Issued Each Week—only One Dollar a Year

VOL. XXVIII

NUMBER 39

RURALHO

PETERBORO, ONT.



DIGGING THE FAMOUS "STADACONA" POTATO AT STADACONA FARM

Modern machinery and lots of horse power save the wage bill. The growing of potatoes on large areas is becoming more and more difficult on account of lack of labor. This condition of affairs can be overcome by the use of upto-date machinery, including potato planters and potato diggers. Some growers think that the potato digger does not do its work well. One test with a good machine is sufficient to show otherwise. A glance at the illustration will show that it does its work successfully on Stadacona Farm, the property of Mr. Gus. A. Langelier, Cap Rouge, Que.

DEVOTED TO

BETTER FARMING AND SANADIAN GOUNTRY LIFE

Never Out of Balance

The Self-Balancing Bow!

in the Simplex Separator overcomes the greatest weakness previously met with in cream separators, namely: the liability of the bowl to get out of balance. If a bowl be ever so slightly out of balance it will not separate cleanly. This has been proved again and again by actual test. Remember that when you lose part of the cream you are losing money. Nor is this the only loss when a bowl is out of balance. A great deal of extra wear and tear is thrown upon it, thus greatly shorten-



ing its life, as well as lessening its usefulness.

No trouble of this kind ever occurs when the new Simplex Separator is used with the Self-Balancing Bowl. It is made with a system of bearings so that it will run evenly and quietly, even if out of mechanical balance. A weight several times greater than what would throw an ordinary bowl out of balance, will not in the least affect the smooth running of a Simplex Self-Balancing Bowl. In fact, a Simplex Self-Balancing Bowl

CANNOT GET OUT OF BALANCE

You do not want to make any mistakes when you buy a cream separator. You want one that will get all the cream all the time. This machine is the Simplex Link Blade Machine with the Self-Balancing Bowl. It does not commence to cause you trouble after you have used it a short time. Instead of that it improves with use. Have one sent to you for a free trial and be convinced.

Free Illustrated Booklet. Write for it

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WE WANT AGENTS IN EVERY DISTRICT

A BT Litter Carrier and BT Feed Carrier



lst Because they will save you more hard and disagreeable work than any other machine you can invest your money in.

money in.

2nd Because they are the best machines
made for handling Litter and Feed.

Let us tell you what they will do and
why they are better. We also build Cow
Stanchions, Steel Stalls, Hay Carriers,
Forks and Slings.

BEATTY BROS., FERGUS

Corn Exhibit at Toronto

The most striking feature of the Ontario exhibit at the Toronto Fair was the corn display of the Ontario Corn Growers' Association. The object of the exhibit was to show the growers of ensilage corn the type, and varieties of seed grown in the counties of Essex and Kent. Hills of Howey, Bailey, White Cap, grown from American seed, alongside the same varieties grown from Canadian seed at the Essex Experimental Stanced The most striking feature of the ntario exhibit at the Toronto Fair same varieties grown from Canadian seed at the Essex Experimental Sta-tion were dug up and displayed in trenches, giving the farmers a chance to see how much earlier the corn obtained from the Canadian seed matured. The corn from the Canadian seed was at least two weeks in advance, which proved beyond a doubt the advantage of Canadian corn for ensil-Durposes

Howie, Bailey, White Cap, Yellow Dent and Golden White Cap are good varieties of ensilage corn, and are well The hills of those varieties showed to great advantage over seeds of Yellow Dent, Mammoth Southern Sweet and other late, varieties the very seed of the late. other late varieties, the ears being more mature, thus showing the ad-vantage of growing these early maturing varieties, which will produce ensilage more palatable, and of a higher feeding value.

Fifteen varieties of the leading dent and flint corns were shown on a large pyramid erected in the centre of the enclosure, which showed the corn in a very attractive manner. The large full ears were so arranged that they could be examined with ease, and thousands of farmers enquired as to the qualities of the various kinds corn shown.

of corn snown.

Circulars containing the names of prominent growers of seed corn were distributed, thus giving the eastern farmers a chance to get in touch with the growers in Essex and Kent.

the growers in Essex and Kent.

The exhibit was something new at
the exhibition, and was a surprise to
many, who never thought corn of
that quality could be grown and matured in Ontario. The Ontario Corn
Growers' Association certainly deserve
credit for their beautiful and instructive display. tive display.

A Well Managed Farm

What may be accomplished in the What may be accomplished in the preservation of a forest is well illustrated on the farm of Messrs. I. 8. Hall & Son, near Churchville, Pack Co., Ont., who are competitors in Farm and Dairy's Prize Farms Competition. There is about 12 acres of bush upon this farm, in two blocks. Stock has been kept from pasturing in this bush for 25 years. Valuable young trees of ash, maple, elm, beech and white pine are growing very young trees of ash, maple, elm, beech and white pine are growing very thickly and are from 30 to 50 feet high. A representative of Farm and Dairy who visited this farm was told that the grandfather of Mr. L. S. Hall, took up this land from the Crown in 1824 when this part of the country was a primeval forest. The farm consists of 150 acres and had been covered with large white pine when in the natural state as a state. been covered with large white pine when in the natural state, as is shown by the pine stump fences and pine rails that would be worth thousands of dollars if standing in timber to-

of dollars II summing day.

There is a fine bank barn and othere buildings such as implement house, priggery, hennery and ice house. The barn has stone stables and cement floors and is ventilated by sub-earth ducts that have the fresh air come in the feed room in front of each animal. This has given good satisfaction by the feed room in front of each animal. This has given good satisfaction by keeping up the supply of fresh air. We dewling is a fine substantial brick structure bulk in 1859 with fine lawn in front. There are two orchards consisting principally of apple trees. The land is fairly level but with sufficient full to carry off surface water.

ficient fall to carry off surface water. 6,

A spring creek runs across the farm which supplies the stock in the pas ture fields and at the barns with wa-No underdraining has been done this farm.

on this farm.

There is a good herd of Jersey cattle of the utility type kept, that give a good account of themselves.

The crop rotation followed is a five

The crop rotation followed is a new year one as near as possible. A good system if farm accounts is kept. That part in connection with their rotation is worth special mention. Each year a map is made of the farm and and field thereon is marked with the crop grown upon it that season. These maps are kept marked with the crop grown upon it that season. These maps are kept in a book. By turning up any year, it can be seen at a glance what the crop was in any particular field. Messrs. Hall & Son have a phone in their house which they find of great convenience to them.—H. G.

Sow Thistle a Menace

Sow I histle a Menace
Editor, Farm and Dairy.—In the
last paragraph of an editorial on
"Sow Thistle" in a recent issue of
Farm and Dairy you say, "something
more radical than has yet been attempted must be done." In this you
have expressed my views more clearty.
We have some see thistle, fortunately not as much as some sections.

ately not as much as some sections.

Amply Repaid for his Efforts

Have just received from Mr. Methew Standish, of Rouge-mont, Que., the Chester White pig with pedigree which you gave me as a premium for securing seven new subscribers to Farm and Dairy. The pig was seven weeks old. We think it a good specimen of the Chester White breed. I wish you to ac-cept my thanks for this valu-able premium, which has amply repaid the effort to secure the subscribers. — John Manson, Cœmpton Co., Que. curing seven new subscribers to

but very unfortunately it is gaining on us. Nearly any farmer one may talk with believes this weed to be the worst we have to deal with, but this lack of initiative, common to us as a class, manifests itself very clearly, as I have yet to hear of farmers as I have yet to near or farmers themselves making any organized ef fort to get rid of the pest. Our own way of keeping, or rather trying to keep it in check, is perhaps much like some of the methods described in Farm and Dairy. If you can in any way be instrumental in getting not only the farmers but even some in directly interested in agriculture to get busy, even to the extent of legis-lation, I feel that we would be under great obligations to you.—Frank Web-ster, Victoria Co., Ont.

Butter-making Competition at London

Strictly amateur, open only to per-Strictly amateur, open only to persons who have never spent any time in a dairy school or creamery —I. Mrs. A. Simpson, Attwood; 2, Miss. M. Johnston, Bowood; 3, Nettic Carrish, Roserille; 4, Mrs. W. Hill. Parbill: 5, Ruth Patton, Newton Brook; 6, Miss. T. A. Gregory, Poular Hill. Open to any lady or gentlemen in the Dominion of Canada:—1, M. L. Carrish, Roserille; 2, Miss. M. Johnston, Bowood; 3, Nettic Carrish, Roseville; 4, Katie M. Wolfe, Guelph; 5, Mrs. A. Simpson, Attwood; 6, G. E. Knight, Nulton.

Special sweepstakes open to all ex-Special sweenstakes open to all event 1st and 2nd prize winners in above classes, prizes to be awarded entirely on the work of this competition: 1, Katie M. Wolfe, Guelphi; 2, Nottie Carrick, Roswille: 3, Annie Green, Loval: 4, Mrs. W. Hill. Partonill: 5, Ruth Patton, Newton Brook; L. R. Pound, Sparta.

Issued Each Week

Vol. XXVIII

A Bright Future Market for What (



J. R. Hutchison, B.S.A reference is also n

A., the proprietor Farm," in order others may be enco to grasp the opp ties in this, or oth tions of New O that await them.

As one leaves the and more settled pa Ontario travelling ward by train alor northern shores of Huron and Superio is impressed with th amount of waste lan ble from the train. of this is not fit for culture though it ha en evidence of being in mineral wealth. and there a clearing a farm in this vast reminds one of an in a desert. Wester tivity, as it is often ed, becomes apparen until the twin citie Fort William and Arthur are reached.

THE TWIN CITIES. Fort William is derfully active. It doubled and trebled it few years. It is a c ed at the head of na lake termini of the t ways, C. P. R., G. T. liam has the essential cessful operation of e

The city has 35,000 er developed and 100 elevators have a capa its total elevator cap under construction-i Fort William handles tween eastern and wes As we look upon th

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

Vol. XXVIII.

FOR WEEK ENDING SEPTEMBER 30, 1909.

No. 39.

Only \$1.00

AGRICULTURE IN THE SLATE RIVER VALLEY

A Bright Future for the Valley is Assured. The Rapidly Growing Twin Cities Provide an Unlimited Market for Faim Products.—Comments on General Conditions with Special Reference to What One Man is Doing. Written by a Special Farm and Dairy Correspondent.

GRICULTURE, the greatest of all Canadian industries, must always command the attention of all engaged therein, and outsiders as well, they being so largely dependent upon agriculture for their own prosperity. This article seeks to enlighten its readers on conditions in the Slate River Valley with some fore-J. R. Hutchison, B.S.A.

casts as to its future; special reference is also made to J. R. Hutchison, B.S. A., the proprietor and manager of "The Valley

Farm," in order that others may be encouraged to grasp the opportunities in this, or other sections of New Ontario, that await them.

As one leaves the older and more settled parts of Ontario travelling westward by train along the northern shores of lakes Huron and Superior, he is impressed with the vast amount of waste land visible from the train. Much of this is not fit for agriculture though it has given evidence of being rich in mineral wealth. Here and there a clearing or a farm in this vast area reminds one of an oasis in a desert. Western activity, as it is often termed, becomes apparent not until the twin cities of Fort William and Port Arthur are reached.

THE TWIN CITIES.

Fort William is wonderfully active. It has

doubled and trebled its population during the last few years. It is a center of commerce. Situated at the head of navigation and possessing the lake termini of the three Transcontinental Railways, C. P. R., G. T. P. and C. N. R., Fort William has the essential features to ensure the successful operation of every kind of industry.

The city has 35,000 H. P. Hydro-electric power developed and 100,000 H. P. in reserve. Its elevators have a capacity of 14,250,000 bushels; its total elevator capacity-receiving grain and under construction-is over 60,000,000 bushels. Fort William handles practically all traffic between eastern and western Canada,

As we look upon these cities of extensive and

rapidly increasing population, we are bound to ask ourselves, "Whence is their source of farm produce supply?" The most productive center of agriculture, in the immediate vicinity of Fort William and Port Arthur, is the State River Valley. This Valley is situated almost directly west of the city of Fort William. The Valley proper is made up almost entirely of the township of Paipoonge, though it takes in a small portion of the northern part of Blake township. It is in every sense of the word a Valley, it being surrounded on the Southwest and North by a somewhat broken range of hills. These abound in minerals and are the natural home of moose and red deer. The small lakes in these hills, or mountains

A Comfortable Farm House in the Slate River Valley, Thunder Bay District.

The average traveller passing through Fort William on the C.P.R., gains the erroneous impression the later is practically no agricultural land in the vicinity. Considerable valuable land is situated in the Slate River Yalley, back of this city. The adjoining article, by a special Farm and Dairy correspondent, deals with the agriculture of this district.

as they are locally termed, abound with fish, mostly trout. The Kaministikwia River passes through the northern part of the Valley. The Kakabeka Falls is on the "Kam.", only 10 miles west of Slate River station. It is from these falls that the electric power is produced for the twin cities. The falls themselves and the rapids above are a beautiful sight. They are surrounded by parks and are a very popular summer resort.

SOIL IN THE VALLEY. The Valley has a most excellent fertile soil, which is free from stone. The soil varies from a light sand to the heaviest clay. Much of it has a clay sub-soil with a cover of sandy loam on top. The township of Paipoonge alone contains about

40,000 acres of land suitable for agriculture. The medium or lighter soils seem to be the best suited to the climate. Owing to the comparatively short season the lighter and warmer soils mature the crop more quickly. Of the 40,000 acres there are about 33,000 under cultivation. Much of the land is not hard to clear. The more easily cleared and the best located properties however, are held by speculators who do not reside in the locality. Up to the present the farmers have made a practice of selling practically all their farm produce such as hay, and grains, thus rolbing the soil of it natural fertility. The excellent market in Fort William has been largely to blame for this.

During the last couple of years farmers have been paying more attention to the dairy industry. In order to put the dairy business on a better basis and to carry it on more extensively a number of farmers have formed themselves in a co-operative association with a distributing depot at Fort William. This Slate River Valley market depot in the city is well equipped and has

done quite an extensive trade in ice cream, butter and cottage cheese, besides carrying on a retail milk trade.

RETURNS FROM THE DAIRY. Some idea of the profitableness of the dairy may be gained from figures given in the following, which are those from the Valley Farm owned by J. R. Hutchison. The exact weight of milk produced by each cow is recorded on the Valley Farm, tests for fat being made several times during the year. A complete outfit of Babcock testing apparatus is kept for the purpose. The Simplex Cream Separator is used. Skim milk is all fed on the farm and cream sold in the city. The following figures for June, July and August, will give the reader some idea of the market value of dairy products in Fort William.

Number of cows12 Amount of milk during June 10,467 1/2 lbs. Cream sold for\$227.50 Amount of milk during July10,319 lbs. Cream sold for\$224.50 Amount of milk during August9,176 lbs. Cream sold for\$209.00

Mr. J. R. Hutchison purchased 1,000 acres of what is now called "The Valley Farm," three years ago. It is nine miles west of Fort William. The farm was not cleared and had no improvements. Mr. Hutchison has now under cultivation 150 acres. The Kaministikwia River runs through the farm giving an abundance of pure water besides greatly adding to its beauty. The

The principal crops grown are clover, oats and potatoes and garden crops. The clover plant is practically a weed in this district. It is doubtful if there is any section in Ontario that can parallel the Slate River Valley for growing clover; the illustration on this page, will give some idea of its luxuriant growth. It would appear that clover seed could be grown here to perfection as there is no trouble with insects, and as shown in the illustration, the plants are practically covered with blossoms. Petatoes and all garden crops grow well.

All produce, without any exception, finds a ready market in the cities of Fort William and Port Arthur. Owing to the rapidly increasing population of these cities a very targe percentage of their farm produce is imported. The development of the cities is far more rapid than that of the country. Butter seldom falls below 35 cents a lb., while milk is never less than 10 cents a

DAIRYING A SPECIALTY.

Dairying is becoming a specialty with some farmers and as just indicated the outlook is bright. Mr. Hutchison intends to make dairying the chief branch of his farming operations. At present he has a herd of only 12 grade cows-Holsteins. He has recently secured an exceptionally well bred Holstein bull from Mr. G. A. Brethen, of Norwood, Ont. The clover previously mentioned, in addition to oat hay is relied upon for fodder. Very little corn has as yet been grown, though it would do well in most seasons. Buildings on the farm at present consist of house, and a large hay barn, with a one story stable attached-capacity for 60 cows.

The Slate River Valley in general affords an excellent field to any energetic young man to engage in any one of the following lines of farming: Dairying, market gardening, growing of small fruits, poultry raising, swine raising, agriculture. Markets in Fort William right at one's door, as previously indicated, are not to be surpassed in Canada. The amount of farming land that has been developed is insufficient to supply more than a mere fraction of the needs of the twin cities, hence the excellent prices for perishable goods. The greater part of the produce for the twin cities is shipped in from outside points such as Owen Sound and Duluth. There is not the slightest danger of there being an over-production of farm products in this vicinity as the cities are making such rapid progress.

TRANSPORTATION FACILITIES.

An important factor in any farming communit, is the facilities for transportation and the marketing of the soil products. Slate River Valley, in the more settled parts, is particularly well favored, with good roads. Nature has favored this section with excellent road making material, which is at hand in the nearby hills. The enterprise and the unceasing efforts of the municipal councils have put at least the main roads in such a state that it is doubtful if any section in Ontario, either Eastern or Western, can boast of as fine roads as are to be found in the Slate River Valley. The Valley is also connected with the cities by the main lines of the Canadian Pacific, the Canadian Northern and the Port Arthur and Duluth lines of railways. An electric road, to connect Fort William and Kababeka Falls, passing through the Valley, is under construction. Three miles of the road have already been built. Farmers are expecting that this electric road will lend a great boom to agriculture locally.

A number of farmers have formed a company and have constructed a telephone system, which gives residents in the Valley telephone connection with Fort William and Port Arthur and with other outside points. The company has taken every precaution to have an up-to-date system. They have a local exchange. The system locally

has over 50 miles of wire besides the trunk line extensions.

NEED EXPERIMENT STATION.

A percentage of the farming community in the Slate River Valley is made up of persons who have previously been engaged in some occupation other than farming. An experimental station could be made of great benefit to these people. It is evident that there is great room for im-



Hay Barn and Stables on "The Valley Farm." The Valley Farm, situated in the Slate River Valley, near Fort William, Ont., and whic', receives mention in the article on page 5, is admirably adapted for dairying, and has been fitted up with a view to that industry.

provement in the way of using better varieties of grains, etc.

Climatic conditions in the Valley seem to be somewhat different than in most other sections. The climate is nearly ideal with the exception of there being rather long winters. The roads to the cities, however, are nearly always good and are never blocked with snow. The winter weather is cold and steady, with plenty of sunshine. The summer climate is delightful. Growth is very rapid owing to the warm bright days.

The Slate River Valley, located as it is close to the two growing cities of Port Arthur and Fort William, and with all its natural beauty, present developments and bright prospects, is



A Luxuriant Crop on "The Valley Farm." corner of a red clover field on J. B. Hutchinson, showing the second crop in full bloom. Phot in especially for Farm and Dairy by our own condenses.

not only a fine place in which to reside, but it affords an excellent opportunity for ambitious young men and their sweethearts. The future prosperity of the Slate River Valley is assured.

A Concrete Cistern for Rainwater*

-M. E. N.

Peter De Linde, Zion City, Ill.

There should be a good cistern near the kitchen loor of every dwelling house in the land, as good water from the clouds is indispensable in every household. The materials for a good concrete cistern cost very little, and any workman can construct it; when once constructed it will do good service for many generations.

The disease-breeding rainwater barrels at the house corners, half full of stinking water, are a nuisance which should be prohibited. Another nuisance is a cistern consisting of a round hole dug in the ground and covered with an old door,

*Reproduced from "Cement," by permission of the

the sides of the hole may have been plastered once, but if inspected, we find most of the plaster lying in the bottom of the hole and the remains of dead mice, rats and frogs can also be found in it. Instead of rain water, which it was intended for, it is nothing but poisonous surface water. Such cisterns or pestholes should be prohibited by law.

A 75 BBL. CISTERN.

The size of the cistern should depend some what on the size of the family. I will here describe a cistern that will hold about 75 barrels of water. Dig a hole seven feet wide, seven feet long and 10 feet six inches deep. If the soil is loose, the sides must be curbed up with boards. If it is clay or hard ground, the boards will not be needed. For floor put in a layer of mortar six inches in thickness, stamping it firmly together. Then put up 2-inch planks all round for boxing. Carefully sweep and remove any earth that may have fallen down from the sides. Put a layer of mortar into the box eight inches in thickness, stamping it firmly together with a square wood block. Continue to fill in mortar, layer after layer stamping it firmly together. The walls should be 11 feet high, that will be one foot above the surface of the ground.

BUILDING THE ARCH.

Now make a strong arch-shaped floor from planks, on which to build the arch. Be sure to have it strongly braced below and make a hole two feet square in the center of the arch shaped floor. Place a strong frame two feet square over the hole; make a strong door two feet square fastened into the frame with hinges. Take a round block four inches in diameter and place it into the side of the cistern next to the house for the inflow pipe. Now cover the arch-shaped floor with a layer of paper, then put on a layer of mortar one inch in thickness. Take two pieces of iron lengthwise on the arch, one piece on each side of the frame or door. Then take two more pieces of iron eight feet long, one inch wide, one-half inch thick and place them crosswise over the arch, one piece on each side of the frame or door. Then put on another layer of mortar one inch in thickness and place wire netting on it. Then put on another layer of mortar two inches in thickness. Stamp it firmly together and finish it nicely on top with a trowel. Such a six foot arch need only be one foot high. Now leave it for a week or ten days, then open the square door on top and remove the arch-shaped plank floor and remove all the boxing. Then put on a finishing coat of mortar made from one part Portland cement to two parts of fine sand. Finish the cistern inside as smooth as if it was a parlor.

OTHER DETAILS.

The mortar for the arch should be made from one part Portland cement to three parts clean, coarse sand. The mortar for the floors and walls should be one part cement, three parts sand and three parts gravel. It takes about eight barrels of cement and four yards of sand and four yards of crushed stones or gravel to construct such a cistern. After all is ready, remove that round wood block and put in the water pipe and the cistern is ready for use. The water pipe should be arranged in such a way that the water can be turned off, as it is sometimes not desirable to have the water run into the cistern. For instance when it has not rained for some time, the roof of the house is more or less dirty; when it has been raining for an hour or so, when the roof has been washed clean, and not until then, should the water be turned into the cistern.

I am only keeping eight cows this summer. I would rather have them than the 23 that I kept in former seasons. Mony cows are kept on the average farm that return no profit. By selecting the best ones and keeping them only, much labor is saved and the returns are approximately as large.-G. Fowler, Peterboro Co., Ont

September

Bertie (J. E. Some time a

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herd, and wh butter produce to this conclus of milk produc was comparati few, if not all ing milk low choose factory Ly where the it was decided testing associati ed upon the st Government wa the farmers got Government rep ing Association It consists of erage seven co member was ab cessary utensils and a Babcock of the members the association at the end of ea require more th

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In the early his tically unknown a regularly at work wood or lumbering clearing the land. sent conditions in often left standing without exercise o in, and the result become comparativ season.

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Bertie Cow Testing Association

J. E. Jewson, Welland Co., Ont.

Some time ago a few farmers, who kept a record of the milk produced by each cow in their herd, and who also determined the amount of butter produced by the herd as a whole, came to this conclusion, that, for the average amount of milk produced per cow, the quantity of butter was comparatively low, which indicated that a few, if not all of the cows in the herd, were giving milk low in per cent. of butter fat. No choose factory or creamery being in operation near Ly where the milk might be frequently tested, it was decided if possible to try and form a cow testing association. Other farmers were approached upon the subject and became interested. The Government was communicated with and finally the farmers got together, and ably assisted by the Government representative, the Bertie Cow Testing Association was organized.

It consists of fifteen dairies testing on an average seven cows each. The average cost per member was about \$2.00 covering the cost of necessary utensils used in weighing and sampling, and a Babcock tester. The testing is done by one of the members who resides near the centre of the association to whom the samples are delivered at the end of each month. The testing need not require more than one day and, while to many it might seem rather troublesome, yet the experience derived therefrom is well worth the time and labor involved. Although this association has been in operation but for a few months, the dairymen have become very much interested in the work. Some realize the fact, that they have been feeding cows which have brought them little or no profit whatever, while others would have a far more remunerative herd to-day if they had previously known just where the best producers stood. While the cost and labor involved in connection with the association was seriously considered by some before becoming members, it is now the unanimous opinion that these amount to mere nothings when compared with the actual benefit derived.

Ayoturia-A Disease of Horses

Ayoturia usually develops in horses which have been standing idle in the stable for a few days and are then taken out to work. This is especially the case if during their idleness they have been fairly well fed on a grain ration. It requires a certain amount of exercise to develop the trouble. Sometimes very little will do it, even being led out to water has been known to set up the disease; at other times several miles may have been travelled before the disease manifests itself. A horse standing in the stable continuously will not develop the disease, but as it is impracticable to allow a horse absolutely no exercise it is impossible to guard against it in that way.

In the early history of the country it was practically unknown among farm horses as they were regularly at work during the winter drawing cord good or lumbering or some other work incident to clearing the land. But unfortunately under present conditions in Ontario farm life horses are often left standing for days together in the stable without exercise of any kind after the winter sets in, and the result has been that the disease has become comparatively prevalent during the winter

SYMPTOMS.

As would naturally be expected, a horse standing without any exercise for a few days and then put to work will feel pretty good; he will start off in a spirited manner, drive promptly and freely and the owner is impressed favorably with his appearance, but as too often happens he has not gone very far on his journey till he loses all his gayety of manner and becomes sluggish and depressed, his action will become stiff, especially in the hind quarters, he will stagger, and if kept

on his journey will eventually fall down and be unable to rise again. It is in this stage that veterinary help is usually called in and if the life of the animal is valued by the owner a competent veterinary surgeon should certainly be consulted. There is complete loss of power, the animal is suffering more or less pain and the bladder will be found to be engorged with a dark coffee colored urine which looks as if it were bloody, although such is not really the case and it is almost always necessary to draw off the urine by the use of an instrument which requires a man of experience to operate. But while curative treatment is often uncertain even in professional hands preventive treatment is easy and effective

A horse which is regularly exercised every day is most unlikely to suffer from an attack of this disease. Horses which are turned into a yard every day will take exercise enough to prevent an attack. But supposing an animal has been exposed to the conditions just described and as a result shows symptoms of an attack, the careful owner will stop his journey on the very first sign of trouble, and will get him into the nearest barn or shelter of some kind. Cover him with two or three heavy blankets, apply heat to the joints, make him sweat as freely as possible, the more the better, and this will in all probability

cretary calls the shareholders together and divides up the profits after deducting all expenses. We hire our machine to anyone who wants it, always of course, sending a man who understands it.

We find no difficulty in getting power to fill. We make an agreement with the man who does our threshing to come with his engine and fill our silos. He is generally willing to do this rather than let some one else do your threshing. About the time the silos are being filled is a slack time with the threshers and they are willing to hitch their engines to anything there is a dollar in.

The cost of filling silos, I presume, will vary in different localities, but we find the cost to be about the same as threshing. Those having silos exchange work with each other during filling season as when threshing.

Our silo is 15 feet by 28 made of Norway pine, with a stone foundation of 3 feet under ground and cemented on inside. We can fill this in about 13 hours with a good steady run. This sile has been up about 12 years and is in a fair state of preservation, but if we were erecting another it would be of cement. We are of the opinion that they keep the ensilage just as good as the wood structure and they never need replacing.

Quite a number of silos have gone up in this section this summer. Farmers are beginning to



A Commission at Work Inspecting Different Types of Mail Boxes

It is announced that over 10 rural mail delivery routes have now been established in Canada, most of them in Ontario and Manitoba. The Dominion Government has selected a special form of mail box and farm-them in Canada, and the Canada and the Can

be an arrest of the disease, and in the course of a few hours the animal may become all right again, although it would be better-especially in the case of a valuable animal—to employ veterinary assistance. But if the patient is down and unable to rise then professional treatment is a necessity if the animal's life is valued. However, the man who feeds carefully and exercises regularly will not likely have a case of this disease on his hands, and will also, to a great extent, safeguard his horses against numerous other troubles to which horses are prone during their periods of idleness.-Centaur.

Silo Filling

Editor, Farm and Dairy,-Three farmers, having silos, including ourselves, co-operated in purchasing a Wilkinson blower. More could go in if desired, which would make the first cost considerably less to each farmer and would no doubt be equally satisfactory.

Each member of the company pays so much an hour for the use of the biower during the time he is filling and at the end of the season the se-

realize that it is a Lattle against the weeds and that it is either hoe, summer fallow or get out of Lusiness, and the former seems to be the most profitable.-Webster Bros., Ontario Co., Ont.

Wheresoever situated, no farmer is rightly prepared to raise hogs profitably in any considerable numbers unless well provided with pasture and grass or facilities for providing acceptable substitutes. In the economical growing of pork there is no more important factor to be considered than that of pasture. Range in pasture affords growing animals the exercise so necessary to health and proper development; and the succulent grasses, while rich in muscle and bone-forming materials, tend to prevent disease and to counteract the heating and fever-imparting properties of corn. This latter quality, and exercise, annually save many thousands of dollars to hog-raisers in the United States, yet the loss that results every day to farmers who do not act upon the fact that the hog is, in his normal conditions, a ranging and grass-eating animal, is still enormous .- From Coburn's "Swine in America."

LAND AT FORT WILLIAM FOR SALE

100 acres of the finest garden soil in Western Canada, only five mices west of the prosperous City of Fort William, on the line of the new street railway, now under construction of the control of the c

ALF. COOPER & CO. Agents

FORT WILLIAM -ONT.

OWN YOUR OWN 360 ACRES ON EASY TERMS

Many farmers with small capital, tenants and others, would take up land in the Canadian West, but homesteads are now hard to select, and the conditions are exacting, while lands for sale are usually stringent in first cash payments, and for

Holding considerable areas of splendid land, well situated near stations, from one hundred feet upwards to five miles along the main line of the Canadian Northern Railway, between Battleford and Minburn, it is my wish to dispose of the same to the benefit of both myself and the purchasers.

Recognizing that it takes even the best farmer with small capital some time to get a fair start, I WILL SELL ON VERY EASY TERMS, AND GIVE LONG TIME FOR PAYMENT.

But no lazy or intemperate farmer need offer to buy, while married men with families are preferred.

Certain improvements will require to be made annually, from the outset, and there are other terms and conditions to be complied with.

For particulars, address:

SAM HUGHES Lindsay, Ont.

Sept. 1909.

FARMS FOR SALE

If you want to sell your farm, place advertisement in Farm and Dairy. cost is only two cents a word in our classified columns, and \$1.00 an inch for display advertisements. Tell people about it, if you want to get a good price.

Our Veterinary Adviser

BLOODY MILK.—For the last month my heifer has given bloody milk. About every third day she gives good milk, but next milking it is bloody again.—C. H. C.,

Ont.

This indicates a congenital weakness of the small blood vessels of the under and the recurrence of the trouble may be impossible with cold and give one ounce tincture of iror in a pint of cold water as a drench three times daily until the milk becomes clear. If this fails to effect a cure it will be better to dry her and fit for the butcher. fit for the butcher.

Our Legal Adviser

LINE FENCE AND TREES .- (1) In the case of a line fence not being in proper shape, who is the proper person to notify, the owner or tenant, the owner being a case of a line fence not being in proper shape, who is the proper person to notify, the owner or tenant, the owner being a state of the property of the proper

Grey Co. Oat.

(1) Owners of occupied adjoining ands are required to make, keep up ands are required to make, keep up ands are required to make keep up and a repeat of the former of th

case, the time and place of the Medical ing for the arbitratio."

The fence viewers will examine the premises, and make an award, which award will specify the quantity and description of the fence to be made and the time within which the work is to be done, and shall state by which the works the medical the time the control of the proposed. is to be done, and shall state by which of the parties the costs of the proceed-ings should be paid, or in what pro-portion the same should be paid. If the award is not obeyed within one month, it can be enforced in the Di-visio. Court.

There would be no objection to the tenant joining in the notice, but the owner is the proper person to give it. owner is the proper person to give it. The procedure and forms of notice are all set forth in the Line Fences Act. Chapter 284, R. S. O., which you could probably procure from some magistrate

(2) The ownership of trees growing

your cattle stray upon his land, through or over the defective fence, he cannot collect damages from you.

DEPENDS ON CIRCUMSTANCES.—I was engaged last spring to manage a retail business at 866.00 per month and 1 per cent. commission. When 1 got here 1 to the series of the ser

No definite agreement as to terms having been entered into, we do not think you could successfully claim as for a year's engagement, but the cir-cumstances would justify a finding vice-president; Wm. Waddell, 2nd vice-president; D. A. Dempsey, 3rd vice-president; and directors, J. N. Paget, S. E. Facoy, S. R. Wallace, Geo. H. McKenzie, W. S. Stocks, and F. Herns, sec.-treas.

The programme committee met in the secretary's office, London, when a very interesting and instructive program was outlined, which it is hoped will not only interest the cheese and butter makers but also the patrons of cheese factories and creameries, and everyone interested in dairying

Inaddition to the \$360 offered by the association in cash prizes to exhibitate of the second of the Inaddition to the \$360 offered by the the Cheese Buyers' Trophy, consisting also of a silver cup. The patrons of cheese and butter

factories were not forgotten, the association donating \$100 in cash priz-



One of Numerous Gambling Outfits Operated at the Central Canada Exhibition, Ottawa

Wheels of fortune and form's lotteries were operated openly at the Ottawa exhibition this month, and nothing was done to stop them, although they are prohibited by law. When this photograph was secured a policeman was standing only labited by law. When this photograph was secured a policeman was standing only what is the Superintendent of Agricultural Societies and the Department of Agricultural Societies and the Department of Agricultural coultural doing to stop these frauds? They are operating at too many fairs.

that yours was a monthly engagement terminable on either side on giving and bronze medal to the patrons send-one much sortice. You are not responsibly bad debts are incurred, or for failure to obtain return of ice creameries during the season of 1909. cream freezers, etc., unless you were shown to have clearly exceeded your instructions, or to have been grossly negligent in the management of the

Dairymen's Association of Western Canada.

At a meeting of the board of di-rectors of the Dairymen's Association of Western Ontario held recently in Toronto, it was decided to accept the very cordial invitation of the city of St. Thomas to hold the 43rd annual convention and winter dairy exhibi-tion in that city. Committee (2) The ownership of trees growing near a boundary line uspends on the position of the trunk, but the owner of the tree is not entitled to allow the limbs or the roots to project over his neighbor's land, and the neighbor can insist on their being cut off, to such an extent as they project upon large to the constant of the cut that the fence is a considerable of the root of t

The coming convention should be a success as the city of St. Thomas is situated in the centre of one of the best dairy districts in Western On-tario. Let everyone interested help to make this 43rd annual convention the best in its history. Dairying is the most important branch of Ontario agriculture. For prize lists and information write the secretary, F. Herns, London.

There is no economy in keeping a ow that is troublesome and vicious or the one that will destroy her own



Rececea FARM *****

Gang Plo Editor Fa eral ve advantages single furrov horses and of four horse gle furrow p than is poss row plows Crown gang from a local the best of work quickly sods, edging way. We have way. We have

toes in at a r drills are just for this count Before pure we used a sir factured on the was a good purned too with the Crown gar draft and mal lever for wider at the will of

We have a

our potatoes

well worth has

of its good for Parker, Kings The Gasolin Ed. Farm tried three di power. First, a Then we chan mill. Our stoo and cutting fe gasoline engi satisfaction.

A nine horse the right size for where threshing done. done. Our eng plate chopper busy looking a keeping grain winter, we cut at the same tim ing plenty of po so arranged the also. All told w to recommend to any man who be careful. The handy.

When install erected a building eight feet away, building is 8 by 8 posts and a ridge outside with lum with galvanized roof. In the sp gine house and for the belt to too is covered w engine to choppe have a line shaft and run our eagi ferent sized pull along the line sh whatever we may way we can speed cutting box with engine and buildi Clement & Son, N

Successful

Provided with suitable feed some pigs are not not their growth by that have been dep the mother's mil taken away from to have their grapended for weeks.

FARM MANAGEMENT

nessensessessessessesses Gang Plow Does Good Work

Editor Farm and Dairy,—For several ye.—I have been studying the advantages of a gang plow over the single furrow plow and I have become convinced that a gang plow with three horses and one man can do the work horses and one man can do the work four horses and two men with sin gle furrow plows, and do better work than is possible with the single fur than is possible with the single rur-row plows. Last year I purchased a Crown gang plow (Frost & Wood) from a local agent. It has given us from a local agent. It has given us the best of satisfaction, doing its work quickly and turning nice even sods, edging them up in an attractive way. We have used this plow in both

ay. We have used it for planting We have also used it for planting it is We have also used it for planting our potatoes and for this alone it is well worth having, as it guts the gota-toes in at a nice even depth, as light deep as one wishes, and the drills are just the right distance apart

for this country.

for this country,
Before purchasing this gang plow
we used a single furrow plow manufactured on the Island with while it
was a good plow, was too slow and
turned too wide a sod in the like
the Crown gang because it in the interior in
the gang makes a merry inch. the crown gang because it is fight in draft and makes a pretty job in lea. It has dust-proof axies and a side lever for widening the cutside furrow at the will of the driver, which is one of its good features. — Parker, Kings Co., P.E.I. Horace W

The Gasoline Engine a Favorite

Ed. Farm and Dairy,—We have tried three different kinds of farm power. First, a two horse tread power power. First, a two norse treau power. Then we changed for a wower wind mill. Our stock was heavy and we found it unreliable in doing chopping and cutting feed. Lastly we bough a gasoline engine. It has given good stifsation.

A nine horse power engine is about the right size for any farm outside of where threshing or alio filling is to be done. Our engine will run a 10 inch plate chopper and will keep a man busy looking after the engine and keeping grain in the hopper. In keeping grain in the hopper winter, we cut feed and pump water winter, we cut feed and pump water A nine horse power engine is about winter, we cut feed and pump water at the same time, the engine furnish-ing plenty of power. We have things a plenty of power. We have things also. All told we would not hesitate to recommend gasoline engine power to any man who will use judgment and be careful. There is no other power

When installing our engine, erected a building, outside of the br erected a building, outside of the parm eight feet away, especially for it. This building is 8 by 8 feet with seven foot posts and a ridge roof. It is boarded outside with lumber and then covered outside with lumber and then covered with galvanized iron as is also the viting galvanized iron as is also the viting the late of the property of the belt to run through. This for the belt to run through. This for the belt to run through. This for covered with galvanized iron. Our left is not run direct from the engine tis not run direct from the engine tis not run direct from the have large shaft inside of the burn and run our eigine belt to that. Different our eigine belt to that. Different shaft is a fact to accommodate along the line shaft to accommodate whatever we may wish to run. In this whatever we may wish to run. In this whatever we may wish to run. In this way we can speed up our chopper cutting box with larger pulleys. Our engine and building cost \$450.-J. D. Clement & Son, Norfolk Co., Ont.

Successful Pig Weaning

Provided with and taught to eat suitable feed some weeks before-hand, pigs are not noticeably checked in their growth by weaning, but those that have been dependent mainly upon the mother's milk, when abruptly it the mother's milk, when abruptly it taken away from it, frequently seem to have their growth partially sus-pended for weeks. Many breeders such for i cosfully let the sow wean her pigs, time.

weekeeseeseeseeseeseese as she will in time, and the change is so gradual that no pause in growth indicates when the milk diet ceased. A modified application of this, in this, which the pigs are separated from the sow at an age suiting their feeding and the convenience of the breeder, and the convenience of the treeder, will not infrequently be found advisable, but by no means should the pigs be allowed remain with a sow until she is virtually devoured by them as is sometimes done

It is not a good plan to take all the pigs from the sow, unless one or two of them can be turned with her some hours after, to draw the milk she will have at that time, and again, say after a lapse of 24 hours. The preferred way is to leave about two of the smallest with her for sevtwo or the smallest with her for several days, and after that leave only one or two for two or three days more, by which time the flow of milk will have been so gradually diminshed that nave been so gradually deminshed that no injury to the sow will result by keeping them entirely away from her. This extra supply of milk helps also to push the smaller pigs along in growth and put them more nearly on an equality in size with their thriftier mates.—From Coburn's "Swine in America."

Dairying and Soil Fertility

There are many examples of restor-ing the fertility of farms impoverished continued market-grain farming. There is no fact in agriculture bet authenticated than that of improving production by dairy farming, and the keeping of enough live stock on the farm to consume nearly all that is grown on it. It was Prof. Woll of the Wisconsin experiment station, who stated from actual experience and observation that 88.35 worth of fertility servation that \$\tilde{\text{s}}\$.00 worm or returnly was removed from the land when a ton of wheat was sold from it, and that a ton of corn sold took \$6.00 worth of the soil fertility from it. But when the dairy industry is followed and the skim milk and other by-pro-and the skim milk and other by-proand the skim milk and other by-products are fed to the pigs and calve and the manure returned to the soil by feeding the crops, constant improvement is made sure. Take this ment is made sure. Take this illustration from the work on soils by Prof. C. W. Burkett, director of agriculture expinent station of Kansas, as given in the new book on soils, published by the Orange, Judd Co., of New York. York.

Prof. Burkett says:"A great source Froi. Burkett says: "A creat source of profit in dairying lies in the fact that it remakes the soil. When you purchase feed for the cow that more milk may be produced, you add fertility to the land Such feeds as lies seed meal, cottor-seed meal, and bran seed meal, cottor-seed meal, and bran a secondarically rich is facilities." are exceptionally rich in fertilizing ele are exceptionally rich in fertilizing ele-ments. It is not unusual to purchase elements of fertility more cheaply in the form of feeds than in the form of fertilizers. And the feed is paid of the feed is paid to the feed is paid to the labor, an allows in every case, where attention and care are given, a fair marging of profit. In the way the fair margin of profit. In the way the fertility of the soil is restored at pracally no cost.
While soil building can be according

plished by using other classes of ani-mals, it is, however, a fact that the dairy cow produces more real fertility than any other farm animal. weighing from twelve to thirteen hundred pounds, if fed to produce milk dred pounds, if fed to produce milk, during the year produces about twenty-eight hundred pounds of manure. Nearly one half of this is liquid and should be saved for its because the right here comes a great loss to be a real form. The liquid may room the land to be the case were its may room the land. farm. The liquid we trom the land the case were it ould not be tance merits, more valuable in valuabl tance merits

"The loss of manure ought to be guarded against with zealous care; certainly with as much as is given to guarding against the loss of given to guarding against the loss of any other farm product. For it must be borne in mind that the manurial value of in mind that the manurial value of feeds like bran, after it has passed through the cow, is worth \$10.50 per ton; of red clover, under the same condition, aproximately \$7.30 ret ton; of of linseed neal, \$16.77 per ton; and of cotton seed meal, \$19.70 per ton." feeds like

********* CITY MILK SUPPLY DEPARTMENT Keessaassaassaassaassaasaasaasaasaa

Producing Cream For City Use

The shipping of milk and cream to the cities of Montreal is proving a profitable line of farm-ing to many hundreds of farmers livand Ottawa ing within shipping distance of these cities. The demand from these cities and cream has been increasing rapidly of late years, with the result that hundreds of farmers are now following this line of farming a few years ago, sent their milk to cheese factories and creameries. On some of the farms, considerable ex-pense has been incurred to ensure the pense has been incurred to ensure the milk and cream produced, reaching the cities to which it is shipped in the best possible condition. One of these farms is that owned by Senator Venens, of Monte Bello, Quebec. It is situated about half way between Montreal and Ottawa and within shipping distance of either site. ping distance of either city. Senator Owens has one of the best equipped dairy farms in Canada and a splendid herd of pure bred Ayrshire cattle.

COWS FRESHEN IN OCTOBER

" I find," said Senator Owens to a "I had," said Sanator Owens to a representative of Farm and Dairy who visited his farm, "the he most profit-able time for me the most profession is able time for me to me the farm of October. We have them freshen, before, from September to November, the high prices for milk and cram, he high September to November. The high prices for milk and cream are from October lat to May lat. By having our cows freeh in the fall, we are able to ship the most of our milk at the time when we get the best price for it. We separate our milk and ship cream testing about 40 per eant, for which we receive \$1.80 a. we receive \$1.80 a cent., for which we receive \$1.80 a gallon. From this must be deducted 5 to 7 cents a gallon for shipping 5 to 7 cents a gallon for shipping charges. Compared with the prices paid for milk, this price is equal to about \$2.00 for 100 pounds of milk. "When the first of Maycomes, we go

"When the first of May comes, we go on strike and send our milk to a butter at cheese factory at our door. When the cows go on the fresh grass, in the spring their production of milk increases and for some time, they give almost such as freshly calved cows. By the time the pastures have become dry, thousand the such as the such his enlidren are able to do the most of the milking. In this way, our cows are resting during the busiest sensor of the year. It is the season also, when the prices of milk are the low-

"In winter we feed clover hay or mided timothy and clover, with corn and consider the consideration of the conside "In winter we feed clover hay or We generally give a feed of bran and ground oil cake with the ensilage or such other concentrated feeds as can be bought to th best advantage. A year ago, we fed bran and gluten meal E.O., we fed bran and

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Use it Outside and Inside Buildings.
There are thousands of OLD WEATHER
BEATEN houses, barns, sheds, haggens, hen houses, etc., throughout the country that never saw a drop of paint, and it is for the class of brildings that Powdr Paint is especially of the class.

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AND NEIGHBOR ALIKE, because it ira large quality of oil paint required rer makes its use too expensive to be pra

ical.

But not so with Powdr Paint, it has so
such body that one coat will fill the croaks,
and crerices even and smooth up the surmore perfectly than two coats of cil
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THE UTILIZATION OF WOOD WASTE BY DISTILLATION

A general consideration of the NEW INDUSTRY, including a full description of the distilling apparatus constitution of the distilling apparatus on the constitution of the produce, first and disposal of the produce, first and disposal of the produce, first and posal of the produce, first and posal of the produce, first and the posal of the pos

WOOD WASTE DISTILLERIES CO. 213 to 217 St. Clair Ave., Cleveland, Oh

English Gooseberries
At the conference of the American
Pomological Society that was hold in
St. Catharines, Out., Sept. 15-17, an
interesting address, illustrated by
specimen fruits in bottles, was given
by Mr. R. B. Whyte, of Ottawa, on
the subject "How to Grow English
Gooseberries Free from Mildew." The
speaker said that our native varieties, the Houghton being an example,
are free from mildew and can be ties, the Houghton being an example, are free from mildew and can be grown anywhere. The hybrids, such as Downing, Pearl and Red Jacket also are free from mildew and are superior in size and quality to the natives; they are the commercial berries of America. The English s of America. The English rieties, such as the Whitesmith and Industry, have not been grown with much success in this country owing to their susceptibility to mildew and sun-scald. To grow them successfully they must be planted in clay loam soil, well fertilized, and cultivated. To equalize the temperature, which is ne-

HORTICULTURE

HORTICULTURE

The meeting, the writer not being present. Mr. Dargitz is secretary of the California Fruit Exchange. An example of the value of co-operation was told by Mr. Robt. Thompson, St. Catharines, Ont. These three papers will be published in part or in full in a later issue.

In a paper on "Co-operative Mar-

In a paper on "Co-operative Mar-keting," Mr. W. H. Reid, of Ten-nent, N.J., told of an organization in his state, only one and a half years old, which had been most successful. old, which had been most successful. He cited an instance where the organization had prevented a crash in the market. On July 30th, the manager had 35 cars of potatoes on the track for sale. He knew from reports of the canditions in New York, that there was danger of breaking the market. To prevent this he told the agents of the organization in the various localities to ask the usembers to stop diagring. He shipped 22 cars various localities to ask the numbers to stop digging. He shipped 22 cars and held the remaining 13 for two days, when they were sold profitably and the market sustained. This organization has increased prices all around and has made the local buyers come up. In the year's work, ers come up. In the year's work, nothwithstanding some mistakes, draw-

Central Experimental Farm Exhibit that won a Wilder Silver Medal at NiagaralDis trict Exhibition

central Experimental Farm Exhibit that we a wilder Silver Medal at Niagara Dis trict Exhibit not directly under them. In very dry weather, water must be applied, or mulching resorted to. A pruning system must be adopted that will keep the under the second of air, prune fairly closely; if too close, liable to mildow; if too open, liable to sun scald. Prune in September. Among the varieties of English gooselerries, recommended by Mr. Whyte are the following: Red-Sportsman, Slaughterman, London Red, Victoria, Crasby: white-Whitesmith, Triumph, Keepsake: yellow-Weatherall, Alma; green-Lofty, Green Ocean and Conn.

Fruit Packing and Marketing

One of the sessions of the American Pomological meeting in St. Catharines, Ont., was devoted to fruit pack Catharof M. A. McNeill, Chief, Fruit Division, Ottawa. The chief referred briefly to the co-operative fruit growbriefly to the co-operative fruit grow-ers' associations of Canada. He said the depth of fitteen inches so much that the best one is the St. Catharines Cold Storage and Forwarding Company. There has been much progress in co-operation in the past 15 today of the state of the sta

backs and losses, the receipts increased wonderfully. Potatoes and apples are handled chiefly. These are distributed where the demand is, regardless of nearness to market.

Preparing Soil for Strawberries

For best results the soil for straw-berries should be made ready the year before the plants are to be set. The preparation the soil receives before the strawberry plants are set very of-ten determines whether the yenture will be a success or not a ten determines whether the venture will be a success or net. Access of net. Acces

Deep plowing is very desirable, as this is the last opportunity to culti-vate deeply during the life of the bed. If the ground can be pulverized to the depth of fifteen inches so much

smoother or leveler, leaving the surface perfectly smooth. When the ground is very clody it is activable to crush the clock with a roller taking care not to pack the soul too firmly. Where the soil is very sandy it should be thoroughly firmed, as the plants will root much better than if left loose. Ground with numerous aispaces such as are found in cloddy soil, forms a very poor bed for setting plants, as has been found out by experience.

perience.

If turf land is to be used for straw-berry culture it would be advisable to cultivate to some such crops rs pota-toes or corn the preceding year. This will Lreak up the sod and put it in good condition to receive the plants. Sod land is often infested with num-Sod land is often intested with num-erous insect pests which are disastrous to the newly set plants. By culti-vating to some other crop first the in-sects will be given a chance to starve

Orchard and Garden in Fall

Prof. W. Lochhead, Macdonald College

Intelligent fall cleaning of the orch-Intelligent fall cleaning of the orch-ard and gardens is now recognized as a most important factor in successful fruit culture. After the rule of the shipping and storing of the fruit there is usually a week or two of fine weather when rubbish can be raked up and burned, and the necessary late plowing done. The value of careful fall cleaning lies chiefly in the fact that many of our most destructive insects and fungi are destroyed in the process. A few observations during the fall and winter will show how insects and fungi are approached by the fall and winter will show how many insects pass the cold period of the year. The egg masses of the tent caterpillar, for example, will be found caterpillar, for example, will be found caterpillar the smaller branches. If encircling the smaller branches. If these bracelets of eggs be removed when these bracelets of eggs or removed whenever seen, much serious injury will be averted the following spring, for each bracelet of eggs destroyed means the removal of 200 to 300 caterpillars. The egg masses of the fall canker we male so may be found in small flat masses near the forks of the smaller branch-

near the torks of the smaller.

See and twigs.

The codling worm of apple passes the winter in a bark and boards and overvices.

Birds destroy many of the cocoons concealed on the trunks, but it is alsoncealed on the trunss, but it is always advisable to scrape off the scaly bark, especially that near the ground, and to cut off all dead and cracked Codling worms are often carried into fruit cellars and store houses in the autumn. In the spring such cellars should be cleaned out thorough. ly and the debris burned before the

ly and the debris burned before the mothe scape to the orchard.

Many species of cutworms pass the winter under old boards, clods, or other protection. A thorough cleaning in late fall will reveal many of these cut worms. Poultry are valuable helpers at this time. If these are not available, a poisoned bran bait scattered over the soil will produce good results.

results.

White grubs, when present in the soil, may be destroyed in large numbers by late fall plowing. Tarnished plant bugs, the various fear-hoppers, squash bugs, the cucumher beetles, Colorado potato beetles, grape vine flea beetles, plum curculios and others was the ways in or under vegetable.

flea beetles, plum curculios and others pass the winter in or under vegetable trash, and a thorough cleaning often works wonders in ridding the garden of these undesirable guests.

A thorough cleaning of the orchard and garden in late fall will also destroy many of the fungi which remain on the ground in diseased leaves and fruit. It is a well-known fact that many injurious fungi produce winter spores, and though the leaves decay, the spores do not. In early spring

FALL TERM

BRITISH AMERICAN BUSINESS COLLEGE Y. M. C. A. BUILDING TORONTO

BEGINS ON SEPTEMBER FIRST

ol is the oldest and best of its This school is the oldest and best of its kind in Canada, and intending students will do well to write for catalogue before selecting a school. T. M. WATSON - PRINCIPAL

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IMPERIAL WASTE & METAL CO.

6-13 QUZEN ST., MONTREAL



together and burned. They

together and burned. They should not be thrown on the manur pile, for then the speres will be able to survive the winter and reproduce the disease the following separate the second services and survive many fungi persist in the spring and produce spures.

If a cover or mulch is desired to lessen root injury and prevent winter-killing, it can be applied after the cleaning has been done. If more care were taken in the annual fall cleaning of gardens and orchards, there would not be that urgent need for summer spraying to control the insects summer spraying to control the insects and fungous diseases. Another important factor in successful fall cleaning is to convince our neighbor that he also must clean his garden and orchard. Then what is left undone by orenard. Then what is left undone by the careful gardener will often be done by the winter birds. The chick-adee, the nut-hatch, the golden-crown-ed knight, and the woodpeckers, are most valuable agents in the destruction of insects. All winter long they hunt diligently over every limb for hib-ernating insects and insect eggs.

Farm Photos for All

Secure this Camera FREE OF COST



What boy or girl would not like to have a camera of their own this summer. Here is a chance to get one free of cost. This roll film camera, fixed of cost. This roll film camera, fixed to the cost of the cost of

Circulation Department,

FARM AND DAIRY PETERBORO, ONT.

September **300000000** POU

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Hy. Glendinn This is the t that all broker so that the fow to draughts of perches in good liberally in all walls and per and give every a good spray added a quan acid. See that ed to go into w are sure to pro

If any fowls legs, apply coa many are affec good plan to with coal oil in that the hens walk through i out or come int

Money Mrs. A. R., There is mon right people ha ness. If people any vocation ar make it pay, the We keep about of them and try fortable in every to surprise them something they i tatoes sliced up. hen house, so the it necessary to mouthful. We p tch for their ex

I raised quite a year, but more t erels. Those I k market. It is a market. It is a and kill the old set one hen in Ju had 16 chicks and mirable mother. variety of food, r grit is the way to fill the egg baske to attend to them sell from 24c to 27.

sell from 24c to 25 sell from 24c to 25 Poultry raising is a general rule, mer interest in it. Th tion to their pigs, But some women in the business ar pin money, they but with the egg more with the egg more than the self more properties. with the egg mon farmer's wife who j some flock of hens were children. S were children. S them supplied with and never allows th water in winter. water in winter. Sigularly and tries to fortable in every when the neighbor's her's lay straight a customers know the her word, and she sale fresh eggs only readily.

we believe that fr pay better than a lathey are overcrowdeliable to disease.

A We sized

Poultr: ments Your Stock a

Seasonable Poultry Pointers

Hy. Glendinning, Ontario Co., Ont. This is the time of the year that the henhouse should be looked after. See that all broken windows are repaired, so that the fowls will not be subjected to draughts of cold damp air. Put all perches in good repair. Use coal oil perches in good repair. Use coal oil liberally in all of the cracks in the walls and perches to destroy mites, and give every part of the hen house a good syraing, with a whitewash made of fresh lime to which there is added a quantity of crude carbolic acid. See that no old hens are allowated to the control of the contr Use coal oil

acid. See that no old hens are allow-ed to go into winter quarters, as they are sure to prove to be boarders. If any fowls show signs of scabby legs, apply coal oil to the parts. If many are affected with scabs, it is a good plan to have a shallow vessel with coal oil in it at the entrance, so with coal out in it at the entrance, so that the hens will be compelled to walk through it every time they go out or come into the house.

Money in Poultry

Mrs. A. R., Queen's Co., P.E.I. There is money in poultry, if the right people have hold of the business. If people take an interest in people take an interest in tion and are determined to any vocation any vocation and are determined to make it pay, they generally do so. I have found poult resisting a very pleasant way to earry raising a very pleasant way to earry raise and fond of them and try to make the form of the pay of the necessary to jump up for each outhful. We planted a good sized atthe for their exclusive use last year, mouthful and we were paid for our trouble.

and we were paid for our trouble. I raised quite a lot of chickens last year, but more than half werens. Those I killed and sold in the market. It is a good plan to fatten and kill the old hens in March. I set one hen in June on 16 eggs. She had 16 chicks and nrayed to be an adhad 16 chicks and proved to be an admirable mother. Good attendance, a mirable mother. Good att variety of food, milk and arriety of food, milk and plenty of grit is the way to persuade Biddy to fill the egg basket. It certainly pays to attend to them properly, when eres sell from 24 to 25c a dozen. Poultry raising is women's week

sell from 24c to 22c a dozen.
Poultry raising is women's work. As a general rule, men do not take much interest in it. They pay more attention to their pigs, sheep, horses, etc. But some women succeed admirably in the husiness and hesides haying to the husiness and hesides haying. but some women succeed admirably in the business and, besides having pin money, they buy all the groceries with the egg money. I know one pin money, they buy all the groceries with the egg money. I know one farmer's wife who just loves her handsome flock of hens, almost as if they were children. She always keeps them supplied with fresh clean water, and never allows them to drink frozen water in winter. She feeds them regularly and tries to make them comfortable in every way possible. And guarly and tries to make them con-fortable in every way possible. And when the neighbor's hens stop laying, her's lay straight along and, as her customers know they can depend on her word, and she always offers for sale fresh eggs only, she sells them

readily.

We believe that from 50 to 60 hens pay better than a larger number. If they are overcrowded they are more liable to disease. Ventilation should

A Week for this sized space for Poultry Advertisements. Advertise Your Stock and Sell it

POULTRY YARD be supplied, for impure air invites disease. The key note to success in the poultry business is—"Keep the hens busy." The hen house must be kept clean and the fowls should have a waired dis. Same meat and a mash varied diet. Some meat and a mash every morning. At noon, they should have some vegetables either cabbage every morning. have some vegetables entire carbage or turnips raw. In the evening give them a good meal of oats or wheat. And they must be supplied with grit, and some sand and clay, for their dust bath. To keep them free from dust bath. To keep tuest with in-lice dust them once a week with in-sect powder or sulphur. The Wyan-dottes are good general purpose fowls duttes are good general purpose sitthough they are very determined sit ters. I have some Minorcas. The are non-sitters, and excellent layers.

Where the Poultry Producer Stands To-day

Prof. F. C. Elford, Macdonald College.

The Dominion as well as the Provincial Government has done much to better class of poultry. They have also shown him how to prepare it for the marketing of both poultry and eggs he had to do for himself. As a result his eggs require several weeks' time to reach the consumer's table, passing through the hands of four or five middlemen, each taking his share of the price.
The dressed poultry has to be sold
when the market is glutted thereby getting a small price, the large mar-gin between his price and the price, the consumer pays for it goes to the middlemen. The fact that each pro-ducer, be he small or large, markets his own stuff without any recognized

Sell Your Poultry

Have you some pure bred poultry for sale? Why not place an advertisement in our "Poulan advertisement in our try for sale" column. T The cost is only two cents a word for each insertion. Remember 95 per cent. of our readers keep poultry and are possible pur-chasers of your stock. Tell them what you have to sell. play advertising rate for poul-try advertisements is \$1.00 an Our dis-

grading results in a lack of uniformity that hurts the trade.

The remedy for these evils might consist in: (a) Some system of marketing that will equalize the supply and demand. (b) A co-operative system of grathering and shipping and shi and demand. (b) A co-operative sys-tem of gathering and shipping the eggs, killing, grading and marketing the dressed poultry. (c) Through co-operation make use of cold stor-

THE MARKET.

The prospects for a good market in Canada are very good. Every year the demand is greater for a good quality of poultry. Several years since we had any the growing the market is growing. The market is growing. The market is growing to the market is growing to the market is growing to the proper quality and not in the demand, which is considered practically limitless.

Wholesale dealers say they will take Wholesale dealers say they will take all the poultry of good quality that can be produced and are willing to contract ahead at good prices. Sev-eral firms in Great Britain would place orders for tons and tons of dressed poultry if it could be produc-dressed poultry if the produc-dressed poultry in the produc-poultry in the produc-dressed poultry in the produc-poultry in the produc-poultry in the produc-poultry in the produc-poultry in the produc-try in the produc-poultry in the produc-poultry in the produc-poultry in the produc-try in the produc-poultry in the produc-try in the produc-try in the produc-try in the produc-try in the produc-poultry in the produc-pou dressed poultry if it could be produc-ed. Canadian shippers cannot at-tempt to take orders as our supply is such that there is practically no poultry available for export. Should market conditions be so regulated as to assist the producer to get what his produce is worth, and more of the to assist the producer to get what his produce is worth, and more of the consumer's price reach the producer, the farms of Canada could be made to produce an enormously increased

revenue and the export trade might in time equal that of any other branch of agriculture.

Cull the Flock

There will be a number of the heas in the flock that will not pay to feed over winter. They had better be killover winter. They had better be kill-ed off and their places given to pul-

Make it a rule to keep no old hens, one over two years. Kill those that

Make it a rule to keep no old hens, none over two years. Kill those that are continually broody; some hens spend a good deal of their me on the nest, and lay very few eggs.

A few hens will moult late and not get into condition for laying again until next spring—too late for the high priced eggs in the early part of the writter.

Don't keep hens around the place Don't keep hens around the place that are always ailing; like some peo-ple they are never well. Such hens lack in constitution, and will never make profitable layers and should never be bred.

As soon as a hen ceases to pay she should be gotten rid off. It is not the few good layers in a flock but the flock that gives the good average. The way to get the good average is to cull out the drones.

Where the trap nest is not used where the trap nest is not used the best way to do this is to be care ful and keep the old ones killed off Cull off the drones that are known, and put in their places pullets well made to the transfer of the transfer of the transfer tip and as near as you can tell from tion and as near as you can tell from your best hens.—F. C. E.

Co-operative Selling in Denmark Prof. F. C. Elford, Macdonald College.

Prior to 1895 poultry conditions among the Danes were not far different to conditions here except that they had several poultry societies for the promotion of Lreeding. The market end of the industry was unsatisfactory. The Co-operative Egg Expert Society was formed to assist in the putting of the eggs on the market. It acts in conjunction with the existing societies. By means of the existing societies By means or local societies it collects the eggs from tocal societies it collects the eggs from the members and forwards them to conditions here except that the members and forwards them the members and forwards them to one of the nine export packing sta-tions. At these stations they are tested, graded and repacked m wood-en boxes holding 1,440 eggs in which they are shipped to Great Britain. These packing stations are so well equipped for determining the fresh-

equipped for determining the iresn-ness of eggs and the system works so well that even attempts at fraud are rare. Boxes are all stamped with the brand or trade mark of the society, the grade, weight, and number of

The co-operative societies in other countries have been copied more or from Denmark and are giving satisfactory results.

Selecting the Breeders

Mark the early laying pullets with leg bands and use the first eggs seleg bands and use the first eggs se-cured from them the coming season, as early as January or February. The puller that does not begin to lay un-til late is not the right sort for a begin to the puller than the puller than the puller than the puller than the body and legs placed well out, should be weeded out of the flock, as shown than the puller than the puller than the puller than will any take a growth the first has should be weeded out of the nock, as she will not make a good, thrifty hen. Fowls with a narrow head, long Leak

and legs set far back, should be avoided. Choose those having a deep chest, erect carriage, wide head and bright eyes.

Save the feathers; geese feathers are always high and duck feathers are worth almost as much. Turkey tail feathers bring from 30 to 40 cents a feathers bring from 30 to 40 cents a pound, being used in making feather dustors. Even chick feathers are worth saving, although they some times get down to five cents a pound. The white chicken feathers are worth 30 to 35 cents a pound.

Attend the Poultry Shows

Fanciers who wish to attract atten-tion to their fowls can do so by plac-ing them in the shows. A blue ribbon tion to their rowis can do so by plac-ing them in the shows. A blue ribbon is a splendid advertisement. It is also an incentive to all breeders to improve their stock, because people can see for themselves and learn what can see for inclinatives and tearn what are the strong as well as the weak points. Many a person may have a prize winner in the back yard and not know it, consequently all true fanciers who are in love with the work should and the work should not only attend the poultry shows, but should place their best fowls on exhibition. It is true the intrinsic value of the of the premiums awarded at poultry is the honor of winning, and the advertising, which are well worth the effort and amply repay the exhibitor.

Hens will go without drink rather than drink dirty water. Have it clean for them, and plenty of it, too.

There is a good deal of human nat-There is a good deal of human nat-ure about old roosters. They will make life miserable for the younger members of the flock of the same per-suasion. Better separate them, even if you have to do it with a good sharp

POULTRY FOR SALE

Advertisements under this heading, two cents a word, payable in advance.

SINGLE COMB WHITE LEGHORN cocker-els, April hatch, \$1.00 each, if taken at once. Also M. B. Turkeys. \$7.50 for trio. -Walter Armstrong, Mt. Albert, Ont.

FOR SALE.—Good Rose Comb Brown Leg-horn Cockerels, \$1.00 each if sold soon. Also Rouen ducks, \$2.00 each.—J. H. Ruth-orford, Caledon East, Ont.

Make Money From Poultry

There is good money to be made rom the sale of poultry. Are you asking all the money you might out f your poultry? Get a copy of the ook—

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And learn some of the impreved methods of caring for and fattening poultry. This book corporation is not considered to the business in a thoroughly of the business in a thoroughly of the business in a thoroughly of the business of the bus

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Poultry Architecture

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FARM AND DAIRY

AND RURAL HOME

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6. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles.

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The paid subscriptions to Farm and Date of the Man of the Company of the Man of the Man

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

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FARM AND DAIRY PETERBORO, ONT.

THE ONTARIO AGRICULTURAL COLLEGE

The Ontario Agricultural College is filled to overflowing. So great is the overflow, which is far in excess of all previous records for the Guelph institution, that President Creelman has found it both necessary and advisable to interview the Minister of Agriculture regarding the providing of additional accommodation for those who seek to enter these halls of learning.

It is gratifying to note that the course, as given at the College, has become so popular. The time was, and not many years ago, when the College went begging for students. The attendance this year is but another sign of the times, indicating that our farmers have found that it is good to follow scientific instruction in their farm operations. All encouragement should be given to the work of this institution-the farmers' university. The Legislature will, no doubt, not be backward in providing, at the next session, the additional accommodation that is needed.

STABLE THE COWS EARLY

The organism of the dairy cow is of a delicate nature. Severe changes in the weather and the cool nights of early fall affect her adversely. The dairyman who understands his cattle knows that to consider the comfort of his cows means increased, or at least sustained production. Accordingly he stables his cows on such nights as he himself would be uncomfortable in the open chilly air.

Failure to provide comfortable quarters and an abundance of feed at this season of the year causes much falling off in milk-flow and shrinkage in the dairy output, which spells loss to our farmers and to our country. It is unreasonable to expect any cow to milk well when she is not protected on cold nights from chilly winds, and all cow owners know from experience that whether they expect it or not, the cow simply will not milk her normal production under adverse conditions. It pays to be good to the cow. Stable her on the approach of inclement weather, and when you would not care to be outside yourself.

PASTURE

More acres in Canada are devoted to pasture than to any other crop. Net profits from these acres are probably the least. Against this, we must allow that much of this pasture area is of poor, rocky, swampy or broken land. It is a fact, however, that we have little good pasture in Canada, if the comparison is made with Great Britain. How comes this about? Is it the soil, the climate, the kinds of grass, or the manner of treatment. that is at fault? More than one of these factors are responsible.

As to soil, we have, perhaps, as good average soil as that in any country. Our climate, however, is dry and hot at certain seasons, which is against us. We have hard frosts that often injure the plants in winter and in spring, when the fields are bare of snow. The kinds of grass sown are principally red and alsike clovers and timothy. Let us examine these and note results.

Red and alsike clovers are both biennials. They usually die at the end of the second year, provided they have gone to seed. Red clover is a continuous grower during the summer of the second year; but alsike grows only until about July the first. After that its growth is practically nil. Both of these clovers furnish nutritious feed. Timothy is a perennial and grows well until about the middle of July. It flourishes again when the moist weather comes in autumn. Two years after seeding, there is practically nothing left in a clover and timothy meadow but the timothy, and it, at best, is a plant of low feeding value.

Contrast these conditions with those of British meadows or pastures. Farmers in Great Britain sow in mixtures usually about 22 varieties of grasses and clovers, the natural characteristics of some of these being to produce a luxuriant growth at some certain period of the year, all not being at their best at any one time. In our older sections, pastures are most-

in hay. These would not compare dian fruit mark cannot be accepted as with the old permanent pastures of Great Britain that have been continually grazed for hundreds of years. Such pastures in the Old Land rent for several times as much per acre as well tilled land adjoining them. The grass on the fields is so close and fine that in walking over them the foot sinks, not unlike one's hand when placed on fine velvet.

The best pastures that we can boast of are natural grass that never have been plowed. These get scant justice, considering the amount of feed they have contributed towards milk and beef production. They seldom get a coat of manure. Club moss is allowed to take possession of the ground. The whole field becomes hide-bound for lack of harrowing or discing. Many allow stock to graze upon them until snow comes. Were our pastures treated properly, seeded to well selected grasses, manured as, they should be, and harrowed as seemed advisable, they would compare with others much more favorably, and would yield far in excess of their present returns.

PROVISION FOR NEXT YEAR'S CORN CROP

Much of the success of the Ontario dairyman depends upon his corn crop. Experience in the past has taught us all too plainly that the success of the corn crop is largely dependent on the vitality of the seed planted. The seed, which will be used next spring, is now in the making. It will be of strong or weak vitality, good seed, or bad, depending on the care that is exercised in its selection and in storing it for the winter.

Specific instructions for harvesting and storing seed corn have been given in Farm and Dairy by those who make a business of seed corn. These need but to be applied in saving seed for next year's corn and for the most part the success of next year's crop is assured. Well matured ears from desirable stocks are the kinds to save. Braid these by means of their husks. or tie them together loosely, and hang them up in the kitchen garret or other dry warm place and you will have seed of good vitality when planting time comes around again next

Dishonest Apple Packers

(The Toronto Globe.)

A despatch from Glasgow by the Canadian Associated Press reports complaints against the packing of apples from Canada for the British market. The largest fruit dealer in the north of Scotland asserts that formerly the low grade apples were packed in the bottom of the barrel, which necessitated the opening of both ends. This year they are packed in the middle, and every barrel must be emptied for inspection. The despatch adds that Canadian apples hold the first place in the Glasgow market, and when honestly packed they command the best prices.

These complaints should increase the zeal of all Government officials in Canada having to do with the fruit ly of the temporary kind. Fields are trade. It is not only a scandal and fine art of showing live stock. It is

honest on the British market, but it is also ruinous to Canadian trade. Every inspector and every honest fruit merchant should join hands in a persistent effort to expose and punish the dishonesty of such as bring the trade into disrepute.

Publicity is a great deterrent. Every instance of bad packing or false marking should be punished severely and published widely. The experience of The Globe in a suit for libel brought by a dishonest packer several years ago resulted in an amendment of the Ontario law so as to allow as privileged the publication of such official announcements. Advantage should be taken of that amendment to put the fear not only of a fine but also of public reprobation on all who for dishonest and selfish purposes destroy business confidence either in Canada or abroad. No leniency should be shown to such short-sighted dishonesty, either by the officials, by the courts, or by the Press.

The Art of Showing Live Stock

(The Breeders' Gazette).

It requires outstanding entries to win the top prizes in close competitions at our shows, and it takes grit and self-control in exhibitors either to win or lose. An embittered, long faced, talkative loser injures himself and his business; his loss of prizes is as nothing compared with the effect of his childish conduct on spectators and himself. A boastful and arrogant winner is equally unpopular among onlookers. Whoever has witnessed competitive live stock judging with eyes and ears knows that the exhibitor must pass through a more trying ordeal than the judge. To adminster bitter pills may be comedy; to take them is tragedy. Men who are fortified with the quiet inner power that reflects character are sportsmanlike losers. They take their medicine without visible or audible protest, and this attitude is of larger value than the honor that lurks in a bit of blue silk. Judges, however, do not take an irresponsible delight in rendering stinging verdicts; most of them have been in exhibitors' uncomfortable shoes, and are consequently full of a manly regard for the feelings of those on whose animals they pass judgment.

At the same time no judge worthy of the office will allow this wholesome undercurrent of human sympathy or a type of professional friendship to dim his vision of what is right. Failing to please himself he cannot hope to satisfy others. But almost every important class at a show includes two or more entries whose differences in merit often dwindle down to the attenuated predilections of the judge. In such cases there is an opportunity for him to give someone the benefit of a doubt. If he is human, he is not likely to favor an exhibitor who on other occasions or in preceding classes has condemned him with countenance or tongue. Let no man fear a judge, but if he is of good repute his work should be respected and accepted.

Some men have not mastered the pastured after being one or two years a disgrace to Canada that a Cana- easier to breed and fit winners than it

is for some me as dignified ri feat. So subt conduct and at exhibitors that judges may ju their animals. judge's decision that official's mi critics. Exhibit customed to blu the white feather turned. Success habit and they breaking up wi ment and anime have the right i must be wrappe at a show, but t enough to see has. When the maintain an in defeat and a mod or in triumph, th art of showing I they have risen which keeps the turmoil during o Hetettettet

Creamery

Butter Makers are tions to this departm matters relating to bu gest subjects for dis letters to the Creame Reseasassas

Creamery I (Continued f

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MORE EFFICIENT
As a third impadvocate more efficient ness amongst our b alize that I may be ice when I say a butter makers. The ers are good, well we still have some with the fine arts of their

Some makers do test properly, whill less and do their w With our well equip there is no excuse ledge in ordinary maker should see to proper training for about to undertake say that this critici a small percentage of it should not have any. Another point the makers upon is It is an u to speak about, but their patrons a bad dressed in a dirty of ner around the conshould also rememb manufacturing a todress accordingly.

MORE EQUIPME *Read at the Creame Guelph, Dec. 9, 1908, h

is for some men to acquit themselves as dignified rivals in victory or desent equipment of our factories. While feat. So subtle is the influence of conduct and attitude on the part of exhibitors that without knowing it judges may judge men as well as their animals. Contempt for a judge's decisions breeds contempt in that official's mind for his vituperative critics. Exhibitors who have been accustomed to blue ribbons often show the white feather, when the tables are turned. Success with them becomes a habit and they cannot endure its breaking up without protest, resentment and animosity. Stockmen who have the right interest in their work must be wrapped up in their entries at a show, but they must also be big enough to see what the other man When they can do that and maintain an inoffensive bearing in defeat and a modest, quiet good humor in triumph, they have mastered the art of showing live stock. Moreover, they have risen above the pettiness which keeps the most of us in a futile turmoil during our short lives. Resessessessessesses

Creamery Department

Butter Makers are invited to send contribu-tions to this dopartment, to ask questions on matters relating to butter making and to sug-sest subjects for discussion. Address your letters to the Creamery Department.

Creamery Improvement*

(Continued from last week.) (Continued from last week.)
As a second improvement I would suggest that creamery directors and managers be more particular in the class of men they hire for cream drawers. Owing to our present system of gathering cream it very often the creamery that the patron medy and the creamery that the patron medy, and the creamery that the patron medy and the creamery is often induced or so that the creamery that the patron medy and the creamery is often induced or so that the creamer is not a so that the creamer i that the patron meets, and the cream-ery is often judged from the patron's impression of the cream drawer. A good intelligent cream drawer can exercise a splendid influence over the patrons on his route and do much to improve the quality of the cream, but a poor drawer will have exactly the opposite effect. This is often very noticeable on different routes at the same creamery. If something could be done to instruct cream drawers each spring, it would have a very beneficial effect to-day. MORE EFFICIENT MAKERS NEEDED

MORE REPRICIENT MAKERS NEEDED.
As a third improvement I would advocate more efficiency and carefulneas amongst our buttermakers. I realize that I may be treading on thin
ice when I say anything criticising
butter makers. The majority of makbutter makers. The majority of makers are good, well-trained men, but
ers are good, well-trained men, but
ers are good, well-trained men, but
ers are good, well-trained men, but we still have some who are deficient in the fine arts of their trade.

Some makers do not know how to test properly, while others are care-less and do their work too hurriedly. less and do their work too hurriedly. With our well equipped Dairy Scholos there is no excuse for lack of knowledge in ordinary details and each maker should see to it that he has the proper training for the work he is about to undertake. I am glad to say that this quitidine. say that this criticism only applies to say that this criticism only applies to a small percentage of our makers, but it should not have to be said about any. Another point I must criticise the makers upon is their wearing apparel. It is an unpleasant subject to speak about, but many makers set their patrons a bad example by being dressed in a dirty and slovenly manner around the creamery. Makers should also remember that they are should also remember that they are manufacturing a table delicacy and dress accordingly.

MORE EQUIPMENT NEEDED.
The fourth improvement I would *Read at the Creamery Meeting, O.A.C., Guelph, Dec. 9, 1908, by Mack Robertson.

sent equipment of our factories. While many are well equipped, some are lacking in important apparatus. The lack of a cooler in some creameries for quickly and thoroughly cooling the cream as it arrives at the factory is a great drawback and no creamery a great drawback and no creamery a great drawback and no creamers have the cooler of the cooler of the cooler of the while he without one. Then, again, while he will be a cooler of the good cold of our creameries have good cold of our creameries have yeary poor ones, and one still have very poor ones, and one still have our aging to a butternaker, and the cooler of the cooler ing great pains to manufacter as one of the cooler of t ing great pains to manufacture a good ing great pains to manufacture a good article, to have to store it in a poor place or inferior cold storage. Still another important part in the equipment is the need of scales for weighing cream samples for testing. I believe that scales should be used, as they give more accurate tests and anything we can do towards being more they give more accurate tests and any-thing we can do towards being more accurate is worth doing. On account of cream weighing lighter than milk and the great variation in the quality and the great variation in the quality of cream as regards the amount of butter fat in it, it is more difficult to measure with the pipette. Then, again, when the cream is gassy, as again, when the cream is gassy, as it sometimes is after being kept for a month, it is hard to measure out eighteen grams. With the scale at can be carefully weighed. We are continually advocating the sending of a rich cream by the patrons, but again we find that the pipette will not mea-sure out circles. we find that the pipette will not measure out eighteen grams of a rich cream properly, while the scales will weigh it out accurately. If we wish our patrons to send thick cream we must test it accurately. As a comparison of testing with scales and with pipette I give below a few samples carefully tested by each method:

Test.

Test. Test Test

No Scales Pipette No. Scales Pipette 6 37% 35% 12 40% 39% 37 % 35 % 26 % 26 % 32 % 31 % 35 % 33 % 12 40% 13 38% 14 27% 27 21% 28 49% 37 21 9 25 25%

It will be noticed that invariably the test of rich cream is too low when the test of rich cream is too low when only the pipette is used, while in cream under thirty per cent. there is practically no difference. I might say that these samples were in good condition, the only fault was that some contained slightly too much preservative. preservative.

MORE UNIFORM METHODS REQUIRED. The fifth improvement 1 would suggest is more uniformity in creamery methods. If I were to introduce two methods. If I were to introduce two creamery patrons of two different creameries, I might name to each other, and and they began discussing creamery affairs, the one would hard-ily know what the other was 'alking' about. One would be resustance about the oil test and measuring by inches about. One would be recustomed to the oil test and measuring by inches, while the other would be used to the Babcock, and weighing by pounds. Now Loth of these methods cannot be the best; one must be better than the other and one must be more accurate. I am glad to say that in so far as the oil test is concerned our creamery men oil test is concerned our creamery men have practically decided against in There are only ten creamers and in the control of the with the measuring of cream by inch-es it is different. Many can be a control which have adopted the Babcock test which have adopted the Babcock test are still using the rule for assuring the cream. Measuring cream with it rule is not accurate. It is the the pipette, it all depends on the cream. If the cream is old, sour agasy, it credits the patron with too much cream, therefore I hold that cream should not be measured but weighcream, therefore I hold that the cream should not be measured but weighted. Measuring cream with a rule is in many cases a premium for pool cream. Why cannot we all agree creams who cannot we all agree the control of the control of

of uniformity is in paying patrons.

Some creameries pay for butterfat while other creameries pay for butterfat while other creameries pay for butterfat and patrons in some sections especially, are not surve which they are being paid for. It is butterfat that the patrons

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MONTREAL

VANCOUVER

supply to the creamery and it is but-terfat that they should be paid for. Many hesitate to pay for butterfat because patrons do not understand it, but they will never understand it if the creameries do not assist them by paying for butterfat and doing their best to explain it to their patrons.

WINNIPEG

Separation of Cream

Separation of Cream
The thickness or density of cream
depends upon two things, the centrifugal force used, and the regulation
of the cream outlook. In the separation by centrifugal force, the milk is
thrown to the outside of the bowl, because it is heavier than the butter fat,
the latter works in towards the centre,
and is known as cream; the nearer and is known as cream; the nearer the centre of the bowl the thicker the cream, providing uniform feed and speed are maintained.

Most separators have what is known as a cream screw that has an opening in the centre. When a thick cream is desired the screw is turned in, which carries the opening nearer the centre of the bowl, giving you a thicker ream.

Separators have different devices Separators have different devices for the removal of the cream, but in all cases the nearer the outlet is to the center of the bowl the thicker will be the cream provided the inlet of milk and speed are kept uniform. The cause of the variation in tests. in most cases, is due to the variation of speed in running the separator. If the machine is run a little slowly or below speed the result is a lessening of the centrifugal force, consequently more milk will be retained in the so-called cream, which will mean a low per cent. of butter fat. In addition to this the separator, will not skim clean

separators that had been operated at a low rate of speed and found the fat content in the skim milk to average content in the sam milk to average over I per cent., or one pound of but-ter fat in each 100 pounds of skim milk. Butter fat is too valuable a pro-duct to be wasted like this.—Prof. G. L. McKay.

I have received the Fountain Pen, and I am well pleased with it, and I will try to get more new subscribers for Farm and Dairy.—Willie Jackson, Carleton Co., Que.

THE BEST LINIMENT

OR PAIN KILLER FOR THE HUMAN BODY Gombault's

Gaustic Balsam IT HAS NO EQUAL

For -It is per ing, soothing healing, and for all the Sores, Bruise Wounds, Fel Human Corns and Body no equ

We would say to all who boy it that it does not contain a particle of poisonous substance and therefore no harm can result from its external use. Persistent, thorough use will care many all or chronic allments and it can be used on any case that requires an outward application spricet safety.

Perfectly Safe Reliable Rem Sore Throat Chest Cold Backache Neuralgia Sprains Strains Lumbago

Diphtheria Sore Lungs Rheumatism all Stiff Joints

REMOVES THE SORENESS-STRENGTHENS MUSCLES helli, Tex.—"One bottle Caustle Reisem die heumatism mere good than \$120.00 paid is "sbills."

OTTO A. BEYER.

Makers are invited to send contributions to this department, to ask questions on matters selating to cheesemaking and to suggest subsects for discussion. Address your letters to the Cheese Maker's Department.

Dairy Building at London

Editor, Farm and Dairy,—I have noticed that when you take a subject and present it to the readers of Farm and present it to the readers of Farm and Dairy for discussion, you are gen-erally successful in carrying it through. I have a complaint to make with the Western Fair Association as regards their dairy building, and should you think it a subject not to about you think it a subject not to their think of the property of the public very much for young, and try and better conditions for exhibitions in the dairy conditions for exhibitions in the dairy building next season.

When visiting the dairy building I was disgusted to find the cheese on exhibition in a very hot condition The cheese were sitting in a veritable veritable sweat box, which was easily seen by their greasy and puffed condition. This should be remedied by the asso-

on at once.

When makers go to the trouble and expense of putting their product in a expense of putting their product in a neat and attractive style on exhibi-tion, it is certainly the duty of the Western Fair, or any other associa-tion, to provide a means, whereby such products will be kept in their best condition, while in their hands. Through your paper, in the interests of the dairy business of Canada, I trust this condition will be remedied.

—Wm. Reid, Lambton Co., Ont.

Some Views on Makers' Certificates

Considerable talk and much exchange of opinion is prevalent amongst cheese makers concerning the matter of granting certificates. One point in particular that is raised is that of granting equal certificates of any lower grade than that given to the dairy schoool graduates of say two years' experience. The older makers who lack the qualifications given by a dairy school claim that the better way for the Department to do in this matter would be to grant yearin this matter would be to grant year-ly permits, these permits to be sub-jected to cancellation at any time should the holders of the same prove to be inefficient and not doing good Then if a maker took a factory not successfully manage it his certificate could be cancelled at any time that the Instructor should any time that the Instructor should report him inefficient and not doing good work. So the state of the state

Caring for Milk for Cheese Making

Editor, Farm and Dairy,—In reply to your request for a brief outline of my opinion concerning the method of caring for milk, recommended by Mr. Barr, Dairy Instructor, and what arrangement we have installed

Cheese Department prime condition, by the use of the aerator and cold water process, so that we have made free use of ice for years in earing for milk.

An ice house convenient to the milk stand with at least 100 blocks of ice, stand with at least 100 blocks of ice, is of the utmost importance to all dairymen, with an average amount of milk. We use a box lined with galvanized iron, say 20 inches deep, with room for two cans and plenty of ice around them, for say 15 cows. We stir the milk once or twice to get the milk from centre of the can in contact with the cold from the ice water. We find milk to keep in fine condition over Sunday, by putting on the lid and covering closely to keep out hot air in the rays of the sun. Another very important point is

out not air in the rays of the sun. Another very important point is great care in washing cans and pails. Our plan is to first wash in cold water as soon as possible to get all milk out, then add one tablespoonful of baking soda to each can and wash thoroughly in Loiling water, then rinse in cold water.

Being secretary as well as salesman of a chese factory, I have every op-portunity of comparing results, and I would say to all patrons of cheese I would say to all patrons of cheese factories, by all means send good mik and send the best milk you possibly can. As there is a heavy loss every year by patrons sending over-ripe, year by patrons sending over the gassy milk, the time is coming when patrons will insist that no such milk be allowed in cheese factories, as a few careless patrons may spoil the efforts of all the rest.—R. Bullock, Peterboro Co., Ont.

More About Whey Butter

Editor, Farm and Dairy,—It was decided at our last annual cheese meeting that the patrons would put in a butter plant and manufacture whey butter, and so far this season we have had good satisfaction and every had good satisfaction and every en-couragement to go right on making whey butter. The butter has all been of a good even quality and is liked well by all of our patrons, as well as by a large number of customers oth-

by a large number of customers other than the patrons. The butter has all been sold at 25c. a pound at the factory in one pound prints.

The factory has a basement under the wooden floor and here is the vat which receives the whey direct from the vat above. From the vat holes were at above. From the vat help we have the properties of the properties of the print of the patron of the print of the patron of ejector sumciently last to reed the se-parator, a Link Blade Simplex, to its full capacity, which is 5500 lbs. of milk per hour. After separation the whey is carried off to the whey tank

outside the factory.

The most important point in this whey butter manufacture is the immediate skimming of the whey after it leaves the curd and that the whey must be skimmed before the development of much acid, if we would get the best flavor and best keeping qualities in our butter.

After the skimming is completed After the skimming is completed the cream, of 44 to 30 per cent. butter fat, is immediately cooled to about the fat, but the cream, which is anywhere from 24 churned, which is anywhere from 24 churned, which is anywhere from 24 The most important point in this

to 48 hours. I add no starter to the cream whatever, except when I have had a tainted curd, usually on Mon-day, and this cream is pasteurized to a temperature of 180 deg. After a temperature of 180 deg. After cooling I add from 40 to 50 per cent. of good flavored cream, skimmed on Saturday, and on Tuesday morning Saturday, and on Tuesday morning this cream is in fine condition for churning and of good flavor. I find this method far ahead of a whole milk culture as the cream culture has a better control of the pasteurized cream than the whole milk culture.

after it is thoroughly mixed, be allowed to ripen together for at least 10 or 12 hours before churning at a low temperature. Thus we will have the same amount of acidity in all the cream to be churned and avoid streakiness or any mottling in the butter. This matter of mixing the cream is only second in importance to the advisability of quick skimming of the whey after it leaves the cheese vat.
My lowest yield of butter has been

4½ lbs. of butter from the whey of one ton of milk and my highest yield lbs., this latter from a vat of over-ripe milk. The average yield has been 5 lbs., which will increase as the season advances to about 6 lbs. For the past week (mid-August) the yield has been 51/2 lbs. of whey per one ton

of milk

The whey is still good for hogs and in much better condition to be car-ried home in the milk cans, owing to the fact that there is not any of the fat that formally accumulated on the whey tank to become polluted with yeast germs, etc., and the whey tank is always clean and easily kept clean. —W. R. Kaiser, proprietor and mak-er, Mitchelville Cheese Factory, Leeds Co., Ont.

The Maker and His Patrons

A maker strengthens himself and makes his position surer by coming in direct touch with his patrons as much as possible. When tied up in the factory during the making season a maker has little opportunity to visit his patrons. After the factory closes for the season he has ample time for such work.

The visiting of patrons is frequently postponed till a few weeks before by postponed till a few weeks before the factory opens in the spring. The visits at that time are mostly hurried and are more in the nature of a canvass for milk by the manufacturer or maker. The work of the coming season is rarely discussed, little information is given. season is rarely discussed, little in-formation is given about the care of the milk, and nothing very much is accomplished in the way of bettering the milk supply or improving the re-lations between patrons and makers generally. generally

It would pay makers to visit their patrons in the fall, when the work of the season is over. Everything is fresh in the memory and the quality of the milk received from each patron can be discussed and information given, if necessary, as to how it may improved the following season. patron is left to nurse his grievance a remedy can be sought during the winter. I a patron is left to nurse his grievance g the winter somepetitor may along in the interval, and the during maker lose a good customer. This is how new factories are formed adjactories are formed acceptations of the control of the con have grievances, sometimes real, sometimes imaginary. If left alone, and no explanation is received from the maker, these grievances some-times grow to large proportions, whereas if the maker would drop in on these patrons everything might be explained to their satisfaction, and a good customer of the factory retain-ed. Otherwise a small grievance may develop into develop into a mutiny against the maker and the factory, resulting in a competitive factory being erected, the business disorganized, and what had been a paying investment, ruined.

There are, of course, people who are always looking for a grievance. These are hard to manage, and a factory is often better without them than with them. Generally speaking, however, Mr. Barr, Dairy Instructor, and what arrangement we have installed from giving this attention to our milk, will say, in the first place that we will say, in the first place that we are well satisfied with the quality of the milk, and that it has been commented upon very favorably by our cheese maker. As we supply a large quantity of milk we found it very difficult in former years to deliver it in significant to the mixed and churned at the same time, the mixing should never be done while the cream is yet warm, especially if quantity of milk we found it very difficult in former years to deliver it in

Big Contrast



You would not bother with a cultivator that had 40 to 60 use less shovels.

Then why bother with a aisk-filled cream separa-tor, with 40 to 60 useless disks in the bowl, when the Sharples Dairy Tubular has nothing in the bowl exhere shown on

the thumb? the thumb CONTRACTOR OF THE PARTY OF THE

Sharples Dairy Tubulars are the only modern, simple, sanitary, easy-to-clean cream separators. Most efficient, most durable, lightest running. The manufacture of Tubulars is one of Canada's leading industries. Sales exceed most, if not all, others combined. The World's Best.



Winnipeg, Man

Milk from Silage

Toronto, Ont.

The Illinois Experiment Station reports: For the past nine years the department of dairy husbandry at the University has delivered from 100 to 150 quarts of milk a day to people in the two cities. During this time the cows have been fed an average of about forty pounds of silage per day, about forty pounds of shake per day, except when on pasture, and no com-plaints of a bad flavor in the milk have been received. Mr. H. B. Gur'er plaints of a pad havor in the milk have been received. Mr. H. B. Gur'er of DeKalb, who is one of the most progressive dairymen of the state, has been producing certified milk for the been producing certified milk for the past ten years and selling it in Chicago at 12 cents a quart. All of this time Mr. Gurler has been feeding silage to his cows, excepting during the season of the year when pasture was abundant, and with the best of results. This is strong evidence that if the silage is of good quality and used in reasonable amounts, it one of the best feeds obtainable for dairy cows when pasturage is when pasturage is not available.

Dairymen all over the country are beginning to find out the advantage cooling the milk in the simp way we advocated last winter. Our way we advocated last winter. Our work during the present summer is confirming the work of last year in connection with cooling milk.—Geo. H. Barr, Chief, Dairy Division.

I like Farm and Dairy well, and trust it will meet with the success its efforts deserve.—John Keenan, Frontenac Co., Ont.

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

FOR SALE. Warminster cheese and but ter factory, township of Dummer. Peter boro County.—David Taylor, Warsaw Ont.

WANTED.—Cheesemakers and defrymen to represent us during the fall and winter months, on full or part time. Liberal terms; pay weekly. Start now at best selling time. Stone & Wellington. The Fonthill Nurseries," Toronto. Ont.

CHEESEMAKERS-Can secure good winter employment by working for Farm and Dairy. If you mean business and are anxious to earn a good sum weekly, write for full particulars to Circulation Manager, Farm and Dairy, Peterboro, Ont.

SHE was telling that she had tor. Not a about her friend, tion, nor what ha occasion, and she lieved to find the not seem to have l cumstances of Ab

"Oh, I tell ye, fellow," she said, with enthusiasm. was wrong with he clapped his ey open his little sa chloroform into his his knives and sla asy as ma would in or Jimmie there, a

"Look at that no claimed, pulling or the stove and spitt "Yon's a man'll wherever he goes.

A knock sounded dy opened it and and Jim Russell. "I've got a letter Jim said when the over. "When Tom this evening this le in with the othe brought it over to bring it in. I didn come, but seeing as Pearl, I came."

at all. Pearl took the le "Read it, Camilla," it to her friend.

Camilla broke the It was from Alfred Rector of St. Agnes County of Kent, Eng It was a stately le rector, dignified an Insurance It.

language. It was a nitary of the Church and obscure child in but it told of a fath gratitude for a son' breathed an admirati girl's devotion and love for her that we as life itself.

Pearl sat in mute illa read—that could We do not mean to We do not mean to payment for what you child (Camilla read service of love can of love; but we ask you us this little gift as ter would accept it if we will be glad to the been a help to you in an education. Our brot wishes you to take fr





"THERE is nothing ridiculous in seeming to be what you really are, but a good deal in affectting to be what you are not."



Sowing Seeds in Danny By Nellie L. McClung

ALL RIGHTS RESERVED (Continued from last week)

SHE was telling about the night of £20, and it is his desire that yo that she had watched for the doctor. Not a word did she tell about her friend, the doctor's agitabout her friends her was very super result and the was very super results. tion, nor what had caused it on that occasion, and she was very much re-lieved to find that her listeners did not seem to have heard about the cir-cumstances of Ab. Cowan's death.

"Oh, I tell ye, Doctor Clay's the fellow," she said, her eyes sparkling with enthusiasm. "He knew what fellow, sne said, her eyes sparking with enthusiasm. "He knew what was wrong with Arthur the minute he clapped his eyes on him — tore open his little satchel, slapped the chloroform into his face, whisked cut his knives and slashed into him as asy as ma would into a pair of pants for Jimmie there, and him waitin' for

'Look at that now!' her father ex-Look at that now!" her father ex-claimed, pulling out the damper of the stove and spitting in the ashes. "Yon's a man'll make his mark wherever he goes.

A knock sounded on the door. Ted-dy opened it and admitted Camilla and Jim Russell.

and Jim Russell.
"I've got a letter for you, Pearl,"
Jim said when the greetings were
over. "When Tom brought the mail
this ovening this letter for you was
in with the others, a nd Arthur
in with the others, a nd Arthur
in with the others, a nd Arthur
in with the others, and Arthur
in with the others, as if would
bring it is with the standard want to
bring it is with the standard want to
prome, but sent and it was for you,
Pearl, I came."
Camilla was not listening to him

Camilla was not listening to him

Pearl took the letter wonderingly.
"Read it, Camilla," she said, handing

Camilla broke the seal and read it.
It was from Alfred Austin Wenyss,
Rector of St. Agnes, Tillbury Road,
County of Kent, England.

County of Kent, England.

It was a stately letter, becoming a rector, dignified and chaste in its language. It was a letter of a dignitary of the Church to ap unknown and obscure child in a distant land, but it told of a father and mother's residual for a son's life asyout. gratitude for a son's life saved, it breathed an admiration for the little girl's devotion and heroism, and a love for her that would last as long as life itself.

Pearl sat in mute wonder as Ca illa read—that could not mean her law of the word on the mean to offer more a way of the word of the w illa read-that could not mean her!

should spend it in whatever way will give you the most pleasure. We are, dear Pearl

earl Your grateful friends, and Mary Wemyss.

"Here is a Bank of England draft for £120, nearly \$600;" Camilla said, as she finished the letter.

The Watson family sat dumb with astronishment.

astonishment. "God help us!" Mrs. Watson cried

t last.
"He has," Camilla said reverently.
Then Pearl threw her arms around

You're the man yerself, Doc," John I'll be "replied, taking his pipe from his "You'll be what, Camilla" Tell me

doctor went or would have let him die if Pearl hadn't held me up to it and made me

Pearl sprung up, almost in tears.
"Doc," she cried indignantly, "haven't I towld ye a dozen times not to
say that? Where's yer sense, Doc?"

The doctor laughed. He could laugh about it now, since Dr. Barner had quite exonerated him from blame had quite exonerated him from blame in the matter, and given it as his professional opinion that young Cowan would have died anyway— the lancing of his throat having per-haps hastened, but did not cause his Jasth.

"Pearl," the doctor said smiling, "Arthur's father sent me \$50 and a letter that will make me blush every time I think of it. Now, I cannot take the money. The operation, no take the money. The operation, no doubt, saved his life, but if it hadn't been for you there would have been the money. If you do not, I will have to send it back to Arthur's father and tell him about it."

Pearl looked at him in real distress.

"And I'll tell everyone else, too, what kind of a man I am—Jim here knows it already"—the doctor's eyes were smiling as he watched her routhled little face.

"Clay," she cried, you're come, Danny when you get a notion banny when you get a notion you're had been you're had been you grow up." you had not know," the doctor laughed, "unless you marry me when you grow up."

"Undo not know," the doctor laughed, "unless you marry me when you grow up."

"Well," Pearl answered gravely, "I can't do that till ma and me git the family raised, but I'm thinkin' maybe Mary Barner might take ye."
"I thought of that, too," the doc-Pearl looked at him in real distress.

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ther mother's neck and kissed her over and over agail's she cried, "yo'll git it now, what I always wanted ye to think not. However, I'm not in a have, a fur-like appe, and not lined with rabbit or cape, and not lined with rabbit or low or skunk either, but with the real two with and it wasn't bad luck to have Mr. After Camilla and Jim and the decrete that we will be a support to the state of the work of the wo her mother's neck and kissed her over and over again.

"Ma, doar," she cried, "ye'll git it now, what I always wanted ye to have, a fur-lined cape, and not lined with rabbit or squirrel or skunk either, but with the real vermin! and it wasn't bad luck to have Mrs. McGuire cross me path when I was going out. But they can't mane me, Camilla sure what did I do?"

But Camilla and Jim stood firm the money was for her and her only. Everyone knew, Jim said, that if she had not stayed with the the money had out that arthur would have been dead in that when the money and a darker would have been dead in that when the store in the money and a darker would have been dead in that when the store in the money and a darker would have been dead in the morning. And Arthur had told the

that Arthur would have been dead in the morning. And Arthur had told him a dozen times, Jim said, that Pearl had saved his life. "Well then, 'twas aisy saved,' Pearl declared, 'if I saved it." Just then Doctor Clay came in with a letter in his hand.

a letter in his hand.
"My business is with this young lady, he said, as he sat on the chair Mrs. Watson had wiped for him, and pearl gently toward him.

and Billy and Jimmy had gone to bed, Pearl crept into her father's arms and laid her head on his broad shoulder.

"Pa," she said, drowsily, "I'm glad Her father patted her little brown

hand. hand.
"So am I, acushla," he said; after
a pause he whispered, "yer a good
wee girl, Pearlie," but Pearl's tired
little eyes had closed in sleep.
Ars. Watson laid more wood on the
Ars. which enabled warrily up the

fire, which crackled merrily up the

chimney.

"Lay her down, Jonn dear," she whispered, "Yer arms'll ache, man."

On the back of the stove the teakettle shamered drowsily. There was no sound in the house but the regular than the state of the sleeping children. The fire burned low, but John March and the state of the sleeping girl in his arms. Outside the snow was beginning to fall.

CONCLUSION.

CONCLUSION.

CONCLUSION.
Convincing Camilla.
F you can convince me, Jim, that
you are more irresponsible and
more in need of a guiding hand
than Mrs. Francis—why then I'll—

nick," he cried, eagerly.
"I'll be—convinced," she said "equick.

murely, looking down.

Jim sat down and sighed.
"Will you be anything else?" he asked.

"Convince me first," she said firm-

ly.
"I think I can do it," he said, "I always have to write down what I need want to do each day, and what I need want to do each day, and what I need to be a said on the said. want to do each day, and what I need to buy when I come in here, and once, when I wrote my list, nails, coffee, plougehare, mail, I forgot to put on it 'come back', nor portage you may remember I came here that evening and stayed and stayed—I was trying to think what to do next."

evening and stayed and stayed.—I was trying to think what to do next."

"That need not worry you again, Jim," she said sweetly. "I can easily remember that, and will tell you every time."

"To 'come back," "P he said. "Thank you, Camilla, and I will do it too."

She laughed.

She laughed.

She laughed.

She laughed.

Thaving to make a list isn't anything. Poor Mrs. Francis makes a thing. Poor Mrs. Hand puts on it is and then loses it, and then loses to find the first list, and then lose that; and Jim, she once made bistant; and Jim, she once made bistant; and Jim, she once made bistant; and Jim, she once made biscuits one time and formal a shook her head.

Canalla, Shook her head.

Canalla, Fin said gravely, "And, Canilla," Jim said gravely, really very irresponsible, you know Nelle Slater—she is a pretty girl, isn't she?"

("A very pretty girl," Canilla

very pretty girl," Camilla agreed.

agreed.

"About your size—fluffy hair_"

"Away, Jim," Camilla corrected.

"Her is fluffy yours," Jim said firmly—"lovely dark was—well, as was standing by the was standing by the wind proud to the waste of the was

He seized it eagerly. 'Jim-I am convinced," she said

Fifteen minutes afterwards Camilla

"I cannot tell her, Jfm, I really cannot. I don't know how to begin to tell her."

"Why do you need to tell her?"
"Why do you need to tell her?"
Jim asked. Hasn't the lady eyes and understanding: What does she think I come for?"
"She doesn't know you come. She asked and the large speak of the large speak

sees somebody here, but she thinks it's the grocery boy waiting until 1 empty his basket.

"Indeed," Jim said a little stiffly.

"Indeed," Jim said a little stiffly, which one, I wonder."

"Don't you remember the night she said to me 'And what did you say this young man's name is, Camilla'—no, no, Jim, she hasn't noticed you at all.

Jim was silent a moment. "Well now," he said at last, "she seemed to be taking notice that mornseemed to be taking notice that morning I came in without any rery good excuse, and she said 'How does it happen that you are not harvesting this beautiful day, Mr. Russell?'' 'Yes, and what did you say?' Camilla asked a trifle severely. I'm locked a little empharrassed.

Camilia asked a trille severely.

Jim looked a little embarrassed.

"I said—I had not felt well lately,
and I had come in to see the doctor."

"And what was that?" Camilla was still stern.

still stern.

"The ingenious device of an ardent
lover," he replied quickly.

"Ardened sinner you mean, Jim,"
she laughed. "But the next time you
had a splendid excuse, you had a
message from Pearl. Was my new
suit done?"

"Yes, and then I came to see——"
There was a frou-frou of skirts in
the hall. Camilla made a quick meveand Jim became busy with the books and Jim became on the table.

Mrs. Francis entered.

Mrs. Francis entered.

"Camilla." she began after she had spoken cordially to Jim, "Mr. Francis is in need of a young man to manage

"Marriage!" Camilla gasped.
"Yes," Mrs. Francis said in her
richest tones. "Your marriage. richest tones. "Your marriage. Camilla, at once. You are engaged are you not?"
"I am—convinced," Camilla said

'ram—convinced,' Camilla said irrelevantly.

And then it was Mrs Francis who laughed as she held out a hand to each of them.

"I do see—things—sometimes," she

The End.

Resessessessessesses The Upward Look Resessossessessesses

Have Faith and Patience

Have Faith and Fatience
Delight thyself, also, in the Lord, and He shall give thee the desires of thine heart. Commit the way into the Lord; trust also in Him, and He shall bring it to pass. * * Rest in the Lord and wait patiently for Him. —Psalm 37, 4, 5, 7.
For the Lord God is a sun and shield; the Lord will give grace and glory, no good thing will He withhold from them that walk uprightly. O Lord of hosts, blessed is the man that trusteth in thee.—Psalm 83:11, 12.
Our difficulties and troubles are

Our difficulties and troubles are what we fashion them. They can be the Lurdens that crush us or they can be transformed into the stepping. be transformed into the stepping stones by which we can climb higher and higher in strength of character and in fellowship with God. God poured out his grace and the good things of the world on David in a wonderful manner. But David was, also, tempted and tried as few men have been. Time and again his friends descreted him. He was hunted from place to place by powerful enemies. He was forced to flee from home and to hide in caves and in deserted places. Mighty armies advanced against him and threatened to crush him. Again and again it must crush him. Again and again it must have seemed to him that God had deserted him and that he was doomed to destruction. Always, however, his to destruction. Always, however, me despair was chased away by his faith in God and thus he triumphed over his fears and over his enemies. There are many beautiful psalms that show the extremes of feeling

There are many beautiful psalms that show the extremes of feeling through which David passed. One of these is Psalm 13, which starts with the cry, "How long wilt thou forget me, O Lord, forever? how long will thou hide thy face from me?" and which ends with the song, "But I will have trusted in thy mercy; my heart have trusted in thy mercy; my heart have trusted in thy salvation. I will am the start of the salvation of the salvation of the salvation of the salvation. I will be the salvation of the salvation of

David's life should be to us what God intended that it should be, a les-son. If we have the same faith in God, if we will ask God for help with the same intensity of desire, if we with the same intensity of desire, if we will submit our ways unto God for His approval then we may rest assured that God will do His part and that He will grant us the desires of our hearts and that no good thing will He withhold from us. But we must rest our trust in His word and wait patiently for Him.

In his book, "In touch with the Infinite," Ralph Waldo Trine brings out

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many helpful thoughts. "Thoughts of strength both build strength from within and attract it from without. Thoughts of weakness actualize weakness from within and attract it from without. Courage beggets strength, foar beggets weakness. And so courage begets success, fear begets failure. It is the man or the wo-man of faith, and hence of courage. who is the master of circumstances, and who makes his or her power felt in the world.

in the world,
"And oh, the thousands all about
us who are continually living in the
alexant of the strong and powerful
are rendered weak and impotent.
Their energies are cripled, their efforts are paralyzed. Fear is everywhen fear of want fear of stevre. Ioris are paralyzed. Fear is every-where,—fear of want, fear of starva-tion, fear of public opinion, fear of private opinion, fear that what we own to-day may not be ours to-mor-row, fear of sickness, fear of death. Fear has become with millions a fix-ed habit.

Fear has become with millions a na-ed habit.

"We need more faith in everyday life,—faith in the power that works for good, faith in the Infinite God, and hence faith in ourselves created in his image. And, however things at times may seem to go, however

Snapshot taken at the Women's Institute Pic-nic, at Wellington, Ont. We shall be glad to publish photos of any Institute picnics, Institute officers, etc., that are sent to us.

dark at times appearances may be, the knowledge of the fact that the Supreme Power has us in its charge as of worlds in space, will give us the supreme faith that all is well with us, the same as all is well with the world. Thou wilt keep him in perfect peace

whose mind is stayed on Thee.

"Such is the man of power. Centred in the Infinite, he has thereby, so to speak, connected himself with, he has attached his belts to the great house of the universe. He is the stayed he was a house of the universe. has attached his belts to but power house of the universe. He is constantly drawing power to himself from all sources. * * His strong, constantly drawing power to himself from all sources. * His strong, positive, and hence constructive thought is continually working suc-cess for him along all lines, and con-tinually bringing help to him from all directions. * Silent, unseen forces are at work which will sooner or later be made manifest in the visi-ble.—I. H. N.

Saving to Good Citizenship During the past fourteen years a great and important work for the ne-glected or homeless boys and girls of Ontario, has been carried on by a cir-cle of Children's Aid Societies, acting under the direction and inspiration of Mr. J. J. Kelso, who has been so long identified with philanthropic work for children.

The Children's Protection Act pass-

The Children's Protection Act passed by the Legislature in 1893, has accomplished untold good for the rising generation, and thousands of boys and girls have been helped, encouraged and protected. This Actorovides for the organization of Societies, which, when formed, shall have power to bring cases of child neglect or cruciely, setc. hefore the courts. elty, etc., before the courts, and when sufficient evidence of neglect is adduced, the guar-dianship of such children shall the transferred to the society. There are about forty of these

The Act also arranged for the establishment of a depart-

unte pp. the establishment of a departglad to ment in connection with the
glad to ment in connection with the
statistic Government, presided over by
a provincial super-intendent
whose duties include a supervision of the work done by the various
Children's Aid Societies in Ontario,
the keeping of the records of children
placed out in homes, the explanation
ring of homes for children. Over the
thousand children are under supervision.

As the Government official having to do with the reform institutions. Mr. Kelse has been able to the markable work. Over eighty boys were taken out of the State Reformations under good influence. Forty girls, fifteen tory and placed in situations under good influence. Forty girls, fifteen the digital placed in the Girls' Reformatory, and over fifther of the Girls' Reformatory, and over fifther of the Girls' Reformatory, and over fifty from the Industrial Schools. All these young people with hardly an expectation are now growing up respectable. As the Government official having tion are now growing up respectable, and largely because their better na-



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September

CHILDRI The plan of homes the Governme most product for the little may be ren dren taken ch homes a dren, It may very few of the those adopted turn out badly, of ten, the inf training will ov

The conditionare made as sir agreement requi home life, good training, and common school cials with sever stantly engaged and reporting t as to their prog that no injustic sults of this pe highly gratifying There are mar

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tures were appealed to and their own tures were appealed to and their own hearty co-operation sought. Through this department with its numerous auxiliaries, many delenquents under sixteen are now taken the summerous placed in situations away of aurroundings, with good results. Of aurroundings, with good results of the consequence of

The plan of placing children in foster homes was endorsed by the Government as being best and most productive of good results for the little ones in every case. It may be remarked here that children to the control of the control of

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are no children and the husband and wife would be infinitely happier and better with the presence of a bright, but the presence of a bright, young life in the household. Again, there are other families where the children are grown up, and gone children are grown up, and gone there are other ramines where the children are grown up, and gone away from the old home, or there is the vacant chair and the silent sadaway from the out nome, or there is the vacant chair and the silent sadness left by the passing of the angel of death. In all these homes the presence of children must bring brightness and sunshine. Then there is the loftier motive of service done in the child among men spoke of the children child among men spoke of the children child, received me, "Information regarding this great work for children can be obtained at any time by addressing the Superintendent of the Department, Mr. J. J. Relso, Parliment Buildings, Toronto,

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HOME MADE PEANUT CANDY

Melt three cupfuls of sugar in net three cuprus of sugar in a pan; grease a tin and pour 1½ cuppan; grease a tin and pour it. When the sugar is melted pour it over the peanuts. Mark in squares and break when cool.

HAM TOAST Cut stale bread in even slices, one Cut stale bread in even sires, one fourth of an inch thick, and remove the crusts. Then toast six slices a nice brown on each side. Melt four tablespoonfuls of butter, and three tablespoonful of flour, and str until wall blanded, then pour on gradualwell blended, then pour on gradualwent brended, then pour on gradually, while stirring constantly, two cupfuls of scalded milk. Bring to the boiling point, and season with one half teasy onful of salt. Dip the Dip the slices of toast separately in the sauce, sinces of toast separately in the sauce, and when soft remove to a hot serv-ing dish. To the remaining sauce add one third of a cupful of finely chopped cold boiled ham, and pour

SARDINE SALAD.

Remove skin from a box of sardines and mix with equal quantity of mashed yolks of hard-boiled eggs. Arrange in nests of lettuce leaves and serve with dressing.

CHICKEN SALAD

CHICKEN SALAD.

Cut remnants of cold boiled or roasted chicken into small bits and may be considered to the cold by the cold property of the cold property o before serving, moisten with cream or olive oil. Pile on a salad dish and or olive oil. File on a salau dish and garnish with hard-boiled eggs cut in halves, and celery tips. If preferred, put a spoonful, with half an egg, on a leaf of lettuce, and fill a dish with these leaves.

APPLE KETCHUP

Cook plain apple sauce until thick, Cook plain apple sauce until thick, adding to each quart of apple sauce 1 teasp each of ginger, cinnamon, cooker, pepper, mustard and onion juice, 2 teasp salt, and 1 pt vinegar. Simmer slowly until thick (about 1 to 1½ hours), then bottle and seal while hot.

APPLE JAM

Pare, core and weigh tart apples, and allow 4 lbs. of brown sugar for 4 lbs. of apples. Chop the apples, make a syrup of the sugar with a very little water, then add the chopped apples, the grated rind of 4 lemons, and a little ginger root. Simmer till the fruit pulp is a golden color. ...

Have you won any of our new pre-miums? If not, better send for Premium List at once.

Woman's Vote

It is a very far cry from the cradle to the ballot box, yet I am old-fashion-ed enough to believe that such should be the woman's ballot-box. The wobe the woman's ballot-box. The wo-man's suffragist agitation has inter-ested me very little as I shrink from such publicity for woman. I truly ad-mire a woman who has the course of her convictions and is not afraid of her convictions and is not afraid of her convictions and is not afraid to express herself at the proper time and place, but I feel sure the home should be her platform. It has always puzzled me, how some can have been liant, so witty, so entertaining in society and charm an audience in the Concert hall, and yet are durn the society and charm an audience in the Concert hall, and yet are dumb in a little quiet church service, such as C. E. Meetings, which seems to me to be a true field and outlet in connection with our social gatherings for all woman's enthusiasm. Could we away contains a contained to the first principles of politics in all of its phases, respect the rights of their sisters respect the rights of their sisters, the plant of the phase of the property of the propert safe in the hands of the men. I have yet to meet a man wuo loves and re-verences a woman for his mother or sister's sake, who will not cast his vote for her test interests.

vote for her Lest Interests.

I remember a little baby boy who was taught as soon as he could lisp to say, "I am a git (grit), a ganger (a Granger) and a Presbyterin. Needless to say his father was the came, and sometimes he was hribed same, and sometimes he was bribed with a penny to say it by an admiring

There are many big boys now who are just as that little child. We see it in Orangeism, in politics, in church life, and for the life of them they could not easily they are so, but for the reason that father and great gradients are sometimes of the next which we will be sometimes of the next quarter century and it the nicest audience and platform for woman.—"Aunt Faithe."

Them Out HOUSEKERPERS. There are many big boys now who

TIRED OUT HOUSEKEEPERS.

TIRED OUT HOUSEKEEPERS.

What shall be done for our tired out housekeepers? There are many women who have labored hard for more than 40 years, brought up families, faithfully performed all sorts of work, until it has become not only monotonous, but difficult, and in many cases impossible to turn off the sec. cases impossible, to turn off the ac-customed amount of work, on account of failing health, accidents, and variof failing health, accidents, and ous other causes. There are women of 60 years and more, who might be in the best of health, were it not for continual overwork. When men find

... Before pouring hot fruit into a glass dish or jar, put it on a wet cloth. This will keep the glass from

Patterns 10 each. Order by number and size. If for children, give age; for adults, give bust measure for waists, and waist measure for skirts. Address all orders to the Pattern Department. Kasassassassassassassas

NINE GORED SKIRT 6414

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Here is one of the newest skirts, gored to fit smoothly over the hips. The inverted plait at centre of plain at centre of plain at centre from is stitched to form wide tucks which are held in place with groups of the place with groups and task extending the full tending the full centre of the plain and the plain and

gores are lengthen d by platted portions. Material required size is 9 yds 27, 4% yds 44 or 4

The pattern is cut for a 27, 24, 26, 28, 30 and 32 in waist, and will be mailed to any

MISSES' BLOUSE 6415



The blouse that is tucked over the The blouse that is tucied over the shoulders yet plain at the front is a favorite one just now for it allows most effective use of embroidery. This one is designed for young girls and includes the new tucked sleeves and is attractive. tractive.

Material required for 16 yr size is 3%, and 3%, 2%, yds 3%, 2%, yds 3%, or 3%, yds 4% in wide. The pattern is cut for girls of 14 and on receipt of 10 cts.

GIRL'S DRESS 6418



Such a simple pret ty frock as this can be made from wash-able material or from wool; it can be from woel; it is no be seculoped and ensealloped and ensealloped and ensealloped and ensealloped of the analysis of the seculoped and becoming yet practical.

The dress is made with the panel, which would be seculoped and becoming yet and the seculoped and the seculoped and the seculoped and with the panel, which are seculoped and with plant of the seculoped and back portions. Material required

Material required for medium size (8 yrs) is 6½ yds 24, 4½ yds 32, or 3 yds 44 in wide.

pattern is cut pattern is cut for children of 4, 6, 10 yrs and will be mailed for 10 cts.

TUCKED WAIST 6422



Such a waist as this serves an indefinite number of uses. It is equally well adapted to the entire gown and to wear with the odd skirt; it can be made from linen, madras, and

Received the camera from Farm and Dairy in return for a club of four new yearly subscribers. It came in good condition and am pleased with it.— Bertha Bickell, York Co., Ont. Farm and Dairy is the official organ of The Canadian Holstein - Friesian Association, all of whose members are readers of the paper. Members of the Association are invited to send items of interest to Holstein breeders for publication in this column.

COW TRANSFERS FOR JUNE, 1909. The publication of these transfers is aid for by the Holstein-Friesian Breed-rs' Association:

(Continued from our last issue.) (Continued from our last issue.)
Sadie De Kol Jane, Alvie Whittey to Wes
ley M. McLean, Hoebuck, Oncean H. Manhard to Gorre Death, Diste, Ont.
Sarah Jane De Kol, Alvie Whitley to
Wesley M. McLean, Hoebuck, On.
Santal Jane De Kol, Alvie Whitley to
Wesley M. McLean, Hoebuck, On.
Santal Jane De Kol, Alvie Whitley to
Kelly M. McLean, Hoebuck, On.
Santal Jane De Kol, Alvie Whitley to
Santal Jane De Kol, Alvie Whitley
Santal Jane
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Onto Millerove, Millerove,
Sunshine B. 2nd, A. E. Hulet to Thomas
King, Golden, B. C. Miller & Wood to Elgin
Wood, Kelvin, Ont.
Wood, M. W. Pineo to Legan
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Talta Rooker 2nd, Lovan

son to David E. Summers, Winchester, Ont.

Julia: Teake De Kol, George Black to
Julia: Seots, Witchester, Ont. E. George
to W. E. Wallace, Penobsquis, N. B.

White, Jacoba, John Tweedy to J. M.
White Rose Sylvia, John Oruise to Peter
Cruise, Lachute, Que. M. Mahard to Wm.
C. Stevens, Philipsville, Ont.
C. Ste

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to Frank Minshall, Mt. Eigin, Ont.
Asphodel Count Calamity, Geo, H.
Asphodel Arthur Watson, Middlemarch,
Onthell to Arthur Watson, Middlemarch

aughell to Arthur Watson, Middlemarch, Manner Boy Ormsby, Daniel Knapp to Mex. Kelly, Merrickville, Ont.

Bell Crescent Lad, T. L. Dunkin to J. O. Lygriay, Courtland, Ont. George W. Densie Densie, Sparia, Ont. Boorna Rite Lad, W. E. McKilliean to better Primasu, Ettyville, Ont. Boorna Rite Lad, W. E. McKilliean to better Primasu, Ettyville, Ont. W. J. Mopkins, Cumming a Bridge, Ont. Bucier, Estate of J. A. Richardson to bell of the Court of th

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Georga Arabea, Marching George Bone, Harrow, Ont.

Glamworth Chief, Benj, Holby to AnHelbon Beattly's Johanna Lad, W. M.

Helbon Beattly's Johanna Lad, W. M.

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to J. M. Gibson, Newcastle, Ont.
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to Gordon Summers, Rochteld, Ont.
Lilly's lose o De Kol, S. Armstrong to
Lilly's lose o De Kol, S. Armstrong to
Little Wonder, Daniel Campbell to Alon50 Schwerdfager, West Osgoode, Ont.
Listic Pietge De's De Kol 2nd, E. G.
Chambers to A. Turnbull, Tilsonburg, Ont.
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Listic De Kol Prince, W. J. Tregillus to
J. G. Carritt, Bentley, Alt.
J. G. Carritt, Bentley, Alt.
J. G. Carritt, Bentley, Alt.
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Prince of Norsich, Wast.

Prince Fosch of Sunnyside, Robert C.
Rob

Alta.

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Angeline De Kol. Edward Hughes in

Bablughes, Burgessville, Ont.

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September

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ANTIG ANTIGONISH. abundance of ra vested in as good desired. Quite a green for feed i shortage in the shortage in the growing nicely. Brunswick, has in as judge in the competition. Som had to be scored of mixed seed as cases where the from the Canadin tion the plots see uniformity of pla en to their oppor secure the very Pictou Co, have ting off first prize crable plowing hall kinds are look

O DURHA BLACKSTOCK. --ing very rapidly, very well. Barley shortest crop this shortest crop this turning out well thowever, was light has been threshe yelding well, and i yelding well, and is fields of clover as there will be quit, cut for seed. Corrector and will yield Apples will be a is are busy packing. The root crop, a well, is needing revery dry autumn

WELLING METZ.—The harve ed, except the buc have theirs cut. Ti to be a failure th number, there beins the clover, and the Some farmers have the clover, and the some farmers have seems to be generated by the seems to be generated by the seems to be a good is the hard soil. See so be a good is the showers to from the seems to the straw, acre. Hay is selling catile, 85.25; onts, 2 R. H. S. H. S.

B. H. S.

ELORA.—Still very
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BRANT (FALKLAND. - WI

1Cc. success.

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ONTARIO

DURHAM CO., ONT.

BLACKSTOCK. — Threshing is progressing very rapidly, and grain in yielding in group the shortest crop this will probably be the shortest crop this will probably be the shortest crop this will probably be the shortest crop this will be the shortest crop the shortes

WELLINGTON CO., ONT.

METZ.—The harvest is now all completed, except the buckwheat; some farmers have theirs cut. The seeding down seems have theirs cut. The seeding down seems have theirs cut. The seeding down seems that their cut. The seeding down seems to be general although very lowing seems to be general although very come according to the according to the seems of the seems to be a good acreage if there are also to be a good acreage if there are also to be a good acreage if there are also to be a good acreage if there are also to be a good acreage if there are also to be a good acreage if there are also to be a good acreage if there are also to be a good acreage in the seems that the seems t

catle, 85.25; oats, 56c and wheat \$1.00.—

R. H. S.

ELORA.—Still very dry in this locality, with prospects of poor passures for built property of the propert

BRANT CO., ONT.

FALKLAND. — Wheat seeding is com-leted. Quite a large acreage has been



September 30, 1969.

OUR FARMERS' CLUB's Contributions Invited.

ANTIGONISH CO, N. 6.

A

Some fail plowag has been do not most farmers are waiting for 100 most farmers are waiting for the day, and they make seeding decidedly interesting for most of the day and they make seeding decidedly interesting for most of the day and they make seeding decidedly interesting for most of the day and they make seeding decidedly interesting for the day of the day and the part of the disparation of the case at least, on the clay. The loamer are arrestly soils do not show such effects gravely soils in the corn on the bank usual. Some of the corn on the late usual, such as the day and the corn of the corn of the crop has escaped its method of keeping foder have been the most of keeping doder have been during the summer, as the advantages of during the summer, as the advantages of the decided of the decided has the day of the day o

MIDDLESEX CO., ONT.

MIDDLESEX CO., ONT.

LAMBBTH.—Cutting corn and clover seed seems to be the order of the day, which are a very good crop. Mr. Balinard, which are a very good crop. Mr. Balinard, and the seed of the s

known and the average—J. E. O. Strong and the average—J. E. O. KOMOKA. — North of here many large farms have been allowed to go to the grass. Hundreds of acres of land are devoted to grassing and afford grass in abunch of the control of the strong and strong and strong and strong and strong and strong and the strong and cool spring on a nearby sidehill, from which the dusty travelled his horses can refresh themselves with an always and which the dusty travelled his property of the states of the states

LIVE HOGS

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

THIS WEEK'S PRICES FOR HOGS DELIVERED AT FACTORY

\$8.00 a Cwt.

THE GEO. MATTHEWS CO., LIMITED PETERBOROUGH, - HULL, - BRANTFORD

LAMBTON CO., ONT.

LAMBTON CO., ONT.

WYOMING. — If asked what subjects have and are occupying the attention of the farmers of this vicinity this season, I would ask also, lightning rods and understanding the corn crop is the best we have had been corn crop is the best with the corn crop is the best with the corn crop is the best with the corn crop is the carry in the season. Most of these made solid, but a number have put up the same of the corn crop is the corn crop in the crop in BRUCE CO., ONT.

WALKERTON—Although the spring was at least three weeks later than usual, we have a support that the state of the

REGULATIONS RE SHEEP FOR INTERNATIONAL

REGULATIONS RE SHEFF FOR INVERMATIONAI.

From November 19 to December 5, 1999,
Canadian sheep may be imported into the
United States for exhibition purposes at
United States for exhibition purposes at
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The Department must be notified by the
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must be shipped director this exposition
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must be shipped director of this capset on
public stock yards.—Willis I. Moore, Actthe Scoretary of Agriculture.

A NEW PREMIUM CATALOGUE

We have Just issued a new premium catalogue that will interest produced by the product of the pr

Circulation Department, FARM AND DAIRY

PETERBORO, ONT.

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For Dwellings, Rural Schools and Stables By Prof. F. H. KING

This is a new book (issued December 1999, which treats in a concise, practical 1999, which treats in a concise, practical its details. It shows that the concision in all its details. It shows that the conclusion of the concision of the concisio

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SAVE COST Bend address for specifications of inexpensions and analysis constable

WALLACE B. CRUMB, Box D2, Forestylle, C

MARKET REVIEW AND FORECAST MARKET REVIEW AND FORECAST

Toronto, September 27, 1999. — General business continues to show satisfactory progress continues to show satisfactory progress of the september of the season of the season of the season of the season some lines report that there is room for improvement, but these are not large in numbers. The trade is, however, exercise the season of the season Toronto, September 27, 1909.

WHEAT

So far as the price to the producer is concerned, the wheat market shows little change from a week ago. Dealers here still quote 97c to 98c for Ontario fall wheat outside. Ontario farmers are not wheat outside. Ontario farmers are not marketing very freely and only when compelled to do so to meet payments. They are evidently taking the addres of the western miller given out some time the season of the western miller given out some time same may be said of all producers on this continent. In the West, farmers are holding their wheat as never before. While receipts, as reported at Winniper, for the West, appear large, it is estimated that west appear large, it is estimated that of the producer when the part of the producer keeps the amount of the producer keeps the amount of of the producer keeps the amount of wheat in sight in Canada and the United States at 38,940,000 bushels, as compared with 53,007,000 bushels for the same time ist year. If the American farmer is ho'ding back,

If the American farmer is hoding back, not so the European farmer. In Russia especially there has been large marketing of new wheat, which caused lower cable of the manner of the manne

COARSE GRAINS

COARSE GRAINS

The oat market continues fairly steady. There is a good export demand. Dealers here quote oats at 37 to 58c outside, and here quote oats at 39% on track here quote oats at 37c to 38c outside, and Canadian western oats at 39c on tracks lake ports. There is more activity in barley. The Ontario barley that has been marketed does not show very high qual-ity. Western barley is of much better quality and dealers are looking for it. Dealers quote 58c to 58c outside for On-tario barley as to quality. Peas rule at 77c to 78c bush, outside, On Toronto Toronto Control of the Control of the Control barley at 48c to 58c, and peas at 78c to 78c barley at 48c to 58c, and peas at 78c to 78c a bush.

FEEDS

The demand for mill feeds keeps good and the market continues firm at about and the market continues firm at about the feed of the feed of

HAY AND STRAW

The hay market rules steady and prices are firm. The export demand is not so strong and cables are lower. But this has had little or no effect on prices here. At Montreal No. 1 baled hay is quioted at \$12 to \$12.50; No. 2, at \$10 to \$10.50; No. 3,

HAVE YOU

General at 89 to 85.90, and clover at 89 a ton in tisfactor; car lots there. The market here continued to the form a cost lines. I armors tiput, and 89 to 85.90 a ton for balled and 80 to 85.90 a ton for ball arrow in carlost on track Toronto. On Toronto in large in large in 1. exercise 1. exe

POTATOES AND BEANS

The potato market is easier and lower under increased receipts. Ontario potatoes are quoted here at 60 to 65 e a bag in ear lots on track Toronto, and 75c to 80c out of store. On the local farmers' market they sell at 65c to 80c a bag.

50c out of store. On the local farmers' market they sell at 55 to 580 a bag. The bean market continues quiet pending the arrival of the new crop. It is reported that western Ontario beans have been offered at Montreal at \$1.70 to \$1.75 c. and f. October delivery there for three pound pickers.

Conditions are shaping for high prices for east the doming winter. Eggs are referenced to coming winter. Eggs are referenced to the control of the control o EGGS AND POULTRY

PRILIT

The apple market points to good prices for winter fruit. Great Britain will be able to take all we can export. Salze of winter apples for October delivers and reported at 28.25 a bbl. f.o.h. with home holders asking \$3. On Toronto farmer' market apples sell all the way from \$3 to \$2.50 a bbl. for fall fruit. On the fruit market granes have head the feature the to \$2.50 a bbl. for fall fruit. On the fruit market grapes have been the feature the past few days. They are arriving in larger quantities. Quotations are as follows: Peaches. 250 to \$1; apples, 15c to 25c; erab apples, 25c to 50c; plums, 15c to 25c; constant, 25c to 60c; grapes, 45c to 35c; tomatoes. 25c to 55c; and gerkins, \$1 a hasket.

DAIRY PRODUCTS

basket.

DAIRY PRODUCTS

The cheese market is not strong as it was this time last week rad prices are lower. Receipts keep up well in comparison with those of last year. On the week, the week has boards at the end of the week, the week has boards at the end of the week, the week has boards at the end of the week, the week has a little lower than a well 154c, which is a little lower than a well of the week is a little lower than a well of the week is a little lower than a well of the week is a little lower than a well of the week is a little lower than a well of the week is a little lower than a well of the week is a little lower than a little well of the wel

HORSE MARKET

LAND TO SELL?

2 CENTS

Two cents a word for each insertion will advertise your farm for sale in our Classified Columns. Our rate is \$1.00 an inch for display advertisins. If you have a farm to sell, tell people about it by placing an advertisement in Farm and Defry. It will help you get a good price for it.

LIVE STOCK.

LIVE STOCK.

Receipts at the live stock markets continue large. The total at both markets continue large. The total at both markets continue and the stock markets are stocked as the stocked large as to make trading very slow, though good quality was no lower. The continued dry weather has had the effect of sending to market had been supported by the stocked large stocked large profits and the stocked large profits and the market is no lower, though the average price has dropped somewhat he average price has dropped somewhat he average price has dropped somewhat well and the market is no lower, though well and the market is no lower, though the average price has dropped somewhat because of the great preponderance of this chepper stuff on the market; the bulk of the cattle offering on Thursday were of this class.

The export market keeps up well considering the run of cattle and the poorer crims the run of cattle and the poorer considering the run of cattle, but so the considering the run of cattle, but so the considering the consid a cwt. About the same prices ruled at city market on Thursday, quality con-

bulk of the butchers' cattle offer

sidered. The bulk of the butchers' cattle offering are of the poorer kind, for which the large are of the poorer kind, for which the large are of the poorer kind, for which the large are of the poorer kind, for which the choice butchers. Barly in the week choice butchers are stored as the state of the s

There was a big run of lambs on Thurs There was a big run of lambs on Thursday, and prices dropped 10c to 15c. They sold at \$4.50 to \$5.50 a cwt. Sheep held steady at \$3.50 to \$3.50 for ewes and \$2.50 to \$3 a cwt. of buoks and culls. At Buffalo lambs are quoted at \$5 to \$7.65 a

cwt.

Hog receip's continue light and prices keep high, though on Thursdoy's market quotations were fie to 25 lower than earlier in the week. Buyers quoted 74.15 to 82.35 f.o.h at country points, and 83.40 to 82.35 f.o.h at country points and 83.40 to 83.95 fed and watered on the market beer. Buyers report hogs as very scarce, buyers report hogs as very scarce, buyers report hogs as very scarce, buyers and farmers are not exerting themselves. Buyers report hogs as very scarce, buyers for the first fed for f

"The market is demoralized and p are declining. Canadian bacon 70s to

MONTREAL HOG MARKET

MONTREAL HOG MARKET

Montreal, Saturday, September 5.

White increased offerings of live bogs of the law of th

EXPORT BUTTER AND CHEESE

EXPORT BUTTER AND CHEESE MONTER! Saturday, September 25. — The cheese market this week is closing with a closing with a closing with a closing with a contract of the country markets on paid at some of the country markets on paid at some of the country markets on paid during a slight advance over those paid during a closing with a contract of the week. At Pieton on Priday, the offerings, which were all collidors were all sold at II. 756 per Ib, and 150, were all sold at II. 756 per Ib, and contract of the week of the country o

ginning to feel, however, that September these at present prices are a good pur hase, and as there seems little likelihood chase, and as there seems little likelihood of getting prices down any lower in the country, they are inclined to take on a few more at the going price. As a consequence, everything offered in the country this week has been taken up at market around Listowel. where the factorymed around Listowel. where the factorymed record is the country that week has been taken of the factorymed from the country listower of the factorymed that the country were offered like but related to sell.

The demand from Great Britain is very dull, and the shipments of cheese from dull, and the shipments of cheese from

ships have stopped making butter and are shipping their entire output of cream to the other side of the line. The shortage of sulfa and cream in the Unit of States of sulfa and cream in the Unit of States buying up cows, and in one district alone spitteen carloads were taken out during the past few days. Finest creamery is selling at 30% to 35 a lb, with ordinary, linest at 28%. Dairy butter is quoted all quality.

CHEESE BOARDS

Utica, N. Y., Sept. 20.—45 lots of cheese, 5.478 boxes; all sold at 14½c. Farnham, Que., Sept. 0.—Ten factories offered 309 boxes of butter; 168 boxes sold at 24½c; 55 boxes sold at 24½c; 86 boxes

Campbellford, Sept. 21.—735 boxes offered. 311 sold at 11½c. Stirling, Sept. 21.—550 boxes offered: all old at 11 5-16c.

old at 11 5-16c. Woodstock, Sept. 22.—1230 white and 665 olored; 11½c bid; no sales. Madoc, Sept. 22.—425 cheese boarded; ll sold at 11¾c and 11 7-16c. Alexandria, Sept. 22.—543 cheese sold t 11 5.16c.

Alexandria, Sept. 12.—25 boxes of valideek. Hill, Sept. 23.—125i boxes of valideek. Hill, Sept. 24.—125i boxes of valideek. Hill, Sept. 25.—125i boxes of the price offered was 11 5.6c, and at this figure both colored and white sold, except and the sept. 25.—Offered 1.95s white and 45c colored. Sales, 90 at 11%c. and 45c colored. Sales, 90 at 11%c. and 610 at 11 5.16c. Balance refused. Hrockville, Sept. 23.—760 white and 180 colored at 11 1 5.6c.

Side at 11 516c. Balance refraed.
Brockville, Sept. 33.-780 white and 157
Brockville, Sept. 33.-780 white and 157
colored at 11 516c. Mail to show a charge of the stock was at 11 5456 per B.
Kingston, Sept. 33.-715 boxes of cheese registered. A good share of the stock was at 11 5456 per B.
Sept. 34.-11 5456 offered: nose sold on boxed of the stock was at 15 5450 per B.
Listowel, Sept. 24.-11 factories bounded from boxes of white cheese. The highest boxed of white cheese. The highest bid, and the stock of the stock was bid, but no sales made.
Napanee, Sept. 24.-287 white and 521-co-ord cheese sold at 1156c.
Also box first the stock of the stock was bid, but no sales made.
The stock of the stock of the stock was bid, but no sales made.
The stock of th

PEA SEED WANTED

We are open to purchase a quantity of the following varieties of Pea Seed, viz.:

Alaskas, McLean's Advancer, Horsford's Market Garden, Coryell's Glory All must be true to name. Persons having these or any other varieties of wrinkle Pea Seed to offer will please send samples and best prices to the

SIMCOE CANNING COMPANY SIMCOE, ONTARIO

Ottawa, Sept. 24, ord sold at 11 5-1 was 1,126 boxes.
Porth, Sept. 24.—
Porth, Sept. 25.—
Porth, Sept. HOLSTEINS IN PI

HOLSTEINS IN PI
Is would be difficbreeders of pure her
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In the June 10th issuter of Bloomfield. So
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few h Stevens & Son. Mr. 1 York State and made calf is bred from so champions and was on mens of the breed that One of the most su

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One of the most such the county, although a few county, and a few county, a

nistake.

Allan McDonald and be illustrated before and Dairy, are amon and Dairy, are amon Edward County farmers iastic over free rural mi have four pure bred H these is Burkeyje Key made a good record as she is an animal showin and capacity.

FOR SALE AND WANT TWO CENTS A WORD CA

WANTED.-A number of farm experience, to recountry districts. Write us explain our on lar proposition. Address Company, Toronto.

Gents make big mone Agents make big mone Peek" Granite Cement. Graniteware, Iron, Agate Mends a hole in one consewife buys. Greates market. Agents make ov profits.—M. Nagle, Westn

ANTED-Every postmaster with the control of the cont

GENTS wanted to represent the local fairs is laid. Peterboro, Ontario, lines and Durham countings and Durham countings of Circulation Mana write to Circulation Mana Dairy, Peterboro, Ont.

September 30, 1909.

Citiawa, Sept. 24.—415 white and 362 colored sold at 15-file. The total boarding was ILBS been.

Sold buses.

Cornwall, Sept. 24.—128 offered.

Sold buses.

Sold buse one of the most successful breeders in the county, although at present only on a small scale, is Mr. S. J. Foster, of Bloom. Br. Foster has three cows, including the county, although at present of the control of the county and the

Alian McDonald and his son, Hubert, whose handsome form home and buildings will be illustrated before long in Farm and barry, are before long in Farm and barry, are thought of the before the between the behavior of the beh

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

WANTED.—A number of young men with farm experience, to reveseen us in country districts. Write an explain our one hundred dol-lar position. Address. Keystone View

Company, Agronto.

MENTS make big money selling "Yool.

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Ments hold in the first from Agate, Tinware etc.,

Mends a hole in one minute. Every

Mends a hole in one minute. Every

Mends a hole in one minute. Every

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WYED-Broyr pestmaster in Northumbriand, Peterboo Onice, to act as special representatives of Farm and Mirry in their localities. Farm and Mirry in their localities may be a special representative of the special representative of the special representative farm and shirty in their localities. Farm and party of their localities. The special representative of the spe

OFFITS wanted to represent Farm and Dairy at the local fairs in Worthumber-tied. Peterboro, Ontario, Worthumber-tied. Peterboro, Ontario, Good diomination of Durham counties. Good diomination, For further information wite to Oliveia Manager, Farm and Dairy, Peterboro, Ont.

GOSSIP

GOSSIP

Much has been said on the mbject of a stock foods. Testimonials, received by the stock foods. The stock foods are stock foods and the stock foods are stocked foods and the stocked foods are stocked foods are stocked foods and the stocked foods are stocked foods are stocked foods and the stocked foods are stocked foods and the stocked foods are stocked foods are stocked foods and the stocked foods are stocked foods are stocked foods and the stocked

A SPREADING ANSWER

A SPREADING ANSWER

Farmer, from away-back)—"What does the mature spreader dop".

What manure spreader spreade fertility over manure spreader spreade fertility over manure spreader spreade fertility over the spreade end in the spreade spreade for the spreade spreader and considerable spreader and considerable spreader and the farmer's bank and into larger size and the farmer's bank and in the spreade spreader the spreader spreader the spreader

better profits in the soil of every tiller of the soil who has enterprise enough to pread himself into the possession of a manure spreader. That's what the logs and says for sale J. W. Took

I have received the pure bred Berk-hire sow sent me by Farm and Dairy rom Joshua Lawrence, at offere Center, John. in return for a club of outer, John. in return for a club of outer, Juberibers. The pig is O.K. and is the pure for the pure of th

YOUNG Pigs Wanted

We desire to purchase several young, pure bred Berkshire pigs, eligible for registration. Also a few Yorkshires and Chester Whites. Must be A 1 stock. Write :-

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AYRSHIRES

AYRSHIRES

Young bulls, from one week to one year old, large, growthy fellows, from Record of Performance cows, on both sides. Also two young cows, just freshened. Prices

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Imported and home bred stock of a
ages for sale. See our stock at the lead
ing abows this fall. Write for prices, ROBT. HUNTER & SONS

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IMPORTED AYRSHIRES

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Having just landed with 50 head of choice Ayrshires, mostly purchased at the street Barcheskie sale, I am prepared to from the born herd heading bulls, selected from the born herd heading bulls, selected from the born herd heading bulls, selected from the born herd heading herds in Section 12 of the property of th

R. NESS, Howick, Que.

AYRSHIRE CALVES FOR SALE RECORD OF PERFORMANCE COWS

PRICE :- \$35 when one month old

069-10 GUS. LANGELIER Cap Rouge, Que.

Cherry Bank Stock Farm

The richly bred bull, 18 months of age, Cherry Bank Surprise 26605, for sale, Sire Barcheekie King's Own (imp.) 2075. Dam, Pansy 5th, of Carston (imp.) 22431.

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SUNNYSIDE STOCK FARM

Chester White Swine. Shropshire Sheep and Mammoth Bronze Turkeys of the choicest breeding for sale at all times. Apply to W. E. WRIGHT, O-3-3-10 Glanworth, Ont. Proprietor

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Breeder of Holstein Cattle, Tamworth
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We have 55 head to choose from. we have so head to choose from. All ages, both sexes. Deep milking strains. Official record stock. Prices reasonable.

W. H. CALDWELL FALLOWFIELD, ONT.

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Offers four randsons of Pieterije Hengervelde Count De Kol. champion buil of the breed. The breed The breed The state of the breed the

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HOME-BRED AND IMPORTED HOLSTEINS



We must sell at least ag 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; such ave a few young bulls, Pontine Hermes, Imp, son of Henderveld DeKol, world's greatest herd. Come and see them.

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HOLSTEIN CATT a Lebice II you are thinking of haying a choice young cow or heiffer in life, come and see our herd. Will sell soul, to come and see our herd. Will sell soul, the come and come health heifers early law a down be mitted by the come and the

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KNOW it's pretty hard to make some folks believe a new thing is better than what they've been used to-a Pedlar



Culvert, for instance, than concrete or wood or what not. But I feel pretty sure that you will SEE it is, if you will just look into question fairly and squarely before you undertake any more culvert construction, or road improvement, or ditch-

Don't judge this NEW culvert by anything you've heard about other culverts. MINE IS DIFFERENT-a whole lot different, and a whole lot ahead of any other. Write to my people and make them show you why and how. We're making this in all standard diameters, from 8 inches up to 6 feet, so your wants can probably be supplied. Write and ask questions anysupplied. how



This Is The Practical Culvert

Not only is the iron that makes Pedlar Culverts best quality money can buy, but it is unusually heavy-from 14 to 20 gauge, instead of lighter gauges common

Not a Bolt Nor a Rivet About It

This extra to inferior goods. strength enables a Pedlar Culvert to stand heavy traffic upon roads, even though protected by a very thin cushion of soil. Mark

Unskilled Labor Can Easily Lay It

also, that this is the ONLY culvert made that is galvanized AFTER being curved and corrugated,-thus insuring it positively against rust and decay.

Extra-Heavy, Strong, Rust-Proof

The peculiar Pedlar flange, or locking-rib, along the whole length of each side of these Culverts, clamps together easily and most rigidly. There are no bolts, no rivelence in the control of the state of any kind,—simply clamp the edges of the flanges together, making a triple thickness of inter-sealed heavy metal along the side of pipe (read below the how this is quickly done) and you here how this is quickly done) and you will be the how this is quickly done and you are the how this is quickly done and you for the low the how this is quickly done and you are the how the ho



When the sections of Pedlar Culvert, of any diameter-it's made from 8 inches to 6 feet-reach you, they are nested like Fig: 1. Note the two distinct flangesthe radial and the recurved. These fit into each other, and are FLAT, while the CURVE of the culvert is corrugated. Place section on top of section, and the flanges,



or locking-ribs, engage easily, as you see in Fig 2. The joints between one length and another are "broken"-no over-lap reaches more than half-way round the culvert's diameter; and this is possible with NO OTHER metal culvert made. It is nost valuable feature, for it reduces the chance of leakage to the very least mini-



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