain but feed of all
kinds is hight in price. Presh eggs, 55c to
55c a dos; cmy butter, 35c to 35c; colored
cheese, 17c to 25c; dressed pork, 88 to
8255 a cwt; lamb, 95 to 11c; chickens,
8250 palt; calf skins, 15c a lb; hides,
8250 palt; calf skins, 15c a lb; hides,
8251 palt; calf skins, 15c a lb; hides,
8252 palt; calf skins, 15c a lb; hides,
8253 tockers, 35c a lbs, 56c; calves, 84 to
825; stockers, 35c a lbs, 56c; calves, 84 to
825; stockers, 35c a lbs, 15c a cwt; timothy hay,
816; clover, 811; straw, 87 to 88 a ton;
tout, 45c a bush; barley, 55c; peas, 85c;
wheat barn, 822; middlings, 824.50—R. 8.

oats, 420 a bush; barley, 550; peas, 550; wheat barn, 522; middlings, \$34.50-R. 8. 8. BRUCE CO, ONT.

HEPWORTH.—The snow came very early and it has made splendid sleighing. A large quantity of wood and logs is being taken out this winter owing to the bush fires of last summer. The wells are still very low. There is no trouble getting row of the state of snow. The agricultural population is busy with any teaming they may have on hand, such as hauling wood, manure and grain. Quite a number draw their grain to town to fiave it chopped while others have it chopped at home. Large quanties of poultry, especially turkeys, have known marketed in the past few weeks, which were somewhat lacking in quality companyers somewhat lacking in quality companyers somewhat lacking in the fifty of the seeks of the

MUSKOKA DISTRICT, ONT.
HUNTSVILLE.—We are experiencing a
nid and pleasant winter. As it is now
the Christmas season the farmers are
aking advantage of the good condition

of the roads. If people are to judge of the financial condition of the country by the heavy loaded sleight that pass to any they would see go the financial condition. by the heavy loaded sleighs that pass to and from town, they would soon come to the happy conclusion that all the hard times we have heard so much about are in some other part, and not in Mus-koka.—F. R. B.

Mr. G. A. Brethen of Norwood, in sending in copy for an ad, writes: My cattle are doing well this winter. I shall make an effort to put some of them in the Advanced Registry for Record of Performance this season. I think they are rounding into shape nicely.

A UNIQUE OFFER

We would call the attention of our readers to the advertisement, in our advertisement, we will also consider the constraint of the constra

The Dip to our readers.

We, BROWNRIDGE

The Pine Grove herd of large English
Berkshires, property of W. W. Brownridge, Ashgrove, is still well up in the
Berkshires, property of W. W. Brownridge, and the Winter Period William of the
Berkshires, the Winter Period William of the
Berkshires, the Winter Period William on tured two firsts out of six in as strong
competition as ever met in Guelph. The
head consists of over 69 head, with imp.
Polyate Donoran and Polyate Dollar William

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Th ton Co., Ont

A BOON TO HUNTERS

Where is the hunter or fisherman who has not many, many times captured some extra fine, beautiful trophy which he and his friends have admired, and then allowed the splendid specimen, which represented his own skill and provess, to spoil and decay. And where is the man who under these circumstances has not sin-cerely wished he knew some, way to save and preserve the trophy just as it was in

It is now possible and easy for any or to know possible and easy for any one to know how to preserve animals, birds and fishes so that they look exactly like the living creatures. This art, Taxidermy, possesses the greatest of fascination for all who undertake it. Formerly only a few professional Taxidermists knew the secret of doing this work, and they guard-ed their knowledge well. Now, however,

SEED OATS

FOR SALE-A quantity of I merican Banner Oats, grown from pedi-reed seed. Also some "Dew Drop," a greed seed. Also some greed seed. Also some splenpid early white oat, that I have grown for several years with good success. Heavy, thin hulled, about same length and quality of straw as Banner, but four or five days

Samples and prices on application to the

A FORSTER.

Markham, Ont.

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For Farms, Houses, Lots BELL AND TAYLOR

Write for Lists of FARMS, HOMES, BUSINESS PLACES J. T. O'CONNELL & CO.

IVE HOGS

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

THIS WEEK'S PRICES FOR HOGS DELIVERED AT FACTORY

\$6.10 a Cwt. FOR HOGS WEIGHING 160 TO 220 LBS.

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PETERBOROUGH, - HULL, -BRANTFORD

this is all changed. The very best and casiest system of tatidermy may be secured by anyone interested in the art., and it is said that a few weeks' practice enables the hunter to mount his trophies just as well as a professional can do it, and at practically no cost. Big profits are made by many persons by seiling their mounted specimens and seiling their mounted specimens and the profits of the house. Beautiful decorations for the houser, Beautiful decorations for the houser, as a plendid represented and the art offers a splendid represent on the profits of the profit

tainly be his own taxidermist, as it is so easily learned. The art is now taught by mail with great success by the North-western School of Taxidermy, of Omaha, Neb. Thousands of sportsmen are mem-bers of the school and recommend it in the highest terms. Our readers interest-ed in the subject, can secure full particu-lars and the subject, can secure full particulars and a beautiful prospectus, by writ-ing the above school at the address

For Icemen, Butchers, Dairymen, Farmers, etc.

You must have the very best tools for ice harvesting. The season is short weather cold-men must work like lightning-and a break-down would be

Get everything you need Now, and get the Best. We have been making Ice Tools for 26 years, and have the right tools at the right prices.

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PERFECTION Seed & Grain Separator (Patented 1901) The best and later mill for Cleanin and Grading a kinds of Seed an Grain.

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Towers Girted every five feet apart and double braced Grain Grinders

Pumps Tanks Gas and Gasoline Engines

Concrete Mixers WRITE FOR CATALOGUES

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PETER HAMILTON Corn and Straw Cutters

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

PLOWS

Farmers everywhere testify to the splendid work of our plows

Better Get One Send for Catalogue.

The Peter Hamilton Co. Peterborough,

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

January ;

of hogs in the week, Danish During the holding off, get back to he holdays

MONTR

Montreal, Sa

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The live sto has been very in general, are ceipts have r Stock Yards of it cars of stoc well maintain at 85.35 a cwt ing the week steady to firm There is con hand yet and at the end of for the quality for medium.

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tle sold at \$3. 84.25; and can The trade in

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Shoe Boils

are hard to ABSO vill remove ther

W. F. YOUNG, P.D.F. LYMAN, S NS

FOR SALE A

READ BY

THIS DEPA valuable in the cents a word, you wish to buy or THE ADDRE

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not as bris offering on Th other kinds d

MARKET REVIEW AND FORECAST

Toronto, Monday, Jan. 4, 1909.—Jobbers in most lines report very good business the past two months. Had the whole year been as good as November and December the balance on the right side of the ledger at the end of the year would the ledger at the end of the year would be ledger at the end of the year would very month. The proportions, Up to two months has proportion, the work of the past two months has put new life into business generally, and the trade of the past two months has put new life into business generally, and the outlook for 1908 is very much brighter. Outlook for 1908 is very much brighter purposes continues money for counsercial purposes continues the propose of the propos Toronto, Monday, Jan. 4, 1909.-Jobbers

WHEAT

The week began with a fair market and higher prices for wheat, especially in the Chicago market, where speculators con-trol the situation. Towards the end of the week prices dropped over a cent a bushel. The decline in foreign wheat markets about the middle of the week, caused a lot of unloading by specula-tors with the above slump recorded. caused a lot of unlocating by specuritors with the above sump recorded.

It is \$150 to \$39.98, and shorts at \$22 to \$22 to \$22 to \$22 to \$23 to \$23 to \$24 to \$24

COARSE GRAINS

There is not much change in the oat market. At Montreal the principal business is in Manitoba oats, which are quoted at 45% to 46% in store here. There is nothing doing in the export line. Dealers here quote oats at 37c to 38c outside and the store of the contract of the store is quoted at 57c to 58c and malting at 58c to 585; a bush in store at Montreal. Dealers here quote barley at 50c to 58c for malting, and 88c to 58c a bush for for malting, and 88c to 58c a bush for feed barley on the farmers' market here. Peas are quoted at 58% to 58c outside and 58c to 58c on Toronto farmers' market.

FEEDS

There is no change in mill feeds. At Montreal the demand continues good, with supplies limited. Manitoba bran is quoted at \$30 to \$21 and shorts at \$24.50 to \$25 at no in bags, and ofutario bran at 10.55 at on in bags, and ofutario bran at 10.55 at on in bags, and ofutario bran at 10.55 at on in bags, and of the office of the other other of the other o is a less urgent each demand and larger deliveries are expected from American farmers from this on. At Montreal corn is quoted at fer to 70e in store for shipment in ear lots. Old American corn is quoted here at 5% to 6% cand new at 6%/c to 6% cand new at 6%/c to 6% cand corn is quoted here at 5% to 6% cand few at 6% to 6% cand corn is quoted here at 5% to 6% cand corn is quoted here at 5% to 6% a bush in car lots.

INCORPORATED 188

The TRADERS BA

pital and Surplus of Canada Capital \$6,350,000

Assets \$34,000,000

Now is the time to open a Savings Account. Make a good beginning, add to it as the proceeds of the year's work come in, and you will have a comfortable reserve, ready for likely-looking investments or unexpected expenses. \$1 opens an account.

THE BANK FOR THE PEOPLE

One of the 80 Branches of this Bank is convenient to you. Your account is invited.

POTATOES AND BEANS

The potato market at Montreal rules The potato market at Montreal rules firm with prices fully maintained at 75c a bag for Quebecs in car lots. A great many Green Mountain potatoes continue to arrive there. They sell at 78c to 80c a bag of 90 lbs in car lots. Trade is a little easier here, though prices rule steady at 60c a bag for Ontarios in car lots on track here. On Toronto farmers' market potatoes sell at 65c to 80c a bag. The bean market is somewhat unsettled. Western Ontario shippers are offering beans in car lots on track Montreal at \$1.62 to \$1.65 a bush. for three-pound pickers.

EGGS AND POULTRY

The egg market keeps strong and prices are on the up grade. An advance of it to 2c a doz is reported at Montreal. Stocks are being reduced. There has been some are being reduced. There has been some inquiry there for eggs for Ontario points which indicates a light supply in the country. Strictly freshgathered are quoted at Montreal at 40c and selects at 25c a doz in case lots. The egg supply is short here and the market rules very short here and the market rules very firm. Eggs are quoted in a jobbing way at 350 to 40c for new-laid; 25c to 35c for selects; 25c to 25c for storage; and 25c to 35c a dos for pickled and held coun-try eggs. On Toronto farmers' market new-laid sell pt 45c to 50c and fresh or teled at 35c to 35c a doz.

The dressed poultry market is stronger wing to light receipts. At Montreal there was a better market last week than for owing to light receipts. At Montreal there was a better market last week than for the Christmas trade. Receipts there are light. Dealers there quote fresh-killed turkeys at 18e to 18/5e; geese, 12 to 18/5e; ducks at 18e to 18e; chickens, at 18e and fowl at 8e to 18e a 1b. Turkeys are a little more plentiful here and the market is a little easier at 18e to 28e to the trade. Other lines are scarce. Chickens are all the control of the common towly low of collects, 18e to 18e for common towly low of the control of

DAIRY PRODUCTS

The cheese market rules quiet though more activity is expected after the new year opens up. Holders on this side and buyers in Great Britain are waiting for the other to make the first move. Cana-dian holders of cheese seem to be firmly dian holders of cheese seem to be firmly convinced that the market will move upward before long and are content to wait. The English buyer is holding up New Zealand cheese, which is now begining to arrive, as an element in the situation that is likely to prevent prices advancing. The farmer is out of the game now and can watch its progress with a cheroase of 13.60 hove as compared a decrease of 13.60 hove as compared with 1907. This with the small stocks held on this side, makes the situation a strong one for the holder. There is no change in quotations quotations.

The butter market shows little change, though an easier feeling is noticeable here owing to liberal receipts during the week.

creamery, 28c to 29c; dairy prints, choice, creamery, sec to 29c; charry prince, choice, 25c to 27c; store prints and large rolls, 22c to 24c, and inferior, 29c to 21c a lb. On Toronto farmers' market dairy prints sell at 27c to 32c and solids at 25c to 28c a lb.

UNION STOCK YARDS PRICES

U'IION STOCK YARDS PRICES

West Toronto, Monday, Jan. 4—The run
at the Union Stock Yards this morning
consisted of Si cars, made up of 1076 cattle, 379 sheep, 2 hogs and 15 calves. The
export market is hampered by lack of
export market is hampered by lack of
export market is hampered by lack of
export market is hampered by lack or
ing for shipping at the stock of the stock
good exporters sold at 85 to 85,5; export
bulls were slow, the bulk selling at \$4 to 480,
with choice picked lots selling up to \$5 a
ext. Lambs sold at 85.55 to 86, ewes at
ext. Lambs sold at 85.50 to 86, ewes at
cont. 10,000 market selling up to 25 a
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UNION STOCK YARDS HORSE

EXCHANGE

The past week was a pretty slack one in the horse trade. Receipts at the horse manage, Union Stock Yards, were the same part of the state of the state

THIS WEEK'S HOG PRICES

The William Davies Co., Toronto, will pay \$6.15 f.o.b. at country points this week for hogs. This advance in price is not due to any improved condition in the export bacon trade but to the scarcity



Has Imitators But No Competitors. Safe, Spesdy and Positive Cure; Ourb, Splint, Sweeny, Cappes Hock, Strained Tendens, Founder, Wind Puffs, and all lamness from Spavin, Ringtone and other bony tumers, Cures all skin diseases or Farnaites, Thrush, Diphtheria. Removes all Bunches from Morses or Cattie,

is a Buman Remedy for Rheumatian, sins, Sore Throat, etc., 15 in valuable sins, Sore Throat, etc., 15 in valuable for Caustic Balasm sold is ryanted to Caustic Balasm sold in the control of the control The Lawrence-Williams Co., Torente, Ont. the advertismer counts as one veach insertion.

a box at our Off pay postage on it Cash must according to the country of the c NO BLACK-any kind will be making a small a large one.

FOR SALE-Pr years old, br

> B CARDS

ABRAM EAST

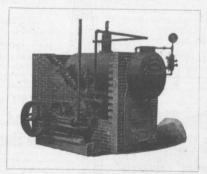
R. H. HARDING,

JOS. FEATHERS It is desirable

THE SUPERIORITY

Dairy Outfits

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of hogs in the country. Until the past offering on Thursday sold at 86 a cwt. cock. Danish killings have ruled heavy. At Buralo veals are quoted at 87 to 89.25 unring the holiday season there has been a cwt. falling off, but the Danes are likely to et back to their usual quantity when he holidays are over.

MONTREAL HOG . MARKET

MONTREAL HOG. MARKET
Montreal, Saturday, January 2. —There
is no change to note in the local market
for live hogs this week. Prices are firm
at the slight, advance scored last week,
the slight advance scored last week,
the control of the slight of the slight
the offerings this week, which were light,
were quickly bought up.
The demand for dressed hogs was good,
and prices ruled at \$9 to \$25.2 a cet for
fresh killed abstitoir stock. Country dressterms are considered to the slight, and there
a record demand for little, and there
is a good demand for little, and

a good demand for light weights at 8 to \$8.50 a cwt.

LIVE STOCK

LIVE STOCK
The live stock trade of the past, week has been very satisfactory to the trade in general, and especially for cattle. Receipts have ruled light. At the Union Stock Yards on Monday there were only it cars of stock all told, and prices were well maintained, some exporters selling at 85.35 a owt. At the City Market during the week receipts were light and a steady to firm market ruled all week.

John Market and Trade in butthers exited the stock of There is considerable Christmas beef on hand yet and trade in butchers' cattle at the end of the week was a little quiet for the quality, the demand being more much choice stuff offering, however, and everything sold readily. Choice stuff is quoted at \$4.50 to \$5.5 a cwt. Medium cat-tle sold at \$3.75 to \$4.25; cows at \$1.75 to \$4.15, and canners at \$1.25 to \$4.15 a cwt, is not as brick as it was . The quality is not as brick as it was . The quality not as brisk as it was. The quering on Thursday sold at \$50 each her kinds down to as low as \$25.

sell Ib

run

cat-

buy-eek

E

the

Shoe Boils, Capped 1 Hock, Bursitis are hard to cure, yet ABSORBINE

There is a wide range of prices calves, from \$3.50 to 87 a cwt. The b

will remove them and leave no b th. Does not blister or remove to hate. Cures any pull or swolling. Horse can e worked, \$2.60 per bottle, delivered, Book, 6 D free. ARSORBINE, JR., (mankind, \$1.00 bettle.) or Bolis, Brulses, Old Sores, Swellings, Goltre, carloas Veins, Variances. W. F. YOUNG, P.O.F., 123 Monmouth St., Springfield, Mass LYBAN, S 58 & C., Montreal, Canadian Arcots.

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each insertion. When replies are to be sent to
a box at our Office, 10 cents extra is charged to
possible on replies to be sent to advertisors
Labs must accompany seach order.

COPY must be received Friday to guaranteen sertion in issue of the following week. NO BLACK-FACED TYPE or display any kind will be allowed under this head, th making a small advertisement as noticeable a large one.

FOR SALE—Pure Bred Clyde Stallion, two years old, bred from imported stock. Al-bert Foster, Humber, Ont. E-1-6

EXPORT BUTTER AND CHEESE Montreal, Saturday, Jan. 2.—The stock of cheese in Canada has not been reduced to any great extent during the past month, and as the shipments since the close of navigation do not total more than close of marigation do not total more than 30,000 boxes, and as the receiptin into Mon-treal during the month have aggregated 10,000 boxes, this makes a net reduction only 20,000 boxes, leaving milable here of only 20,000 boxes, leaving positions. This is moderate for the time of the year, and with a decent demand, the article should be quickly cleaned up. The demand, how-ber the position of the property of the con-traction of the property of the property of the position of the property has been more inquiry during the past few days, there has been very little cheese moved. Holders are confident, how-ever, and look for a steady increase ever, and look for a steady increase in the demand from now on, and believe

rate of Soda

Nitrate Sold in Original Bags NITRATE AGENCIES CO.

64 Stone Street, New York Keyser Building, Baltimore, Md. 36 Bay Street, East, Savannah, Ga, 305 Baronne Street, New Orleans, La, 140 Dearborn Street, Chicago, III. Holcombe & Co., 24 California Street San Francisco, Cal. Address Office Nearest You

Orders for All Quantities Promptly Filled—Write for Quotations

SELLS LIKE SIXTY \$65 ENGINE Separators, Churps, Wash Machines, etc. FEEE TRIAL
A Ask for catalog-all sizes
all.SON MFG. CO. 101 York St. GUELPH, ONT.

SHEEP AND SWINE

H. BARTLETT MBO, LINCOLN, ONT.

BREEDER OF DORSET SHEEP empt Attention given to Inquiries.

BERKSHIRES AND TAMWORTHS ice Berkshire Boars fit for service and sows ready reed, by imported sire. Choice Tamworths, all by a Toronto and London prize winning boar.

J. W. TODD, E-2 17-09
Maple Leaf Stock Farm Corinth, Ont.

YORKSHIRES

Apply Manager, FAIRVIEW FARM 0-9-1-09 LUMSDEN'S MILLS. QUE.

PINE GROVE BERKSHIRES



For Sale are my wat the late Winter Guelph, Sows bro te Winter Fair, Sows bred and breed; boars fit e. Younger ones sexes, Guaran-

Georgetown, G.T.R., Milton, C.P.R., Halton Co. 6-0-9-00 W. W. BROWNRIDGE, Ashgrove

that there will be very little cheese left here unsold at the end of Jaanuary. Quo-tations are unchanged and range from 122/26 for fancy Septembers down to 120 tations are uncanned and range from 13% for fancy Septembers down to 12c for the tail end lots, with a few of un-der finest obtainable at less money. The butter market is steady and prices

The butter market is steady and prices are unchanged. Finest grass goods ex cold storage is obtainable at 27% to 28c, whilst fresh receipts are quoted all the way from 25c up according to quality.

GEO. JACKSON, Auctioneer, Live stock a specialty. Address Port Perry. 'Phone

CALVES Raise them witho t Milk Booklet Free. WHITE & GILLESPIE, Peterboro, Ont.

AYRSHIRES

NEIDPATH AYRSHIRES Bull Calves dropped this spring. By imported Bull. First prize Toronto, Ottawa, and Halifax. Long distance phone

e-4-09 W. W. BALLANTYNE, Stratford, Ont.

SPRINGBROOK AYRSHIRES

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

HUME FARM AYRSHIRES

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

SPRINGHILL AYRSHIRES

Imported and home bred stock of al ages for sale. See our stock at the leading shows this fall. Write for prices. ROBT. HUNTER & SONS

Maxville, Ont. E 6-23-09 Long distance phone.

BURNSIDE AYRSHIRES

Champion Hard of Canada; Champion Hard of Canada; A National Show in Chicago, 1907. The home of Imported Destry ofth of Auchenbrain—1577 in home of Imported Destry ofth of Auchenbrain—1577 acquailfied in the Record of Performance set with good records of milk and fat. Herd headed by Barchesite King's Own, inp. Imported and Canadian bard stock of all ages for sale. R. R. NESS, Exp. 25-12-69.

STONEYCROFT STOCK FARM

Harold M. Morgan, prop., Sts. Anns de Bellevue. Choice young Ayrshire Bulls and helfers for sale. Yorkshire pige from Imported Sires and Dams. February and March Hiters. Largest selection. High-est quality. Write for prices.

" 4-26-09 E. W. BJORKELAND, Manager

JUST BULLS



For sale 1 to 10 months old. Hol-steins and Ayr-shires. Great milking strains.

GEO. RICE Tillsonburg, Ont.

HOLSTEINS

FOR SALE.—One Holstein bull, two years old; one cow, 6 years old; two yearlin heifers and bull calf.—SAMUEL LEMON, Lynden, Ont.

BERTRAM HOSKIN

Mount Pleasant Farm, The Gully, Ont. Breeder of Holstein Cattle, Tamworth Swine. High-Class young stock for sale Long Distance Phone 01-1-1-09

FOR SALE-30 HEAD of HOLSTEINS If you are wanting a choice young cow or heifer it will pay you to write me before making yourselection, or better co. e and pick them out.

GORDON H. MANHARD 9 Manhard P.O., Leeds Co., 7 miles north of Brockville on C.P.R. (Clark's Crossing)

R. O. MORROW & SON, Hilton, Ont.

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Breeders of Holsteins, Tamworths, and
Cotswolds. Present offerings, 3 young
bulls, boars fit for service, sows bred. Also
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Telephone connection. Brighton, G. T. R.

SPRINGBROOK HOLSTEINS AND TAMWORTHS

32 Choice Young Tanworths, from imported sows and sired by imported Knowel King David. A few rich bred Holstein bulls and several females. Bargains to quick buyers. A. C. HALLMAN,

SANGSTER NEIL



E-5-11-09

Four bull calves, 6 to 10 months on from Record of Merit cows, one from a 2 year old heifer with a record of performance test of \$785 lbs. of milk in a year. They will improve your herd. Write for prices.

HOLSTEIN BULLS FOR SALE

No. 1-Ten mos., white, sired by Toronto winner hose dam and granddam averaged over 22 lbs. but-There in 7 days.

No. 2 — Bight mos., ½ black, dam a grand-daughter of Mercena and, a7 lbs. butter in 7 days.

No. 3 — Three mos., beautiful calf, extra well-grown choice females, unrelated to above bu'lls, for sale. Price on any of the above will be right. Write or visit.

HILL-CREST HERD, G. A. Brethen, Proprietor. Norwood, Opt.

SUNNYDALE HOLSTEINS

For Sale, first prize bull, 9 months old, price \$40; also a few good cows in calf by Disclaimad Sir Hengervoid Maplecroft, by Disclaim Sir Hengervoid Maplecroft, Kol, champion bull of the breed, the only sire of two daughters that have made over 30 lbs. officially in seven days. Prices reasonable.

E4-20. A. D. FOSTER, Bloomfield, Ont.

Mention Farm and Dairy when writing.

HOME-BRED AND IMPORTED HOLSTEINS

We must sell at least ag cows and helfers at once, to make room for the atural increase of our herd. This is burgain; we also have a few young bulls, Pontiat Hermes, Imp., son of Henderveld DeKol, world's greatest sire, head of herd. Come and see them.

H. E. GEORGE, CRAMPTON, ONT. Putnam Stn., 1% miles-C. P. R.

IMPERIAL STOCK FARM

Present offering 13 grandly bred Holsendam, Mercena 2rd, 27,68 lbs, Butter in 7 days. D. Tidy Pauline Beld; Sal lbs, Butter in 7 days. Sire G. D. Alily Posh 4th, 33,98 lbs. Butter in 7 days. G. D. Tidy Aberkerk, 27,58 lbs. Butter in 7 days. Aliar Posh 57,38 lbs. Butter in 7 days. G. D. Tidy Aberkerk, 27,58 lbs. Butter in 7 days. Aliar Posh 57,38 lbs. Butter in 7 days. at 2 yrs. old. Tidy Aberkerk Dakol 23,58 lbs. Butter in 7 days. at 2 yrs. old. Tidy Aberkerk Dakol 23,58 lbs. Butter in 7 days. at 2 yrs. old. Tidy Aberkerk Dakol 23,58 lbs. Butter in 7 days. at 50 yrs. old. Tidy Aberkerk Dakol 23,58 lbs. Butter in 7 days. at 50 yrs. old. Tidy Aberkerk Dakol 23,58 lbs. Butter in 7 days. at 50 yrs. old. Tidy Aberker Dakol 23,58 lbs. Butter in 7 days. at 50 yrs. old. Tidy Aberker Dakol 23,58 lbs. Butter in 7 days. at 50 yrs. old. Tidy Aberker Dakol 23,58 lbs. Butter in 7 days. at 50 yrs. old. Tidy Aberker Dakol 23,58 lbs. Butter in 7 days. at 50 yrs. old. Tidy Aberker Dakol 23,58 lbs. Butter in 7 days. at 50 yrs. old. Tidy Aberker Dakol 23,58 lbs. Butter in 7 days. at 50 yrs. old. Tidy Aberker Dakol 23,58 lbs. Butter in 7 days. at 50 yrs. old. Tidy Aberker Dakol 23,58 lbs. Butter in 7 days. at 50 yrs. old. Tidy Aberker Dakol 23,58 lbs. Butter in 7 days. at 50 yrs. old. Tidy Aberker Butter Butter

W. H. SIMMONS, New Durham P.O. Harley Sta., G.T.R.

Breeders' Directory

CARDS under this head inserted at the rate of \$6.00 a line a year. No card moundan

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JOS. PEATHERSTONE & SON, Streetsville, Ont. Large Yorkshirk Hogs for sale, E-11-09

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Ten Head of Females, all ages, For Sale, to make

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THIS will excel in practi-

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Large Increase Over Last Year's Awards in All Classes.

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