

FARM AND DAIRY (Formerly The Canadian Dairyman and Farming World.)

The Needs of Country Life

The country life commissioners ap-pointed by President Rosevelt, after touring the United States investigat-ing the corditions of country life, have sent in a report of their findings. Con-gress has received from the president a summary of the report, accompany-

ing which was a special message by the president emphasizing the points made

by the commission. Among the things needed by the farmers, it was asserted, are more co-operation, improved schools, and better means of communi-cation. The president's message begins with the announcement that not a dol-

ar of the public money has been paid to any commissioner for his work. The report indicates the ways in which the government, national and state, may show the neonle how to solve some of

government, national and state, may show the people how to solve some of the rural problems, and suggests a continuance of the work which the commission has begun. The president's statement in brief of the three great general and immediate needs of coun-try life is:

general and immediate needs of coun-try life is: "First, effective co-operation among farmers to put them on the level with the organized interests with which they do business.

The commission points out, and the resident concurs in the conclusion,

States Department of Agriculture should become without delay, in fact, a department of country life, fitted to deal not only with crops, but also with all the larger aspects of life in the

THE CONDITIONS FOUND

that the farmer expends and the risks that he assumes, and that the social

open country.

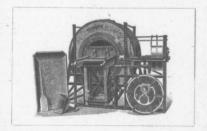


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There is an entire absence of bearings, loose heads, journals, stuffing boxes, gears, etc., inside of the drum, thus avoiding a chance of leakage or injury to or soiling of the cream or butter.

Every part of the machine can be reached with a scrub brush, and is plainly visible.

The butter working is visible and is fully controlled by the operator. This operation is no longer a



matter of guesswork, but it is as certain as with the table butter workers.

The salt can be added while the butter is being worked, ensuring an even distribution.

The butter is automatically delivered from the drum by means of a sliding tray, or hopper. There is no digging out of the butter with ladles or spades.

It is the only automatic combined churn and butter worker in which the cream can be placed and churned and the butter worked and delivered automatically ready for packing.



The life of the country woman i The life of the country woman is burdensome and narrow. There is need of adequate supervision of pub-lic health. The farmer is handicapped by the speculative holding of land, monopolistic control of the streams and forests, waste of our natural resources, and by restraint of trade. WHAT IS NEEDED

Much emphasis is laid upon the need of training toward the agricul-tural callings in the country schools; agricultural instruction should be a apart of our regular public school work. Special agricultural schools should be organized. Better roads are needed, and rural free delivery should be ex-Special agricultural schools should be organized. Better roads are needed, and rural free delivery should be ex-tended, and there should be a pared post. The commission says that each state college of agriculture should or-ganize, as soon as practicable, a com-plete department of college extension. Local, state and national conferences on rural progress should be held to unite the interests of education, or-manization and religion. The suggest unite the interests of education, or-ganization and religion. The sugges-tions of the commission only outline a general plan whereby the strong resident forces in the open country may themselves build up a new and better streage scoil structure. To see better rural social structure. To ac-complish this the entire people must be aroused. The time for this is at hand.

#### **Dairy Legislation Wanted**

they do business. "Second, a new kind of schools in the country which shall teach the children as much outdoors as indoors and perhaps more so, that they will be prepared for country life, and not, as at present, mainly for life in town. "Third, better means of communi-At a meeting of the executive of the Eastern Ontario Dairymen's Asso-ciation held at Kingston recently, a committee was appointed to wait upon the Minister of Agriculture and ask for legislation which will in future prevent the building of necess or but-ter factories in any locality unless a certain number of cows is assured and the site of such building has been ap-proved by the chief innector or some "Third, better means of communi-cation, including good roads and a parcel post, which the country peo-ple are everywhere and rightly unan-imous in demanding. To these may well be added better sanitation, for easily preventable diseases hold sev-eral million country people in the slavery of continuous ill health." president concurs in the conclusion, that the most important help that the government, whether state or na-tional, can give is to show the people how to go about the tasks of organiza-tion, education and communication. This shows and public the shows the president is that an appropriation of president is that an appropriation of

the site of such building has been ap-proved by the chief inspector or some other appointee of the government. A resolution was also passed that the Department of Agriculture at Ottawa be requested to grant the same amount of money to cheese factories as is now granted to creameries pro-viding the factories put in the appli-ances for the cool curing of cheese.— R. G. Murphy, Secretary.

#### A Correction

commendation specifically made by the president is that an appropriation of \$25,000 be provided by Congress to enable the commission to digest the material it has collected and to di-gest much more that is within its reach, and thus complete its work. The president mays: "Crog growing is the essential foundation of country life; but it is no less essential that the farmer should get an adequate return for what he grows; and it is vital that he and his wife and children should lead the right kind of life. The United States Department of Agriculture should become without delay, in fact, A Correction A rather misleading error occurred in an article on the taxation question entitled "Proposed Change in Munici-pal Laws," by L. B. Walling, in our issue of Feb. 4th. The quotation from the petition should have read "so that municipalities may tax improvement values at a lower rate than land values at a lower rate than land values at a lower rate that land values at a lower rate that and values at a lower rate that and rates at a lower rate that and values at a lower rate that and the source of the source of the source provement values, in ever rate to be done in the rates, in every case to be deter-mined by the municipality." The words "at a lower rate than land values" were omitted.

#### **Items** of Interest

A case against Herman Bearces and Thos. Howard, young men belonging to Blenheim Township, Oxford Co., Ont., who were charged with sowing rye in the wheat field belonging to Wim. Forman of the same township, was tried recently, when the accused was ordered to pay \$25,000 damages to Forman with \$18.25 additional cost of the case. They were then released of unuponded sentence.

on suspended sentence. W. B. Williamson, a Toronto horse dealer, was convicted, a for days ago, in Judge Winchester's court, Tarato, of entering a forged document in non-nection with a Clydedale pedigreso Williamson sold a Canadian-bred Cly-desdale mare to Measra. Morgan & Irwin, of Ripley, Bruce Co., Ont., presenting a certificate of registration for an imported mare. Sentence was surgeded. Judge Winchester remarkpresenting a certaincate of registration for an imported mare. Sentence was suspended, Judge Winchester remark-ing that if a similar case came before him that the penalty would be to the full extent prescribed in the statute.

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FARMING IN THE MUSKOKA DISTRICT

#### Contrary to the Opinion held by many, Muskoka is not a land of Summer Resorts only; it has much Arable land on which Clovers, Potatoes and Cereal Crops excel, and upon which a high-class of Live Stock is kept

HAT the Muskoka District has large agricultural possibilities and is not simply a summer resort as many imagine, is evidenced by the well-kept farms, the comfortable residences and the fine appearance of the farmers of that portion of Ontario. That the country is by nature adapted to the production of live stock and dairying was brought home to one of the editors of Farm and Dairy while judging last fall at some of the fairs in the section. Horses, cattle, sheep, swine and poultry of a class and quality, of which any community might be proud, were found at the exhibitions throughout the district. The horses, in particular, especially those in the draught, agricultural and general purpose classes,

would be hard to beat in any section. Dairying, in the form of home buttermaking, flourishes. The people are evidently masters of the art of buttermaking, if the quality and flavor of the butter exhibited at their fairs is any just criterion.

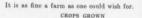
Possibly the natural advantages of the country can be set forth best by a reference to one of its farmers who has made a success of his business under adverse circumstances. Twenty years ago, Mr. J. J. Beaumont, a Norfolk farmer in England, who was operating a large farm, was struck by the hard times and was dispossessed of practically his last pound. Realizing that his chances of ever rising to his old level, were against him if he remained in the Old Country, his thoughts naturally turned to Canada. He accordingly headed for the

Muskoka District and stopped at Bracebridge. Mr. Beaumont, as is the practice with landed gentry in the Old Country, had never been used to practical hard work on the farm. He was thoroughly conversant, however, with the ways of doing things as he had always been of an inquiring mind and wanted to learn and understand all things in connection with farming. He had worked for short intervals at all kinds of farm work, having done it in the spirit of fun as well as from his desire to acquaint himself with farm operations that he might the better direct his laborers.

#### FIRST EXPERIENCE

On reaching Bracebridge, he applied to a farmer for work. The farmer, noting that he was an Englishman, was rather loth to employ him. After assuring his prospective employer that if he

did not know much of farming he could at least learn, Mr. Beaumont was taken on and set to work mowing timothy with the scythe, along with some other workmen. The employer, wishing to make it as hard as possible for the new man, gave him the poorest scythe. His co-laborer, however, noting the inferior tool, traded with him and smashed the worn out implement in full view of his employer. This necessitated the purchase of a new scythe. The new man soon proved that he could do things and that he was in dead earnest. He continued with this farmer for four months, during which time, he had become acquainted with his surroundings and had proven at least that he knew something of farming.



The principal grain crop grown is oats. Peas are sometimes grown successfully but of recent years they have been damaged owing to high water backing up from Muskoka Lake. No trouble of this kind was ever experienced until the last two years. When the C. N. R. built through on the west side of Muskoka Lake, they filled one of its outlets and erected a large swing bridge over another. The pier, on which this bridge swings, blocks up about one-third of the channel. With these two natural outlets, more or less stopped, the high water in the spring cannot get away fast enough. Consequently, it backs up into the river's mouth, doing much damage to the farm crops as well as being a constant menace to cottages and boathouses on the islands. Mr. Beaumont is circulating a petition among the various property holders surrounding the lake and he hopes to have these waterways opened ere long by order of the Dominion Railway Commission.

Clover, the common red variety, grows luxuriantly wherever sown. On Mr. Beaumont's farm, all land devoted to cereals is seeded to clover. On all fields where crops had been removed was to be seen a catch of clover which would be the pride of any farmer in Older Ontario. So well is clover adapted to this country that it grows in profusion even along the roadside. The high water above referred to is its only detriment. Several acres of corn are

grown to furnish fodder for the cattle in winter. Last fall, a new tub silo 15 x 28 ft. was erected. At the time of our visit, this had just been filled. It seems impossible to grow mangels with any degree of success. Turnips are grown instead. The soil is a sandy loam and it grows turnips to perfection. A large acreage of as fine turnips as

#### A Barn Typifying Agricultural Progress in the Muskoka District

A special feature of this barn is its covered gangways or approaches to the barn floor, one of which may he seen beside the silo. The stables under this barn are well lighted and venti-lated. Read the adjoining articles.

A neglected nearby farm, which had been rented for some time, was, in the fall of the year, on the market for a tenant. The farm had a bad name in the neighborhood, however it appealed to Mr. Beaumont. He was advised by his best friends, and by all that knew him, that the farm was useless and that he would make a great mistake if he had anything to do with it. However, he thought he knew land when he saw it and he was satisfied that the farm could be made one of the best if not the best in the neighborhood. Accordingly, he took a five-year lease of this farm, with an option of buying. Ere the five years were up, he became thoroughly convinced of the value of the land and secondingly purchased it. To-day, Mr. Beaumont has the same 1,100 acres, 200 acres of which is under cultivation, a large part in rock pasture and the remainder in wood and timber.

THE BARN AND STABLES

A few years ago, Mr. Beaumont re-modelled his old barn and made considerable additions to it. He now has a modern, improved barn, 80 x 42 ft. well laid out and equipped with labor-saving devices such as the hay fork, and litter carrier. A novel feature of this barn is its covered gangways or approaches to the barn floor. Under these are the root houses.

"These covered gangways are one of the best features of the barn," said Mr. Beaumont. "Although the barn has a basement under it, it is possible to drive in one side and out the other, and the gangway never becomes slippery in wet weather.'

Everything grown in the shape of fodder is fed on the farm. When Mr. Beaumont started on

one could wish for was to be seen in this section.

FARM AND DAIRY (Permerty Tas Canadian Dairyman February 25, 1909. and Parming World.)

this farm, and put this idea into practice, as well as that of baying feed for his stock, his neighbors were of the opinion that it did not pay to hire men or to buy feed, but that a farmer could hope to make money only on that work which he could do bimself and upon that feed which he could little of everything and then he is sure to have something right," said Mr. Beaumont, when speaking of the system of mixed farming which he practised. "A farmer should keep accounts, for in that way and in that way only can be know where he stands with his business."

Mr. Beaumont is a strong believer in knowing just what he is doing and where the profits come from. With this idea in mind, he is keeping individual daily records of his cows. In eight and a half months, since January 5, 1908, his best cow had given 8,500 lbs. of milk.

#### THE STOCK KEPT

Mr. Beaumont is a strong advocate of the dual purpose cow. He believes he obtains such a cow by crossing Ayrshire cows with a good Durham bull of milking strain. The 12 cows which we saw in his stable proved that he had met with a fair measure of success with his chosen cattle. A large field. His idea is to raise as many early lambs as possible, which he slaughters and sells in connection with a boat that he runs on the lakes to supply the summer cottagers. This latter feature is the means used by this enterprising farmer to market a large part of the produce of his farm.

Large numbers of chickens, over 1,000 a year, are raised by means of incubators and brooders to supply the steady demand of the cottagers that purchase from his supply boat. A large flock of ducks also is kept for the same purpose.

#### FERTILITY OF THE SOIL

The fertility of the Muskoka soil, and especially the soil of this particular farm, was clearly demonstrated by a visit to Mr. Beaumont's truck garden. Three or four acres were devoted to the growing of carrots and beets. Aside from a thorough cultivation and keeping them free from weeds, the carrots and beets had received no extra care. Indeed they had not even been thinned. Our surprise was great when with two hands a bunch of from eight to 12 roots, all of marketable size, were pulled up from a single space in the row. It seemed incredible to one coming from Older Ontario, where a crop could not be expected unless it were carefully thinned. An acre of strawberries and an acre set out in raspberries, currants and other bush fruits are also devoted to supplying the demand of the cottagers.

#### THE TELEPHONE ON THE FARM

In keeping with all the departments of this well-managed farm is the telephone which Mr. Beaumont installed a few years ago. This 'phone is a private line out from Bracebridge, though it is owned by the Bell Telephone Co. For the privilege of this 'phone Mr. Beaumont pays \$65 a year. ''I cannot see how it is that farmers do not go in more strongly for the telephone,'' said Mr. Beaumont. 'I' would not do without it for twice what it costs me. Where rural systems can be put in at a cost of from \$10 to \$15 or even \$20 a year, I feel certain that farmers would not do without the 'phone once they had experienced the great advantage that comes with the installation of a good telephone service.''

The success that Mr. Reaumont has made of his business stands out as a shining example of what pluck, a desire to learn, and a determination to win, can do for a farmer. Many having been in his position in earlier years would have been content to remain there. Not so with this stalwart son of England's soil. He has triumphed over his hard luck, his difficulties and discouragements, and has made of himself a citizen of whom Canada may well feed proud.—C. N.

#### More Comments on the Danish Commission

Thos. McFarlane, Carleton Co., Ont.

That the question of sending a commission to Denmark was the subject of considerable comment on the part of the Dominon Swine Breeders' Association that met in Toronto, recently, I was very glad to note in the issue of Farm and Dairy for February 11th. I was also pleased to hear that they took the step of appointing a committee to wait on the Minister of Agriculture, the Hon. Sydney A. Fisher.

The swine industry is a very important one to this country. It, like dairying is only in its infancy as yet in this country. If the government does not do something to further the bacon indus-

Allow me to commend you upon the admirable "make up" and contents of your paper, Farm and Dairy. It is a wonder to me, how you manage to furnish so much well selected and original reading matter for so little money a year. Farm and Dairy is well printed and in every department reflects lustre upon its management.-Maj. J. Snelgrove, Northumberland Co. Ont.

try, the loss of it will be a great one to the Dominion, especially to those engaged in the dairy business.

In your issue of Farm and Dairy for Feb. 11th, I also noted some questions asked by A. S., Renfrew Co., Ont., concerning swine, answered by J. H. G., where he selected four different breeds. I would like to know how we are going to get the uniform side of bacon from the many breeds that he has recommended.

I trust that the deputation from the Dominion Swine Breeders' Association will convince the Dominion Government of the necessity of taking action towards sending the proposed commission of farmers to Great Britain and Denmark to investigate conditions of bacon production there at first hand.

#### Bacon Type Do the Best W. G. Telford, Peterboro Co., Ont.

Many people look upon the bacon type of hog with suspicion believing it to be a hard animal to feed. They prefer the shorter more snub-nosed type, claiming that these are easier to raise and



#### Large Blacks

A breed of pigs in considerable favor in England, but one that has not proven satisfactory in Canada.

are more easily fattened. Such has never been my view. I prefer the lengthy flop-eared white Yorkshire. I find they feed much better than do the shorter ones.

It may be interesting to some of the readers of Farm and Dairy to have the results of a lot of 12 that I fed of recently. Six in this lot were of the lengthy flop-eared sort; four others in the same lot, though a good stamp of bacon pigs were shorter with snub noses and fine ears. These 10 were all of the same litter. In with this same pen, were two other pigs of the Tanworth-Berkshire cross.

The twelve all had the same attention and the same advantage at the feed trough from the time they were weaned. The six lengthy fellows of the best bacon type did much better than the rest. When we came to sell them, they averaged from 15 to 20 lbs. apiece heavier than the shorter ones or the cross-breds. In addition to this extra weight, they would have been worth more money than the others had they been sold to a packing establishment that carried out an honest system of grading. From my experience, I believe the bacon hog of the best type is the only kind to feed and he will outdo shorter type every time in making economical gains.

The great thing in the management of bacon hogs is to get the right breed and to give them the right feed. Pigs must never be stunted. The pig once stunted or allowed to lag behind at the start will never catch up again and will be kept at a loss as long as he is fed. In order to get pigs started well, it is practically necessary to have a supply of skim-milk. Without the skim-milk it is a difficult proposition to keep them growing and in a thriving condition for the first month or more after weaning.

#### Selecting Mares and Stallions

W. Staley Spark, Manning Chambers, Toronto.

In selecting a mare for breeding purposes, you should get one well ribbed and wide with length, depth, ample heart room and a good constitution. The foals often take after their dams in constitution and stamina, therefore it is highly necessary to select mares possessing these qualifications. The head and neck should be well set on good sloping shoulders, the quarters big and muscular, and, above all, good legs and feet. The feet should be of good size, sound open ones, not abnormally large but hollow below, with strong heels and thick tough crusts. Big, flat, overgrown feet are often weak. They are the first place where a heavy horse is likely to go wrong, if overtaken by any serious illness.

#### THE STALLION

It depends greatly on the make and shape of your mare as to the stallion you should mate with her. You must always try to find a stallion which possesses in a marked degree the good qualities in which the mare is deficient. In the selection of a stallion the most particular attention must be paid to the size, quality and formation of his limbs and locomotive organs. It is not a question of weight and width of carcass only, he should in the first place have feet similar to those I have stated the mare should have, and his knees should be big, also his hocks. The bone must be of good quality, and the tendons fully developed.

A horse with weak and badly developed tendons stuck up against his cannon bones always measures badly below the knees and consequently is very liable to suffer from sprains and contractions of the back tendons. A stallion should have strong, muscular arms and thighs and powerful wide quarters.

Action is highly important in a stallion, and is undoubtedly likely to be hereditary, especially in the walking pace, which is the most important pace of all. Never use a stallion which is not free from hereditary disease. In my opinion all stallions should have a certificate of soundness before they are allowed to serve.

#### Tanning Skins G. Smith, Brant Co., Ont.

Many of the methods used in tanning small skins and furs are so troublesome and require so much time and attention that they are in the end mc.e costly than having the work done by a professional tanner. The following methods, however, have given satisfaction, are simple and inexpensive.

Remove all fat and flesh from the skin by careful scraping with a dull knife. If the skin is dry, soak it in cold water to soften it; then apply to the flesh side a mixture of salt, saltpetre and

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#### February 25, 1909.

alum, in equal parts. Fold together, flesh side inward, and keep in a cool place where it will not freeze, as freesing delays the tanning. After two days wash the flesh side with cold water, and rub and work the skin with the hands to soften it; apply a fresh coating of the mixture and fold together as before. This process must be continued until tanning is complete; the time necessary varies with the thickness and density of the skin.

Another method is to apply an even coating of a good soft soap to the skin; with this, as with the first method, success depends largely on the proper handling and care of the skin, both in preparation for tanning Ind in the process itself.

Uniform results cannot be secured when one part of the skin is clean and free from flesh while another part is thickly covered with it. When tanning is complete the skin is thoroughly washed to remove every trace of the tanning mixture, after which it is dried carefully in a cool place. When nearly dry it should be oiled lightly to keep it soft and pliable.

In tanning skins with the hair on care should be taken to keep the hair as dry and free from the tanning mixture as possible. Should the fur be found dingy-looking when the tanning is done, sift into it some scorehod bran and brush "with the grain" with a soft brush; remove the hair and the fur will be found bright and glossy. For tanning fine furs the process using the salt, saltpeter and alum will generally be found more satisfactory than the method requiring sony.

For tanning skins without the hair the process is the same except that the hair must be removed be tanning. This can be done by applying wood ashes and salt to the skin, after cleaning and soaking it; roll up and keep in a warm place. In a short time the hair will be so loosened as to be easy of removal by scraping with a dull knife, with the grain. The skin must be thoroughly washed before tanning.

#### Production of Maple Syrup

C. A. Westover, Missisquoi Co., Que.

. Modern utensils are required in the production of maple syrup just as much as in any other branch of farming, if a first-class article is to be produced at a profif. The old way of boiling sap in an iron kettle hung from three poles over a fire, is no longer profitable. The increasing scarcity of wood compels us to adopt a more economical method of boiling, and the exacting tastes of the market demand a milder flavored syrupreforms which can be effected by a modern evaporator and iron arch.

' It is a difficult question to settle how many trees are necessary before an evaporator is a prfitable investment. If from 300 to 400 or more trees are to be tapped a complete outfit is almost indispensable. An outfit should consist of an evaporator, arch, spouts, buckets, gathering tank mounted on a sled, storage vats for sap, settling cans for syrup, flannel or felt stramers, bits, etc., and last but not least, a good building in which to place the evaporator and arch, with a shed near by filled with dry wood.

There are several reliable firms which make evaporators and arches and they will advise intending purchasers what size to buy for a given number of trees. We have used one evaporator and iron arch (Grimm's Champion)  $4 \ge 16$  for for several years to boil the sap from 1,500 spouts. It does all that was claimed for it when used according to directions. To get the best results thoroughly dry wood only should be used.

#### WOOD VS. METAL

With regard to spouts and buckets there is a difference of opinion as to whether wood or metal is better. Motallic spouts and tin buckets are generally recommended. Good syrup, however, can be, and is yearly produced, from wooden spouts and buckets. Wooden buckets should be

#### FARM AND DAIRY (Formerly The Canadian Dairyman and Farming World.)

painted on the inside, and if possible, on the outside also, they being much easier to keep clean when so treated. One advantage claimed for wood over tin is that it is not so good a conductor of heat and consequently, say is not hikely to sour in the buckets if the sun strikes them fairly in the latter part of the sugaring. Galvanized iron buckets cannot be recommended bocause they are hard to keep clean. Cleanliness is essential to quality in syrup.

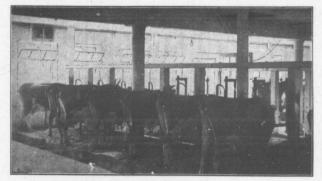
#### STANDARD SYRUP

After the sap begins to flow it should be gathered every day, drawn to the boiling place, strained and boiled down to syrup as rapidly as possible. Standard syrup weighs 13 lbs. two ozs. per gallon and will register 218 to 220 degrees F. when boiling. Atter reaching that temperature it should be removed from the evaporator, strained through a flannel or fet strainer into a large softling can and allowed to settle for at least 48 hours. It will then be ready to put into cans or bottles for the retail trade. For wholesale trade syrup is put into five gallon tin cans and wooden kegs holding from 15 to 50 gallons each. some others in different parts of Ontario have drawn conclusions somewhat similar to my own. We have not all model farms to start with and that method, which (as one correspondent expresses it) will grow three bushels of grain where formerly two bushels grow, and one weed where formerly hundreds were in evidence, is certainly not to be condemned yet a while.

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#### MR. RENNIE'S METHOD

It might be well just to remind Mr. Fixter that Mr. Wm. Rennie, whose own farm was a model for cleanliness from noxious weeds and: who by the application of his methods was able to transform in two years, an annual deficit on a well known Ontario farm of \$5,000 into a dividend of \$2,000, was not able with his very wide experience in these matters to draw the conclusions, re after cultivation of root ground, that Mr. Fixter is advocating. When illustrious farmers like the above mentioned gentleman differ so widely in their methods and conclusions, is it any wonder that ordinary farmers like myself with o agricultural college or experimental farm advantages, begin to wonder where we are at? And who is



#### Row of Guernsey Cows at Central Experimental Farm, Ottawa

These cattle have proven profitable butter cows at that institution. Note the abundance of light and the general sanitary arrangements of the stable.

Cleanliness is necessary during the whole process of syrup and sugar-making. All dippers, etc., should be washed, the scum that rises on the say abould be skimmed off and thrown away. The evaporator should be wiped off every day. When the season is over, all utensils should be thoroughly washed, scalded, and dried before being put away for the summer. During the winter everything should be put in good order so that when sugaring operations begin there will be no vixonious delays for repairs. A good supply of wood should be cut ready for the next year.

#### Fall Cultivation of Corn and Root Land G. A. Brethen, Peterboro Co., Ont.

In reply to Mr. Fixter's further explanation as to his position as an advocate of deep cultivation of corn and root ground, I am glad that he has decided to discuss this matter and I hope we all as readers of Farm and Dairy may receive some banefit from the discussion of this very important subject of soil cultivation.

To Mr. Fixter who has had a practical experience of 22 years upon experimental farms, it may seem a little presumptuous for a young man, with the limited experiences that an 100 acre farm affords, to even question his method. However, I can say with Mr. Fixter that "I have given my personal experience and actual observation only" with the working out of the "shallow cultivation" of handling root ground. It would seem, however, from atticles which have appeared in Farm and Dairy from time to time as though at least right anyway? For my part, I would like to see the advantage and disadvantages of each method so thoroughly discussed that we might be able to judge if either is best for all soils and if one method is best on one soil and the other is better for the other.

#### COMPARISONS IN THE SAME FIELD

Some farmers have so many, what we might call "natural resources," such as good underdraining, depth of soil, etc., that almost any method of cultivation seems to insure success for a number of years. Sometimes such farms are a source of much discouragement to a farmer with a farm poor in the above mentioned attributes, for while farmer No. 2 may be practising the very best method and the increased yearly results on his own particular farm show progress, yet, when compared with the returns from the naturally good farm, even though farmed in slip-shod manner, the results are apt (for a time) to prove discouraging. Our only safe guide in judging methods of cultivation is by a comparison upon the same fields or with land very similar in texture and quality. In this connection, the experience of Mr. Thos: McMillan, Huron Co. is certainly worthy of the most weighty consideration, when he concludes from a three-year trial of the plowing and cultivation of root ground in the same field that shallow cultivation is the better method in that it yielded 10 bushels more per acre of mixed grain and a better catch of clover, over the plowing method.

(Continued on page 7)



WARRINER'S CHAIN

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nals and sweeter, firmer, whiter veal than any

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#### PERFECTION A Profitable Cow Seed & Grain Separator

An Ayrshire cow, Marjorie 16536, at the Central Experimental Farm, Ottawa, has recently completed an extra good record. A representative of Farm and Dairy, while in Ottawa last week was informed by Mr. J. H. Grisdale, of the Experimental Farm,

Horses and cattle have a habit f leaning and pressing down spon the top wire of a fence. If persisted in, this continual pressure will ere long cause the long stays on the ordinary fence to bend-then break.

And your fence becomes dis-gured. But not so with the

## DILLON Hinge-Stay Fence

Pressure of a horse or other animal on the top wire brings the short hinge-stays into ac-

As shown in the picture. When pressure is removed the ence springs back into place fence again.

And for the same hinge-stay reason, heavy snows or climbing on the fence do not disfigure or injure the DILLON.

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This is an all No. 9 Hard Drawn Steel Wire Fence.

The lock is the twin of one that has been in use for years in the United States and pro-nounced the best lock on a stiff-

Each end of the Monarch lock shooked securely over the lat-

Cannot spread or looser May we send catalogue with full description of this differ-ent kind of a stiff-stay fence?

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The Owen Sound Wire Fence Co. Owen Sound, -Ontario

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

that in seven days, Feb. 8 to Feb. 14, meals. this cow had given 396 bbs. milk test-ing 5.1 per cent or 20.22 lbs. butter fat. The average daily production of milk was 65% lbs.

While the amount or mils produced was not exceptional it was produced at comparatively little cost, owing to the small amount of feed consumed. During the seven days this cow con-sumed daily 50 to 60 bas, of roots, 25 lbs, ensilage, 5 lbs, clover hay and 15 lbs, mul The meal was compand of

sumed daily 50 to 60 lbs. of roots, 20 lbs. emsilage, 5 lbs. clover hay and 15 lbs. meal. The meal was composed of 6 lbs. bran, 3 lbs. clover hay and 15 lbs. clover, 10 lbs. clover The lbs. gluten and 1 lbs. clover mental Fiter produced at the Experi-mental Fiter produced at the Experi-cents a lbs. The butter produced by this cover has been selling at 35 cents a day for lowing a value of 12 cents a day for lowing a value of 12 cents a day for lowing a value of 20 cents a day for lowing a low of 12 cents a day for lowing a low of 12 cents a day for lowing a value of 12 cents a day for lowing a value of 12 cents a day for lowing a profit of 92 cents a day.

\* The Feeders' Corner Transformer in the set of the set o The Feeders' Corner

## Feed Molasses to Dairy Cattle

"Last winter we fed molasses to our dairy cows and they did well on it," said Mr. Hector Gordon, of Howick, Quebec, to a staff representa-tive of Farm and Dairy who visited his place recently. "The cows were his place recently. "The cows were fed cut straw with ensilage on it, and some molasses diluted with water spread over all. The cows not only ate it up clean but they licked their mangers and looked for more.

"The molasses cost us on an aver-age 30 cents a gallon. It required about four gallons a week to feed 15 cows twice a day. Our grocer bought us the molasses last year by the hogsus the molasses last year by the hogs-head, delivered in car loads at our station. This winter we are unable to feed it as the price of molasses has advanced."

#### **Composition of Feeds Stuffs**

On page 3 of Farm and Dairy, January On page 5 of Parm and Dairy, January Zist issue, in an article on the Adultar-tion of Gatio Feeds, there is table of compositions of foods. Is the stable of rect as regards its amounts of procein contained in different foods? For instance linesed mesh contains only 0.4 crude pro-tein while glutten meal contains 8.3 crude protein, and gluten feed contains 250 grude protein. Kindly advise me if this is correct and greatly oblige.-A. T. W., Reaconshiel, Ont.

Beaconshield, Ont. The average composition given in the table referred to was taken from the College bulletin 138, "The Com-position of Ontario Feeding-Stiffs," and is the average of thirteen samples of linsced meal analysed in our lahor-atory. The amount of protein in these thirteen samples varied from 23.87 to 33.94, average 30.41. The average for the gluten feed was also taken from thes same bulletin and is, for sørm-teen samples sent in to us and named gluten feed, from 23.88 to 28.34 per cent., average 25.65 per cent. The analyses of twenty-two samples of go cent., average 20.00 per cent. The analyses of twenty-two samples of so-called gluten meals are also given in the same bulletin. The variation in these was from 15.00 to 34.09 per cent., average 24.96 per cent. We cannot be certain that any of the sam-ples were pure gluten meals and the was sco placed in the table referred to was sco placed in the table referred to the second analyses of pure gluten meals actored analyses of pure gluten meals actored analyses of pure gluten feed are 78.00 per cent. Both the gluten meal and the gluten feed are of starch and glucose from corn. The gluten meal is the best of the protein or glutinous part of the corn. and the gluten feed is a mixture of the corn bran and the true gluten not be certain that any of the sam-

meals. There seems to be a tendency in this country to sell all glutens under the name gluten meal instead of gluten feed. The wide variation in products selling under the same name is certainly a good reason for the en-products sell ab which makes it com-pulsary to sell ab which makes it com-quarantee. Such a law would protect the purchaser against low grade and adulterated material, the manufac-turer and dealer against diabonest practices, and assist in promoting the intelligent use of these valuable feed-ing stuffis.-R. Harcourt, Ontario intelligent use of these valuable feed-ing stuffs.-R. Harcourt, Ontario Agricultural College, Guelph.

# **Our Legal Adviser**

DAMAGES FOR BUSH FIRE.-Can T claim damages in the case of a bush fire last fall? The case may be stat'd as foi-lows: B put out fire in a slash at a time when the weather was very dry, though the bush of the slash at the slash at slash at the located bushes of the slash given no notice whatever of his intentions given no notice whatever of his intentions up and blows the fire into the line fonce and it spreads into A's bush and burns second grows the fire into the line fonce and it spreads into A's bush as well as considerable large timber. Bit as well as considerable large timber. But as well as considerable large timber. But as well as considerable large timber. But as well as considerable the for the slow the the source and the spreads the source at the second fort to stop the fire in A's bush are of dhe allow that it burned the fonces. While A's bush was burning B couldinged to set more fire in his own slash. Can A do anything in the ~ siter. We have a town-arything in the ~ stor. We have a town-the A' has a right to set out fire on his

B has a right to set out fire on his own land for the purpose of clearing it, and is not responsible if the fire if, and is not responsible if the nex should happen to escape to a neigh-bor's land, if he, (B), has set out the same at a suitable time, and has taken reasonable precautions afterwards, to confine the fire to his own property. If he fails to do this has would be

If he fails to do this he would be If he fails to do this he would be liable to damages for his negligence. The question of negligence is ordin-arily one which should be dealt with by a jury, who would have to take into consideration all the circum-stances of he case. The nature of the weather, whether dry or wet, the con-dition of the wind, the time of the year, the help provided to prevent



#### Febr

the fire circums ters to enable clusion There year re fires m

have poing the certain conclusi would within law rel irom ta We v sult a s

laying obtain ity of s Fall

At ou stitute vas he cleared forest to such remarks the pro few yea grain p largely than he cleared. to the ever, he he was chief re sale of lumbern would ta renew a

was pra-What in his re vears of the deca tion was most nee duction) vide fo through yard ma this att gradually big yield in the d cently es

If such made lacks hu any meth the addit soil shou this respe Now, i to get hi the earth nip tops not upset the culti turning corn and close con using a being a s humus ir here, as correspon ground in etc., that plowing p like to a depth of with the tivation e later dur roots part of nanure be row you t surfac ordinary summer, brought u surface soi

clusion. There is no particular portion of the year recognized by the law in which fires may be set out. Municipalities have power to pass aby-law restrain-ing the putting out of fires during certain periods of the year, but a violation of the by-law would not be conducting adjudged of notificance. violation of the by-law would not be conclusive evidence of negligence, nor would the putting out of the fire within the period permitted by the by-law relieve the person setting it out trom taking proper precautions. We would recommend you to con-sult a solicitor in your neighby-bod

sult a solicitor in your neighborhood, laying all the facts before him, and obtain his opinion as to your possibility of success if an action is brought.

#### Fall Cultivation of Corn and Root Land

#### (Continued from page 5)

At our recent annual Farmers' In-stitute meeting, one of the speakers was heralded as a man who had cleared his farm from the unbroken forest with his own hands. "All honor to such men." In the course of his remarks however. to such men." In the course of his remarks, however, he announced that the production of his farm was decreasing, making the statement that a few years ago, he could grow more grain per acre when his fields were largely taken up with pine stumps, than he could now on the same fields than he could now on the same fields cleared. He attributed this decrease to the lack of forests. When, how-ever, he explained a little later that he was not much of a stockman, his chief rerenue being derived from the sale of timothy hay and eats to the lumberman, it was evident that it would take more than reforesting to the sale of a stockman. renew a farm where such a system was practised

What brought about the difference in his returns per acre? In the early years of his farm the surface soil from the decaying leaves and forest vegeta-tion was rich in humus (one of the tion was rich in humus (one of the most necessary elements in plant pro-duction). As his system did not pro-vide for the addition of humus, through the agency of clover, farm yard manure, etc., the presence of this attribute to successful growth this attribute to successful growth gradually disappeared and with it his big yields of cereals, etc., especially in the dry seasons that we have recently experienced.

#### SOILS LACK HUMUS

If such is the case, and the claim is made that nearly all worn out soil lacks humus more than anything else, any method that would interfere with the addition of humus to the surface soil should be considered defective in this respect at least.

Now, is not Mr. Fixter, in his zeal to get his corn stubble away down in the earth where motions will be obtained to the input top likewing) and where it will not upset all his farm mahines it will not upset all his farm mahines, by turning down his surface soil after corn and roots and bringing up the close compact and less fertile soil, using a method which is far from being a success in the accumulation of both the surface soil? Right here, as Mr. Christie, a Dundas Co. correspondent claims, he plows his root ground in order to bring up manure, etc., that he has turned down in his plowing previous to corn. I would have the farrow plowed for corn and which the farrow plowed for corn and which the farrow plowed for corn and the data and corn, will suitivation of roots and corn. Suitivation for the ard action of the rootted clover at an anore be? It seems to me with any torinary root suitivators working all summer, the most of it would be brought up and incorporated with the further working all summer. It most a serious missing the surface soil. Then what a serious missing the surface soil. Then what a serious missing the surface soil. the earth where no one will see it (tur nip tops likewise) and where it will

the fire from spreading, and all such circumstances, would be proper mat-ters to submit to a jury in order to enable them to come to a proper con-sway and the greater, part of its fer-tility be lost to all future crops. LUMPY SOIL

LUMPY BULL The fact of Mr. Fixter mentioning the root ground being torn up into lumps with the cultivator, etc., sug-gests that very lack of humus in the soil. The virgin soil of the older pro-vinces and the prairie soil of the great West are not hard and jumpy when disturbed with the cultivator. when disturbed with the cultivate. I have not found even my clay loam soil to act in the way that Mr. Fixter describes, which is an additional re-commendation for the surface applica-tion of the surface appli tion of manure and a short rotation

With reference to the weed side of With reference to the weed side of the question, Mr. Fixter asserts "that the lower soils on the average corn field contain fewer weed seeds than the surface soil and that if the sur-lace soil is kept perfectly clean, the man need not worry about the lower man need not worry about the lower man need not worry about the lower soil." I hearling agrees with Mr. Fix-ter in this, providing you leave the surface and lower soils in these posi-tions. But, if Mr. Fixter's field be-tre his root crop has been badly in-fested with herrick, wild oats, etc., would it not be a very serious mistake to turn down the surface soil that has been thoroughly cleaned during the process of root cultivation and bring up the lower soil infested with the seeds to sprout and grow and seed in seeds to sprout and grow and seed in your grain crop?

ERADICATING WILD OATS

ERADICATING WILD DATS In this connection, a few years ago, that celebrated farmer and institute speaker M1 Henry Glendenning, Manilla, Ont., was advocating the growth of corn as a cleaning crop for wed-infested fields, paying espec-ial attention to "wild-oata." A farmer is the subleme immand un and exin the audience jumped up and ex-claimed "I have been trying that method and have had no success ap-naronity as the wild ness score ap-The second secon sprout in your grain over an eradicating have better success in eradicating wild-oats." That farmer has lived long enough to verify Mr. Glendenning's statement and has practically rid his farm of the pest

A QUESTION FOR MR. OHRISTIE As Mr. Christie of Dundas Co., nas soil, I presume similar to that of Mac-donald College Farm, I would like to know if he gave the shallow cultivation method a fair trial during the time he mesond a rair this during the time ne was practising his present rotation (four years), or was it previous to this; if he ever used a sub-soiler or sub-soil plow to loosen up his heavy clay sub-soil while practising the above worked and wherein deen chemise of method and wherein deep plowing of root ground has any advantages over

root ground has any advantages over ribbing it up as a mean of killing remaining roots of twitch of frees and sow thistle by the action of frees and generally discussed and hope to see it thoroughly threshed out, as I am very much interested in good farm methods generally and soil cultivation in par-ticular. Good results it is evident can be obtained by both methods. Fair, honest criticism will injure no one and onest criticism will injure no one and I hope, I at least, know enough about this question to desire to know more.

### Keeping Good Farm Help

When farmers keep their cows milking for ten months, difficul-ties of the farm labor problem are

CALVES Raise them without Milk. WHITE & GILLESPIE, Peterbero, Ont.

FARM AND DAIRY (Formatty The Canadian De and Farming World.)

likely to begin to disappear. While go when the work is done. at Napanee recently, Mr. Henry Glen-denning, of Manilla, pointed out that diary all the year around they are six or seven months dairymen have not hired men employed all the year around. The result is that when they necessity of having to scurry around get a good man they have to let him



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

## \* HORTICULTURE

8

**Vegetable Growers Meeting** 

Vegetable Growers Meeting The annual meeting of the directors of the Ontario Vegetable Growers' As-sociation was held recently in the office of the socretary-treasurer, Par-liament buildings, Toronto. Mr. R. H. Lewis, Hamilton, president was in the chair. Among the directors present were: Messrs. Thos. Delworth, Wes-ton; F. F. Reeves, Humber Bay; Jas. Dandridge, Minico; J. W. Rush, Humber Bay; C. Sharpley, Bracon-dale; E. J. Mahoney, Hamilton; C.W. Baker and F. W. Fuller, London; Wm. Parsons, Sarnia; F. Chappus and W. W. Weaver, Chatham; R. J. Bushell and J. N. Watts, Kingston. The minutes of the previous meeting were read an approved. The branches

The minutes of the previous meeting were read and approved. The branches at London and Sarnia were awaried the prizes offered for the largest in-creases in membership. London, re-ceiving \$22 and Sarnia \$8. Control of the second from W. O. Sealy, M.P. for Wes read from W. O. Sealy, M.P. for Wes read from W. O. Sealy, M.P. for West read from W. Sealy, Sealer M.S. Sealer S. Sealer S. Sealer S. Sealer S. Sealer S. Sealer M.P. Sealer S. Sealer

ing resolution re. increased protection to vegetable growers was taken up. Mr. Sealy's proposed resolution-

to regetable growers was taken up, Mr. Sealy's proposed resolution-"That in the opinion of this House so long as the Canadian Tariff affords, incidentally or otherwise, a con-siderable- degree of protection to manufacturers some protection may fairly and properly be afforded by our tariff to Canadian agriculturists and stock raisers unon hous, hog proand stock raisers upon hogs, hog pro-ducts, garden vegetables and such other items as it may appear possible to so protect with advantage to the agriculturists and without undue in-jury to the Canadian consumer."

jury to the Canadian consumer." A copy of the bill respecting agri-cultural fertilizers was also laid be-fore the meeting, and the clauses fully ciscussed, and many of them declared to be unworkable. A committee of the president, A. McMeans, F. F. Reeves, and the secretary were authorized to draft amendments and forward same to the severement.

draft amendments and forward same to the goernment. Notice of motion was given by F. F. Reeves, that he name of the associa-tion be changed to read "The On-tario Vegetable and Small Fruit Grow-ers' Association." This matter will be ing. It was also decide musal meet-ing. It was also decide any service approved variatives of vegetables. By approved varieties of vegetables, by different branches.

different branches. Messrs. Delworth, Reeves, Mahoney and Sharpley were elected delegates to the Ontario Horticultural Exhibi-tion for 1909. Mr. Delworth was ap-pointed a member of the nomenclature committee of the Ontario Horticultur.

It was decided to continue the sys-tem of offering prizes to the branches

tem of offering prizes to the branches securing the largest percentage of in-crease of membership during the year. The following officers were elected : Press, T. Delworth, Weston; lst vice-press, F. C. Fuller, London; 2nd vice-quest, W. W. Parsons, Sarnia; exe-cutive committee, T. Delworth, F. F., Reeves, J. Lockie Wilson, and R. H. Lewis. Lewis

#### **Toronto Growers Hold Banquet**

The members of the Toronto branch of the Ontario Vegetable Growers' Association held a well attended and successful banquet in Toronto, Feb. 9th. The principal speakers were Hon. J. S. Dur, Minister of Agriculture; Mr. J. Lockie Wilson, Secretary of the Ontario Association; Mr. Thos. Del-worth, of Weston; H. B. Cowan, of Your and Dairy; Mr. Jos. Rush, Hum Bay; Mr. R. J. Bushell, of and Mr. A. McMeans, of arised and the provincial toro, Mr. Thomas Delworth, of West, announced that the Ontario action this year, purposes com-The members of the Toronto branch

association, this year, purposes con-

ducting experiments in the growing of onion seed, to find which seed gives the best results in Ontario. Seed irom France and California will be tested as well as Ontario grown seed. Mr. J. Rush announced that the vegetable growers around Toronto during the past year, have erected greenhouses and effected other im-provements in their grounds and buildings amounting to about \$500,-oron He assured "a young vegetable grows present that if they would de-beat the stention to growing the beat the some return, they would ind that the money return, they would ind that the money return, they would ind that the money return, they would

As a result of a trip he had had to six of the leading vegetable growing states in the American union, Mr. A. McAleans, of Guelph, announced that more is being done in Ontario for the advancement of the vegetable inter-cast than in any other state or pro-vince on the continent.

At the short course held recently at the O.A.C., Guelph, the subject of varieties of apples was taken up. The best varieties for one section, it was conceded by all, would not necessarily be the best for other districts. Mr. J. E. Johnson, of Simce, named the following as his choice for Norfolk county: Baldwin, Spy, King, Snow, Greening and Melntesh. He deplored the old mothod of planting numerous varieties, a mixed hot of fruit being nuch harder to dispose of profitaby than a few first class varieties. Mr. the gel Worthumberland, favored the old mothod of planting numerous varieties, a mixed hot of fruit being nuch harder to dispose of profitaby than a few first class varieties. Mr. the gel Worthumberland, favored the othat section. He considered the snow the best self considered the snow the best self or the bus in required a more thorough method rollars snows he considered valueless.

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tern is very handsome in appearance.

"Galt" Shingles are accurately

are none better. Our bold Gothic Tile pat-

which insures quick and easy application Covered nailing flanges at both top and sides

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insures strength and rigidity.

# MCORMICK

It will pay you to get acquainted with the McCormick line. It consists of hoe and single disk drills which will meet your requirements because they are built specially to meet Eastern Canadian conditions. The disk drills are better adapted to hard and trashy ground than the hoe drills, and the hoe drills are more encient in ground that is sandy, full of trans and note

The frame becoming are more encent in ground that is sandy, full of The frame becoming twisted or springing out of shape. The wheels are extra strong and built to stand rough usage. Both styles of drill are "quipped with a double run force' feed. It is in reality two feeds in one, because one side is adapted to small kernels and the other to large. Whent requires a smaller size throat than peas, beans, harley, te: consequently, in making the double run feed, the different sizes of seed are handled to the benefit and two revolutions twice that amount, therefore, out is load. The discussion and two revolutions twice that amount, therefore, out is load. The feed does not bunch the seed and rows all kinds in just the quantities desired. The hores on the hoe diff are arranged on that they can be aboad either.

cuantities desired. The hores on the hore drill are arranged so that they can be placed either zigzag or straight. This is an advantage in traiby ground, because when the hore are placed aigrage there is an observe of traib clearance. The hore drill is made with 10, 13 markers, or hores, and the disk drill with 11 and 13 markers, or drink and 13 markers, or hores, and the disk drill with 10 markers, or hores, and the disk drill with 11 and 13 markers, or drink and 13 markers, or hores, and the disk drill with 10 markers, or drink and seeders, have a straight and the set of the second secon



# Galt" Shing THIS IS THE SHEET METAL AGE To have been first shows

antiquity-to have become first proves merit. The new "Galt" Shingle owes its enormous popularity and salesnot to the age, but to the brains of its inventors and makers

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## .... 20000 Po

Feb

In de of Que Poultry Victor was whole v 17,922,6 has 12. birds. The ou Everyw produc The favoral climate ers of

the qu making six Po yearly bec, St and Vi Besid County



Importe birds, ti

are influ better st at Oka at St. A poultry much io STA

In add sends ex country lectures men to or 100 he as they l experien with po houses ware well dows and

#### Prof

Prof. ( Poultry observati Farms" of Conne obtain dustry in other br bined. 1 are good the land sive, inte practised.

There and close

February 25, 1909.

## -----POULTRY YARD POULTRY YARD

Poultry Industry in Quebec

In dealing with the poultry industry of Quebee and Eastern Ontario at the Poultry Institute held at Guelph, Mr. Victor Fortier of C. E. F., Ottawa, was very optimistic. In 1901 the whole of Canada contained only 17,225,655 fowls. At present Ontario has 12,000,000 and Quebec has 5,00,00 birds. The industry is still growing. The outlook for the future is bright, the outlook for bootty and the outlook of the future thaverable of poolity raising not as thrower of Quebee however are improving the start of his fords. A PBOPIT OF \$45.60 Lats year on such a plant as this during the one brief on a color. He shipped his eggs deally to an earby city. His eggs were all of one color. We being careful to keep them clean, and to supply them strictly fresh, he In dealing with the poultry industry

# FARM AND DAIRY (Pormerly The Canadian Dairyman

first class is the more prevalent and by far the most successful. The col-ony house plan is used by most men. Instead of housing the birds all in one or two houses they are housed in small house distributed all over the small farm and each containing about fifty birds. These houses are often small farm and each containing about fifty birds. These houses are often portable and are moved from time to time thus placing the birds on new



#### A Trio of Buff Orpingtons

Imported by J. W. Olark, Brant Co., Ont. Note the low-set blocky type of these birds, the width between the legs, and their short shanks. Note also their heads, which are of a type indicating strong constitutions.

are influencing the farmers to breed better stock. The Agricultural School at Oka and the Macdonald College at Sk. Anne de Bellevue have strong poultry departments which are doing much for the poultry industry.

START WITH SMALL FLOCK

BTART WITH BRALL FLOWS In addition to this the Government sends expert poultrymen through the country to give practical poultry lectures to the farmers. They advise men to start with a small flock of 50 or 100 hens, and to build up their flock as they learn by experience. Without experience a man will surely fail with poultry. They advise cheag-houses which are not too warm but are well ventilated, using cotton win-dows and starw lofts. dows and straw lofts.

### **Profitable Poultry Farms**

Profitable Poulity Parms Prof. C. K. Grahum at the recent Poulity Institutes at Goulph drew his observations on "Poulity Farms" almost wholly from the poulity of Connectiont. More people he says obtain a living from the poulity in-dustry in that state than from all the other branches of agriculture com-bined. Land is cheap and markets are good and very convenient. Where the land is more valuable and expon-sive, intensive poulity culture is not practised.

#### LET HENS SET

It was Mr.Graham's experience that hens permitted to set layed more eggs than those which were broken up than than those which were broken up when they became broady. He would advise that a hen be allowed to hatch a setting of eggs when she became broady, even though she were not al-lowed to raise her chickens. She would be more profitable for the rest of the acce.

of the year. Mr. Graham reported an experiment that he had performed to test the rela-tive value of cold water, warm water, and snow, as drink for fowls in win-ter. The results are very interesting. Their value was tested by their effect in the egg yield. Between the cold water and the snow there was no noticeable difference but with the warm water there was a decided drop in the egg yield. This result was uniform when carried on through cold weather but in warm weather the difference was not so marked and in fact became almost eliminated.

#### Early Hatched Pullets Best

There are two classes of poultry There are two classes of poultry in a climate such as prevails at Ottawa much will be gained by early hatching of the pullets. In experi-and those using small areas of land ments carefully performed at the Ex-and closed runs for their birds. The

normally developed pullets hatched between May 16th and July 1st. began laying in February. They layed an average of 24 eggs a hen during the year. Contrary to this 14 normally included sullate hatched in the he year. Contrary to this 14 normally developed pullets hatched in the be-ginning of May and fed and housed the same way as the former gunning of May and fed and housed in exactly the same way as the former lot, began laying in December. They laid an average of 104 eggs a hen during the year. In another experi-ment birds hatched early but weak and not normally developed commen-ed laying the last of Trans. Commenand not normally developed commen-ceel laying the last of January. These only laid an average of 15 eggs a hen. These experiments show that for Eastern Outario, at least, the egg yield could be increased at least 100 per cent if all puny, delicate and late hatched birds were disarded. At the same time more eggs would be rorice in bigh, mad a better quality of four in bigh, mad a better quality of the table use would be obtained

#### JAREFUL HANDLING NECESSARY

A hen is a delicate machine. Like all delicate machinery she needs care-ful handling and he who would suc-ceed with her must first of all use Geed with her must first of all use great care in selecting his breeding stock. Then he must have his pullets hatched early, and keep them in a healthy thrifty condition. Finally he must feed well and observe the Golden rules of hygiene.-P, E. A.

#### **Diseases** of Poultry

Diseases of r'oultry At the recent Poultry Institute held at the 0. A. C., Guelph, Dr. Geo, Morse, of the Bureau c4 Animal In-dustry, Washington, D. C., made a strong plea for the practical poultry raisers to forsake the idea, that all diseases of chickens are caused by methods of feeding and management. Some diseases such as gout, might be caused by injudicious feeding, and no doubt many infectious or gern discaused by injudicious recently, and no doubt many infectious or germ dis-cases are made worse by bad manage-ment of fowls. All infectious diseases, however, have as their primary cause however, have as their primary cause micro-organism or germs. These germs have the power of entering and con-taminating healthy tissue, and hence the germ of any disease may be transmitted from a diseased fowl to a healthy one and may produce the dyname within it. Then, if the poul-dyname within it. Then, if the poul-dyname within it. Then, if the poul-er cognize these facts and co-ours with the scientists by adopting meth-ods and bringing about conditions which are detrimental to the devel-opment of these germs.

opment of these germs.

Many of these germ diseases of poul-try attack the liver. The liver when in a healthy condition produces certain substances which destroy and tain substances which destroy and overthrow the effects of many disease producing germs. If through care-lessness in feeding or in some other way the liver becomes mactive and aluggish, the disease progresses table in the disease progresses table in the disease disease of the disease table in the disease disease of the disease table in the disease disease disease disease disease diseases. ing germ diseases.

9

#### WHITE DIARRHOEA

WHTTE DIARRHOFA It has lately been shown that white diarthona is one of these germ di-scates. Means of successfully comhat-ing it have not yet been discovered Gapes, cankers, roup, blackhead in turkeys, and tuberonlosis, are other germ diseases. Great care should be observed in doctoring birds affected with them in order to prevent its spreading through the flock.-P, E. A.

In egg production a careful system In egg production a carcuit system of selection and rejection, together with scientific feeding, proper housing and general care, increases the num-ber of eggs until it reaches a maxi-num beyond which it is not safe to venture. It is not so much a matter of breed as of individuality. venture. It is not so much of breed as of individuality

When the supply of eggs fail, feed lean meat. It will be found superior to anything that can be used. It is cheaper than grain, because it will make eggs. Hens may have plenty of grain, yet they need a change.



#### from the biggest birds and big eggs inp to 32 oz. per doz. d in America. Hardy, hand ble; lay earliest and longest. for guaranteed fertile eggs at hare free. Brown Leghors biggest layers Best busines some an Book ord \$2.00 r able; my BRANT P. ULTRY YARDS, Brantford, Ont.

CANADA'S CHAMPION BARRED PLYMOUTH ROCKS

At Toronto, 1908, we won 1st, 2nd and 5th cock birds; 1st, 2nd and 5th hens; 1st, 2nd, 3rd and 4th cockereis; 1st, 2nd and 7th unlits, Two silver challenge cups. 'ur birds scored 39 points, all others show only 21 points, 100 cockerels from our best matings for sale at §5 each. 100 pullets §2 each. 21 hens §2 each.

JNO, PRINGLE, London, Ont.



10



Why risk the loss of a valuable Mare or Foal or both of them when a payment of a few dollars would indemnify you for such loss should

The General issues policies for 30 days, 6 months or 12 months cover-ing the mare with or without the

#### Farm Horses, Stallions, **Castration**, Cattle Insurance

Prospectuses sent Free on demand. Agents wanted in unrepresented districts where resides a Veterinary Surgeon.

THE GENERAL Animals Insurance Co. of Canada. NEW YORK LIFE BUILDING. DEPT. C MONTREAL, P. Q.

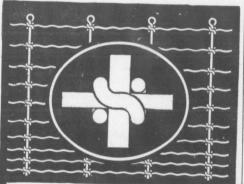
# FARM MANAGEMENT

A. H. Teeple, Oxford Co., Ont.

A. B. 1999s, UNFORT Co., tom. My idle horses, every fair day throughout the winter, are turned lose into a yard. Being used to their liberty, they will not run and frolic as much as they would were they turned out but once or twice a week. In this way, they got the excretise so necessary for their good health.

Care must be taken not to change the feed too quickly. The horses, hav-ing been used to plenty of good, strong food, must not be put on a totally dif-ferent ration at once. I gradually take away part of the heavy grain and re-place it with bran and a few receivplace it with bran and a few roots once a day. I make use of a homeplace it with bran and a few roots once a day. I make use of a home-made condiment for my horses at this time. It is made of 10 quarts of sait, five pounds of stock saits, four pounds of sulphur. I feed a tenspoonful of this mixture to a horse each day for at least one month after they are sta-bled. I always exercise care not to feed too much hay but just sufficient that they will clean it up well.

After the horses have been stabled for some time and have been accus-tomed to the change from outdoor to indee life from outdoor to for some time and nave ocen actu-tioned to the change from outdoor to indoor life, from green to dry feed and from heavy to lighter feed. I cut equal from heavy to lighter feed. I cut equal to the the term of the term of the term to the the horase being ensuit. The place the cut food, sufficient for one day's feeding, about a foot deep on this. The mixture is dampened well and hout two quarts of rolled outs and then two quarts of rolled outs and the whole mixed well together. By practizing this method of feeding and caring for horse, I can keep them in goot heath, good flesh and in good spirits.



### Selkirk Stiff Stay Fences and are just a little Heavier, Stronger, Stiffer, More Secure and Serviceable than any other by comparison. They are the Best and Most Economical to Use and Buy, and the Most Profitable to the Agent. Gates THE SELKIRK Lock, although cheaper than any other independent

lock, is the only one that grips tight enough to justify the use of High Grade Wire. The best metal fence lock will cost 40% more and will not hold half as much. Fill out the blank below and mail it to us and we will send you proof of the above statements, a handsome catalogue and full

Selkirk Fence Company, Hamilton, Can.

I want to examine for myself the merits of Selkirk Stiff Stay Fencing and Gates. Send me a free sample piece of the fence with descriptive catalogue and Agent's terms. Name

P. O

Province\_

# Management of Range Lambs Management of Range Lambs I intend bying a contrast of many lambs next fall with the intention of winter feeding them and having them ready for the spring market. I wish to but as a quantity of fodds for them, but as a quantity of note experience with sheep I thought much experience with sheep I thought much experience with sheep I thought much experience into give some adviso on the subject. I thought of soving a plot of oats and miller into the subject of soving a plot of oats and miller fore maturity to more sub some time be-fore maturity to make a blot of oats and any advice you may be able to give me on this subject will be fully appreciated Care of Idle Horses in Winter

What would you think of these mixtures? Any advice you may be able to give me on this subject will be fully appreciated. -G. H. B., Morden, Man. I would suggest the following crops as suitable for fall and winter feed-ing of 100 lambs:

# per acre. Peas, oats and millet (Hungarian grass), four acres. Sow two bush-els oats, 20 lbs. millet (Hungarian grass), one bushel peas per acre. Rape, one acre. Sow broadcast in the first the Dwarf Frasy range per Rape, one acre. Sow broadcast in July, five lbs. Dwarf Essex rape per CTE I have estimated that turnips yield I have estimated that turning yield 15 tons an arcre; peas and oats, two tons; peas, oats and millet the same amount per acre. My idea of the operation would be as follows: Buy lambs in September or early October. Turn on pasture field, giv-ing access to rape when the rape was and we on as to remove any channer

er acre.

not wet so as to remove any chance of bloating. Feed a little dry feed at of bloating. Feed a little dry feed at the same time, say in the mornings before turning out. When the rape got frozen, which would render it dangerous except in very small quanti-ties, begin to feed turnips, say two bs. per diem.

ing of 100 lambs: Turnips, two acres. Varieties, pur-

Peas and oats, six acres. Valuettes, pur-ple top Swedes. Peas and oats, six acres. Sow two bushels oats, and two bushels peas, that is four bushels of mixture, equal parts by measure of peas and oats

This amount might be increased if turnip supply was large. In ad-dition feed about two lbs. per diem of pea and oat hay, and one lb. of pea, oat millet hay. Begin to feed meal in very small quantities, say one meal in very small quantities, say one lb. to ten lambs to start with. A mixture of oats, peas, bran, wheat, wheat seeds, and barlev all cracked or coarsely ground will prove satis-factory. Grind weed seeds finely be-fore adding to mixture. The lambs should be allowed an

The lambs should be allowed an acre or two wherein to run during feeding period. They should have an abundance of dry straw for bed-ding. Salt should be watered every able and they should be watered every two unless certifier bets of turning. If able and they should be watered every day, unless getting lots of turnips. It is of course possible to get along without turnips, but chances are bet-ter when turnips are fed. Do not feed mangels in any considerable quantities. Dip lambs before starting to feed.-J. H. Grisdale, Agricultur-ist, C.E.F., Ottawa.

#### Building up Poor Land

I have bought a piece of land which is light soil and in run down condition, some distance away. How is the best way to build it up? Would it he advisable to plow in the spring, sow to buckwheat, and plow down as a fertilizer, then sow a second lot of buckwheat for a erop?-A Subscriber.

Soil as described is difficult to build up without barnyard manure. Sow-ing buckwheat thereon to be plowed under is a possible and practicable method. Attempting to grow a crop of buckwheat to harvest after the first or buckwheat to harvest after the first crop has been turned under, does not seem to me very advisable. I would suggest rather that in plowing, pre-paratory to sowing to buckwheat, a very shallow furrow be turned, say, three to three inches and a half. Work the land well before sowing to buck-wheat, allow the cross terms buckwheat, allow the crop to grow till about one foot high, then roll and plow with a furrow about the same depth as before or very slightly deepif necessary.

Work thoroughly by disc harrow work thoroughly by disc narrow-in". harrowing and rolling, then, if not later than July 20th, sow clover seed at rate of 10 lbs. an acre. Sow broadcast by hand, then harrow and roll. Roll twice if the land is very loose or dry

loose or dry. If later than July 20th before land is ready to sow, hold for three or four weeks, and sow fall ryce on the faid at the rate of one bushel per acre. This might be allowed to grow till fairly late in the fall, when it might be pastured for a time. The next spring plow with a shallow furrow again and sow oats or spring rye and seed down with clover, 10 lbs. an acre. GROW CLOVER

In any case, if you wish to get your land into good shape, at an early date, do not think of trying to get a crop off it the first year. De-vote the first year to getting the soil into such shape as will permit of its growing clover.

The clover and timothy should be The clover and timothy should be allowed to stand for two years, if pos-sible. It would be better to pasture for that period, but, if necessary, a crop of hay might be taken off the spring of the first year. The cattle should not be turned on too soon af-the have is cut, and then the field should hot be turned on too soon af-ter the hay is cut, and then the field should be left under pasture till the following August, when it should again be plowed with a shallow fur-

#### Many Inquiries through Farm and Dairy

Ed. Farm and Dairy:-Our advertisements in different papers have been such that it has been very difficult for us to trace direct results, but owing trace direct results, but owing to the policy of your paper, we have been able to trace a very considerable percentage of our inquiries direct to Farm and Dairy.

Dairy. It is one of the best paying mediums that we can use at the present time, and owing to the steady improvement and char-acter of the paper, we are con-fident that the results in the future will be even better than in the past.—The Empire Cream Separator Co., of Cana-da, Ltd., H. C. Sparling, Man-ager.

row (not over four inches deep), work thoroughly by rolling and disc harrowing to insure rotting of the harrowing to insure rotting of the sod. Harrow with smoothing harrow, when necessary to level and fill in holes. In October ridge up with dou-ble mould board plow as though pre-paring land for roots.

During the winter an dressing of barny	oply a light
to corn the nex	If no man
ure is available grown, then some to gai	corn in not
down with 10 lbs, red c	over and 10
lbs. timothy per acre. rotation described above	The re-
sults will most certainly	he highly
satisfactoryJ. H. Gris F., Ottawa.	dale, C. E.

PLANKING HORSE STALLS .-- Is it injurious to horses to have the floor raised 4 inches in the front of the stall, giving a slope back to the cement floor of the stable?

No; although four inches is more of a raise than is necessary. Two inches of a fall should prove ample and the effect would be less noticeable.

I received the fountain pen which I I received the fountain pen which I got for obtaining one new subscriber to Farm and Dairy. I have given it a thorough test and it gives the oest of satisfaction.-Irvin Shepherd, Water-loo Co., Ont.

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#### February 25, 1909.

#### **Corn Growers Meet**

The corn growers' convention and exhibition, held in Essex recently, success. In spite of the bad weather, and the equally bad condition of the roads, over 2,000 attended the meet-The attendance at every ings. The attendance at every ses-sion was good, but that of Feb. 12 was phenomenal. In the morning 300 farmers were present. At the af-ternoon session over 100 farmers were turned away from the town bell ings. turned away from the town hall, where the convention was held, there

where the convention was held, there being not even standing room. The forenoons of each day were spent in the study of seed corn under the direction of Prof. Klinck, who il-lustrated his lecture by means of charts and samples of seed corn. This feature of the work proved so popu-lar with the farmers that after the first session it was almost impossible to carry on the practical corn judg-ing feature on account of the large attendance. attendance.

The afternoons of each day were spent in discussing special problems spent in discussing special problems of interest to the corn growers, such as methods of cultivation, selection of seed corn, etc. Prof. Klinck, Prof. Zavitz, J. S. Biggar, J. O. Duke and others assisted in this work. The at-tendance throughout was a sufficient indication of the interest manifested. No other subjects were discussed ex-cept those bearing on corn. cept those bearing on corn.

#### AN ASSOCIATION FORMED

AN ASSOCIATION FORMED On the afternoon of Feb. 11, after a discussion upon Corn Growers' As-sociations in the United States, led by J. S. Biggar and Prof. Klinck, the chairman, Mr. A. McKenney, sug-gested the advisability of forming a similar association in Ontario. The object of the association would be to stimulate an interest in corn growing in Ontario, and Essex, Kent and El-iormation of an educational nature, and by holding a a convention and schibition and held this year.

held this year. A motion to organize such an as-sociation to be called the Ontario Corn Grower's Association, was car-ried, and the following officers were elected: Pres., J. O. Duke, Olinde: First Vice-Pres., P. Marientette, Walkerville: Sec., A. McKinney, B. S.A., Essex: Trass., J. H. Coats-worth, Ruthven. A municing director was checked

A municipal director was elected for each municipality in Essex, Kent and Elgin. The following day a meeting of the members was held, and a constitution was adopted. Steps will be taken at once to have the as-sociation incorporated under the Ag-ricultural Association Act. The mem-bership is at present over 200.

#### THE EXHIBITION

The exhibition feature was equally as successful as the convention. There were over 300 entries in the different varieties of dent and fint corns, making the greatest exhibition of corn that many of those in attend-dance had ever seen. The judge, Prof. Klinck, stated in his remarks that it was the best he had ever seen outside the corn belt. The White Cap Yellow Dent Class was the largest of any, there being 21 entries in it alone. The majority of the entries were of excellent qual-ity. The remarker of the show was made up of Reed's Yellow Dent and other Yellow and White varieties.—A. McKenney. The exhibition feature was equally

McKenney.

## **Milking Machines**

The practicability of milking by the use of mechanical milkers has been a very important question in the econo-my of the dairy farm since the first introduction of such machinery, and their operation has been watched

with the keenest interest by everyone associated with agricultural advanceassociated with agricultural advance-ment. A milking machine plant was installed a milking machine plant was installed agricultural Experiment Station for the purpose of investigation of the purpose of the station of the provided and trials have been made with the milk-ing have been made with the milk-ing have been made with the milk-ing machines and careful records new been dept of their use in the University dairy. Bulletin No. 108 of the Agricultural Experiment Sta-tion contains full report of these data and discusses the use of the milking machines in all places of their opera-tion.

The conclusions drawn from the

And the continuous drawn from the experiments were: Heifers in their first lactation apparently give better results by mach-ine milking than do aged cows that have been accustomed to hand milk-ing the content of the second s ing for one or more years. Some cows are not adapted to mach-

ine milking.

Alternate hand and machine methods of milking have a detrimental effect upon the milk flow.

FARM AND DAIRY (Pormerly The Canadian Dairyman and Farming World.)

Manipulation of the udder is absolutely necessary in some instances before all the milk can be drawn by

the machine. One man operating one machine can milk about the same number of cows per hour as one man milking by

Two men operating four machines can practically do the work of three men milking by hand. Two operators with four machines milked twenty-one cows per hour in the University dairy. It was found necessary to thorough-parts after each usage in order to produce milk with as low a bacterial content as that resulting from care-ful methods of hand milking. Washing the machines at irregular intervals or simply drawing water

through them will increase the bacterial content of the milk even above poor methods of hand milking.

The man operating the milkers must thoroughly understand the care and management of dairy stock. He should also be persistent in the atten-tion to details in order to obtain the best results.

heat results. From these studies it would appear that the milking machine is fitted for large herds rather than small ones, and we believe it would be impracti-cable to install them where fewer than 30 cows are milked the year round. Bulletin No. 108, containing the complete records from which these conducions are drawn, though not sent to the general mailing list may be obtained free of cost by making application to the Nebraska Experi-ment Station, Lincoln, Nebr.-A. L. Haeeker. Haecker.

Renew Your Subscription Now.

# Farmer Stout learns about seeding right

"Ran across one o' these school-taught farmers at the Toronto Exhibition last summer. Got talkin' about growin' wheat in Ontario.

"He claimed that the Ontario farmers lost more than a million dollars last year alone, simply because the seeding was done wrong I laughed at him.

"'Well,' says he, 'you just figure it out when you git home; and,' he says, 'here's some facts that'll help you figure right.' Well, sir, I figured. And I got my eyes opened,-you bet I did.

"Got 'em opened wide enough to see I needed a Cockshutt Disc Drill; and I've got one now. Look here:

"I'd had what I counted a real good seeder. But the closest plantin' it could do was seven inches apart. The Cockshutt plants six inches apart-and doesn't use any more seed to the acre. D'ye realize what that means?

"It means anywhere from two to five bushels more yield an acre with any kind of grain!

"Now, when you come to know that Ontario seeded 821,766 acres to wheat last year; and when you come to figure what even two bushls more an acre mean-in cold cash dollars-

"That school-taught lad wasn't so far out, was he? 'Twould have meant just about 640,000 bushels more Ontario-raised wheat in one year-not to speak of all the other grains.

This is an End View of The Cockshutt New Disc Drill

> Made in 13 and 15-Disc Models for Ontario

"Quite a difference between six-inch drills and seven-inch ones, you see. I'm letting the other fellows do the seven-inch seedin' nowadays.

The Cockshutt way is good enough for friend Stout. "Good enough for me anyway,

seeing that I've got a drill in this 15-disc seeding machine of Cockshutt's that draws lighter than any ten-hoe drill I

ever saw; and never clogs; and is dead sure to plant any kind of drilled seed right, every time.

"Good enough for me, because it pays me better to own a Cockshutt Disc Drill than to seed any other way. I can't see why it wouldn't pay you, too."

THE Cockshutt New Disc Drill seeds accur-ately any drill-planted crop, and works because preserving with flax seed as with beans the second second second second second second carbon I-beam angle steel. That the second not clog on the trashiest ground and groun will be sowed right even in wet and groun will be sowed right even in wet and groun will be sowed right even in wet and groun will be sowed right even in wet and groun soils. The Cockshutt chain-drive of hardened steel, with the direct centre draft from the disc, insures easy running and the lightest possible draft, with the minimum of friction. The axle bearings are fitted with compression greense cups (all other such machines use merely oil) that no grit nor dust can work into nor any lubricant work out of. You ought to read the booklet quot. machines use merely oil) that no grit nor dust can work into nor any lubricant work out of. You ought to read the booklet quot-ing actual experiences of practical farmers with this drill; it will prove to you that this lesit i drill that's ten years alhead of all the lesit i drill that's ten years alhead of all the ask for illustrated details-address as below.

#### THE COCKSHUTT LINE OF IMPLEMENTS

the dousnot the or influences only more than 120 styles of plows-ranging from light garden plows to huge 13-turrow engine gangs—but also all styles of seeders, cultivators, and harrows. Write us for details of the kind of imple-ment the business former quent to buy. ients the business farmer ought to buy.

SHUTT COMPANY

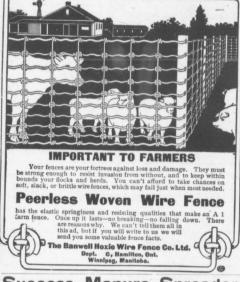
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# FARM AND DAIRY (Formerty The Canadian Dairyman February 25, 1909.



## Success Manure Spreader Has Light Draft Roller Bearings

When purchasing a manure spreader you naturally look for the lightest draft machine, but you need look no farther than the "Success" spreader. The "Success" has always been the lightest draft manure spreader, and the recent introduction of

Five Sets of Roller Bearings still further decreases the draft - places the "Success" far ahead of its competitors

12

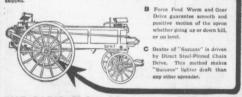
The arrows how you where these draft-reduc-Ing Roller Bearings are located - one B set on either end of the rear axle, one on either end of cylinder shaft, one in the mbination gear and sprocket. Thus, you see, the "business end" of the spreader - the mechanism that has the work to do-is made to

run with the greatest ease and smoothness These These "Roller Bearings" prevent the wearing out of boxes and other bearings-and add years to the life of the machine. They decrease the draft at least the equal of a horse

A

-These "Roller Bearings" are accurately cut out of cold rolled steel and rivetted together stantial, durable boxes. They can be removed from the machine without coming apart If you want the easiest running, most durable, greatest improved manure spreader in the rld buy the New 1909 "Success."

A Simple instantaneous change of Feed Device. One lever moves a pinion from one row of teeth to another on a Disc Gear, without separating pinion and gear and no ground is skipped.



THE PARIS PLOW CO., LIMITED, PARIS, ONT. Western Agents: The John Deere Plow Co., Ltd., Winnipeg, Regina Calgary and Edmontor Agents for Guesce and Martime Provinces: Proved & Wood Co., Ltd., Montreal, Joubec, St. John N. B. It is desirable to mention the name of this publication when writing to advertise

Short Course at Ayr

Short Course at Ayr On February 8th, 9th and 10th, the Ayr and Rosville Farmers' Clubs, with the assistance of the District Depart-ment of Agriculture, Galt, held a very successful abort course in stock and seed judging at Ayr. It comprised the judging of hogs and beef catle, inder the direction of Prof. G. E. Day: horses, by Dr. J. H. Reed; the source of the grains, by Prof. C. A. Zavite; and the identification of weed wide Jivision, Ottawa. The live stock judging was conduct-ed in the old Knox Church, which proved a very suitable building for the purpose. Tiers of seats, sufficient the Zine propose.

proved a very suitable building for the purpose. Tiers of seaks, sufficient for 250 people, were arranged along the sides, and a fair sized ring was left in the centre. Each day this building was taxed to its utmost capa-city, 400 farmers being present on Wednesday afternoon, when the horses were being udoad

Wednesday afternoon, when the horses were being judged. In hog judging the animals used were five forkshires, owned by J. J. Hodgoon, Secretary of the Ayr Farm-ers' Club and four Tamworths belong-ing to Alex. Hall. In beef cattle, a steer owned by Kyle Bros. was used for scoring, and two Shorthorn heider of our scoring, and two Shorthorn heider for scoring, and two Shorthorn heider and four feating steer were used. and four feeding steers were used for judging. For horses, a Clydesdale stallion, a Clydesdale mare and four acricultural because the stallion of the stallion scalion, a Ciydesdale mare and four agricultural horses were obtained. The seed judging was conducted in McGeage's Hall, from 8:30 to 10:30 on Tuesday and Wednesday mornings. Although there was desk room for only 85, yet 125 men were present each morning. Professor Zavitz took up Mr. Raynor, the weed seeds usually occurring in timothy and clovers.

#### EVENING LECTURES

There were held also in connection There were held also in connection with the short course, evening lec-tures in Reid's Hall. The Monday evening meeting was addressed by Prof. G. E. Day, on "Feed Beef Cattle," and Prof. Zavitz, on "Varieties," Tuesday evening, Pro-fessor Harcourt talked on "Cattle Feeds" and Mr. Raynor on "The Seed Trade." Very interesting and instructive lectures were given in every instance. The Wednesday even-ing meeting was of a more public charevery instance. The Wednesday even-ing meeting was of a more public char-actor, and was under the joint aus-pices of the Ayr and Roseville Farm-ers' Clubs and the Ayr Women's In-stitute. Upwards of 400 people were present on this occasion to hear Presi-dent Creelman, of the O. A. C., Mr. G. A. Puttam, Superintendent of Farmers' Institutes, and Mr. F. O. Hart, Department of Agriculture, Gait. President Creelman gave a very interesting address on 'Improving the Gait. Fresident creeiman gave a very interesting address on "Improving the Condition of the Farm Home," and laid particular emphasis on the proper education of the boys and girls.

The whole course was certainly a The whole course was certainly a pronounced success and the Ayr and Roseville Farmers' Clubs are to be congratulated upon the way in which they handled it.—F. B. Warren.

#### A Loyal Worker

A Loyai worker While on a long Institute trip through Western Canada during Jan-uary and Fehruary, Mr. W. G. J. Tregillus ably represented Farm and Dairy at a series of some 20 or 25 meetings. Mr. Tregillus is a success-ful breeder of Holstein cattle and Yorkshire swine, of Calgary, Alta. He was one of the principal speakers at this series of meetings. He writes regarding his work for us on these

at this series of meetings. He writes regarding his work for us on these occasions, in part, as follows: "At every meeting I distributed a bundle of Farm and Dairy that you so kindly sent me for samples. I could heartily recommend Farm and Dairy as being the best paper I knew of for any one to take, who was interested in dairying. My object was only to get dairy farmers to take some good paper and learn more about their own busi-ness."—W. J. Tregillus, Calgary.

#### **Canadian Ayrshire Breeders'** Meeting

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Confidence in the outlook for the dairy industry and in the merits of Ayrshire cattle as economical pro-ducers of high grade milk, were features of the annual convention of the Canadian Ayrshire Breeders' Associa-Canadian Ayaamib Brouser Associa-tion held last week in Montreal. The presence of Pres. E. J. Fletcher, Greenfield, N. H., and of Sec. C. M. Winslow, of Brandon, Vt. of the American Ayrshire Breeders' Associa-tion, added to the interest of the proceedings.

'I am glad to see that you are to "I am giad to see that you are test-ing the Ayrabire cow," said Mr. Fletcher. "The farmers are now do-manding cows of large producing capa-city. In the United States we are just beginning to realize the possibil-tion of the Armetica Willia for Within five ities of the Ayrshire. Within five years I expect that we will have Ayrshire cows with records of 20,000 lbs. of milk and 1,000 lbs. of butter in a year. The Ayrshire has no peer as a producer of market milk. The outlook

producer of market milk. The outlook for Ayrshires as well as for all other breeds of dairy cattle was never brighter than its this year." "We are parts of a three-legged stool," and Mr. Winalow. "The legg are the Ayrshire breeders of Scotland, Ganads and the United States. What is in the other course country held, the first of the state we have the first outlet with us is that we do not brag enough. We must use more printers' ink and let the good points of our Ayrshire lows become better princers ink and let the good points of our Ayrshire cow- become better known. I am constantly receiving letters from people living in all parts of the United States who have heard of the merits of Ayrshire cows as economical producers of milk and who are anxious to know more about the Breed. The future of our breed is bright."

OFFICERS FOR 1909

The following officers were elected : Pres., W. W. Ballantyne, Stratford. Vice-pres., James Bryson, Brysonville.

Sec.-treas., W. F. Stephen, Huntingdon, Que.

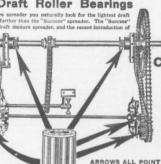
ingdon, Que. Directors (seven from Quebec ap-pointed) Senator W. Owens, Mon-treal; James Bryson, Brysonville, Que, Nap. Lachapolle, St. Paul; Heo-tor (Gordon, Howick, Que; James Boden, Danville, Que.; Gus Langelier, Cap Rouge, Que.; R. N. Ness, Howick, Que,

Executive committee : eastern divi-Lachapelle, St. Ness, Howick, Que, ; Nap. Lachapelle, St. Paul, L'Ermite, Que, ; Senator W. Owens, Montreal, Que, ; western division, A. Kains, Bryson; Wm. Stewart, Menie, W. W. Ballantyne.

Registration Committee : Robert Hunter, Maxville; W. F. Stephen.

VICE-PRESIDENTS FOR PROVINCES VICE-PRESIDENTS FOR PROVINCES Ontario-Wm. Thorn, Lyndoch, Ont.; Quobec-Robert Ness, Howick, Que, Manitoba-Wellington Hardy, Roland, Man; Saskatchewan.-Man. J. C. Pope, Regina, Sask; Alberta-A. H., Trimbe, Red Deer, Alta, Bri-täh Columbia-A. C. Wells, Chilli-wack, B. C.; Prince Edward Island, W. H. Simmons, Charlottetown, P. E. 1; Nova Soctia, F. S. Black, Amberst, N. S.; New Brunswick-Geo. C. P. McIntyre, Sussex, N. B. Delegates to exhibitions were ap-





TO ROLLER BEARINGS ON BUSINESS END OF "SUCCESS" SPREADER. pointed as follows: TOFURO trial, W. W. Ballantyne, Stratford, Ont.; London, A. Kains, Byron; Geo. Hill, Delaware; Ottawa, Wm. Hunter, Hill, Delaware; Ottawa, Wm. Hunter, Hunter, Gon, C. P. Hill, Dolaware; Ottawa, Win. Hunter, Maxville; Sherbrooke, Jas. Boden, Danville, Que.; St. John, Geo. C. P. McIntyre, Sussex, N. B.; Halifax, C. A. Archibald, Truro, N. S.; Char-lottetown, P. E. I., Jas. Easton, Char-lottetown, P. E. I., Jas. Saston, Char-lotteown, P. E. I., Jas. Saston, Char-lotteown, P. E. J., Ottawa Winter Fair, Jan. P. E. J., Ottawa Sinton, Cattle Breeners' Associa-tion, W. F. Stephen, W. Ballan-tyne. tyne.

#### JUDGES AT EXHIBITIONS

leading cities.

breed.

ROOM FOR ALL

"I am not deprecating any othe

breed. There is need and room for all the dairy breeds we have in Canada. Should they all be perpetuated as quickly as nature will allow, we will not be in a position to supply the wide areas of this Dominion with re-guired to improve the live stock of the counter *L* are non-the live stock of the

country. I am no prophet, but I have strong convictions that the farmers, of

strong convictions that the farmors, of Eastern Canada especially, will more and more turn their attention to in-tensive farming with dairying as the chief factor. With our cities growing

tensive farming with distinuous to in-tensive farming with distinuous to in-chief factor. With our cities growing at a rapid pace a leave and the demand for good, who would be de-mand for the Ayrahire cow increase, mand for the Ayrahire cow increase, provided our breeders are alive to these conditions. All we ask for the Ayrahire cow is that she be given a "square deal." She will do her part if we do ours."

INCREASED MEMBERSHIP

There was an increase in the mem-bership during the year but a slight falling off in the number of registra-tions. The latter was due to the fact

tions. The latter was due to the fact that last year a number of breeders rushed in their registrations before an increase in the rates took place. Three car lots of Ayrshires have been shipped to Alberta since Nov. 1, and the association now has a number of members in the West.

RECORD OF PERFORMANCE

Quite a few heifers that competed in the Record of Performance test last year gave over the amount of fat required to qualify but did not give the required amount of milk. Others

gave over the required amount of milk and fat but did not freshen within 15 months from the commencement of the

Mr. Stephen advocated

when a cow makes a good record and does not freshen within the time re-quired her name and record should be published but no certificate issued

During the past year the secretary distributed several thousand pieces of

literature describing the strong points of Ayrshire cattle. These were sent

where it was believed that they would do the most good.

FINANCIAL STATEMENT

that

test.

There is need and room for all

JUDGES AT EXHIBITIONS The following judges were recom-mended for the exhibitions named: Toronto, W. P. Schank, Avon, N. Y.; Reserve, James Boden, Danvillo, Oue. Ottaws, Jaa. Boden, Reserve, War, Hay, Lachute, Que. London, Geo. McCormack, Reekton, Ont.; Re-serve, John McKee, Norwich. Winni-peg: Brandon and Regina, W. F. Slephen; Reserve, W. W. Ballantyne; New Mestminster, W. W. Ballantyne; New Mestminster, W. W. Ballantyne; James Dan, Reserve, Louis Laval-lee, St. Berhior. Hallart, Wm. Ste-yanet, Menie; Reserve, Wm. Hunter, Maxville.

#### PRESIDENT'S ADDRESS

Pres. R. R. Ness, Howick, Que., stated that requests for Ayrshires are being received from every section of the United States and Canada and from Japan. He believed that before long other countries would be order-ing them as well. Owing to the poor crops of 1907 and to the money string-ency the demand for Ayrahires fell off in some sections. In others, particu-larly in Western Canada and espec-ially in Alberta, it showed an increase. Several car lots of selected Ayrahires b-d house hirwayd to Western Canada long other countries would be order-ing them as well. Owing to the poor had been shipped to Western Canada had been shipped to Western 'Canada during the past few months and sold at good prices. "Type, symmetry and vigor of constitution, combined with high milking qualities," said Mr. Ness, "must be the stamp of cow that will win hereafter. In the dairy test a true estimate of the butter-fat and solids demonstrated the ability of the cow or heifer to assimilate food and economically convert it into milk. No dairy test is complete unless the cost dairy test is complete unless the cost of production (amount of food con-sumed) is taken into consideration, not only during the test but for at least two days previous to the com-mencement of the test, when it ex-tends for only 48 or 72 hours. Mr. Ness urged Ayrshire breeders to enter Ness urged Ayrshife breders to enter more animals than they have in the Record of Performance test. Records of 10,000 to 12,000 lbs. of milk and of 400 to 500 lbs. of butter for Ayrshife cows now are not uncommon. In the cows now are not uncommon. In the United States one cow has given over 15,000 lbs. of milk and 700 lbs. of but-ter in a year. It may not be long be-fore Ayrshire cows have a milk produc-ing capacity of 15 to 20 times their own weight in 12 months.

#### SECRETARY'S REPORT

"In spite of the financial depression and short crops," reported Secretary W. F. Stephen, "sales have been num-W. F. Steppen, "sales nave over item erous and at remunerative prices. The Ayrshire is noted as a hardy, vigor-ous animal, capable of high production under adverse conditions and these



# FENCE TALK No. 4

Before you buy any fence-even Page Fence-make it prove up its value. Then you'll know what you're getting. Test it two ways, thus;

Have the dealer cut for you, before your eyes, a piece of hori-zontal wire from the roll of Page fence and any other fence. Now for the fire-test. Heat both pieces cherry-red; cool them in cold water, and start to bend them.

The Page wire will have taken such a temper that after breaking off a piece the fresh end will cut glass—because it is "high-carbon" steel that takes a temper. That proves its toughness, its hardness, its power to stretch farther, stay tighter, and sag never.

The other wire will bend like copper wire—because it is only hard drawn steel, that won't take a temper. That shows it up as soft, weak—breaks at 1,800 lbs. compared with Page wire that stands 2,400 lbs. tensile strain. Shows it up, too, as sure to sag, hard to make tight, certain to give out sooner by far.

And then the eye-test-look at the locks of the other fence. Have the man give you one to cut apart. Study it where the wires cross; look for marred surface where the cross comesthat means weakness. Then look at the cut-apart Page lockpositive, cannot slip a little bit, shows no sign of squeezing or pinching.

Look, too, that the running wires are wavy enough to allow amply for expansion and contraction-as the Page does.

Last, the third test-the cost-test. A Page Fence stands up and stands tight on two posts to any other fence's three. Figure the fence-posts saved, digging labor saved, and the time saved in putting up the fence.

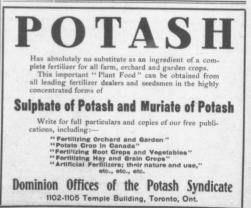
Apply every test-and you will choose Page Fence every time. Send now for valuable free book that teaches how to make sure of fence value before you buy. Write for it to the Page Wire Fence Co., Ltd., Walkerville, Toronto, Montreal, St. John, Vancouver, Victoria, and find out why.

# "PAGE FENCES WEAR BEST"

binding the herd book; \$201.65 for directors' travelling expenses while sitrations, 1,063 were from Quebec, attending the annual meeting in To-tation of \$400 to secretary on account of wick, 33 from Manitoba, 35 from Bruns-ronto; \$400 to secretary on account of wick, 33 from Manitoba, 35 from Bruns-salary; \$276 for printing 2,000 copies ish Columbia, 33 from Nova Secotia, of the annual; \$208 in exhibition grants; \$227.20 for 1,100 illuminated from the United States, 12 from Al-certificates to be issued in connection with the Record of Performance test, and \$124.82 balance on hand. Registrar J. W. Nimmo reported 1639 arogistrations G01 transform and (1639 arogistrations G01 transform and

(Continued on page 17)

1,653 registrations, 694 transfers and



#### Hints on Storing Ice

The ac companying plan shows a con venient arrangement for the storing of

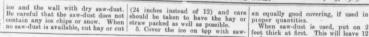
venient arrangement for the stor-ice in connection with a milk stand. It is designed to meet the needs of patrons of cheese factories and creameries. Many of the progressive farmers in Hastings and Prince Edward Counties, Ont., have adopted this plan. This combined ar-rangement, which affords both protection from the weather and dust, and also from animals or insects, if all openings are pro-vided with screens, and convenvided with screens, and conven-ience for the cooling of the milk, cannot be too highly recommend-ed. Very great improvement would be made in our hot weath-or cheese if the night's milk was always properly cooled. The saving of loss in cases where the milk turns sour before reaching, the factory would also amount to a very considerable sum. To these maks here the lost

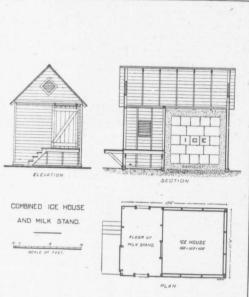
To those who have had but little experience in the storing and handling of ice the follow-ing extracts from Bulletin No. 10 of the Dairy and Cold Stor-age Commissioners series will prove helpful.

1. Provide for drainage by filling the area of the ice-house with broken stones or cobble stones, covered with cinders or gravel. A few inches will do on the top of a gravelly and porous soil. On a heavy clay soil a greater depth will be necessary. greater depth will be necessary. A tile drain should be laid in the earth, under the gravel, along the centre of the building. 2. Before putting in the ice cover the stones or gravel in the ice-house with 12 inches of dry

saw-dust. 3. Pack the ice directly on th

3. Pack the ice directly on the saw-dust. Leave a space of 12 inches between the walls and the ice. Place the cakes of ice as close together as possible, and fill in all unavoidable spaces with crushed ice or snow, well word the any sawdus rammed





a crushed fee or snow, well-med. Never use any sawdust be-straw, or chaff, may be used, but in dust or long hay; 12 inches of saw-this case the space between the wall dust will do. Hay should be put on 2 Fill the 12-inch space between the and the ice should be twice as large [see thick. Hay and saw-dust make tween the tiers

an equally good covering, it used in proper quantities. When saw-dust is used, put on 2 feet thick at first. This will leave 12 inches to spare to fill in the aides in the spring, when the saw-dust along the sides has settled. 6 A left floor area the ice have

the sides has settled. 6. A loft floor over the ico-house does more harm than good, as is pre-vents circulation of air and keeps the covering damp. Have an opening at veach end of the gable fitted with lourne boards, and have a ventilator 13-inch equators going through the mid-dle of the roof to create a thorough circulation of air and thus prevent accumulation of heat under roof. 7. Bank the ice-house up above the sill with earth or saw-dust, in order to prevent any entrance of air around the sill.

#### Send Good Stock Only

Ed. Farm and Dairy .- Dairying is steadily gaining ground in this pro-vince of Alberta. The demand for good dairy stock has become quite brisk. Eastern breeders will have an excellent market in Alberta if it is encouraged by the careful selection of

encouraged by the careful selection of the animals sent here. Animals of the best merit only, of uniform size, of vigorous constitu-tions and of prepotent dairying qual-ity can be handled to advantage. Any inferior stock sent here at the present stage of development will work incal-culable injury to all concerned. Investments in dairy stock are closely watched in every district. When they prove successful, others are quick to note the improvement and to benefit by their neighbors' experi-

benefit by their neighbors' experi-ence. I have given several inquiries to eastern breeders, and I wish to urge upon all breeders to cultivate the Alberta market by sending noth-

ing but what will serve to whet the purchasers' appetite for more. Nothing is too good for Alberta. I hope to bring another carload of Ayr-shires out for sale in March if I can secure them in time to have them dis-tributed before seeding time.-J. G. Clark, Strathcona Co., Alta.

Renew Your Subscription Now.

## HELP US HELP YOURSELF CUT OUT THE BLANK FORM BELOW AND FILL IT IN

There must be several of your neighbors who are not now taking Farm and Dairy. If they knew what a good paper Farm and Dairy was, we are sure they would be glad to subscribe for it. Show them your copy and induce them to subscribe.

Fill in the form below with the names and addresses of ten persons whom you know who are not now subscribers to Farm and Dairy. We will send them sample copies free. If you can induce any one of the parties whose names you send us to subscribe we will renew your own subscription free for 6 months ; it two subscribe we will renew your own subscription free for one year.

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#### February 25, 1909.

#### **Farmers'** Telephones

J. J. G., York Co., Ont.

Most of us who have not taken the trouble to look into the question, think of the telephone and the telephone exchange as being a complicat-ed mechanism, which only experts can ed mechanism, which only experts can install and operate. To a large de-gree this is true of the sort of system that is required by a city having a population of over four or five thou-sand, but with the rural system—for-tunately for the farmer—it is differ-

with the rural system there may or may not be a central switchboard. As a rule, a rural system starts with just one line about as follows:

A number of farmers living on the same side of a town get together and decide to build, for their mutual benefit, a telephone line. Each man agrees to cut, peel and haul a given number of poles...30 poles about 22 feet or 25 feet long being required for each mile of line.

each mile of line. Before the poles, which are set in the ground three and a half feet, are erected, two brackets, on the end of each of which is fastened a glass in-sultator, are nailed to the pole, one 18 inches over the other. Having set the poles, two double galvanized iron telephone wires are strung the entire length of the line. Branch lines, tak-ing care of the farmers living off the main route, can be fastened to the main line wires at any point.

Main ince wires at any point, When the wire is all strung, each joint being carefully soldered, in or-der to be sure of having a good, tight contact between each section, two wires are run, one from each of the main line wires, to two binding posts located on the telephone set which the former has installed in bis residence. farmer has installed in his residence.

So far has the telephone been per-So tar has the telephone been per-fected as to make it possible for as many as 35 or 40 telephones to be in-stalled on such a line as that describ-ed, and the total length of the line, including the length of the branch lines, may be 40 or 45 miles.

What we have described, is a so-called "full metallic" system. While costing at the outset somewhat more than the one-wire "grounded" sys-tem, it gives better results under all conditions. conditions.

conditions. The total student and The total cost of all the material (less poles) required to build a 13.74, and the very best telephone on the market, with all material for install-ing it ready for use on the had for \$13.00. If we assume, therefore, that there will be on an average one tele-phone for even in average constell-grand total initial cost for each far-mer for the very best system, is but \$20,74.

The maintenance expense on such a line, including wear and tear on the equipment, should be less than \$3 a year. Just think of it—for 25 cents a month the farmer can have telephone month the farmer can have telephone service with his neighbor, doctor, broker and merchant. At a slightly larger expense he can usually have access to the town exchange and toll lines, through these reaching all of their local subscribers and long dis-tance noise. tance points.

tance points. What other agency than the rural relephone can more economically or efficiently increase the eatning power of our farms and farmers, or increase the pheasure of farm life? Perhaps the the general use of the rural tele-phone will, aside from increasing wonderfully the value of our farm property, do more towards protecting the home than any or all other agen-cies combined.

the home than any or all otner agen-cies combined. The cost is insignificant as com-pared with the benefits secured. Cer-tainly this is a subject worthy of your most careful consideration.

#### British Columbia in Line

British Columbia in Line Among the many subscriptions re-ceived in our office during the past were provided from the sub-scriptions from British Columbia This te comprises the entire member were provided from the sub-scription of the British Columbia Dairy may cleate the British Columbia Dairy were avail receive Farm and Dairy. We were glad to know that Farm and Dairy. We were all the member and Dairy were association as the above subscribing. This means that the dairymen of thish Columbia will be kept fully for a sub-main were sub-scribing to the farm of the farm and Dairy aims to formed with all dairy interests of the own dairy mer's up way possible. The weat will not be the fully member as a subscribing entire list of members as subscrib

#### Jersey Register of Merit

Jersey Register of Merit A complimentary copy of the new edition of the "Register of Merit of Jersey Cattle," has recently come to hand. It contains the records of the animals entered to June 30, 1808, a list of their breeders and owners, and a list of sires having daughters in this advanced register. It is illus-trated with 151 portraits of Jerseys. The purpose of this Register of Merit is to raise to a still higher standard the average excellence of the Jersey cow, and to secure an ad-ditional authoritative and permanent record to which reference can be

made in the selection of breeding ani-mals. It is expected that it will be of great value to both present and prospective breeders and owners of Jersey cattle. Copies will be sent free on application to the sccretary of the club, Mr. J. J. Hemingway, No. 8, West Seventeenth street, New York. Ten cents in stamps for post-age should accompany the applica-tion.

Our Fountain Pen Offer.—Our offer to give a 14kt gold fountain pen as a premium for the securing of only one new subscription to Farm and Dairy We have disposed of several dozen of these fountain pens and in every in-stance they have proved satisfactory. Have you won one yet?

Renew Your Subscription Now.

# Made In Canada For 24 Years

Some Metal Shingles are guaranteed to "last a life-time," by firms which have been making Metal Goods only a few years.

How can they know how long their shingles will wear ?

"Perhaps" such shingles will last.

"Perhaps" they are lightning-proof and weatherproof.

You are the one who must take the chances. There are no "perhaps" about

# "EASTLAKE" METALLIC SHINGLES

ON THE ROOFS SINCE 1885

They have defied lightning and fire-resisted snow They have dened lighting and hre-resisted show and rain-protected against leaks and rust-for 24 years. You buy certainty-not supposition-when you buy "Eastlake" Shingles. Because 'Eastlake" Metallic Shingles have proved, by 24 years' wear on the roofs, that they are practically indestructible.

Don't buy "a pig in a poke." Don't take chances. Get "Eastlake" shingles, which are sold with a guarantee worth having.

Write for catalogue, which tells about the "East-lake" side Lock, the new Cleat and other exclusive features, as well as explaining all about the Shingles themselves.

The Metallic Roofing Co., Limited TORONTO Manufacturers WINNIPEG

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



#### FARM AND DAIRY AND RURAL HOME

Published by The Rural Publishing Company, Limited.

and the state

PARM AND DAIRY is published every Thureday. It is the official organ of the British Columbia, Manitoba, Eastern and Western Ontario, and Bedford District Gesbon Dairymeira Associations, and of the Canadian Holstein, Ayrshire, and Jer-

er Cattle Breeders Associations. 2. SUBSCRIPTION PRICE, \$1.00 a year. tricly in advance. Great Britain, \$1.20 year. For all countries, except Canada and Great Britain, add 50c. for postage. year's subscription free for a club of year's subscription to new subscribers.

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the banks. 4. CHANGE OF ADDRESS - When a change of address is ordered, both the old and new addresses must be given. 5. ADVERTISING RATES quoted on ap-plication. Copy received up to the Priday DF WEINE FAMERES to write use as a set of the se

CIRCULATION STATEMENT

CIRCULATION STATEMENT The palel-nearmose unscriptions to parm and Duity exceed 8,000. The actual of the paper sent subscriptions to the alghity in arrears, and sample copies, wattes from 8,000 copies to 12,000 copies, alghity in arrears, and sample copies, wattes from 8,000 copies to 12,000 copies alghity in arrears, and sample copies, alghity in arrears, and sample copies of the sent sent full subscription timued as they expire. No subscription timed as they expire. No subscription to the subscription of the sent set of the set of the subscription of the set of the s

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

#### OUR PROTECTIVE POLICY

OUR PROTECTIVE POLICY We want the readers of Farm and Dairy to feel that they can deal with our advertisers' will ability. We try to admit to wertkers' reliability. We try to admit to vertkers' could be most reliable ad-vertkers' benefation with the have cause to be dissatisfied with the have stances faily. Should we find reason to be been that any of our advertisers are un-balances that any of our advertisers are un-velil do with in the slightst digree, we will do not in the slightst digree, we easion of their advertisers should the cation of their advertisers. extion of their advertisements. Should the clicumstances warrant, we will expose the second second second second second the second second second second second res, but our reputable advertisers as well. All that is necessary to emittle you advertisers the words, "I naw your ad in Farm and Dairy." Compliaints should after reason for dissuitancia as possible after reason for dissuitancia as the second second second reason for dissuitancia as the second second second reason for dissuitancia as the second FARM AND DAIRY

#### PETERBORO, ONT.

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

#### THE AUTOMOBILE QUESTION

What are the farmers of Ontario going to do about the automobile question? In spite of their desires it Las been played with for several years by the members of both political parties in the Ontario Legislature. The Legislature is again in session. Unless the farmers of the province get busy immediately and make their desires known in unmistakable terms, it is altogether likely that another session will go by without anything being done.

As farmers we do not desire that any legislation shall be enacted that will be unfair to the owners of automobiles. The time may not be far distant when many of us will be using automobiles of our own, as is now the case with farmers in numerous sections of the United States. What we do desire is that we shall be race their automobiles over the coun- When we consider that these results the many things relating to the farm try roads without any regard to the may largely be accomplished through could be discussed and talked over rights or convenience of others. We the medium of corn shows, convenwould like to see the Government detail special officers to apprehend such have recently been held, we gain some persons. We would like to see them slight conception of what this movemade liable for any damages they may cause through their disregard the province of Ontario. of the law. We would like to have the penalties increased and to see meet with such abounding success, these people sent to gaol without the option of a fine, in the case of a the extension of this work. The spirsecond conviction.

These foregoing are reasonable requests. The Government should have been imbued, has been most grant them. The Government is not likely to grant them unless the farmers of the province make a united demand for such legislation. This tional work, which is to mean so demand can best be made by the signing and forwarding of petitions. Farm and Dairy has a large circulation in all parts of Ontario. We will be glad to publish a petition form if our readers will agree to circulate it among their neighbors for signatures. Are you willing to do your part? If only twenty of our readers will write us that they will undertake to push this matter in their sections we will publish a petition form, for which it should be possible for our readers to obtain thousands of signatures from all over Ontario. This is your chance to do something. Do all, and inspire them to put forth not wait for some one else to write to us. Write to us yourself. See if we cannot get this matter handled properly as was done last year with are satisfied with what they have. We Free Rural Mail Delivery. need to take advantage of, and apply

#### COLLEGE EXTENSION WORK

The growing popularity of the disrict branches of the Department of Agriculture, that have been inaugurnted in six different counties of Onario, is a sign of the times, and is most encouraging. The short course n stock and grain judging held at Lindsay recently, and which was reported in Farm and Dairy for Feb. 11th, was an unqualified success. A similar course conducted at Ayr, under the direction of the Galt branch, and which is reported in another column, also proved highly successful, the attendance being so great as to seriously tax the capacity of the accommodation provided.

The Corn Growers' Convention and Exhibition arranged by the Essex branch and held recently, proved to be of a most valuable educational nature. So great was the attendance, that on one day many had to be turned away.

The value of a course in stock judging is more or less recognized by all. The same cannot be said of a course in grain judging. Let is consider the possibilities that lie within the kernels that we plant annually in the soil. It has been shown that an increase of one bushel an acre would mean an increase of 150,000 bushels in the counties of Essex and Kent alone. Recent discoveries indicate that if proper methods of selection are practised, an increase of five or more bushels on the average may directly to the lack of a proper unbe expected. This means much to the farmer, the merchant and the manufacturer; in fact, every man, protected from reckless parties who woman and child in those counties, other members of the family, where scription to Farm and Dairy,

tions and judging classes, such as

ment in secondary education means to

That these several branches should

augurs well for the continuance and

it of earnestness and inquiry with

which those attending these courses

gratifying to those in charge, and

seems to show that the time is ripe

for a rapid extension of this educa-

much to our farmers in the years to

AN ILLUSTRIOUS EXAMPLE

and to business methods, can be at-

tributed the success of the Muskoka

farmer, Mr. J. J. Beaumont. The

story of how he gained a footing in a

new country, how he profited by the

experience of others, and how he mas-

tered the problems which confronted

him, as outlined on page three of this

issue, should give encouragement to

greater efforts and to make the most

With many of us to-day, our be-

setting sin is indifference. Too many

the information . about our business

that is available. We must not look

to the Government and to others to

help us further. Our principal help

must come from ourselves. When

utilized in the proper spirit, how great

that help can be is well illustrated by

the success of such men as Mr. Beau

PROVIDE A FARM OFFICE

What manufacturer would attempt

to run his business without an office?

We, as farmers, being business men.

should have an office in which to

transact the many items of business

connected with the farm. We are in-

clined at times to look enviously to

wards the manufacturer as having

made a great success, as well as

money, in his business. How did he

do it? Was not his business office

In every farm house there should

be, if possible, a separate room,

which could be termed the office.

Failing this, there should, at least,

be some corner wherein could be

kept the books and papers relating

to the farm. A separate room is much

to be preferred. Such a room, when

furnished, and conveniently arranged,

will form a den in which the farmer

and his son will retreat in their leis-

ure moments to talk over matters

and read the newspapers and agri-

of the boy leaving the farm be trace I

An office or den would tend to bring

a large factor?

of every opportunity.

mont.

To a desire to learn, to enthusiasm

come.

February 25, 1909.

together.

Go into the average farm home to-day and where do we find the current literature and farm periodical;? Generally, they are anywhere but in that place where they can be picked up on a moment's notice. They may be on the table from whence the busy housewife hustles them when preparing the meals. More likely they are behind the cupboard or under the stove, where they have been flung when last used.

The information, going to the average farmer weekly in the form of agricultural journals and bulletins as they are generally made use of, serves largely as a pastime only. These may, and should, be made valuable works of reference. Some place such as can be provided in the office should be available on all farms in which to file all agricultural literature. This when indexed becomes invaluable.

A system of indexing, which is simple, yet effective and satisfactory, is to blue pencil on its cover each paper or bulletin as it is read. For instance, with those containing a valuable re ceipt, notes on alfalfa, plans of buildings, chicken houses, etc.; these subjects can be marked in bold writing on the covers; then in going huriedly through the file one may pick out the issue containing the information desired. An office on the farm is a crying necessity. It should be provided at the earliest opportunity.

### AN ESSENTIAL TO HEALTH

Fresh air is one of the first essentials of life. An abundant supply is necessary at all times. Its value in earlier days was little understood if such a conclusion might be drawn from the lack of provisions made for supplying it to houses and to live stock when in winter quarters. Winter is a severe tax upon the health of any flife that is maintained within unventilated buildings.

Our Canadian winter is one of the most healthful of seasons. With plenty of fresh air supplied at all times by some adequate means of ventilation, the winter need have no terrors. It is when we seal ourselves up in heated rooms from which the outside air has been excluded that health begins to wane.

If one would cope with the pulmonary affections to which man is heir he should aim to breath pure air at all times. Such can readily be obtained, though true, frequently at a loss of heat. Any increase in the fuel bill. however, as a result of ventilating will be largely offset by better health and fewer calls from the doctor. Make fresh air your watchword. It will lengthen your days.

Do you receive your paper regularly? If not, let us know about it. If we cultural journals. Cannot many cases do not know that you are missing a copy now and then, we cannot rectify any error which may be accountable derstanding between father and son? for your not receiving your paper.

them together more, away from the Be up-to-date. Renew your sub-

only cow profi draw he b cow-i ing on by M secre sign Sydn tion cultu form ducir ow. the : matt in fa to in tion

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M ford. ing quiri vious test, a goo not e of th takin has c The s eral i It the r cusse the adopt P. D and 1 ed th place there record fact cords of oth by co years ly tes under avera

Acc of the cultu Minis any c Recor tion cow y traini will I mont clause off the sire record makin less s sity. his pa reduc It that

the n cords. Tests, give in th better owing tende would al of

#### **Canadian Ayrshire Breeders'** Meeting

(Continued from page 13)

only to the milk production of the cows under test and not to the net profit they give. Were due attention drawn to the profit per cow it would, he believed, lead the members of the cow-testing associations to give more consideration to the economical feeding of their cattle. On motion of Mr. Hume, seconded

On motion of Mr. Hume, seconded by Mr. Ballantyne, the president and secretary were instructed to jointly sign a letter and send it to Hon. Sydney Fisher, urging that in connec-tion with the work of the cow-testing associations the Department of Agri-culture shall take steps to gather in-formation in regard to the cost of pro-ducing milk and the net profit per cow. A number of the members of the association, while discussing this matter between sessions spoke strongly in favor of having the work of the cow-testing associations so extended as to include the gathering of informa-tion about the cost of production.

#### THE IS-MONTH RESTRICTION

Mr. W. W. Ballantyne, of Strat-ford, suggested that the rule governing the Record of Performance, re quiring a cow to calve 15 months pre vious to the commencement of test, be dropped. A cow that makes a good test but fails to qualify through not calving within 15 months after the commencement of the test, on account of the previous rule is prevented from taking part in another test until she has calved twice within the 15 months. The suggestion did not meet with general approval and was finally dropped

erai approval and was mainy dropped. It was pointed out by several that the matter had been thoroughly dis-cussed at the time rules governing the Record of Perfo. annec were adopted some four years ago. Messrs. P. D. McArthur, Georgetown, Que., and Mr. Dyment, of Clappison, claim-than the second second second second second second tables. ed that there was no such restriction placed on the breeders of Ayrshire cattle in the United States who were thereby enabled to make larger yearly Attention was drawn to the records fact that some of the large milk re cords that have been made by cattle of other dairy breeds, have been made by cows that were dry for one or two years before they commenced the yearly test. Their records, thus, were made under conditions not practical for the average farmer and breeders to follow.

#### OBJECTS OF TEST

According to Mr. D. Drummond, of the Dominion Department of Agri-culture, there is little likelihood of the Minister of Agriculture consenting to any change in the present rules. The Record of Performance Test has two Record of Performance Teat has two objects, inst, to encourage the produc-tion of large quantities of milk per cow yearly, under ordinary farm con-ditions, and, second, to encourage the training of cows that, besides being producers of large quantities of milk, will be, also, sure breeders. The 10° clause that hits those breeders who put off, the breeding, of their, cows until off the breeding of their cows until the last possible moment in their desire to have their cows make large The Department is averse to records. making changes in the regulations unless such changes are of great neces-sity. Mr. Drummond said that for his part he would like to see the limit reduced from 15 months to 13 months.

It was thought by Mr. Drummond, that more attention should be given to the milking periods in which the re-cords, in the Record of Performance Tests, are made. Animals may not give as much milk as other animals their class and yet really do mud better work, everything considered, owing to the fact that their test extended over a shorter period. As it

Jersey Cattle Breeders' Associations before any change in the regulations could be secured it was decided to let the matter drop.

#### THE SEATTLE EXPOSITION

The representatives of the associa-tion, on the Canadian National Re-cord Board, were instructed to consult cord Board, were instructed to consult with the other members of the board at their annual meeting in May in regard to making an sxihiti of Cana-dian pure-bred stock at the Alaska-Yukon-Pacific Exposition at Seattle next fall. If the other members of the Record Record constructions of the Record Board are favorable the Dom-inion Minister of Agriculture will be asked for assistance in making such exhibits

#### DAIRY TEST AT OTTAWA

On motion of Mr. Hume, seconded by Mr. Dyment, it was decided to re-commend to the directors of the commend to the directors of the Ottawa Live Stock and Poultry Show that the basis of computing the re-sults in the dairy test at the Ottawa Winter Fair be the same as at Gueph Winter fair be the same as at deepin, viz., 25 points for every pound of butter-fat and three points for every points are allowed for every pound of fat and 4 points for every pound of solids not fat.

#### LIFE MEMBERS

A proposal that life members be accepted upon payment of a membership fee of \$25 was left over for further consideration. Messrs. Robt. Ness, Robt Hunter, and one or two others favored it. They claimed that it should be of benefit to the association because there are always some who join the association and drop out at the end of a few years. Were these the end of a few years. Were these men to become life members, as some of them would be sure to, the association would be benefitted.

Senator Owens, Mr. Bjorkland, of Ste. Annes, Que., and others contend-ed that such a step might prove dis-attron. astrous. The association might get rich at first and be poor afterwards. Later on, the yearly membership fee of the association which is two dollars may be increased, when it would be dollars come a burden to carry life members accepted at \$25. Senator Owens claimed that the association now gives the members more value than the membership fee represents.

#### THE LIVE STOCK COMMISSION

The officers were instructed to in-form Hon. Sydney Fisher, Dominion Minister of Agriculture, that it is the strong desire of the association that the Dominion Government shall do all in its power to induce Dr. J. G. Rutherford to withdraw his resignation as Dominion Live Stock Commissioner. The convention was unani-mous in its recognition of the valuable work that has been done for the live stock interests of Canada by Dr. Rutherford

#### NOTES

A letter was read from Hon. Sydney Fisher, announcing that the Dominion Government purposes making a Cana-dian exhibit at the Alaska-Yukon-Pacific Exhibition at Seattle this year but that the government does not purcose assisting the breeders of purebred stock to make exhibits.

Owing to the unsatisfactory charac-ter of some of the cuts of Ayrshire cattle published in the Record of Performance it was decided to discontinue the publication of such cuts. Where Where breeders have good cuts that they would like to have published they will be allowed to publish them but not with the pedigree of the Record of Performance.

It was decided to pay the expenses the delegates from the association of while attending meetings of the Fair Boards where the fair boards do not pay such expenses.

A resolution was passed requesting

FARM AND DAIRY (Formerly The Canadian Dairyman and Farming World.)

## LIKE A THIEF AT NIGHT THE CREAM SEPARATOR THAT CAN'T SKIM CLEAN

Dairy authorities the world over agree that the centrifugal separator is indispensable to the man who owns milk cows. And why? Simply because it saves his cream, hence his money. The more cream saved, the more money, that's sure. But unfortunately many separators do not save all the cream. And worse still the biggest claims are made for these machines. Such separators are like a thief at night or the pickpocket who with an innocent face rubs our elbow and then robs us of our wallet. Because of inferior and out-of-date bowl construction, these separators, unknown to the users of them, daily lose a big percentage of the cream.

It is easy to be deceived into buying a "pickpocket" separator, but it is just as easy to avoid buying one if we will but take the advice of those whom we know are experienced separator judges. 991/2 per cent. of all expert creamerymen, butter manufacturers, and real separator authorities living to-day use DE LAVAL separators exclusively, for they have learned by experience that the DE LAVAL is the only separator that will save all the cream all the time under all conditions. And the reason for this fact is plain. It is found in the improved patent protected DE LAVAL "Alpha-Disc separating bowl. It is different from any other bowl and its peculiar construction is the secret of DE LAVAL clean skimming. Ask for our illustrated catalog which explains the DE LAVAL bowl in detail as well as many other interesting features.

#### THE DE LAVAL SEPARATOR CO. 173-177 William Street 14 and 16 Princess St. MONTREAL WINNIPEG

Ayrshire cows in the Record of Per- Alex. Hume, of Menie, and the third, formance test as conducted by the was a Berkshire sow, bought from ssociation. The following were appointed Hon. Life Members: Geo. Hill, Delaware, Ont.; Hon. Sydney Fisher, Ottawa; J. W: Jardine, Hamilton, Ont.

#### Work that Pays Well

Work that pays good returns is never irksome and, indeed, becomes a Another subscriber to Farm pleasure. and Dairy has made good use of spare moments of late by securing for us three clubs of seven new subscrip-tions each, for which he received three pure bred pigs.

Max Huns, of a sow, bought from Mr. W. W. Brownridge. Mr. James Douglas of Hastings Co., who received these three pigs, writes us as follows regarding them:

"I received the three pigs for se-curing the three clubs of seven new yeariy subscriptions to Farm and Dairy, at §1 a year each, and must say that 1 am highly pleased with them. The two Yorkshires that I ob-tioned from We Alace the subscription tained from Mr. Alex. Hume are nice growthy pigs. The Berkshire from growthy pigs. The Berkshire from Mr. W. W. Brownridge is a beauty, Mr. W. W. Browninge is a beau, and of good size for its age. I re-ceived its pedigree the night after I obtained the pig. I surely wish pure bred pigs. I surely wish Two of these pigs were pure bred Yorkshires, purchased by us of Mr. Douglas, Hastings Co., Ont.



\* Creamery Department biosto this department, to ask of contribu-matter relation butter making wild loss of matter relation butter making wild loss of person of the second second second second litters to the cenamy of partments.

Making Prize Farm Dairy Butter

Editor, Farm and Dairy:-I was an exhibitor at Toronto Ex-hibition last year and won first prize on my butter in the farm dairy class. This butter was made from the milk of thirteen grade Shorthorn cows. The cows were pasturing in a field of second growth clover, and had no growth clover, and had no growth clover was used and it has never sharador was used and it has never sharador was used and it has never sharador a skimming in over eight years.

it has never missed a skimming in over eight years. After separating the cream was placed in ice water to cool. I always use a portion of ripe cream as a start-er, I pint to I quart, according to the temperature of the cream well stirred. I al and keep the cream well stirred. I always heat in the starter when I churn so that in the starter when I cresh cream at the same temperature. Then I let-it raise to SS or 60 degrees and keep it at that temperature for 24 hours after the last cream has been added. I usually churn about 12 gal-lons in a No. 4 Daisy churn. It takes shut one hour when the cows are on then than whi is harder to get butter than these a little or year. But cording to the season of the year. But it takes less in summer.

This picture, made from an actual photograph, shows the oiling of the Sharples Dairy

Tubular Cream Separator. The gears and the single frictionless ball bearing supporting the

ball bearing supporting the bowl are all enclosed in a dust

bowl are all enclosed in a dust proof case. Once or twice a week, you lift the gear case lid and pour a spoonful or two of oil down among the gears. When

and pour a spoontul or two of on down among the gears. When running, the gears spray this oil over themselves and the bear-ings. The lubricating of Tu-

lings. The indicating of Tu-bulars is perfect, easy, never neglected. You must go after other separators with an oil can every time they are used.

When the butter breaks or separates I add, if the weather is warm, a pail of cold water at about 50 degrees. Then I turn the churn until the butter is well up above the milk and is in grains about the size of shot and looks filte hall and will fall over in the churn just as hall would do in win-the second starts and the second start is well up above the surface of the butter, at all over the surface of the butter, at all over the surface of the butter, at all over the surface of the butter and put in 2 fail print of the start and the fail of the start and forth 3 or 4 limes. Up fail print of the start was and the surface of the butter, turn the churn 10 time promal, then run of the water. When there is a very small stream I stop. I weigh churn and butter together. Knowing the weight of my churn I deduct that trom the total. I usually have about from 32 to 36 lbs. butter at a churning. I use one ounce of salt to the lb with our onese extra for the churn. I then use the turn until the churn. One must salt to suit the trade. TIME TO STOP CHURNING

#### TIME TO STOP CHURNING

I have found that the time to stop churning is one of the most important points in making butter. Prof. Dean says: "It is a nice thing to know when to stop churning." I will give you one of my experiences in this mat-ter. Some years ago I had a nicee come to live with me for a time and she helped me with my work. She was a bright clever girl. We worked together at all there was to do, churn-ing as well as other work. We were at a the schild our butter to a gree the schild our butter well until my nice began to do some churning alone. Then co do some that our butter was not nations came that our butter was not nations came that we could not tell why. Every detail was looked into. The cows' feel, uten-I have found that the time to stop

sils, everything were made perfectly clean, the cream was kept at an even temperature. Yet the complaints came that our butter was not as good as it

that our butter was not as good as it used to be. It turned out that we all took La-Grippe and my nicee went home for a time. I then did all the churning my-self. When the next tub was sent to the groot he sent back word it was the best tub of butter he had received for a long time. I could not for the floot me tell what I had done to make the and was doing the churn-ing again.

#### STOPPED TOO SOON

STOPPED TOO SOON We determined to watch and find out if there was any difference in our work. All was the same. One day when she had finished churning, she called me to come and see it. The but-ter was about 3/ or 3/ of an inch, readed out of the milk. It was cold take in fine condition. I saked her if ahe in fine condition. I saked her if the tota plained all the trouble. I then toke plained all the trouble. I then toke plained all the trouble imea before I churn, turned it 200 times before I was finished. The butter was that was finished. The butter was that was finished. The butter was that was finished.

time. I work the butter and put it away as soon as churned. I find it is better every way than when it is left for a length of time. It ought to be kept in a refrigerator or some cold place until it is consumed.

A good way, if you have nothing better is to place a piece of zinc over that the two box, set a tin dish over that filled with ice. This keeps the butter in good condition. We use one of C. Richardson's refrigerator butter carriers. It is a good thing in sum-mer. Try as we may to make good

butter it is very much as Prof. Dean says: "It takes good common sense mixed up along with it all." I trust this letter may be helpful to some be-ginner. We are never done learning. --Mrs. Wm. Whitelaw, Grey Co., Ont.

#### Pasteurization

Mr. Barr discussed the pasteurizing of whey at the Bedford district Dairy. men's convention held at Cowansville. His one year's experience as re-feree in Montreal had shown him that ich cheese was made in the province Quebec and that there was in that

ieee in Montreal had shown him that force in Montreal had shown him that inch cheese was made in the province much cheese and that there was in that much cheese and that there was in that in operation Ho then outlined the ad-h vantages of pasteurizing. Applying the remarks made by Mr. If Barr, Mr. J. A. Hayes. of West Shef-aid ford, stated that the skim-mill should be hated to 180 degrees. This hot be milk would sterilize the cans on the way home. He pointed out that there way home. He pointed out that there is would be no excuss for hand separa-ing the state of the state of the state the state of the state at likely to do better work basiles more a likely to do better work basiles more is both the cream in Cannak was pasteur-ized there would be no poor butter. Every creamery in Demark pasteur-izes both the cream and the skim-milk. The ideal way of course would he to use unpasteurized pure milk, but that kind of milk dese not often show that kind of milk dese not often show in the stateurization must be reup. In order to stamp out tubercu-losis pasteurization must be re-sorted to.

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is now porters loss w come r either weight cheese a lower lows fo exporte becomi Canada Great Mr.

the offi cheese vats in be sing the go this la sults.

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#### Instruc

Frank H The p for con products from th somewh maker. factories tion of by increature. 1 men un beginnir having lage to ing the en bu our dain \*Read

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RURA P

<sup>9</sup> Don't Back Down When you understand why Sharples Dairy Tubular Cream Sepa-

rators are simplest and best, why even think of taking some other make just to please some fellow with some other machine to sell? What if he does want your money-want it so badly that he will even try to confuse you with talk and change your mind from right to wrong?

Don't back down. Stick to your decision to buy a Tubular. No talk can lessen the superiority of the Tubular over every other separator, or overcome the disadvantages found in every separator except the Tubular. By sticking to your decision now-by getting a Tubular and no other-you will save yourself constant regret, later on, that you did not follow your own good judgment.

# **Tubulars** are Different

Tubulars are strictly modern separators, built on the latest scientific discoveries. These discoveries are patented and can not be used in any machine made by other manufacturers. You thus understand why all other manufacturers make separators that are old style, out of date and undesirable as compared to Tubulars.

The manufacture of Tubulars is one of Canada's leading industries. Tubulars have been on the market ten years, 1908 sales, throughout the Dominion, far exceeded 1907-were way ahead of any other make, if not all other makes combined.

Better hurrah with your neighbor, now, for the Tubular than envy your neighbor his Tubular later on. Write to-day for Catalog No. 146.

The Sharples Separator Co. Toronto, Ont. Winnipeg, Man.



Sharples Dairy Tubulars have the Sharples Dairy Tubulars have the lightest, simplest, cleanest skimming, most durable, easiest washed bowl in existence. It is only half as heavy as others. It is made in three simple pieces-the bowl itself, the bowl bot-tom closing the lower end of the bowl, and the tiru smooth dividing wall ther

and the tiny smooth dividing wall that goes inside. Other separators contain many parts—some as high as 40 or 50.

February 25, 1909.

#### \* **Cheese Department** Makers are invited to ser king and to suggest Address your letter relating to cheesemaking a jects for discussion. Add The Cheese Maker's Dena

#### Advice from a Montreal Exporter

It was pointed out by Mr. A. A. Ayer, the president of the Montreal Produce Merchants' Association, at the recent convention of the Eastern Ontario Dairymen's Association at Descent that the number of descent Ontario Dairymen's Association at Prescott, that the number of cheese that are rejected each year at Mese-treal, because of inferior quality, very small compared with the real number of cheese handled. This cheese, it has been found, is nearly all made in small, hadly equipped factories. There is need that dairy-men should use strong, large boxes, and that the weights should be sten-ciled distinctly on each box. Owing to the extra moisture that is now being left in cheese, the ex-porters have suffered considerable loss with the result that it has be-

porters have suffered considerable loss with the result that it has be-come necessary that factorymen shall either allow for shrinkage in the weight of the cheese, or accept the cheese longer themselves, or accept a lower price for it. New Zealand al-lows for the shrinkage in the cheese exponded from that country, and is competitor of Great Britain. Mr. Aver arrend with Mr. Burcase

Mr. Ayer agreed with Mr. Burgess, the official referee of Montreal, that cheese makers should number their vats in order that inferior cheese can be singled out and not mixed with the good lots. Factories that did this last year, obtained better results

Referring to the agitation that has been conducted by a paper in: East-ern Ontario in favor of dairymen ex-porting their cheese direct to merch-ants in the old country, Mr. Ayer en-dorsed what had been suid by Dairy Commissioner J. A. Ruddick, to the effect that were cheese exported di-rect by the factorymen, it would cause a glut on the British market and force down, the price one or two cents a pound. Such a glut is now prevent-ed by the Montreal exporters who uvery year 3tore large quantities of Referring to the agitation that has every year store large quantities of cheese in Montreal for months at a time and sell them when the market is most favorable.

#### Instruction in Western Ontario 1908\*

Frank Herns, Chief Instructor, London, Ont. The past season will be remembered for continued high prices for dairy products. It was a successful season from the patron's standpoint, and a somewhat more successful one for the maker. The patrons of a number of factories have shown their apprecia-tion of the work done by the makers by increasing the price for manufac-ture. There are still many factory men underpaid. Many patrons are beginning to realize the importance of beginning to realize the importance or having summer soling crops, or si-lage to supplement the pastures dur-ing the dry season. More silos have been built and more corn raised in our dairy districts during the past

\*Read at the Annual Meeting of the West on Ontario Dairyman's Association.



year than for many previous years. This is a good sign of progress. The instruction work was carried on along practically the same lines as last year. The same number of in-functions works ampleed and year on along practically the same must ac-last year. The same number of in-structors were employed, and very little change made in the grouping of factories. The instructors as usual spent a few days at the O. A. C., Guelph, before beginning work and appreciated very much the lectures given by the professors of the college, considerable time was given to disconsiderable time was given to dis-cussing the work for the season, and uniform methods of instruction decided upon.

olded upon. The quality of the cheese up to the end of June was fine but when hot weather came in July, we had the same difficulty as last year at a few factories with small round holes in the cheese. This difficulty was dis-cussed at the district meetings and the general opinion semed to be that the termedy was to get a bottor could the general opinion semed to be that the remedy was to get a better qual-ity of milk, cut the curds fine, using the %-inch curd knife, get the curds firm before acid came on, not draw the whey to the surface of the curd too soon, get rid of all surplus moist-ure in the cooking if possible and by stirring the curds sufficiently in the sink before piling. holiting a little longer before milling,getting the curds well faked, and give plenty of time well flaked, and give plenty of time before salting to get the curds well inatured and free from moisture.

Some of the late fall cheese do not Some of the late fall cheese do not get sufficient attention in the matter of curing before being shipped. Some of the buyers complained bitterly of the neglect on the part of some of the makers along this line. The fall cheese should not be allowed to ge below a temperature of 56 or 60. The boxes in one section were also com-plained of by the buyers. Very few acidy cheese were reported and with the exception of a few weeks

and with the exception of a few weeks

during the hot weather the quality was maintained and in a number of cases improved. September was an was maintained and in a number of cases improved. Scytember was an exceptionally jot month and the quality of the cheese sufficient accordingly. When will the time come that changes in temperature will not have such an effect on the milk supply? The finish of the cheese is improving and the August and October cheese were exceptionally fine. If we can ever get the milk in hot weather, coming in good condition, and cool-curing rooms established, there is no reason why finest cheese could not be made during the whole season. In visiting cool-curing tooms that were not protected with more the cheese. The sease to me cool-curing rooms that were not protected in my fines these the cheese of the cheese. The sease to me cool-curing rooms that were not protect in my root lack the milk of the cheese. The sease to me cool-curing room the sease the cheese as the milk of the cheese. It is insouring to see thousands of the curing root curing rooms that were not protect or the cheese. The insource of the cheese as the milk of the cheese. The insource of the cheese as the milk of the cheese. The insource of the cheese as the milk of the cheese. The insource of the cheese as the milk of the cheese. The insource of the cheese as the milk of the curing root and the cheese as the milk of the cheese. The insource of the cheese as the milk of the cheese as the milk of the cheese of the cheese as the sease to me cool-curing so the cheese as the sease to me cool-curing so the cheese as the sease to me cool-curing so the cheese as the sease to me cool-curing so the cheese the cheese as the sease to me cool-curing so the cheese the cheese the cheese the cheese as the sease to me cool-curing so the cheese the cheese the cheese as the milk as the cheese the cheese as the sease to me cool-curing so the cheese the cheese

COOL CURED CHEESE It is discoursing to see thousands of cheese during hot weather well made, nicely finished, then placed in curing rooms the temperature of which injures the texture and flavor. Evidently buyers will have to pay more money for cool-curine cheese if cool-curing rooms are to increase in number. Considerable improvement is shown at the factories in the mat-ter of new and cleaner whey tanks, new floors, inside and outside appear-ances, new wells, better equipment.

of the maker, the unclean whey tanks and the untidy condition of the fac-tory in general is a direct invitation for the patron to do likewise, and be untidy and careless in his methods of producing the milk.

#### REMEDYING ABUSES

REMEDVING ABUSES I visited a number of factories where the sanitary condition in the way of sewage disposal, impure water supply, and so on was very bad, and in every case these conditions were made satisfactory without compul-sion. We do not seem to have much difficulty in getting some of the worst abuses remedied, but there is such a wide difference in men that it seems very difficult to get all the makers up to a point where all the factories can be pointed out with some pride as being kept absolutely tidly and clean, and fit places for making dairy pro-dues. There are a few factories that although they cannot be said to be unsanitary yet they are kept in such an unidy condition that it is certain-ly discouraging to the instructors in ly discouraging to the instructors in their work.

their work. The question of shipping green im-mature cheese is important and the cool-carring of cheese and the cooling of milk is no doubt the most impor-tant problem in our dairy work to-day. Yet there seem to be two condi-tions very slow to improve. It is to ping of green cheese will have a ten-dency to lower the standard of milk new floors, inside and outside appear-ances, new wells, better equipment, deny to lower the standard of milk but we still have a few factories that taken in at some of our factories, are not keyt up-to-dute, and a few some makers reasoning that the makers that do not keep clean and cheese are going out early, defects tidy what hey do have. The owners' caused by the milk will not show be-and makers in these cases do not fore the cheese are shipped, therefore seem to realize the effect on the pa-a more inferior quality of milk is tron of having things in and about to factory clean and tidy. It is in-the factory clean and they are the cheese to break down early and consistent for us to suppose that the in order that the maker may get green patrons will improve in the care of cheese to break down earls and consistent for us to suppose that the in order that the maker may get green patrons will improve in the care of cheese to break down earls and consistent for us to suppose that the in order that the maker may get green patrons will improve in the care of cheese to break down earls and consistent for us to suppose that the pate weak down faster he is in-the milk if the personal appearance

How many cows can you keep? Are you keeping the most possible? Would it not be possible for you to keep more cows on your present land if you adopted improved methods of dairying? If you will investigate the

# I. H. C. CREAM HARVESTER

you will almost certainly find that you can increase your | dairy herd, making greater profits with even less labor and less expense than you require under present conditions. I. H. C. Cream Harvesters are enabling hundreds of dairymen to enlarge their operations. They get all the butter fat, skimming closer than you can by hand. They save work, worry, time and trouble.

They give you the warm skim milk, fresh and sweet, as a quirso and the second s

I. H. C. Cream Harvesters are made in two styles: Dairymaid and Bluebell. Either machine will be a great help to you—will enable you to keep the maximum number of cows Dairymaid

chain transmits power from the crank through the gears to the bowl with minimum friction. This makes the Dairymaid exceptionally light-running, also very simple and durmain exceptionary agarcuming, and very some and un-able. The erank and the supply can are at the most con-venient height from the floor, and the spouts are high enough to permit the separated product to be discharged into ten-gallon milk cans. The frame is constructed to keep into ten-gallon out of the genes. In every feature the Dairy-and and out of the genes. In every feature the Dairymaid is a winner.

## Bluebell

The Bluebell is a gear drive machine and made in four sizes 350, 450, 650 and 850 pounds capacity per hour. The gears are accurately cut from the finest material procurable. Al oiling facilities are provided, making the machine long-lived. The frame is constructed so that it is absolutely impossible for milk or dust to gain access to the gears-this elimines about 90 per cent of ordinary separator troublact. Yet he most convenient locations, can and crank shaft are in the most convenient locations.

This machine is chain driven and is made in four sizes: 350, 450, 650 and 850 pounds capacity per hour. The Call on the International local agent and examine the machine he handles. If you prefer, write direct to nearest branch house for a beautiful illustrated catalog fully describing these machines.

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curd and since the cheese are going out quickly he salts the curd too early, thus giving rise to open weak bodied cheese. The efforts of isolated individuals can have very little effect

Patented 1906

determined effort should be made to create an incentive for improvement. The benefit of storing ice on the farm does not seem to be well understood by the success to be well understood bodied cheese. The efforts of isolated individuals can have very little effect by the average patron, he needs ice on these conditions, improvements as well as the city resident, to pre-must be brought about by the united efforts of every one in the business. The SCON THE FAILUS The second the second second second second second not increasing as rapidly as it should, fill the ice-house at the cool-curing rooms, these are two points where a vance. Ice put up by a few patrons

The most popular and sanitary line of dairy utensil in Canada. Steel Cheese Vats, Steel Whey Tanks, Sleel Cream Vats, and Steel Curd Sinks. Steel Agita-tee Curd Sinks. Steel Agita-

Steel Curd Sinks. Steel Agita tors, Steel Buller Whey Tanks.

Milk Cooling Tanks, Steel Whey Leader, Smoke Stack. Let us quote you on entire equipment

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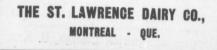
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Guaranteed not simply as good, but BETTER If needing one, my circulars describing Free Trial Offer will erest you. Write to-day for Circular "F."

Cream Separator J. H. MORROW - BRIGHTON, ONT.

This Agitator has been in operation in Eastern Townships, Lake St. John and Eastern Ontario cheese factories during the past season, and by actual use it has proven its superiority over every other agitator made. It saves the salary of one man in three, and does the work better. It gives a more uniform quality and a better body to the cheese. Send to-day for full particulars.



does accomplish some good, but it does not seem fair that a few should put up ice while the majority are negligent in this matter. Some such system if it could be worked out would ancourage coverage to put system if it could be worked out would encourage everyone put up ice, build a milk-stand near the ice-house, and the benefits are an encourage realized. A determined effort along this line is certainly important of a until such time as the milk is not of and the cheese eured in cool-curing rooms further improvement in quality will be slow. Considerable improve-ment is reported in the quality of the will be slow. Considerable improve-ment is reported in the quality of the milk, but when the hot weather ar-rives, too much gassy overripe milk

is still sent to the factories. is still sent to the factories. There are 200 cheese factories in the 6 groups, and 7 outside factories, making the same total as last year. There are 16.285 patrons producing milk for these 200 factories, 16.287 tons of cheese made in 1907. This would average SI patrons to the factory. 83 tons of cheese to the factory. 102 tons of cheese to the patron.

COMPARISON OF GROUPS

31 factories Simcoe Group, 94 pa-trons to the factory, 92 tons of cheese to the factory. 98 tons of cheese to

the patron. 35 factories Listowel Group,

of theorem Listower Group, 86 pa-trons average to the factory, 67 tons of cheese to the factory. .75 tons of cheese to the patron.

cheese to the patron. 36 factories Ingersol & Woodstock Group, 59 patrons to the factory, 110.5 tons of cheese to the factory. 1.89 tons of cheese to the patron. 36 factories Stratford Group, 86 pa-trons to the factory. 1.1 tons of cheese to the factory. 1.1 tons of cheese to the patron

the patron.

28 factories Brantford Group, 124 patrons to the factory, 65 tons of cheese to the factory. .5 tons of cheese o the patron.

The average per cent. of fai in the milk for 1908 was 3.5 per cent. for May 3.3 per cent. June 3.37 per cent. July 3.38 per cent. August 3.5 per cent. September, 3.65 per cent. Octo-ber 3.8 per cent.

The average loss of fat in the whey for season was 25 per cent. For May 226, June 223, July 226, August 236, September 223, October 241 per cent.

#### INSTRUCTOR'S VISITS

INSTRUCTOR'S VIBITS There were 637 full day visits, 549 call visits, making a total of 1,186 which is to the factories, 1,143 curd tests made to the season of the season of the season d, 41 performance for the season of the season hast year, 223 samples were found and teriorated. 180 on one test, 43 on ser-teriorated. 180 on one test, 43 on ser-teriorated. 180 on one test, 45 on ser-teriora milk. 3.206 Babcock tests made other than for adulteration. 665 Babcock made for loss of fat in the whey 2.327 new milk ears bought. 584 more than last year. This is rapidly getting rid of old rusty cans. Twenty-three factories are paying by test. 4 more than last year, 13 factories have a cool-curing year, 13 factories where the whey is fed at the factory. One hundred and thirty-seven factories have milk-testing equipment. There are 140 testing equipment. There would be that the second s

-

ferent groups, where many points of interest to the industry were discuss-ed. The majority of these meetings were better attended than last year, since the last convention 129 annual meetings of patrons have been attend to the the industry and muscil with ed by the instructors and myself with an average attendance of 40, reaching about 5,500 patrons. Applications are

about 5,500 patrons. Applications are in for speakers to attend a number of annual meetings during this winter. There were 43 cases of adulteration of milk reported by the instructors. These were looked after by the special officer appointed for this work and fines ranging from \$10.00 to \$25.00 were imposed on the patrons. One case was defended, but the conviction was finally secured. This system of handling cases of adulteration seems to give general satisfaction.

#### The Art of Cheese Making

In conversation with an individual recently, who had travelled about the country considerably, and who in the course of his travels had occasion to country considerably, and who in the course of his travels had occasion to drop into several cheese factories, he voluncered the information that the thought he could go through the thought cheese-making without any difficulty. In the course of his travels he had learned, or thought he had learned, the temperature at which the remet is added, the amount of whom the the finger test to show what dhe milk was sufficiently coag-ulated the time for running off the why, the amount of stirring given the end of the time of the milk was to the difficulty in the matter outer, the amount of stirring given the end he time for running for the wide, the amount of the sufficiently cooked, he time for running are guired before it is a ready for the grinder, the amount of the sufficient together, the amount of the sufficient demonstrates. From this know-ledge obtained in a creas why he concluded that it was not such a dif-ficult matter to make caster all. Important as all these things are

Important as all these things are in cheese-making they are only on the surface, as it were, of the busi-ness. It is a knowledge of the condi-tion of the milk and the curd at the different stages in the process, when the rennet is added, when the whey is not any the state of the state of the portant of a salting that is the im-portant of a santot be learned in a stay. In fact there are men, who have been making cheese for years, who Important as all these things are been making cheese for years, who have have not yet thoroughly learned the varied conditions affecting milk and have not yet introluginy issented the varied conditions affecting milk and curd, and have such a knowledge of the business as to do the right thing at the right time. A beginner can proper time to heat the milk to the proper time of the time of the the amount of rematic, to add the right amount of rematic, to add the right thing which our frict on the other things which our frict on the other things which our frict on the other things which our frict on the other thing and allowing an apprentice of even several months' standing to take charge of a vat of milk and run it through till ready for the press. It may be done occasionally. But the maker takes a great risk in so doing and is Hable to have some inferior cheese on his hands.

mention the name of this publication when writing to advertisers. District meetings were held during Be up-to-date. Renew your sub-

S°h below odor ward from deny up th the l down I d itely must had a break The leaver gethe and 1 wo troub For thoug Per is that Indee Throu surd. messe iewel devot ord o ter S prote there more. when them had r And does only thing week cordi Whis sophi thoug felt n ha agair ever -but it has Iv The worry when so lit all co had I got o





THEN we humor our weaknesses they force them selves continually upon our attention, like spoiled children. When we assert our mastery of our selves and compel its recognition, we stand secure in our sovereign rights. C. B. Newcomb



#### The Domestic Adventures By Joshua Daskam Bacon

hasse

thought.

face.

ble

my chest.

my brain : What was Sabina thinking

of, there in the study by herself? What was it that had shut us off from each other? Once or twice late-

ly, I had caught her looking at me

so intently, so doubtfully, but just as she might have spoken she had glanced away and the moment had

passed. What were Chloe and Mr. Ogden saying together in the living room? What was Maria meditating, racked

with the terrible headache that had drawn her face into those unmistak-able lines? Chloe had been right—it

was the lull before the tornado; was

the tornado passed, then, or would

she round out her experience and murder us in our beds that night? Had our humble bottle of cooking sherry been responsible?

"Choe foresaw it," I thought vag-uely; "she said Maria would kill us in our beds," and I knew my heart

was slowing, slowing, slowing, and that it would not start again.

"So people do die in nightmares, after all—I wonder if Mr. Ogden knows that?" was my last clear

"Wake up! Wake up! Wake up!"

A noisy bell clanged that in my ear A holsy ben changed that in my car -a bell, and yet it was a voice and poke, and had hands that pulled and lapped me, while it rang. My lungs stirred and a sharp pain

shot through my chest. Something cold and clammy wrapped around my

it stifled, but I protested weakly. I knew that I was dead, and that this was the judgment day, but I wanted to stay where I was; it was less trou-

"I didn't think it would be so rough," I thought, as the bell scolded and slapped me and the pain stabbed

that strengthened me even while

(Continued from last week)

Continued from last week) S<sup>0</sup> I have left them alone, and sat, for the dusk was chilly, and there with the subdued sound of voices below me on the porch, and a strong oddor of tobacco smole drifting down-ward through the hall-oh, yes, it is from Maria's room, it is useless to deny it! She dragged hereaf heavily up the statics an hour some ward heavily by brain. What was Sabina thinking up the stairs an hour ago, and I heard the bed creak as she flung herself down on it.

I do not seem able to decide definitely what to do; of course something must be done. But I am glad Chlos had such a nice luncheon before the break came

The late afternoon is chilly now; the The late atternoon is child now; int leaves and the dusk are falling to gether. My head really does ache, and I think I will take a little nap. I wonder if Maria's dreams are as troubled as mine will be.

For she is such a good servant-though she is so bad!

Perhaps the strangest thing of all is that I should still have this book. Indeed, I have very little else! Through all that wild, confused, un-Indeed, Through all that wild, contact, and believing night I clutched this ab-surd, fat account book; no king's messenger trusted with the crown messenger trusted with the crown jewels could have guarded them more devotedly than I this fragmentary record of our life here-my poor Charac-ter Study! Not that I intended to protect it so jealously, of course; there were a hundred things I needed more, a dozen things I wept over when I realized that I had neglected them in its favor. But at the time I had no choice.

had no choice. And yet, what does it matter? What does anything matter now? It was only a week ago, and it might have been centuries, life is such a different thing. If any one had told me, a week ago, that I should soon be re-cording the loss of my two new dresses, my mother's silver, and my Whistler ciching with such abile Whistler etching with such philo-sophical placidity, I should have thought that person mad; and yet I felt more miserable a week ago, when I had them, than I can ever feel again, I am sure. For now, what ever may happen to me, I shall know -but I must try and tell it all just as it happened.

I was not very happy last Sunday The excitement of the luncheon, the worry about Maria, the dread of hunting for someone to take her place, when I was conscious of never having so little interest to bring to the task all combined to verify the headache I had pleaded when I left Chloe; and I got out of my pretty new flock weari-v, slipped on a heavy bath wrapper, always known it, and was that what made him so white? He was pulling me to my feet. "Can you climb through the win dow out on the roof?" he said quick

this towel over your mouth." It was not Maria—it was a fireman.

The roof was dense with choking smoke; a confused clang and whistle and hiss, as of water on flames, deafened me Mr. Ogden jumped through the

window-his coat was off and his col lar was very soiled-and pulled me through after him. I had only one thand free to reach to him, for the other held fast to something that I felt that I must never give up, though

I was not quite sure what it was... "Here's the ladder," he called sud-denly. "Don't be all night with it down there! There's plenty of time" as he turned to me. "If a new sure of the s down there! I here a "Can you put as he turned to me. "Can you put your foot just there, and come down your foot just there, and come down where the second slowly after me? I'm you. Don't look down you. Don't look down please-just watch the top of the ladder."

I slipped over the edge, clumsily, I slipped over the edge, clumsily, because my left hand still grasped the thing I must be careful not to lose. But still I did not know what was.

It seemed to me that I travelled down that shaking ladder for hours. From time to time I heard an anxious voice behind me, as I stopped for breath

"That's good! That's it! Just a few more—you're doing finely!" At last I stepped into a cold pool of water that reached over my ankle, and I remembered that I had only knj: ed bed slippers on my feet. Somebody half carried me through a wet, chat Somebody tering crowd of strangers and seated me on a pile of Anne Stuyvesant's brocade pillows.

"Pretty close shave, eh?" a man beside me called out. "I didn't think you'd get her !" "Hush !" said Mr. Ogden angrily.

"They got the piano all right, I see," said the man, "and eight dining room chairs. Pretty good work, I call that, with the walls eaten through like they were. What was the matter with you all anyway? Wasn't you awake? Sunday's a bad day for a fire here, you know."

Suddenly everything cleared before me; I remembered perfectly. He and Chloe had been talking, talking, - I had dropped asleep to the steady murmur of their voices. No wonder they had not noticed the fire. The pain drove through my chest

"Mr. Ogden, where is Sabina?" emanded

He shok his head. I-I and't know!" he said. I gave one glance into the hissing,

blackened furnace behind me; the scurrying people were like dancing demons around it.

"There goes the roof—there she es!" cried the strange man."Whatgoes !"

goes1" cried the strange man. "What-ever's in there now, stays1" A roaring crash seemed to drown me, like dark waters, and I fainted for the first time in my life. Later--it might have been minutes or months--I was aware of a soft,

rumbling jar, a sense of motion, and quiet voices very near me. "It will be all right, I am sure," said one voice. "It is only the shock.

"It will do to the shows and one voice. "It is only the shows and the man said she was talking and the new up easily, and he saw her

21

and a was had sitting, had tying against her. "The trouble is, she is afraid of you!" "Of me? Impossible!" That was Mr. Van Ness. I could

not seem to move nor open my eyes, but I knew now where I was. I was propped against Sabina on the back seat of the English cart, and Mr. Van Ness must be leaning over toward us from the front, while he drove slowly

"You didn't tell her, then, this af-ternoon?"

I felt Sabina's head shake. "I couldn't," she murmured. "I can't seem to find a suitable opportunity "My dear Sabina! And you have

"That may be the reason." I ha never heard Sabina's voice so meek I have

"And I am to stay away indefinite-, then?"

ly, then?" "Oh, no! Oh, Hunter, I am so glad

The rumble stopped suddenly, at a soft word to the horses, and I felt that we were no longer moving. Something, someone, was bending over me.

'Be careful," Sabina breathed-but it was surely not her face, so close to mine?—"she is fast asleep!" 'Then why need I be careful?"

I tried to move, but warm rugs cov-ered me to the chin and weakness bound me hand and foot. Besides, I was crowded tightly against Sabina's shoulder as she leaned over me.

"It was ten days, my dear, ten long days." The whisper was close in my ear.

"But I wrote you every day !!"

I could not distinguish one whis-er from the other now. My head whiled. I knew that I must open my whirled. eyes or lose my consciousness again. Something that I clutched in my hand began to bruise it, and the hurt help-ed to awaken me. With a long began to bruse it, and the nut her net ed to awaken me. With a long breath I forced my eyes open and stared into the black sky sprinkled with stars.

We began to move slowly along a country road; I saw the arching trees. A broad, square-shouldered back rose straight before me, and I was no longer pressed against Sabina's longer shoulder.

"Are you better, dear?" Her voice was again the voice I knew, and was sure of. "This is Mr. Nose" Ness.

"I see," I said briefly.

"He-he drove over to call on us just before the fire was discovered, and-and I went with him for a little drive. So I was not there when it broke out so terribly." "I see," I said again.

And, indeed, I saw. All my past, blindness rolled away like mist before me, and in the light of my new knowledge everything perplexing in the last weeks fell into its simple place.

What a fool I had been ! Of course he would not marry Chloe-he did not want to. Perhaps he had never want-ed to. No wonder he had not come to see us when Solly was sick; Sabina was not there. He could see her in town. No wonder he had taken Pluto to drive-though I know he does not like dogs. And that was why he looked so earnestly from Sabina to me

me chest. "Give her the pail right in the face," said the bell gruffly, "and if she don't come round, we'll pass her out of the window-the stairs is no and neck, and spluttering, gasping, ther, really, "I am very glad." This was a man's voice. "She is a dear crea-man's voice. "She is a dear crea-man's voice. "She is a dear crea-ture-I have grown much attached to her, really, "I wish she reciprocated the attach-was killing me with snoke. But what -she was kill shy a bat-like hat on her head? Was she really a man--able my head must be Sabina's shoulder, you know him, really. I couldn't

seem to explain to you-you were so "Was I? I am sorry. I have al-ways admired him very much?" I

22

ways admired that the said wearily. ""Why don't I care more? It is the end of seven years," I thought, in a sort of dull amazement. am difficult. I

Sort of dun amazement. But, perhaps, I am difficult, I thought sadly; I was really very tired. "Where are we going, Sabina?" I whispered.

"Why, you know, my dear, there isn't any house," she told me gently, "It went like tinder—the walls must have been smouldering all the after-noon. Hunter has stationed half a noon. Hunter has stationed half a dozen men there to guard everything there is left, and we'll come over in the morning if you feel strong enough. We are going to his sister's. It is only nine now, and you can get a good night's rest and be well tak en care of."

"Oh, no. no!" I cried. "I can't go "Oh, no. no!" I cried. "I can't go there, Sabina-I don't want to! I mean I have only my bath robe!" mean I have only polite, but I had

It was not very police, but I had not strength enough for politeness; and the idea of that big, elaborate house, with its corridors of formal guest rooms, shock my last shred of elf-control.

"You go, Sabina, pray do, but don't take me!" I wailed. "Oh. don't!"

take me:" I waued. "On, don't !" But where will you go, my dear?" she asked patiently. "I particularly thought you wouldn't care for any of the neighbor's houses. Is there any quiet place you can think of where we could be comfortable?" There flashed into my mind the pic-ture of a clean and quiet kitches.

Incre flashed into my mind the pic-ture of a clean and quiet kitchen, bright, with a scoured, red-mouthed stove, fragrant of new bread, hospi-table and peaceful; through the open door I glimpsed the company bed, with a fringed counterpane, and the deen rocking, cheir actions. deep rocking chair and geranium pot beside it. It had been my refuge in more than one season of despair, that

little cottage on the outskirts of the village, and it would take me in now, "Ask him to drive to Mamie's aunt," I begged her, and there he drove.

She had just returned from the fire, and she had a cup of steaming, frag-rant tea for me and some buttered toast.

"It's me that thought you'd be along, miss," she said cheerfully, "She'll just know there's the loan of a bed ready for her, says I--and Miss Archbold, too, if she'll take the of it. Sabina hesitated, but I seized her

hand.

"Please go with Mr. Van Ness, Sa-bina," I begged her. "I am just where I want to be and— Oh, please go!'

She looked at me steadily a moment-was there pity in her hand some eyes?--then nodded her head.

some eyes — then noduce her head. "I don't think you could do better than stay, my dear," she said, m her competent, sagacious way. "And I'll come in early to-morrow. Ma mie's aunt will do everything — Good heavens, who is that !" 4. wild dicharald formed dashed

A wild, disheveled figure dashed into the little kitchen. Collarles, westless, grimy and black with smoke, Mr. Ogden turned his white face with its burned mustache to-ward Mamie's aunt. "Is she there? I ran all the way-nobody knew-ob, thank God!" he cried.

cried.

cried. It burst on me suddenly that I was responsible for her, and that he had taken it for granted that I had her with me-perhaps he had told her to stay b yme, and trusted her to do it. I got up, stumbling in m wet bed-room slinner.

slippers. room

"Chloe isn't here, Mr. Ogden," I said unsteadily. "I am afraid you lost her in helping me. But she is surely safe-she was on the piazza with you-"

"Oh, she's all right," he interrupt-ally irritably. "What happened to edly irritably. edly irritably." "What happened to you? You nearly frightened me to death! I thought." thought you might have one back into that.— Oh, I don't know what I thought?" He seized my wrists and pushed me back agints the wall. His face work. ed nervously. Something in his eyes made my heart beat to suffocation. "But Chloe," I repeated like a par-roy, "Chloe..."

His eyes frightened me.

"Will you stop muttering 'Chloe' at ne?" he stormed, shaking my wrists. You little idiot, don't you know it's you, you, you!" Nobody need try to tease me with

Nobody need try to tease me with descriptions of how stupidly I gazed at him; I knew at the time that my eyes were perfectly blank, though I really don't believe that my jaw drpped as they say. "Me?" I said vaguely. "Me?"

His eyes were too near; I could not

ee them. When I opened my own, we were When I opened my own, we were alone in the room I remember there, had been a quick rustle of skirts just before-before I shut them, and the sound of a closing door. But if Sa-bia and Mamie's aunt had foreseen what was about to happen, it was more than I had. You see it had never hapened to me before. lieve this, but oh, I am quite young enough to enjoy it! I think I shall never be so old that the memory of it

never be so old that the memory of it will not make me happy. "But, at the first-the very first, surely you came to see her?" He noded. "Why, yes," he sai' honestly, "she is an awfully jolly girl -l came to call. The way you go to call on girls, you know. She's cer-tainly a mighty entertaining young woman," he added reflectively. "But you-oh, you're different"

"But you-oh, you're different!" His eyes caught mine again, and again they frightened me (but this time I knew what would happen). (Concluded next week)

# The Upward Look The Need of Prayer

And it came to pass in those days that He went out into a mountain to pray and continued all night in prayer to God.—Luke 6, 12.

What a lesson we should draw from What a reason we should than those words. Not long since a young woman remarked to me that it must have been easy for the Lord not to sin. He was the Son of God and knew that He had been sent into the



Poor Little Children at the Day Nursery, Toronto

Four Little Unitaren at the Day hulsery, toronous The above Illustration shows a small group of little waik, brought into the Day Nursery at Toronto, to be cared for during the day, while bails others around seming what hey cn. The object of these day nurseries to mother around seming what hey cn. The object of these day nurseries to be their little ones: to who are obliged to work out, and have no place to leave their little ones: to who are obliged to work out, and have no place to leave their little ones: to be an early of the day of the day of the day ones. There are 326 wongen connected with this survey.

"Are ou going to say my mother?" he interrupted me quickly. "Because I am thirty-one, and I believe I was older than you when I was born! If you are not old enough to know when a man is head over ears in love with you-why, see here, I should never marry anybody else, if you were forty-four!" I may not be young enough to be-

ones There are 25% women connected with this nursery. It happened frequently just then, t world to be its Saviour. And yet what however, for, as Mr. Ogden explained to me, it was the only thing that of this scriptures teach wa? That Christ for his scriptures teach wa? That Christ we can be a scripture to the scriptures teach wa? "Wy, Sabina thought so?" I assur-if this so, now, does sh?" he in quired; and again I blushed, as wail, and again I blushed, as wail, and again I blushed, as wail, and again I blushed, as "In the moring, rising up a great wail, and again I blushed, as "In the moring, rising up a great "In the large and thirt-our if" I crist the solid core of the scriptures teach as the scriptures "In the large and thirt-our if" I crist the scripture and the scripture that so many of us are of this to take Christ felt the curse of this scripture that so many of us are of this to take that so market that, sometimes, the such an extent that, and the withe downer I the order that Homel needs where and be with His heavenly Father and be with His heavenly Father and he with His heavenly Father and the with His heavenly Father and be with His heavenly Father and he with His heavenly Father and he with His heavenly Father and heavenly Father the scripture the scripture the scriptures the scriptures the scriptures teach the scriptures the shorter hat His heavenly Father and heavenly Father the scriptures teach the scriptures the scriptures teach teach the scriptures teach teach

ter, we find that He "went up into a mountain to pray and as He prayed the fashion of His countenance was altered." We are told also, (Luke 22, 44) how "being in agony He prayed more earneally; and His sweat was as it were great drops of blood falling down to the ground."

as it were great does of blood falling down to the work of the second of the When we see how great was the dependence our Lord placed in this power of prayer, how He was in the habit of going off by Himself to be alone with God, and when we realize the effect that His prayers had on Him, that they altered the fashion of His countenance, we need not seek far to find the reason why our lives are not more fruitfal. We do not should. To rattle off a few petitions and jump into bed at night is not praying. Praying. We are apt to think that we are too

busy, that we have not time to pray as we should. That is where we make our great mistake. Were we to spend would lose their sting, that our view of Would lose their sting, that our view of life would be broadened, that we would become better masters of our impul-ses, that the fashion of our lives would be altered and that day by day we would become more like Christ.--I.H.N.

... Aunt Patty and Fireless

Cooking "Yes," and Annt Patty, as she laid down her knitting and pushed up her spectacles, which happened to be the wrong pair and disturbed her view of anything as far across the room, as the young minister had chosen to sti the young minister had chosen to sti one. He had chosen it deliberately, for he had something to tell her, the down. He had chosen it deliberately, for he had something to tell her, the very thought of which brought a warm color to his rather pale and studious countenance; and now Aunt Patty,

color to his rather pale and studious, countenance; and hour faiture faity, whose wandering ha.d h faiture fait, out the studies of the faith of the studies when ton, as was her wont, with the thing that had been in her winds as abo opened the door for him. "You ace, if it had been anybody "I the schoolmaster, I wouldn't have believed it, and if 1'd known he was carrying hay up to his room and hid-tag it under the bed, I will say I as the doctor. But he has, with a maybe have called him crazy, and maybe have called num crazy, and maybe have called num crazy, and maybe have called num crazy, and you won't minal experiment, and you won't minal experiment, and you won't minal path high," I azys.] "I it anything that high 'f' I azys.] "I it anything that high had better not be touched,' he say with had better not be touched,' he way have in makind of queer, and was of, but te our studien like the last one? It had better not be touched? he says, look-ing kind of queer, and was off, but he called back, 'I'll be down again in half on hour or so, to see if it's boil-ing.' Now, I don't meddle with folks' concerns in my house or out, and I was ready for most any kind of a expell you'd choose to mention, for his expell you'd choose to mention, for his expell you'd choose to mention, for his what was in a start of the county out'd muell from here to the county town, muell from here to the county town, the chick of it actually did smell like chick for it actually did smell like chick for it actually did from ever eating of a preserved from ever eating of a something else than what he called it, the says to source the same like the same the same the same his constrainty and the same his something else blessed thing in it was something else than what he called it, and says to myself. What smells like chicken most likely'll turn out, maybe, some kind of a tablet, or else gas and a bang just the way some of his things have dont."

of this world to such an extent that, shorten His hours of much needed alcep in order that He might with-shorten His hours of much needed alcep in order that He might with-draw himself from the anyon Him Yes; hard enough to fill the house and be with His heavenly Father alone in prayer. Much of Christ's carly life spent in prayer. In Luke 9. 18, we fructure on in the twenty-eighth and fuent in the twenty-eighth and twenty ninth verses of the same chap-

# Fel

chiel Patty but enou a for white eat t ete

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Patty a goo got a this time just ness, that eat a that a kir I ne wing just knew But like more " 'I wa but t It's a of n 'I wa the over more box till i the h or a 'Don' thous me a of su he w kind than he'd

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Contraction of the owner

chicken for supper, will you, Aunt Patty?' 'Don't you fool me,' I says; but he had the cover off, and sure enough it wasn't gas nor a tablet, but four-pounder or more, plump and hite, and smelling good enough to white. eat that minute.

" 'For the land's sake !' I said, 'who <sup>c1</sup> 'For the land's sake 'I said, 'who give it to you, and who cooked it for you, and who cooked it for you, and what's got mto you to be bringing home things to eat as it I skimped you? 'Yew skimp, Aunt Patty?' he says and laughed. 'That's a good one. I followed directions, and got an old hen that turns to a chicken this way of handling,' and by this time he had it out, legs and wings just falling off of it most for tenderness, and a lot of gravy in the bottom, that I took and thickened before we eat a bite, for we had baked potatoes that night, and baked potatoes and chicken gravy, if it's good, is fit for the start of the start over with moss, and then inside they put a bear's ham, maybe, or some ducks or a saddle of venison, and just leave it till morning, for there's wood chicken gravy, if it's good, is fit for a king. I was kind of suspicious, but I never eat a better flavored leg or a king. I never eat a better flavored leg or wing than he give me, and the breast just melting in your mouth, but who knew what stuff might be mixed in? But he eat along so easy and cheerful like seemed as if I oughtn't to be more particular than he was. guides that have told me that, and next morning the smell just makes your mouth water, and it's done to a turn. But you'll have to study it out for yourself, or you would if you was in his situation—promised, you know, and married most likely in the fall."

like seemed as if I oughtn't to be more particular than he was. ""By George" he said presently, T wasn't sure how it would turn out, but this beats anything I'd expected. It's a fact too,' and he took out a bit of newspaper from his pocketbook. I wan't sure, you know, but here's the direction, and you needn't stew over a hot storie in a dog days any box full of hay and start the thing till it boils, and then you pack it in the hay and just let it alone, all day or all night, or both if you liko'. 'Don't talk to me', I said, for really I thought he might be crass'. 'Come up-stairs', he'says, and he sort of pulled me along, for I held back, being kind of suppicous again, and wondering if he was going to be sick and so was kind of flighty. I thought so worse them ever when I as m's room, fot he'd his trunk in one corner and the things all out on the bed, that mostly things all out on the bed, that mostly he made himself. to save me trouble and it was full of hay, just as he had said, so that I sat down sudden, for he really must be out of his head.

"But there was the round hole in the hay where the pail had been, and the schoolmaster stood there laughing. 'It's a fact, Aunt Patty; no joke about it, and she's been trying it and sent me this newspaper slip that tells just how. That's the way we shall manage after a while when-we're married you

Allow me to say that I think that part of your paper in the Household Department which is advorted to the "Upward Look" is very fine. I find a great many conforting things in it and I always read every word of that column.—Mrs. J. McKay, York Co., Ont. after a while when—we're married you know. Do lots of things that way.' "Well, I couldn't believe it and wouldn't hardly, but next day he rigged up a covered box for me, and I started a piece of beef so tough I'd just given it up most, for we'd had

# Talks with Mothers

Are you sure you know where your boys are evenings—positively know, or just that they are "in the neighbor-hood somewhere?"

then the wires get crossed, and there

are all sorts of complications. Of course your girls are safely in-doors under the parental eyes, or properly perly chaperoned elsewhere; you would not dream of allowing them out after night had fallen; but "the "the boys can take care of themselves," you say. That is one of the greatest

lion on every street-corner seeking to devour her; but the boy, in many cases, is totally unarmed with advice dates, is totally unarried when add to do be the right nature and is sent out to do battle with the monster whose habitat is the corner and the loafing

place, in city, and country. Boys are not so quick to recognize wickedness as their sisters, and it soaks into them thoroughly and sur-ly, and sometimes a whole lifetime is insufficient to eradicate the harmful improssions received in childhood. Therefore, the mother's duty is as ab-solute to her son as to have dancher solute to her son as to her daughter, and does not end in simply providing him with food and an education, and

#### ...

The ignorance of young housekeep-ers has long been the subject of many jokes, but the matter is not humorous; it is very serious, as the trials and troubles in many otherwise happy households can testify. It may be an old-fashioned idea, but it is backed by the opinion of many husbands whose wives' helplessness has driven them almost to despair, that a co them atmost to despart has a co-oper-ative housekeeping plan should be established from the time the little daughter is able to walk. Let her have her little duties to attend to, from filling the salt cellars and unim-

Talks with Mothers she is called upon to go to market, or cook a dinner in her own home, her husband need not have any fears as to what will be set before his guests,

or as to the manner of its preparation. The mother who excuses the neglect of her daughter's education in house-hold duties on the ground that she "cannot afford to have her waste the food in learning to cook" forgets the possibility of future trouble for her daughter, who can afford it even less No matter how good the prospects of young people are when they begin housekeeping, unless the bride is able to study out for herself the best and to study out for herself the pest and most economical methods of "run-ning" her home, there will be waste, followed by discord, both of which could far better have been afforded by the experienced mother before the the experienced mother before the daughter left her father's roof, than

daughter left her father's roof, than by the young wife to whom the first years of married life mean so much. If the small daughter is taught from mere babyhood to hold herself res-ponsible for certain duties each day-from the putting away of toys to the cutting of tiny garments for dolls-ahe will soon learn to regard home duties as pleasures, and will uncon-soiously learn the best methods of working as the years go by, as that is working as the years go by, so that in time she will become a capable, prac-tical woman of whom her mother may be proud.

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# Take Care of the Boys

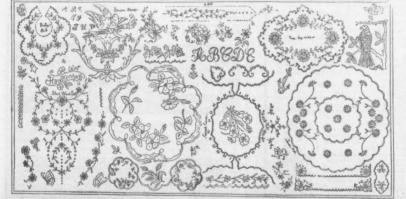
Every boy is a live wire that, un-iss properly insulated, will do mis-nief to himself and others. Even

you say. That is one of the greatest mistakes parents make. Your boys are as tender plants as your girls. The old ides that a daughter is more of a responsibility than a son is a more of a charge, for a girl is put on the defensive from the time she is born; she is made aware of the raging the new attendance making to place, in city, and country.

in sending him to Sunday school

#### **Training Daughters In House**hold Duties

portant dusting, up to the study of scientific cookery. Let the child pro-gress step by step through the culin-ary department, the management of



in whatever you want to after it's been started on a stove. Fireless ovens he went on telling me about

soapstone inside and felt outside, but law, I said, 'Our Indians know that, for they get stones red hot and then set 'em up like a box and cover 'em

Will you give me the written di tions" the young minister said.

should like to try the experiment or have it tried; and now he rose and

Aunt Patty faced him for a moment, then held out her hand.

"I was kind of ashamed," she said, "to think how I had run on, but now I don't care, for sure's you live you and the schoolmaster has the very

same reason for your experimenting There's always a woman somewheres at the bottom of everything."

"This woman is at the top," the young minister said firmly, and pulled

young minister said firmly, and pulled out a photograph case, framing a face that did not belie the words. "I came to tell you, Aunt Patty, for you've always mothered me, and I know you will be good to her when I bring her home." But Aunt Patty was erying a little, as was her way with very good net by you houghing also and holding "Shart her on that" whe said "Sha

'Start her on that," she said. "She

books like one that ought to have looks like one that ought to have things made easy for her, and, if hay-cooking ain't easy, why nothing is. The best of it is that it's tasty too, and you'll find it out."

...

ections

#### Art Embroidery

No. 571. Special Perforated Stamping Outfit. This splendid outfit consists of about fifty up-to-date and hand-some full-size designs, includ-ing a Shirt Waist, Corset ing a Shirt Watat, Corset Cover, Lingerie Hat, two Complete Alphabets (one 2¼, in. and one 1 in.), two Doi-lies (5¼ in.), two Doi-ness, in all the mo-dern styles of embreidery. The above desirns are perfordern styles of embroidery. The above designs are perfor-ated on a good quality of paper. We also include a cake each of the biles and white of the "Ideal," two Poncottes, and full directions for using the stamping pre-paration, at the special price of 75c for all.

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

24

# \* **THE COOK'S CORNER**

#### HAM OR MEAT ROLLS

BAR OF MART FULLS Make a rich pie crust, roll 'thin, cut in strips 3 in. wide and 4 in. long; spread with finely mineed boiled ham or meat, moisten with egg and milk, season to taste, and roll up like a jelly roll, pinching the edges together. Bake in hot oven 20 to 30 minutes. OREAMED BEEF

Cut left-over rare beef in small pieces and fry brown in a little lard or butter, then add some milk, thicken

Send in your favorite redges, for publication in this column. Inquiries per and salt, shape into flat little cakes, and fry brown on both sides in hot drippings over a hot fire. Put on sent free for two new Your You hour the part of the serve at another tions at \$1.00 each. Address. House bold Editor, this paper

MILK)

Mix together 1½ cups yellow corn meal and 1 cup finely chopped suet. Scald this with boiling water until it is as thick as a cake batter, then add 1 cup molasses, 1 cup flour sitted with transport & teaspoor sell I teaspoon cinnamon, ½ teaspoon salt and I teaspoon soda. Lastly, stir in I cup seeded raisins dredged with flour. Steam 3 hours.

MOLASSES PUDDING To 1 beaten egg add 1 cup milk in

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HARD TIMES PUDDING

To 1 cup cold water add 1 cup mo-lasses, 1 teaspon each salt and soda, and flour enough to make a batter. Steam 3 hours and serve with cream. LEMON BREAD PIE

Soak 1 pt. stale bread crumbs in milk, then add ½ cup cream, 1 cup sugar, 2 beaten eggs, and the juica and grated rind of 2 lemons. Bake in an under crust. SOUR CREAM RAISIN PIE

To 1 cup sour cream add 1 cup sugar, 1 egg, 1 cup seedéd raisins and 1 tablespoon flour, salt and spices to suit taste. Bake between two crusts. CRUST FOR ONE PIE

Work 1 heaping tablespoon cold lard and ½ teaspoon sait into 1 cup flour; then stir in cold water until you have a smooth, soft dough. NEW FLAKY PIE ORUST

NEW FLAKY PIE CRUST To 3 cups flour add, ½ tenspoon salt and 1 tenspoon baking powder, and chop in 1 cup lard. Into a cup break 1 egg, best thoroughly, and fill three-quarters full with old water. Add this to the flour and lard mis-ture, using more or less water as seems necessary. The dough should be as soft as can be handled and rolled, and the less handling it gets the better. the better.

#### PUMPKIN PIE

To 2 cups boiled and dry strained pumpkin add 34 cup sugar, 2 well-beaten eggs, 2 tablespoons molasses, tablespoon melted butter, ½ tea-spoon each ginger and cinnamon, small pinch of salt, and 2 cups milk. This is enough for two pies.

... **Our Big Four Offer** 

Our Big Four Offer Ture big four subscription offer on page 25 of this issue has proved to be one of the most popular subscription offers we have ever made. Hundreds of subscriptions for this offer have been received at our offee during the short period it has been out. We are sadvined, however, that the manage-ment of the Home Journal intends to enlarge and otherwise improve the Journal with the March issue, thereby messicating a slight increase in the property of the the sing Four' Combination offers we have the balance of February. Uneverselve the balance of February, the price of 17.0, The Sing Four' at the price of 17.0, The Sing Four' at the price of 17.0, The Sing Four' at the price of 17.0, The sing issue, and the new price will be how price of \$1.00 per year, for four of Canada's best agricultural and home magazines



A haud-embroidered corset cover is the desire of all women who dress from underneath rather than for ap-pearance only. The design No. 104 Illustrated below is a dainty and up-locate puttern, in the new French effect it is intended, for Eyrelet Em-broider the strended for Eyrelet Em-broider the strended for the strender The prices of the Performed Pattern,

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including Stamping Materials is 25c. Ideal Transfer Pattern, (the simplest hot iron transfer out), is 10c. Design Stamped on 1 yd. of good quality Lawn, is 45c. Twelve Skeins of White Utopia Silky Cotton is 25c extra.

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The baby kimona as hown is a sim-ple and graceful forget-me-not design, casily embroidered and the kimona will prove a much appreciated gift when finished. We would suggest us-ing solid French embroidery for the flowers and button-hole stitches for the seallop.



#### Baby's Kimona No. 102

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The price of the Perforated pattern, which can be used an unminide num-ber of times, with all necessary ma-terials for stamping is 26 cents. Transfer pattern 10 cents. Design stamped on Imported Linean is 50 cents. Twelve skeins of White Utopia otton for working is 25 cents extra. All above prices include matagen. postage.



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The plain shirt waist is one which waist is one which every woman needs. If it were cut from tucked material and made with the plain made with the plain aleves shown in the rear view it would take on an entirely different aspect. Material required for medium size is 3% yds 21 or 24, 2% yds 32 or 12, yds 44 in wide. The pattern is cut for a 32, 34, 35, 38, 40, 42, 44 and 46 in bust, and will be mailed cents.

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cents.



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ed. Material required for medium size is 5% yds 24, 4% yds 36 or 44 in wide, with

55 or 44 in wide, with 51/4 yds of insertion. The pattern is cut in three sizes, small 32 or 34, medium 3 or 39, and large, 40 or 42 in bust and will be mailed on receipt





There is no style of dress that suits girls more perfectly than the one in than the one in guimpe style. It is practical for the guimpes can be made from washable ma terial and in suffici terial and in suffici-ent numbers to mean frequent change, and every mother knows that it is the sleeves that soil and wear out, while the rest of the dream is more dream dress is in good con-

dress is in good con-dition. Material required for medium size (12 years) is 6¼ yds 24, 4½ yds 32 or 3% yds

472 yds 52 or 3% yds 44 in wide. The pattern is cut for girls of 8, 10, 12, and 14 yrs and will sept of 10 cents.



**PRINCESS APRON 6143** 

Toronto, Monday, Feb. 2, 1992.—There are signs of apring in trade drivets in \$55,0, while is claimed to be 60 a bbl. the increasing volume of orders being re-solved by wholesale houses. In grocer, is, in hardware, in paints and oils, better in parted. Travellers report Money keeps in good in the country, lie purposes and also for building and land investment. Call loans rule at about conta, and discounts at 6 to 7 per cent., regular loans at 6 to 7 per cent. MUEAT

#### WHEAT

Sent. and discounts at 6 to 7 per card. The present at the proper has related to a start hough cards are being marked. At the proper has related to the related has related

COARSE GRAINS The oat market continues firm and prices are steadily advancing. No export businems is being done as prices on this side are too high. The domand seems to side are too high. The domand seems to country lowns are asking for sup and Outario oats are quoted at Montreal at % to 496 and Manitoha at 49% to 59%, a bush. The market here is strong, though oats are being marketed al little though oats are being marketed al side and 496 to 596 a bush 40% to 60% out-side and 496 to 596 a bush 40% to 10% out-side and 496 to 596 a bush 40% to 10% out-side and 496 to 596 a bush 40% to 10% out-side and 496 to 596 a bush 40% to 10% out-side and 496 to 596 a bush 40% to 10% out-side and 496 to 596 a bush 40% to 10% out-side and 496 to 596 a bush 40% to 10% out-tide and 496 to 596 a bush 40% to 10% out-tide and 496 to 596 a bush 40% to 10% out-bush 40% to 50% out-tide and 496 to 596 a bush 40% to 10% to 10%

price of haled hay shipped these. The demand is reported fair for as how, and the English markets rule fairs start, Montreal quotations for baled hay is as to the arcs. No. 1, 811 to 811.00 to 810 Mo. 3, 88 to 89; elover binsed, 97 to 810 Mo. 3, 88 to 89; elover binsed, 97 to 810 Mo. 3, 88 to 89; elover binsed, 97 to 810 Mo. 3, 88 to 89; elover binsed, 97 to 810 Mo. 3, 88 to 89; elover to 816 for No. 1 timothy; inferior 89 to 810 and bale straw 85 to 10 87.00 at ton fine arr lots on track Toronto. De-ruide rather larmer' market here have thy hay sells at 812 to 813.0; mix-duo to 810.6; straw in bundles, 812 to 813. and loses straw, 87 to 88 a ton. POATOES AND BEANS

#### POTATOES AND BEANS

The potato market is firmer though there is no material change in quotations though Quebec potatoes are quoted at Montreal at 75c to 80c a bag in car lots. Ontarios at 75c to 80c a bag. et at 75c to 80c a bag. The bean market rules strong but trade

quiet as dealers do not feel inclined pay the prices shippers are asking. uppers in Western Ontario quote beans at \$1.85 a bush in car lots at Montreal, Dealers here quote beans at \$1.90 to \$2 for primes and \$2.10 to \$2.20 a bush. for hand picked.

#### EGGS AND POULTRY

EGGS AND POULTRY Eggs are beginning to arrive in larger quantities and prices are gradually get-ting lower. At Montreal 20 to 30 e a dox are the quotations for straight receipts of new laid and the indications are for low-er prices. Stocks of held eggs, however, are very light and if new laid do not ar-free in too large quantities present prices while yet. The minimum strained for a brought out larger receipts here and at the moment he market is easier, new laid being quoted at 27 to 30e and storage at 25 to 35e in case lots. On Toronto far-25c to 25c to 25c in case lots. On Toronto far. mers' market new laid sell at 30c to 35c

The dressed poultry trade is quiet Allo dressed pointry trade is quiet at steady prices. In a jobhing way, chick, ons sell at 14e to 15c; fowl, at 10e to 11c; and turkeys at 15e to 19c a 1b. dressed, On Toronto farmers' market dressed chick-ens sell at 15e to 13c; fowl at 12e to 13c, and turkeys at 22e to 25c a 1b.

#### DAIRY PRODUCTS

The cheese market continues firm and it looks now as if all the cheese made in 1906 will be wanted and more, too, before the make of 1909 begins to appear in mar-ketable quantities. Holders at Montreal ketable quantities. Holders at Montre are now asking 13 1.8c to 13 1.4c for fine colored, and 12 3.4c for finest whites. Ca adian cheese is quoted in England at 63s to 65s; New Zealand, 2s lower. Dealers here quote cheese to the trade at 13c to 13 14c for large and 13%c to 13 34c for

11 1-4e for large and 13% to 13 3-4e for twins. The builter market is not so strong as that of chesse. Choice grades of fail is a strong set of the strong set of the socks of creamery held at construction stocks of creamery held at construction stocks of creamery is reported at Mon-treal at 25c to 25c and fresh reseipts at 25c to 25c. Choice grades of builter are to a strong set of the strong set of the market is not expected to improve very much. Choice fail creamery is reported at Mon-treal at 25c to 25c and fresh reseipts at 25c to 25c. Choice grades of builter are to a strong set of the strong set of the firm. There such as market for these is firm. There such a binefind angle to 25c to choice dairy prints. 25c to 25c 25c; dairy tubs and large rolls at 20c to 25c; choice dairy prints. 25c to 27c and wholesale way. On Toronto farmers' mark work dairy prints sell at 25c to 27c and to 15c; and inter sell at 25c to 27c and to 15c; and

#### UNION STOCK YARDS HORSE EXCHANGE

EXCHANCE While the borse trade shows considera-tile activity, there is not much change in the activity, there is not much change in the activity. Here is not much change in the activity, there is not much change in the activity. Good, much like borses were stroken and the constant of the sympto-tic bein the most demand for the sympto-tic bein the most demand for the sympto-tic bein the most demand for the sympto-site and the sympto-set of the sympto-set of the sympto-set of the sympto-tic bigs, and sympto-bigs, sympto-tic bigs, and sympto-bigs, sympto-tic bigs, and sympto-bigs, sympto-bigs,

# UNION STOCK YARDS PRICES

West Toronto, Monday, Feb. 22.-There was a light run at the Union Stock Yards this morning and prices ruled



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steady with choice cattle higher. Choice export cattle sold up to \$5.69; export cows at \$4 to \$4.59; export bulls at \$4 to \$4.59; choice butchers' cattle sold as high as \$5 a cwt; medium, \$4 to \$4.59; heifers, \$3.75 to \$4.59; butchers' costs, at \$3.50 to \$4 a cwt; veal calves sold at \$5 to \$6.59; exewes at \$4.25 to \$4.50; rams at \$2.50 3.50 ;and lambs at \$5.50 to \$6.50 a port to 83.50 to 50.50 and lambs at 85.50 to 36.50 a owt. Hogs are scarce and packers con-not get all they want. They are quoted at 86.40 f. o. b. at country points, and at 86.65 fed and watered on the market here.—J. W. W.

#### THIS WEEK'S HOG PRICES

THIS WEEK'S HOG PRICES The Wm. Davies Co., Toronto, are not siving quotations this week for hogs. They explained to Farm and Davity that they did not know definitely what the price would be. They report a slight improve more the quality of the hogs coming and the start of the start of the start more still to many owned and but the that are not entiable for making the start of the start of the start of the totalled 4,000 hogs.

#### MONTREAL HOG MARKET

MONTREAL HOG MARKET Montreal, Saturday, Fohrungy 20.-The market for live hogs this week ordering and the difficulty of finding a buyer part prices current the previous week. The best price obtainable was in the neigh-borhood of \$72.5 a cwt. for selected loss weighted off cars. Towards the close of the week, however, the markets firmed up with a falling off in the supplies, and

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

YOUNG MARRIED ENGLISHMAN, ab-statiner, seeks situation. Used to market gardening. A. Waller, Ontario Gardens, Port Hope, Ont.

R. McGregor & Co., 99 Gladatone ave., Toronto

VANTED.-A good cheese or butter fac-tory to run this season. Fourteen years experience. Best of references. Box 181, Aylmer, Ont. WANTED.

\$550.00 BUYS CHEESE FACTORY. locality. Mile from station. Box 19 dian River, Ont. E-2 Good x 19, In-E-2-10-09

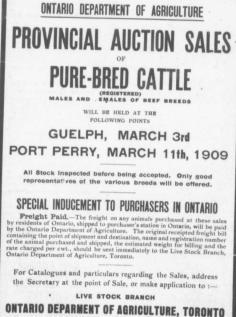
CREAMERY WANTED-To buy a small creamery in a town or village in West-ern Ontario. State full particulars and lowest price. Address, Box "E," Farm and Dairy.

OSITION WANTED. - By first class creamery manager. Eight years experi-ence. Won over \$200 in prize money one season. References furnished. Apply to Box 95, Kingston Station, Nova Scotia. POSITION

RHODE ISLAND REDS, Single and Rose Comb. Single Comb Black Minorcas: cockerels from prise winning and im-ported stock; \$150 and \$2.00. Write Rob-ert J. Logan, North Glanford, Ont.

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

BARED PLYMOUTH ROCKS exclusively, At Toronto Industrial and Western Fuit, London, my females won more firsts than all other exhibitors combined Colore stock for asle; eggs in season. Let me know your wants. Lealle Kerns, Freeman, Out.



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

dealers were able to get as high as \$7.50 a in se

wt, in some cases. The market for dressed hogs closed firm and prices were maintained at the high level reached last week, viz., \$10 to \$10.50 a cwt. for fresh-killed abattoir stock; Manitoba dressed, \$9,50 to \$9,57, and country dressed at \$8,50 to \$9,50 a

#### PETERBORO HOG MARKET

PITERBORO HOG MARKET Peterboro, Peb. 21, 1950-The delivery of hogs on the local markets last week was very light. Danish deliveries on the Eng-lish market last week were 42,000. The de-mand for bacon in England is very weak. The George Matthews Co. quote the following prices for this weighted of cars, 5475 a cost, delivered at abattoir, 5559 a cwt. 14/05 ETOCH

#### LIVE STOCK

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The export trade has ruled a little quiet. The export trade has rules a little query, though if enough of the right quality was offering the market would be brisker. The top price quoted on Thursday was \$5.35 and down to \$5.10 a cwt. Better quality and bring bighter prices Front build would bring higher prices. Export bulls sold at \$4 to \$4.25 for the bulk with a few of the better quality selling at \$4.40 a

Some exporters were bought for butchers at \$5.15 to \$5.35. The ruling quotations for straight butchers' stock are: Picked butchers', \$4.60 to \$4.80; good eattle, for \$4.15 to \$4.55; cows, \$3.50 to \$4.25; canners



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and March

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sire, head of herd. Come and see t

the outside. Calves sold firmer on Thursday than earlier in the week, especially for the best vealers. Prices ranged from \$3 to \$7

a evi. Lambs were casiser and were quoted slow of sale on Thursday at 8530 to 8537 a cwt. Dealers are expecting a lower market still. This week export aber are quoted at 84 to 850 and rams were quoted at 84 to 850 per ext. Hors rule stated is to 8750 per ext. Hors rule stated is to 8750 per ext. Hors rule and 85.05 to 8540 fo.0, at country points. The Trade Bulletin's Lon-

(Continued on page 30)

ROCK SALT for Horses and cattle, in tons and

GEO. JACKSON, Auctioneer. Live stock a specialty. Address Port Perry. 'Phone 31

For Farms, Houses, Lots

CONSULT BELL AND TAYLOR

carloads.

376 Water Street

Toronto Salt Works. Toronto.

Peterboro

HOLSTEINS

GORDON H. MANHARD

SUNNYDALE HOLSTEINS Book your order now for grandsons and daughters Pieterije Hengerveld, Count DeKod, champion daplecroft heads our herd, and is halfformervel jarah I ewel Hengerveld, who with her daughter strah Jewel Hengerveld, was rocently sold by Brown Hros, of Lyn for §4,000, Write for prices and Brown Bros, of Lyn for §4,000, Write for prices and trong thacking calves to be dropped during February

LYNDALE HOLSTEINS

dam was recently sold for \$2,050, his 3 nearest dams average 29,13 lbs. butter each in 7 days. Only 2 of his sons left. We still have a few sons of Count DeKol Petertie Paul, and a number of Heifers for sale. e-1-37 10

BROWN BROS, LYN, ONT.

SPRINGBROOK HOLSTEINS

AND TAMWORTHS

HOME-BRED AND IMPORTED

HOLSTEINS

Putnam Stn., 1% miles-C. P. R. E-4-8-09

32 Choice Young Tamworths, from ported sows and sired by imported Kno King David. A few rich bred Holas buils and several females. Bargains quick buyers.

A. D. FOSTER, Bloomfield, Ont.

ad your Heid with a son o Hengerveld Korndyke whose was recently sold for \$2,000

A. C. HALLMAN,

We must sell at least as cows and heifers at once, to make room for the natural increase of our herd. This is a chance of a lifetime to get a good bargain; we also have a few young bulls. Pontiac Hermes, Imp., son of Hendrevel DeKol, world's greatest

H. E. GEORGE, CRAMPTON, ONT



0-5-19-09

#### SUNNYSIDE AYRSHIRES

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

J. W. LOGAN, Howick Station, Que.

97

AYRSHIRES FOR SALE

A fine lot of young bulls and calves; also the famous stock bull, "Not Likely of Ste. Annes, 19740." Come and see his off-spring. Also Shetland ponies and Yorkspring. Al shire pigs.

### D. BODDEN, Manager,

Riverside Farm, Montebello, Que. Owens, proprietor. 0-6-16-09 Hon. W. Owens, proprietor.

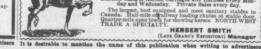


#### BURNSIDE AYRSHIRES

The rein such demand will make another importation, the rein such demand will make another importation, the such as the such as the such as the such as the nowned Barcheskie Herd of all the such as the choic exit Ayrahires ever offered will be sold. Orders en-trusted to me will be carefully attended to. Take advantage of this great sale and replensib with a satisfaction guaranteed. **B B Mercel** satisfaction guaranteed, E-9-15-09 R. R. NESS, Howick, Que

#### HUME FARM AYRSHIRES

On hand young buils for service. Sev-eral very choice August, 1908, also heffers in call, young cows, and cows any desired ass. Pamily cown a specialty. Orders porting Ayrchires sollings, orders for im-porting Ayrchires sollings, order for im-sidence. Hoards Station, G. T. H.



28

-----**OUR FARMERS' CLUB** +888 Contributions Invited. 

### NOVA SCOTIA

NOVA SCOTIA ATIGONISH CO, N. S. AWTIGONISHI-Wo have had a very fine winter: splendid hauting up till Feb 10, when a heavy rain broke up the reads. Most of our framers have their year's sup-ply of wood hauled. A number of our young men have returned from Trucy, where they have been taking in the short course at the Agricultural College. An automation of over 250, including about 56 administration of the Agricultural seed fair which is to be held on Feb 3, under the auspices of the Antigonist County Famers' Association.-Tom Brown. KING'S CO. N. S.

County Farmers' Association—Tom Brown. County Farmers' Association—Tom Brown. WATERVILLE—Farmers are spiting more plentiful and have dropped from 26 to 25. Hutter sells for 22: pork, 146 to 16: hay, 810 aton; hides, 86 a b; corn-meal, 810; linseed, 81.65; cordwood, 84.25 a cord for dry wood and 84 for green, but a almost a dollar of the country wood is almost a dollar of the English markets but prices have deelined slightly. There has been good is deding for about a fortuight; but a heavy rain with south whow The the count of the roads were favorable the teams were kept basy hau-ing long, starwood, hoog poles and free low. Tavination the cashs were kept busy muti-ing logs, stare wood, hoop poles and fire-wood. Chopping is the chief occupation out of doors. Indoors the farmers are studying catalogues, and making inquir-ies with regard to the "hired man" for the coming season.—Eunice Watts.

#### QUEBEC

#### RICHMOND CO., QUE.

DANVILLE.-The Shipton creamery is running this winter and is getting more ream than was expected. Owing to the cream that was expand a getting more cream that was expand is getting more feed shortage and the high priods of feed shortage and the high priods at fair prices. Dressed pork from nice pigs is selling at 10e a 1b. The supply is not equal to the demand and our village pork. Mike issues sending to Montreal for pork. Mike issues sending to Montreal for pork. Mike issues are the in harmile at 56 at paid for milk in this township. Good birch logs are see ling at 314 a 1000 feet, Government scale-J. E. H. ONTARIO

#### ONTARIO

HASTINGS CO., ONT.

HASTINGS CO. ONT. THE BIDGE-Our inclory settled up with the stockholders inclory settled up bec. fils. Everyone me the summer's make of cheese. It seems that we are going to lose our genial cheese maker, as he has bought some that we are going to lose int. Feed seems to be set sorry to lose him. Feed seems to be avelowed to be here. Seed seems to be the sort of some for good sleighting, and the water is coming up in all the springs and little creeks around so there will be as scarcity of water for cattle sprin will be no scarcity of water for cattle -A. B. C.

SIDNEY CROSSING .- The land has been exposed to the frost pretty well all win-ter, the frost has gone well into it, thus tor, the frost has gone well into it, thus insuring good crops next year, weather conditions being favorable. Fall grain and meadows are all right yet. We have little to fear from this condition of spring. Hay solution for 51 and 54. Pork has made a marked advance, live hogs



selling at \$7, and \$9.59 dressed. Strictly fresh eggs are 25 to 30c. Apples are scare and sell for 20 to 40c a peck, Spise \$450 ab.). Clover seed (red) from \$6 to \$7; alake, \$5 to \$6; barley, \$60; corn, \$6c; to \$60; able, \$50 able, able, \$100; po-tators, 76 to 80c a hug. Chand. \$00; po-tators, 76 to 80c a hug. \$00; po-tators, 80; po-stators, 80; po-stators, 80; po-tators, 80; po-ta scarce. Sales are very plentiful and stock sells well. Horses bring good prices and are scarce.-J. K.

and are scarce.-J. K. DURIAM Co., ONT. SOLINA. - Winter is rapidly wearing away and is smiling upon the farmer with pleasant days. The stock is sconing through in good shape so tar, although many of the farmers have nearly finished feeding their turnips, which were a poor erop of had quality. Prices for all kinds of stock appear to be good and are likely to advance. There seems to be a good demaid for first class heavy horses and To advant quality. Prices for all kinds by a datance. The be good and are likely to advance. The be good and are likely demand for first class heaving be a sood demand for first class heaving be a sood many good butcher's cattle being fed. After the record sales of shorthorns in Toronto local breeders are at hitle more sanguine. Good seed grain is much in de-mand but scarce, owing to the short crop of last year. This, combined with the low price of red clover seed, is some-what of a disappointment to seed grow-ers-J. B.

## PETERBORO CO., ONT. LASSWADE, - Wells, streams

PETERBORO CO., ONT. LASSWADE. — Wells, streams, swamps and markhes are all flooded since the last weather which has prosone swerre cold weather which has prosone swerre cold undermen. Lumbering is becoming. There has been a great demand for beet which is very serve. Feed for atock is plenti-shout slit to slit a ton-H is very high, about slit to slit a ton-H is very.

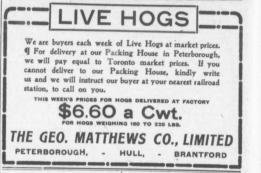
off in any way-B. W. H. WELLINGTON CO. ONT. LIVING SPRINGS-Some people will soon be preparing to movy Grain here is a good price, as really good frain was earce last fail. Hay, being of print was not a very good price. Some of our roles are bors are getting a hay press ansate commending to bale the hay-A. M.

commencing to bale the hay.—A. M. BELWOOD.—Some of the farmers are getting out their winter's wood Many have been getting it out with circular awa. Before the recent thaw water was very scarce some having to drive their cattle to the river, others taking a theher's takk and drawing water from the river and emptying it into their welle.—J. H.

the river and emplying it into their wellar-J. II. BRANT CO, ONT. BRANT CO, ONT. Standard Co, ONT. Sta

oream sent to the factory-L. T. OLOPTORD CO., ONTORD CO. ON Itic meeting recently. It was well ast-tended. We had good speakers, and it was very interesting to have them. They was very interesting to have them. They bush: butter sell well. When it is it a bush: butter sell well. Wings have sold high all winter.-A. M. M.

MIDDLESEX CO. 087. TEMPO.-Your poultry number was a good one, and gave such plain instruc-tions which if followed out, must increase the ege and poultry output wonderfully. The very solution in the sum of Parm and Dairy came, areas inc. A firm nearby who have for years bred splendid horses, have MIDDLESEX CO., ONT.



had the misfortune to lose four fine young horses, and have four others still site. The cause, so the vet says, is from, so the state of the state of the state trought of the state of the state of the state recent state of the state of the state of the state acts similar to wood alcohol, and is fatal. -J. E. O.

held similar to wood alcoho, and is baan, -J, E. O. CALDER.-I had the pleasure of driving around in this part recently. On every have the words signs of prosperity, and the second second second second second parations were being made to widd par-parations were being made in the frame of the probability of the second second second second the line, the principal heads of the herds weighting over a ton. In all the stabilse visited a number of steers were being when the farm of Wm Market. I as although late in February they appeared spren and nice, and more line June. Every drill mark and furrow, seemingly, had been placed there by a carpiter's line. On may of the farm 1 saw handsome flocks of alkey; the Biopolities appear to yredomity. LAMEDON Co., OAT.

#### LAMBTON CO., ONT.

LAMBION CO., UNT. WYOMING.-Feed is quite plentiful. First lass hay can be produred at \$8 a ton. Joarse grains and mill feeds are firm in price. Many farmers do not favor the dea of raising pork at the present prices for the present prices. idea of raising pork at the present prices of grain. Butcher' cattle are very scarce, costing the butcher over \$7 a cwt. Young pies are not pointiful; the result will be the scarce of the scarce of the scarce of the scarce in good demand; lick Heavy horses are duil. The great need in the level, for tile country is underdrainage. There are Millarville, Alta, Can.

yet thousands of acres of drowned partly drowned crops yearly-D. N. A

partly drowned crops yearly.-D. N. A. BRUGE Co. ONT. ULUSY.-Clover is suffering from the constant freezening and thaving. Grass cat-lle seem to be scares. A number of the were browness of particing cat-acreage for spring crops that fail. The acreage for spring crops that fail. The acreage for spring crops that states the acreage for spring crops with us last year, and a good part of the sold broken will were a favorable crop with us last year, and a good part of the sold broken will part in parts of the sold broken will be the solution of the solution of the base better than that of fail wheat--J. M. GOSSN P

#### GOSSIP IMPORTANT TO BREEDERS

INPOBTANT TO BREEDERS George Rice of Thild stars, of Holstein-Friestan cattle fame, fame, of Holstein-from business, and take a long read-rest. Mr. Rice has secured a piece of property in Tillsonburg. on a beautiful elevation overlooking the lake, and pur-poses building a new home. On March til and E next, Mr. Rice will offer all his hor sale. This will not farm implements for sale. This will not farm implements boyens from all parts of Canada and the United States, Mr. Rice having a contin-ental reputation as a breeder of pure-breed quarts.



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## **HOLSTEIN FRIESIAN NEWS**

The Canadian Dairyman and Farming World is the official organ of The Canadian Hoistein-Friedian Association, all of whose members are readers of the paper. Mem-bers of the Association are invited to send items of interest to Hol-stein breeders for publication in this column.

Copies of the photograph taken at the banquet of the Holstein-Friesian Associa-tion, held in Toronto on Feb. 4th, and which was reproduced in our issue of Feb. 11th, may be had from the photog-rapher, Mr. Galbraith, Yonge street, Torrapher, Mr. Ga onto, for \$1.00.

BULL TRANSFERS FOR JANUARY, 1989. The publication of these transfers is a for by the Holstein Friesian Breeders' sociation

Abbekerk Sam, A. R. Hulet to Ira Tis-Ont. dale. Norwich.

Acme Rooker, Legan Bros., to W. V Darling, Jubilee, N. B.

Action Rooker, Logan Bros. to W. V. Darling, Johles, N. E. Admina Bonerges A., Ford Bell to R. H. Molphanovan's Pride, Henry Cooper to Raymond Allson, Adolphustown, Ont. Alexis De Kol ?ad, James Connolly to John W. Elliott, MacLeod, Alta. Amos Rooker, Logan Roros, to W. Le Roy, Ferguson, Sussex, N. B. Beauty of Evergreen's Boy, J. C. Jakes to John Eligh, Kemptville, Ont. Dalher, Haurr, Raymark, Ont. Benheur Wayne, Charles W. Sumner to Oyrus H. Sumner, Ealing, Ost. Bonny Brook De Kol, Thomas Prouse to George Book, Derehan Centre, Ont.

Bonny Brook De Kol, Thomas Prouse to George Book, Dereham Centre, Ont. Broadview Sir Posch, Thomas Black to M. Cook, Auisville, Ont. Captain Watts Rus, John Hopps to John Farell, Stirling, Ont. Champion De Kol, C. S. Zehr to Nicho-las Steckly, Wellesley, Ont. Ultara C's. De Kol Prince, Parnham Al-Horar C's. De Kol Prince, Parnham Al-Ultaro De Kol, Koy, Josef Ballard to Fred Ladiaw, Westport Oat.

Maj. E. Ralmas, Norwich "T. M. Moore, Springfield "E. J. House, Tillsonburg

Clothilde Posch, L. Abbott to Donald F mith, Camlachie, Ont.

Smith. Construct, i. Autoutt to Jonald F. Cobequid Silve Construction of the Construction Wm. J. Unler, Grand Bay, N. B. Count Calantity May, B. Mallory to Al-lan Lealle, Trenton, Ont. Count of Holon, Wm. H. King to Eli-jah Darham, Smithville, Ont. Grown Prince De Kolf, R. A. Gillespie to John Stercail, Riceville, Ont. Crown Prince De Kolf, R. A. Gillespie to John Stercail, Riceville, Ont. Data Sylvia King, W. H. Hawse to Jac-ob Chapman, Plum Hollow, Ont. Data, Pan, Ont.

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Alight Construction of the second 8

## FARM AND DAIRY (Formerly The Canadian Dairyman and Farming World.)

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maxio De Kol's Paul Stanley, J. H. Tay-tor to James Kadić, Oakiand, Ont. Mink De Kol Prince, Robt, Stillmann to Prederick Waters, Gamphellford, Ont. Modest Duke of Hillside, D. D. Kitchen io Robert Sinclair, Bradahaw, Ont. Modest Maiden 3rd's De Kol, Munroe Pure Milk Co. to John Oughton, Stone-ral, Man.

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AYRSHIRE AND HOLSTEIN SALE

AYRSHIRE AND HOLSTEIN SALE Ed. Farm and Dairy-Regarding the Ayrahires in my forthcoming sale, March 1th and 12th, the great cow Jean Ar-mour won first prize in the Provincial Dairy Test at Guelph, in Dec., 1997. She freshneed again on Dec. 13, 1998, and has the mean the CD Has mills a day. 459 lbs. bits sum and, the great cow Jean Ar-bits sum and, the great cow Jean Ar-Dairy Test at Guelph, in Dec., 199, 3he reshened again on Dec. 13, 199, and has given up to 70 lbs. milk acad. The sum of sum of the sum of the sum of the sum of sum of the sum of the sum of the sum of sum of the sum of the sum of the sum of sum of the sum of the sum of the sum of sum of the sum of the sum of the sum of sum of sum of the sum of the sum of the sum of sum of sum of the sum of the sum of the sum of sum of sum of the sum of the sum of the sum of sum of sum of the sum of the sum of the sum of sum of sum of sum of the sum of the sum of the sum of sum of sum of the sum of the sum of the sum of sum of sum of the sum of the sum of the sum of su

herd.-Calved Dec. 13, 1908. Then there is Annie Laurie 2nd that was just close up to Jean Armour in the was just close up to Jean Armo and that public test two paras ago. She has tas-lately freshened and is now giving nearly 60 lbs, milk a day. She is also sired by Bobs, and her dam of Sarah. Is also sired by Bobs, and her dam of Sarah. Day the dam of Sarah, the dam of Sarah, the dam of Sarah 2014 and 100 lbs own, 5 and 5 ware two daughters of rash own, 5 and 5 ware two daughters for asle of Annie Laurie 2nds, and there are two cows, 5 and 5 ware old, daughters of frast burns, public test 1993 the milk, and 460 lbs. butter fat. These Ayrahires have all good sized test and are workers from the word, "Go," keeping it up well during the season.

Some great work is being done by mem-bers of the Holsteins and their ancestors bers of the Holteins and their ancestors in this sails. In fact we have had to telephone the printers twice to change figures of those in recent tests. A great foltein helfer that will be in this sale is the two year old Baronese Ladoga Vee-man, due to freshen in April, bred to Paladin Ormsby (of Mr. W. A. Matte-son's breeding.) This helfer, B. L. V., has for dam be Kol Paul Baronese Ladoga vee bas for the Kol Paul Baronese Ladoga versor in 7 days. 37.1 Burnese Ladoga a she has in a test made at 4 years old a trecord in 7 days. 37.1 Bur, fat and her March at 6 years did 24.63 lbs fat-that whore two erreat dams behind this helfer March at 6 years old 2463 lbs. fat-that shows two great dams behind this helfer. Her sire is King Veenan De Kol whose dam Jessie Veenan A., official 7 day test, 2099 lbs. fat. and his sire, Paul De Kol Jard's dam. Salie Vale Concordia's record is 24,500 lbs. fat. It will be seen that the four nearest dams of this two year old helfer in the sale average 23.5 lbs. butter J. Werk (M nevent fat) and use however. a week (30 per cent. fat), and we have sev-eral more in the sale aired by King Vee-man De Kol, closely related on the dam's ide to these great cows.

ide to these great cows. One of them, in fact, idaline Pauline De Kol has given official test 50 bbs. of milk a tax, 2478 bbs. butter in 7 days, and a son of hera, 15 months old, sired by King Veeman De Kol, and one of her helfers. 3 months old sired by Prince Beauty Pie-tector flattog, where dam is the world's veet of the site of the base of the veet of the site of the base of the south the site of the base of the south the site of the base of the based things in this sale. There of the stock favoure and in great conditions the stock is young and in great condition. One hundred head and all good. Cata-logues will be ready about Feb. 25th, and togues will be ready about Feb. 25th, and will give the records up to sending copy 'o the printers. Many more good records have just been made, and will be made up to day of sale. These will be an-nounced at the sale. The cattle are bred to "do things."-George Rice, Tillsonburg.

#### 100 Registered Holsteins and Ayrshires 100, 20 Brood Sows and 20 Shoats, 2 Boars, heavy and light horses, farm machinery, etc. Absolutely everything goes as the owner is retiring

**Great Dispersion Sale** 

At Annandale Stock Farm

ON THURSDAY AND FRIDAY, MARCH 11 AND 12, 1909

Absolutely everything goes as the owner is returns: THE HOLSFIENS. — There is one daughter of Glamity Jane, one daughter of Glamity Jane ind. 20 of the get of Prince Posch Calamity, son of Calamity Jane, 53: 1be butter week's test; sire's dam Mata Posch, 27: 1bs. (world's re-cord for two year old): 7 of the get of King Veeman A. (252 bb.) sire's dam Sately and the great or 20 be. In 7 day's test. The catalogue will show that the blood of the greatest performers is the A.R. with large records. In dailine Pauline Do Kol, 903 bbs. milk in 1 day: 535.6 b, 7 days, will be soil: a son and daughters of here, and several closely related, and many other great breeding: And "Jadim Paul Veeman", whose three nearest dam sor their get and coves with Galf to their service.

their get and cows with call to their service. AYRSHIRES include the grean public test cows Jean Armour and Annie Laurie 2nd, their sons and daughters. There will be 13 Ayrahire cows and all that are in mik are quieted in the fostion whose dam's record is 12733 like milk in 10 months and of Stadacoms Advancer whose dam's record is 12733 like milk in 10 months and of Stadacoms Advancer whose dam's record is 12737 milk in one year. He will be about them others. Catalogue tells all about them

THE HORSES include a Clyde mare, 8 years old, weight 1710 lbs. with foal ; an of Hackneys, two and three years old, A1 work horses, used to 3 and

4 horse hitches.
ALL THE FARM MACHINERY. Polato cutter, planter, sorter, sprayer and digger, upright boiler, 6 H.P. two grain choppers, having and grain harvesting machinery for fast work and labor awing implements, 5 and four horse hitches; seed corn, seed potatoes, clover seed. Everything, in fact, for use on a large up-loading farm. Ameeting will be held in the opera house nights of the sale addressed by able speakers. The mayor and a committee of clibers will look after your confort.
TERMS.—Time up to one year to sail purchaser, on approved notes bearing the providence of the sale addressed by able speakers. The mayor and a committee of clibers will look after your confort.
TERMS.—Time up to one year to sail purchaser, on approved notes bearing the providence at 1 p.m. that Mark. Cattle will be sold on the 12th; everything else on the 11th if possible.
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LIVE STOCK (Continued from page 7) don cable of Peb. B quotes bacon as foil was 'Market is quice with prices about a sa has quoted. Canadian, 58 to 58...' EXPORT BUTTER AND CHEESE Montreal, Saturday, Feb. 9...-The cheese ima and the stock of unsoid che appendix ima ranket a guide with official and the stock of unsoid che appendix table is gradually dwindling away, Mail ad

The butter market has steadied itself somewhat since the recent decline in prices, and there has been no downward movement to note. There seems to be a movement to note, taken to have prices asked and this seems to be maintaining the market at present. Prices are likely the market at servent. Prices are likely a week or two provided there is no tol-ing off in the present demand, or a mod-den increase in the receipts from the

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



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

certain acid test. The acids used for this purpose are strong enough to burn the skin off a man's hand, and yet the galvanizing must be heavy enough to withstand their action for a definite period. Exposure to wind, rain and snow for a quarter of a century is much less destructive than this acid test. Yet every Safe Lock shingle is gnar-anteed to meet the Government requires

anteed to meet the Government requirement in this and all other respects. No wonder that those who have used Safe Lock Shingles declare that they

will last as long as the buildings they protect

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

sides are not Safe Lock Shingles. Again: Safe Lock Shingles are the

Again: Safe Lock Shingles are the only shingles that completely protect the roofing nails from weather. —The only shingles that have three thicknesses of steel along the upper edge of lock, thereby doubling the strength along the line of greatest strein strain

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

to proper size for Safe Lock Shingles. -The only shingle with galvanized edges

The only shingle sold with a The only shringle sola with a post-tive protective guaranty against light-ning, backed up by a free insurance policy signed and scaled by the manu-facturers, the Metal Shingle & Siding Company, a \$200,000.00 Canadian cororation.

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

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

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

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

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

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

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

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Shingle.

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

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

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

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

and satisfied that I juit on a good roof.<sup>25</sup> W. J. McPHERSON, Berryton, Ont.<sup>247</sup> The 'Safe Lock' Shingles that I purchased from you ten years ago have given splendid satisfac-tion. The roof has never leaked a drop, and they seem to be just as good as the day they were put on.<sup>27</sup>

good as the day they were put on.'' J. C. PAYNE, Cayuga, Ont...''It must be ten years now since I bought the metal 'Baft Lock' Shingles, and up to this time I have no reason to regret their purchase. We have had wooden roofs put on since which are open in spots from the splitting and shrinkage of shingles. No differently, so far as I have noticed at least, has arisen with your Metal Shingles, and the roof seems compact and durable. So far as I have been able to see, I have seem no wear or injury to the shingle during the ten years' use, and cannot see but that the roof is just as good as when it went on.'' MUEDOCK MCKENNEL. Easy Line. Ont...(The 15.66, Lock'

<sup>100</sup> B just as good as when it went on." MURDOCK McKENZHE, Bear Line, Ont.—"The 'Safe Lock' Shingles have never given me any trouble, and they appear to be as good to-day as the day 1 put them on. I am well satisfied with them, as I believe them to be the best roofing that can be used on bara building."

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

MRS. JAMES STEWART, Pendleton, Ont .- "In reply to your MICS. JAMES OF DWART, FUNCTION, SHOW YOU WE WE WERE AGO. letter asking about shingles I hought from you over five years ago. I looked the roof all over to-day, and they seem to be in as good condition as when they were put on the roof. The shingles don't seem to be any the worse for wear, and they will last for years."

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

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Give length of roof along		Safe Lock Lightning	th about Roofing. Insurance Policy.	" with fuli particulars of
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FARM AND DAIRY (Permerly The Canadian Dairyman Sebruary 25, 1909).

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MO 321-3 February 25, 1909.

# The Right Kind of a Roof



Long years before you could find a sign of wear-out about an "Oshawa". shingled roof, any wood-shin-gled roof would be rotted to dust. Any ordinary metal - shingle roof would be pitted with thou-

sands of rust holes. Any patent paper-and-tar roof would be ragged pulp. Even a slate roof would be dangerously out of repair-

Long, long before any "Oshawa"-shingled roof needed a single thing done to it.

Because, as you can easily see for yourself, there is simply nothing TO year out about a shin-

gle of heavy (28-gauge) toughened steel, special galvanized to defy



moisture — "Oshawa" Galvanized Steel Shingles are like that.

We are safe enough in guaranteeing these shingles for twenty-five years, as we do, in plain English, with a quartermillion dollars back of the written guarantee, which says:

If any roof that's "Oshawa"shingled in 1909 leaks at all by 1934, we will put on a new roof for nothing.

Honestly, we believe an "Oshawa"-shingled roof will last a century, let alone twentyfive years. Why shouldn't it?

These heavy steel galvanized shingles lock underneath on all four sides in such a way that the whole roof is practically one sheer sheet of steel-without a crevice or a seam to catch moisture or to let wet get through.

You need never put a brushful of paint on an "Oshawa" - shingled - shingled roof, the special galvanizing makes paint entirely needless, and it won't wear off nor flake nor peel. Yet that roof will be Rain-proof, Snow - proof, W ind -proof, Weather-TIGHT as long as the buildings stand.

Fire-proof, of course. How



could a seamless sheet of tough steel catch fire? That alone is worth the whole price of these Oshawa Galvanized Steel Shin-

OSHAWA" GALVANIZED STEEL SHINGLES

A new roof for nothing if they leak by 1934

gles. Count the saving in insur-

ance rates (any company makes

a lower rate on buildings so

shingled). Count the freedom

from anxiety, the safety of your

And, a most important fact to

you, an"Oshawa"-shingled roof

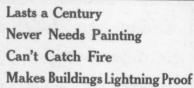
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houses and barns.



Half a million dollar pesn't cover the damage lightning did last year to Canadian farm buildings alone, and "Oshawa"shingling would have saved all that loss.

Yet, with all these things to show you that an "Oshawa"shingled roof is the RIGHT roof for you, "Oshawa" Galvanized Steel Shingles cost no more than wood shingles to start with. Let me tell you just what it would cost to roof any build-ing right. You needn't'

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hammer can put these shingles on easily and quickly.

Will you let me send you sample shingles, an estimate, and book that tells all about "Roof-ing Right"? It would pay you, I thing, to read the book. It's free, of course.

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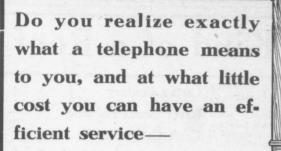
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AVE you ever gone careinly into the advantages of having a telephone on your farm?

Have you ever considered what help it would be to you? What money and worry it would save you?

Let us just see what it does mean to you.

When you want something from town—a new part for your reaper, a particular kind of wire fencing, or any of the many things that you may want from time to time which requires a special explanation—under ordinary circumstances you have to go into town yourself and lose a half-day that could be profitably spent on your farm.

Over the telephone you can explain exactly what you want, make sure your dealer has it and then send a boy for it.

When you are ready to sell your cattle, grain, hay, etc., you stand to lose considerable money unless you know what the current prices are before you ship your produce into town. With a telephone it takes you but a moment to find out how the market stands and you can sell your products when prices are highest.

Just think what a telephone means to you when sickness comes—getting the doctor in a hurry may mean the saving of a priceless life.

Think what it means to you to be able to call upon your neighbors for assistance in case of fire, violence or accidents.

Haven't there been times when you could save an animal that could be ill spared, if you could get a veterinarian in time?

Besides this, think what it means to your women folk—social chats that brighten the day, arranging of visits, getting up parties—the telephone puts you in close, intimate touch with your neighbors in spite of the distance that separates your homes.

You can have this valuable service at very little cost.

But the only way to get the right service is to get the right telephone. You must have one that you can depend upon day in and day out—one that will always give you perfect service. A reliable telephone is of inestimable value—a poor telephone is worse than none.

Northern Electric apparatus and equipment is recognized as the standard of efficiency. We manufacture ninetyfive per cent, of the telephone apparatus used in

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