

FARM AND DAIRY

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IMPROVED LIVE STOCK OFFERS UNEQUALLED OPPORTUNITIES FOR PROFITABLE INVESTMENT
Money invested in pure bred dairy animals is profitable money. It is the kind of investment that comes back many fold. Better to own a first-class herd of pure bred dairy cattle on a rented farm than an inferior herd on a farm free of debt. The pure bred cattle will soon buy a farm for their fortunate owner. An attractive home, better farm buildings, financial independence and all other improvements, are soon available to the man who wisely invests his money in pure bred cattle of the rent-paying, mortgage-lifting kind. Such is the herd of A. S. Turner and Son, Wentworth Co., Ont., here illustrated.

—Photo by an editor of Farm and Dairy.

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CANADIAN COUNTRY LIFE

ISSUED
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Good Points

about

"Simplex" Link-Blade Cream Separators



The favorite everywhere it goes. Note its beauty and heavy compact construction, with low-down, handy supply can only 3 1/2 ft. from the floor.

"Simplex" Cream Separators are Easy Running. This is a big point to the man or woman who turns the machine. It makes the "Simplex" the only practical large capacity hand cream separator.

Simplicity is a leading feature of the "Simplex." Because of its simplicity it can scarcely get out of repair, and will last a lifetime.

The Bowl of the "Simplex" is Self-Balancing. It will always run steadily and skim perfectly, even under such handicaps as poor placing and a bowl slightly out of mechanical balance caused by damaging lack of care.

Ease of Cleaning is always to be considered. "Simplex" machines are popular with the women folks because they are so easily cleaned.

The new "Simplex" Separators have an Interchangeable Spindle Point. Should careless handling cause injury to the "Simplex" Spindle Point, a new point, with worn, at a cost of only \$1.25, can be put on in place of damaged point—thus saving great expense necessary for new bowl and spindle as required in other makes of cream separators.

Skims Catalogue Capacity under most adverse conditions. "Simplex" Separators always over-run their rated capacity when given ideal conditions.

Many other points, including the low down supply can, of the "Simplex" are explained in our free illustrated catalogue. WRITE FOR A COPY OF IT.

D. Derbyshire & Co.

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WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

The Heaviest Purchasing Season of the Whole Year

This time to our farmers is the first two weeks in June when they know how the crops will be.

Crops are expected to be good this year. There will be heavy purchases made of farm machinery during June.

Be wise and get into Farm and Dairy's great Farm Machinery Number, out June 6th. Have our prosperous farmers make these heavy purchases from your line.

Successful Mutual Fire Insurance

John N. Chute, Kings Co., N.S.
While Mutual Fire Insurance is in limited use in the Dominion of Canada, its true value is not fully appreciated. We farmers as a class are slow to take advantage of any system that is in the general interest. We are isolated and it is difficult to unite in anything for the common good. In living by ourselves, we are too much inclined to live for ourselves, and to forget that we, as farmers, have interests in common. Cooperation is the coming boom for farmers. Let us take advantage of it in all departments of our business.

Fire insurance is an agreement between two parties by which one party agrees to take the risk of fire for a certain time, on a *caveat* property, for a stipulated amount, called the premium. When Joint Stock Companies take the risk, the premium must be large enough to pay all losses and working expenses, and to yield a dividend to the shareholders of the company. In Mutual Companies, losses and working expenses must be paid, but the dividend is saved, to the insurer.

WHERE THE MUTUAL IS BEST
Actual experience has proved that both losses and working expenses are much less in Mutual Insurance Companies than in Joint Stock Companies. The losses are less, because the Mutual Company takes its risks over a small territory where the properties and owners are known to the management, and thus they get a better class of risks. The working expenses are less because they are usually able to secure some local man as manager, who is satisfied with a moderate salary; while the office equipment and rents are very moderate in comparison with the expensive equipments of the city offices. Thus, taking a general view of the matter, the insurance by Joint Stock Companies is extravagant and wasteful, as compared with Mutual Insurance.

The usual plan of Mutual Insurance is that each person joining, and insuring in the company gives a note, called a premium note, for an amount, usually about three per cent of the insurance. On this premium note he makes a cash payment of usually three-quarters per cent of the insurance. The premium note stands in place of the capital of the company and is liable to further assessment at any time when the company stands in need of funds in order to pay losses. Thus, a person taking \$1,000 insurance would give a note for \$30 and make a cash payment of \$7.50.

A SUCCESSFUL COMPANY
Our company, the Kings Mutual Fire Insurance Company, was organized in 1904. It has taken a cash payment of three-quarters per cent of the insurance, and has, with this amount, paid all losses and working expenses and accumulated a cash sur-

plus of \$9,000. The premium receipts for the last year amounted to \$5,210.25 and interest to \$899.11. The expenditures were: Secretary's salary, \$366.80; directors' fees and mileage, \$92.25; losses, \$4,161.

The Secretary is paid a salary equal to ten per cent of the cash premium receipts. Directors are paid \$2 a day and travelling expenses. The directors meet half-yearly unless important business makes it necessary to call a special meeting. The executive committee consists of three directors, and this committee meets monthly to pass on applications, and consult with the secretary about other business. Books are very carefully reckoned and audited by competent men. The agents give a bond of one surety for \$500.

We do not consider we have had one loss since starting that has not been purely accidental. We now have \$1,255,964 in this Valley, which we believe is the largest amount held by any one company doing business in the Annapolis Valley. This system has proved very satisfactory to all who have been connected with it, and we can commend it with confidence to others.

Paint Adds to Farm Values

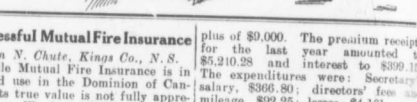
A. Hector Cullen, Colchester Co., N.S.
Twenty years ago it was the exception to find painted farm buildings in Nova Scotia, apart from the house. To-day it is the rule, in the more populous and better farmed districts. It is recognized by our best farmers that well-painted buildings are one of the best assets of a farm. It does not pay not to paint the barns and outbuildings.

I was driving through a section of the province not long ago with a man who was looking for a farm. He had not had much experience in farming. We visited several farms that I recommended to him, but they did not seem to catch his eye. We came to a farm where every building was painted, the fences in good repair, the machinery under cover. An air of neatness and prosperity pervaded the whole place. I knew that the land itself was not as good as many of the farms we had inspected. My friend was at once taken with the place and wanted to buy. So I would say to farmers, "Paint your buildings; it will make your farm look better than it really is; and if you wish to sell, there is no better way of effecting a sale."

Horse Breeding is the subject of a series of very interesting and valuable articles in the last annual report of the Secretary for Agriculture for Nova Scotia, just issued. Nova Scotia farmers should secure a copy of this bulletin by writing to the Provincial Department of Agriculture at Halifax.

In the Good Old Days

As We Have It Now



NEW ONTARIO AS A LAND OF AGRICULTURAL OPPORTUNITY

Rich, Fertile Land on a Parallel South of Winnipeg, Available for Settlement at a Price in Reach of All.—Has Nearby Railroads, Excellent Markets.

AND at 50 cents an acre, one-third cash and the balance in three annual instalments with interest at six per cent per annum—this land right in the banner province of Ontario, and its good land and near excellent markets, warranted less than one day's journey from Toronto—surely such land need not go begging! We refer to the vast area of farming land in "greater" or northern Ontario, and, indeed, it does not begin to begin. The influx of settlers in greater Ontario during the past two years has been remarkable. We do not hear so much about the immigration into northern, or now Ontario, as we do about those other parts of Canada, but here are the facts:

There are upwards of 60,000 people in greater Ontario to-day, whereas five years ago there were only 2,000 people. The deep black fertile soil, its location near to railways, unusually good near-by markets, and the comparatively short journey out to older civilization and old-established cities, are the facts at home, have been responsible for the great, yet almost silent, march of these people into this great land of opportunity.

SOME DETAILS OF VITAL INTEREST
Many of us in the older settled parts of this country find it difficult to form a fair idea of the extent of the vast tract of fertile farm land here under consideration. "The Great Clay Belt," as it has been called, contains an estimated area approximating 10,000,000 acres. A heavy covering of rich black soil lies over most of this area, the under soil being a sedimentary bed of great thickness and varying from stiff clay to a light loam.

The clay loam, however, is generally met with the lighter soils being less evidence. Several of the townships in this "new" country now resemble portions of older Ontario, so well settled and prosperous are they. This is in a large measure due to the construction of the Temiskaming and Northern Ontario Railway, a road which, starting at North Bay, proceeds northward to the junction of the Grand Trunk Pacific Railway, and the new route to Hudson Bay. This railway is owned by the Ontario Government, and is a thoroughly well-equipped one, with the most modern rolling stock.

CROPS AS IN OLD ONTARIO
The crops that are being grown are as profitable very much those grown in the older and better known parts of Ontario. Indeed, it is a fact that with the exception of some of the best tender fruits, everything grown in older Ontario may be produced in this greater Ontario, although under present conditions some crops are much more valuable than others. For instance, clover and timothy hay pay especially well, for the yield is quite commonly three tons to the acre. A ready cash market is near at hand for these commodities in the Jumbo and nearby camps. Wheat, oats and barley may well be grown, although wheat-growing has not been carried on to any large extent thus far. Peas do remarkably well, as do all legumes, including clovers and also alfalfa, which grows even in older parts is thought to need special soil and climate.

WHERE GARDEN CROPS EXCEL
In the matter of garden crops there is no land everywhere excels. Peas, beans, carrots, parsnips, lettuce, turnips, and cabbages, and blood and sugar beets, all grow and yield remarkably well.

The best results in growing these crops of course are not to be expected

the first year, since the new untilled lands are less cold and need the rays of the sun to warm and speed on it, and this can be accomplished only by plowing and good cultivation. Substantial crops, however, are raised even on new breaking and second and third crops are such as to delight anyone.

There is plenty of timber in the country. Lumbering operations are carried on extensively. The principal trees are of white and black spruce, balsam, poplar, Balm of Gilead, tamarac, white birch and white and red pine. The under growth consists of swamp alder, moose maple, mountain ash, ground hemlock, raspberries, blueberries and cranberries. Through being wooded to a greater or less extent, the country appeals to residents of the older provinces of Canada, and newcomers from the States feel quite at home compared to those who settle on treeless plains many miles from railroads.

TESTIMONY OF OLD SETTLERS
Settlers from older and better parts of "minor" Ontario have gone into this great new country and have done remarkably well. It is interesting to note what some of them have to say of their experiences. Space permits us to mention but a few, and these in brief.

Mr. Ferdinand Kosmacek, of Milberta: "Does it pay to come here and make a farm? I say most emphatically, 'Yes.' I say 'Yes' although we hear the statement made very often that it does not pay; that it pays better to work for the good wages which prevail. The explanation is simple. A very great percentage of the people here are often from the cities. They have been accustomed to receive their salary, or wages, monthly, in cash. When a man here goes in for carving out a farm, he receives but little money for his labor; he receives his reward in the improved value of his land. When working for wages the pay comes immediately; in the other case it takes two years before a return for the outlay commences to come in."

HOW IT FIGURES AS AN INVESTMENT
"If a man clears land and it costs him \$30 an acre, he has the right to expect that it will bring him good interest for the \$30. He has no right to expect it will also get his money back. If a man is not contented to take the reward for his labor in the shape of a good farm and a comfortable home, he is not willing to put up with the inevitable hardships of a beginner, then let him keep away from here, but if he is willing to spend \$30 in clearing an acre of land that is sure to bring him good interest on \$30, here is the place for him."

A RICH, BLACK, FERTILE SOIL.
Mr. N. A. Edwards, a former farmer from Lambton County, in old Ontario, after eight years in Northern Ontario, writes: "I will truly state that in all my travels I have never seen a richer soil than we have here. The soil may be properly called clay here. On the surface of all farms here in the fallow there will be found a few inches of black vegetable mould, which, if it does not get burned off too closely when you are burning the fallow, is plowed up and assimilated with the rich clay loam, makes one of the best soils that could be produced."

During the past few years several parties of sightseers and land seekers have been organized and taken on a trip through this great arable and richly fertile tract. Astonishment and admiration have invariably been expressed.

(Concluded on page 2b)



Improve Your Farm Equipment by Adding To It A MOWER OF QUALITY

Peter Hamilton Mowers have stood the test of over a quarter of a century. They have never failed. They are kept right up to date each year, the latest improvements being added.

Get a Peter Hamilton mower this season and you will have a mower that will last you years after many other mowers will be sent to the scrap. It will cut all the grass, whatever its condition, or the condition of the surface of the ground, as it can be stopped and started in the heaviest clay.

THE CUTTER BAR

is flexible. It is made of heavy steel, sufficiently strong to prevent sagging, and is supplied with steel wear plates, which, when worn, can be replaced, thus giving a new wearing surface for the knife bar at little cost.

The FOOT LIFT is convenient, easily operated and is balanced by a lift spring. The tilt lever has a wide range of movement.

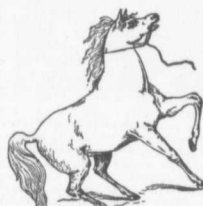
All gears are in perfect mesh. They are substantial and have lots of power.

The Pitman is long and has a direct and easy stroke. It is well protected from stones or obstructions by the drag-bar.

All bearings are equipped with Roller Bearings or Removable Bushings. MADE IN THREE SIZES: 4 feet 6 inches, 5 feet and 6 feet cut.

Let us tell you more about our mowers. Write us tonight for our free illustrated catalogue and be sure to see a Peter Hamilton agent and find out what a good proposition can be offered by

THE PETER HAMILTON CO., Limited, Peterborough, Ont.
"Peter Hamilton Machinery always gives satisfaction."



"To be Fore-warned is to be Fore-Armed"

Just at this season your Horses and Cattle and Sheep and Swine are very liable to disease. You can learn how to treat them and how to prevent disease by reading

Gleason's Veterinary and Horse Taming Book
This Book we will give you Free

We have given away scores of these valuable books and our people have been delighted with them. We still have a number left and have one for you, which we will send you free, and postage paid, in return for your help in getting us two new subscribers to FARM AND DAIRY, each taken at only \$1.00 a year.

All old Subscribers to Farm and Dairy may have their book sent free and postage paid to their own address in return for their own renewal subscription to Farm and Dairy, \$1.00 and one new subscription at only \$1.00.

IF HANDSOME CLOTH BINDING AND EXTRA QUALITY PAPER IS DESIRED SEND 25c ADDITIONAL.

This Great Horse Doctor Book and System of Horse Taming contains 620 pages of illustrated, treated of all the diseases of Horses, Cattle, Poultry, Sheep and Swine and gives their Remedies and full advice as to their cure.

It may mean many dollars to you some day soon to have this practical and reliable Veterinary book right at hand. Have us send your copy now. See your friends and neighbors right away. They'll be glad to subscribe to Farm and Dairy, and the book will please and instruct you in things well to your advantage to know.

Farm and Dairy, Peterboro, Ont.

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FARM AND DAIRY & RURAL HOME

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Vol. XXXI.

FOR WEEK ENDING MAY 2, 1912.

No. 17

IDEAS FOR FARM IMPROVEMENT MIKRORED IN A SUCCESSFUL EXAMPLE

Being a Sketch by One of the Editors of Farm and Dairy Describing the Prize Winning Farm of A. S. Turner & Son, Whose Farm is in Western Canada

A REAL dairyman, and one who manages his farm after up-to-date and progressive methods, thereby improving his farm and getting large annual revenues from the same, is Mr. A. S. Turner, of Ryckman's Corners, Ont., who, with his son, are noted breeders of Ayrshire cattle, and last year took a splendid stand in the Interprovincial Dairy Farms Prize Competition conducted by Farm and Dairy. The Turner farm took fourth place for the district. In the total score it was but three points below the third prize farm, and but five points short of the second prize farm. The judges (Mr. Simpson Rennie, Ontario's famous Gold Medal farmer, and one of the Editors of Farm and Dairy), before totalling up the score, were inclined to think that Mr. Turner might be right at or near the top, but some points in connection with his farm, which he has had under his management only four years, offset his remarkably high score on some strong points, and when the total was made his farm came into the place indicated.

Mr. Turner is especially to be commended for the improvements, which he has made, and is making, on his farm, in the stables, and especially about his home. His home has many attractions not ordinarily given so much attention. The illustration given on this page shows a partial view of the front of the house, in which view may be seen some of the flowers that adorn the porch, and the borders along the house. An improved lawn, neatly kept, and some rockeries, at the side of the house, in which flowers are growing, give Mr.

Turner's home, together with its otherwise attractive appearance because of paint, an atmosphere altogether taking, and shows the Turners to be people who appreciate these real things of life that can be had about any home.

Dairyman and others throughout Canada know Mr. Turner probably best as a breeder of pure-bred Ayrshires. His herd is such a one as will delight the eye of anyone. He has several world beaters, and there are many high record cattle in his herd. At the time of our visit the herd numbered 68 head of pure-breds. Thirty-five of these were cows, and of these 26 were milking. Mr. Turner has always been very particular about the coats of his Ayrshires, and they are extraordinarily good in this respect, being of large size. Our front cover illustration this week conveys some idea of the pleasure it is to look upon this noted herd of cattle.

Mr. Turner is also a horseman. He does not care for the Clydes and other heavy horses, but likes a good big 1,200-lb. carriage horse,—something that can get over the ground at a faster

clip. Mr. Turner has been very successful with light horses, he having bred and developed some noted racers, one of these, Vera B, a 8-year-old mare, being driven by Miss Turner, is shown in the illustration on this page. This mare was bred by Mr. Turner, and until he sold her some months ago, she worked on the farm on every implement except the binder. She was used for drawing milk to Hamilton, and was even used for plowing.

Under Mr. Turner's handling this mare made a mark of 2.17 1-4, and is believed to be capable of doing much better. She has been sold to a gentleman in Hamilton, who paid \$2,000 for her. During the past two years she has won over \$1,500



One of the Best Improvements on a Prize Winning Farm

The real things of life are appreciated by the people who live here. A. S. Turner and Son, Wentworth Co., Ont., whose prize-winning farm is described in the article adjoining, are good farmers and most successful dairymen. But they have not stopped at money-making improvements. They have built themselves an attractive home that is a pleasure to themselves and all who behold it.

—Photo by an editor of Farm and Dairy.

in prize money, besides doing enough work on the farm to more than earn her keep.

As one steps into Mr. Turner's horse stable it is evident at once that he is a horseman. The horses were all standing in their stalls without halters on their heads, they being retained in the stalls by ropes behind. "It is cooler for them in the summer," said Mr. Turner. The manner in which they were bedded and their every comfort attended to shows how solicitous Mr. Turner is for his horses. The mangers in the horse stable are contrived with cracks at the back in order to allow the dust to get out and not be retained in the mangers.

The comfort of the cattle is equally well looked after. The stables at the time we saw them were neat and clean. They are arranged very conveniently. Cement floors are in his stables throughout. Wire fence in front of the stalls makes a fine appearance, and allows the light to get to all parts.

Every morning during the fly season the cattle are sprayed with a mixture for flies. Mr. Turner

was enthusiastic about this practice, and said that the cows soon showed it in their lessened milk flow should for any reason they not make the application every day.

FLIES DON'T TROUBLE HERE

The young stock, calves, were stabled in the summer during the day time to keep them away from the flies; these calves seemed to be thriving unusually well, and they demonstrated the worth of the practice of protecting them and feeding them in the stable, rather than allowing them out to rough it in the pastures, as is frequently done.

The stables were whitewashed. A wainscotting of lamp-black, up about four feet, gave the stable a distinctive appearance, this black having been put on in order that splashes of manure might not show, as they otherwise would on the white-wash.

Other details in these stables are worthy of mention did space permit. Suffice it to say that all details received attention. The care given the minor things was evident even to the milking stools, they being painted.

POINTS ON STABLE MANAGEMENT

Water basins in the stalls provided water in abundance at all times when the cattle were in the stable. At the time we saw them, early in July last year, all of the cattle were being brought to the stable at noon and fed in the stable; a ration of Brewer's grains, a little chop, and some silage being given to supplement the pastures, which were getting short enough on account of the drought. Some of the recently freshened cows and those making important records were milked at noon. The noon milk was separated when drawn, and the cream secured sold in the city. The morning and evening milk was not separated, it being sold wholesale by the gallon to a firm in Hamilton.

The ventilation in these stables was not all it should be, it depending merely on trap doors, where the feed was put down, and bags over some open windows for inlets. Mr. Turner frankly acknowledged that he should have better ventilation, and intends to have it in a satisfactory, up-to-date system when he changes over his barns in the near future.

The milk-room was equipped in a thoroughly practical manner, and was a model of cleanliness and neatness. It had a cement floor, which had been put down like a city pavement, and inclined towards a drain, which carried away any water. The room was equipped with platform scales for weighing the milk. An abundant supply of water was available. There was a cooler, and a tank in which the milk might be set to cool.

A POINT IN RECORD TAKING

At each milking the milk from each cow is carefully weighed and individual cow records kept. To facilitate keeping the records clean Mr. Turner has arranged a neat device, whereby the

(Continued on page 9)

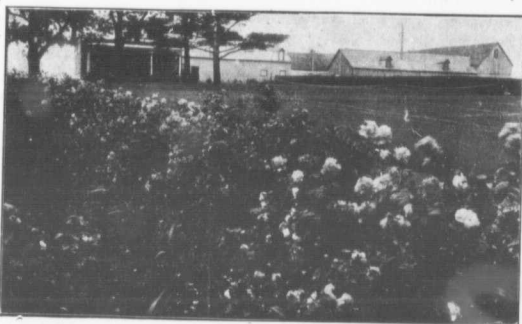
Use The Locked Up Soil Fertility

C. R. Bishop, Oxford Co., Ont.

When we farmers rent a farm or buy a farm we buy more than the surface. We buy a slice of earth resembling a section of a water melon that goes right straight to the centre of the globe. We cannot make use of all of it. But there is a whole lot of fertility in the first 10 or 15 feet that we should not forget about. We must farm more than the surface. It has been estimated that in the average soil there is enough fertility in the first few feet to grow good crops for the next 50 or 100 years. By good methods of farming we can make use of that fertility for our own benefit.

In our neighborhood here in Oxford county we have in the past seven years seen a worn out and what many

considered a useless farm transformed into one of the most attractive farms in the county. The young man who took that worn out, weedy farm thoroughly appreciated the fact that he owned more than the surface and that there was fertility there to feed him and his family as long as they



Beautiful Grounds Surrounding the Home of a Well known Ayrshire Breeder

His Ayrshires do not monopolize the time to render the surroundings of his home attractive, and the illustration herewith testifies to the fact that the boy on the farm, is here suggested.

He first divided the cultivatable area into four fields of equal size, and started with the four-year rotation of corn, mixed grain seeded down, clover and pasture. By thorough cultivation of the corn crop he put the land in the best of mechanical condition, and by aerating the soil made some of the unavailable plant food available. The clover crop that followed drew on the soil for the other elements of plant food. None of the raw products were sold from the farm. Everything went back in the form of manure.

By making good use of the locked up fertility in the first few feet of his farm, this young farmer has now 40 head of stock on his 100-acre farm, 25 to 30 of which are milch cows. He has paid for the farm, has money in the bank and lives well. Outside of the feed bought, he has never added one cent's worth of fertilizer to the farm. He has "built up" his farm from within the farm. The fertility was there and he used it. All of us can do the same if we will.

Strong Arguments For More Sheep

Leonard A. Murchison, Wellington Co., Ont.

There is good money to be made in the sheep business. Farmers who cannot boast of a few choice sheep are making a sad mistake in not getting into the business. I have seen a flock of 20 sheep that have been the means of doubling the profits of 30 cattle. While this may be a rather strong statement, it is a fact.

From many years' experience and observation I am fully convinced that there is no better means of improving worn out soil and fertilizing, than by the aid of sheep. On more than one farm I have seen dry, barren spots, such as side hills and gravel knolls, made fertile and productive

in a single season, simply by salting a small flock of sheep on those spots twice a week during the summer. The sheep would be sure to resort there several times a day to lick up the salt left for them, leaving their droppings, both liquid and solid, which are very rich fertilizers. The next season the most rank and luxuriant growths of grass and grain would be produced on those "galled spots," better than from any other portion of the whole field. Hence the best kind of manure was supplied, and spread over that part of the land where most needed, and without any hard labor.

Why I Prefer Tile Drains

Jas. Marshall, Wentworth Co., Ont.

Tile drains have many advantages over open

ditches. Surface ditching makes it troublesome and dangerous in driving over a field with machinery. When I was driving over a surface ditch one day with a binder, I was thrown off the seat and almost in front of the knife blades. Some of my fields that are drained have not one surface ditch in them. They can be kept smooth and level, which is the proper way to have fields in order that we can cut close to the ground when the grain is lodged, as it is likely to sometimes be because of the ranker growth on the undrained land.

Some farmers will expend nearly as much labor in three years keeping surface ditches clean as would dig or plow out an underdrain three feet deep. And then there would be the cost of tile extra.

Large and small surface ditches often leave fields gorse-shaped or angling. It costs more to plow, harrow, sow and reap such fields than square fields. This causes delay in the farmer's busiest time.

It costs much less to operate a well-drained farm than one that is not. I find that the yields of hay, grain, roots, etc., are much better.

It is said that the musicians of a brass band are unable to play in the presence of a man sucking a lemon; it makes their mouths water so much. A semi-circle of cows gathered around a silo, when the silage is being served, will, it is said, present a similar spectacle. They remember the, to them, delicious flavor of the silage; its odor tickles their nostrils, and the water fairly drips from their mouths. Heroin is further proof of the value of silage in cattle-feeding. A feed which thus stimulates the appetite of the cows can hardly be otherwise than excellent for them.

Remove This Human Death Trap

J. Andrews, Huron Co., Ont.

A prominent physician has said that "we get sick because we eat our own excreta." This sounds strong. Most of us may not believe it. But it is true. Let me illustrate. I was eating my supper in the kitchen of a farmhouse near here last summer. I noticed the flies coming in that they went all over the food we were to eat. A

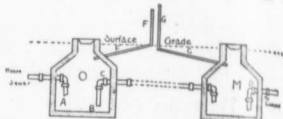


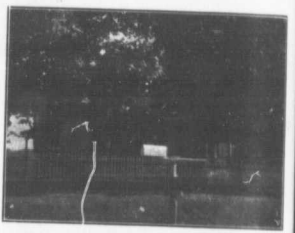
Diagram of Septic Tank

See article adjoining.

little further investigation revealed their breeding place. The pipe from the sink emptied onto the surface of the ground near the house. An ideal place for flies to breed. Nearly was an old fashioned privy. Another menace. And the flies were coming directly from these places to the food we ate. As long as we allow these deathtraps to lurk in the open country we will have sickness and disease where God intended that all should be well.

The solution of the problem lies in placing sewage, slops, etc., under the surface of the soil. The means is best attained by means of the septic tank, a diagram of which I am sending to be reproduced in Farm and Dairy. The sewage runs into the first section of the tank at A. It runs gradually out to the second section at B and discharges at D. While in those two tanks the bacteria of the sewage completely destroy the organic matter, and what is finally discharged is almost pure water, and can be run off into the field. Two sections in the tank are not necessary, but the sewage is more thoroughly decomposed than in one. As the organic matter is changed to gas vapors must be provided for the escape of the gas as at F, G.

I have seen several septic tanks of the plan of this one in operation, and giving the best of



This Looks Like Twentieth Century Progress

Do you get your mail delivered at your gate every day? The wants of farmers do, and the system is being widely extended. The farm home and mail box of Frank A. Hobb, Brant Co., Ont. may be here soon. Satisfaction. True, such a system involves the expense of running water and a properly equipped bathroom. I have yet to see, however, any one who has regretted the expenditure of \$200 or so on these conveniences once they have made the expenditure.

Proper disposal of sewage is an improvement more of our farmers need to attend to or we will continue to have sickness and disease in our midst that is absolutely unnecessary.

Cheap money is one thing we farmers all need. Why not have in Canada a banking system that will meet the needs of the many rather than the few.—E. F. Eaton, Colchester Co., N. S.

Profitable E

Walter My experience no more profitable good, pure-bred always been into



One

In the adjoining Co., Ont., tells of one pure-bred mare that he still

—Ph

believing that Clydesdale would pure-red mare, I sold her for \$800, but I am stock. Two of mine died, but one mare could I

My experience breeding stock, years before I team was the of my common cost me only \$25 for her were she

The advantage now have is that the farmers of Ontario bred Clydesdale dividends than at

Underdrain

R. H. M.

Underdrainage should be made on drains will put it not only for the improvements a possible time.

The first drain was of three-inch labor was \$35. A

water from about riously too wet to When the land was and the first crop wheat worth one d the first crop after the cost of drains tional return, but first crop repaid t drains cost me an paid for themselves outlets were all ne nearly all three-in ings. But under three years will pa

Of course the di able to the young under mortgage. It will pay to loo "Ontario Tile, Sto and to make use of

Profitable Experience with Heavy Horses

Walter Elliott, Halton Co., Ont.

My experience leads me to believe that there is no more profitable animal on the farm than a good, pure-bred Clydesdale brood mare. I have always been interested in horses. Nine years ago,



One of a \$1,600 Colt Crop

In the adjoining article Mr. Walter Elliott, Halton Co., Ont., tells how he got \$1,600 worth of colts from a pure-bred mare. The mare illustrated is one of the pair that he still has on hand.

—Photo by an editor of Farm and Dairy.

believing that the time would come when the Clydesdale would be in great demand, I bought a pure-bred mare, an imported one.

I sold her first pair of colts for \$800. I now have a second pair that I could sell for over \$800, but I am going to keep them for breeding stock. Two of the foals from this old mare of mine died, but even as it is the progeny of this one mare could have brought me in over \$1,600.

My experience illustrates the advantage of good breeding stock. I had been breeding horses many years before I purchased this mare, but \$400 a team was the outside price that I could secure for my common stock. My first pure-bred mare cost me only \$225, but I would not take \$1,000 for her were she in my possession to-day.

The advantage of having good stock such as I now have is that there is always a market. If the farmers of Ontario would each have one pure-bred Clydesdale mare she would pay them better dividends than any other stock on the farm.

Underdrainage A Paying Improvement

R. H. McCurdy, Elgin Co., Ont.

Underdrainage is the first improvement that should be made on farms that need drains. Under drains will put the land in a condition to pay, not only for the cost of drainage, but for other improvements as well. And that in the shortest possible time.

The first drains that I installed on my farm were of three-inch tile. The total cost for tile and labor was \$35. These drains took the surplus water from about two acres of land that was previously too wet to produce anything but weeds. When the land was drained it was sown to wheat, and the first crop harvested threshed 60 bushels of wheat worth one dollar a bushel. In other words, the first crop after drainage paid nearly double the cost of drains. This is of course an exceptional return, but I have other fields where the first crop repaid the full cost of drainage. My drains cost me an average of \$15 an acre, and paid for themselves in two years. My drainage outlets were all near at hand, and my tile were nearly all three-inch. In them I had an advantage. But under average conditions in Ontario three years will pay for cost of drains.

Of course the drainage problem looks formidable to the young man who is holding a farm under mortgage. To such I would suggest that it will pay to look into the provisions of the "Ontario Tile, Stone and Timber Drainage Act," and to make use of a loan for drainage purposes.

It also pays to send to the Department of Physics at the O. A. C., Guelph, and secure the services of that department in making a proper survey of the work to be undertaken, and in this way to avoid making serious mistakes in installing the farm drainage system.

Does the Silo Pay?

Wm. Stewart, Northumberland Co., Ont.

One of our neighbors put up a stave silo 14 by 30 feet at a cost of \$225. The agent who put it in agreed that if our neighbor did not think the silo was worth the money after one season of use, he would take it back. Our neighbor has now used that silo, but there is no talk of "taking it back." He would not do without it.

He has told me that his cows never came through the winter so well even if well fed on other foods as they have since he installed the silo. He finds that his cows now do better on silage and straw than in other cold seasons when they ate all his hay and grain.

I have known for many years the virtues of the silo as a storehouse for winter feed for cattle.



Several Points Here are Worthy of Emulation.

Note the fine new barn, the power windmill, the conveniently arranged litter carrier and, above all, the capacious concrete silo on this Leeds Co., Ont., farm; the property of A. B. White.

—Photo by an editor of Farm and Dairy.

I believe that every dairy farmer should have a silo for summer feeding as well. I believe that in the summer ensilage will give better returns than at any other season of the year.

Needed Improvements in Live Stock

R. S. Stevenson, Wentworth Co., Ont.

I like to go into a man's barn and see what kind of stock he keeps. Sometimes I find modern stables fitted up with all the latest devices for the comfort of the cattle. But as I pass along and look at the kind of cattle in them, I often find 15 or 20 cows, with only six or seven that could possibly be profitable to keep. We find the same thing on some farms where they are feeding beef cattle. We will see a bunch of steers, the majority of which would never make any profit for the farmer.

We cannot afford to keep these unprofitable animals in these valuable stalls. We can better have a house with a tenant in it who did not pay rent than to have unprofitable cows or steers occupying stalls in our stables. We do not have to board the non-paying tenant, but we do have to board the cow or steer that stands in our stall.

We must look at these things in a business-like way. We must apply business principles to our farming operations. I look upon the feeding of live stock as nothing more than a manufacturing business. The manufacturer is always looking for

something that will enable him to manufacture his products at a cheaper rate, and if a machine comes out that will enable him to manufacture at slightly reduced cost, he must have that machine. If he does not the other fellow will get it and will be able to undersell him in the market.

The feeding of live stock is just as much manufacturing as the making of boots and shoes. To cheapen the cost, we must keep high-class dairy cows, or steers if we are feeding for beef. We must grow cheap fodder on our farms in the shape of clover, hay, alfalfa and ensilage. It is just as necessary for the farmer to try in every way to reduce the cost of production as it is for the manufacturer.

Grow Alfalfa Without a Nurse Crop

W. O. Morse, Halton Co., Ont.

We have been growing alfalfa for 15 years, in fact, ever since we started farming, and have never had a failure but once. That time our alfalfa was smothered by too heavy a top-dressing of manure. It was only a small patch so the loss was not great.

We plow the land in the fall, leaving it as loose as possible in order that the frost may have every opportunity to work on the soil. We work the land in the spring, cultivating frequently till the first or even the middle of July. This long period of cultivation pulverizes the soil, eradicates weed seeds to the seeding depth and also we believe makes plant food available. Blue weed is our worst alfalfa pest, and in order to clean it out of the ground we use the brood tooth cultivator.

As to the results of our system: Last summer was exceptionally dry. We sowed two strips of alfalfa, the first as early in the spring as the land could be gotten into condition, the second strip in the manner that we have just described. The weed seeds were just ready to grow in that first strip. And they did. We were soon able to cut a good crop of fustail off that alfalfa yield. But the alfalfa made a poor start. The other piece cultivated until July is in excellent condition. When we sowed the seed one could go into the field, and with the toe of the brood reach nice moist soil. As the year was exceptionally dry we did not cut a crop in 1911, but the stand was good while alfalfa seeded by our neighbors in the usual way was a total failure.

An objection frequently advanced against our



Putting His Theory into Successful Practice

One of the successful farmers of Lambton Co., Ont., is R. L. Moorhouse, a graduate of the 1910 class at the O. A. C. "Chinky" as he was known at college, may be here seen cutting one of his money-making crops—alfalfa.

system of growing alfalfa is that the land is practically idle for one whole year. This explains why the nurse crop method is more popular. We, however, almost invariably have a good crop of alfalfa the first year seeded without a nurse crop (about three-quarters of a ton of hay to the acre), and we have a better crop in all succeeding years than did we risk the stand by sowing early with barley or oats. Alfalfa does not stand shading. The nurse crop robs the young plants of moisture and I cannot see where such a crop is advisable.

Improvements Through the Rural School

P. G. George, Wellington Co., Ont.

"Rural Improvement is in the air," said Prof. H. L. Hutt, of the Ontario Agricultural College, to me recently. And he was right. Everywhere we go we find that people are taking a greater interest in improving and beautifying their homes and home surroundings. I believe that the rural school can be made to play a most important part in creating even greater interest in the beautification of country homes. Our school system is good as it is, but were landscape gardening in its simplest forms added to the curriculum of the

way by shrubs and trees is that they have little idea of arrangement, and in many cases are totally unacquainted with the shrubs and how they should be used. Here is where the rural school can play a most important work in rural improvement. Make the school grounds an example of effective planting. And follow it up with a place for landscape gardening on the curriculum.

Farm Improvement by Tree Planting

Wm. Wightman, Glengarry Co., Ont.

No matter how good a farm may be or how

too far apart when the trees mature. Trees will also grow better and will be more healthy and rugged when planted at 25 feet.

DON'T PLANT CLOSE TO HOUSE

I would not advise trees to be planted close up beside the house; trees cause dampness in summer. We planted a few on the lawn and near the house, where we can easily get shade nearby and enjoy it with pleasure.

Some people might think that 600 trees would take up too much ground; also that it would be a long time before they would be of any benefit. We have found, however, that as soon as the roots get well started and the trees begin to branch out that they will raise the winds and storms overhead. The trees that we planted out are all fit to tap now. I remember once of picking potatoes where the trees are, and I consider myself a young man yet.

AS AN INVESTMENT

It is a good investment for any one to plant a few shade trees around the buildings. All the ground they will occupy will make no one poor if he has enough ground to call it a farm. A farm with this kind of a protection and shade is worth a good thousand dollars more than an ordinary farm with no shade trees around the buildings.

Alfalfa a Farm Improver

A part of the 50-acre farm of Mr. John Beemer, Brant County, Ont., is made up of steep clay hillsides that, in the hands of previous owners had not been over productive. When a man has to make a living of 50 acres, however, he cannot afford to allow any of it to lie idle. By means of alfalfa Mr. Beemer has converted these unproductive hillsides into profit producers. When visited by an editor of Farm and Dairy last July the alfalfa was growing almost waist high on those hillsides. Mr. Beemer informed us that in a good season he takes three crops from those fields, getting altogether 2 1-2 to 3 1-2 tons of the best kind of feed fodder per acre.

On many farms there are similar hillsides now unproductive that could be turned to profitable



School Grounds, Such as These, Have Educational Value of Far-reaching Importance

From the grounds that surround their school-house children may gather ideas of planting that will result in the beautifying of all the farms in a neighborhood. The grounds of the Rittenhouse School in Westwirth Co., Ont., may be here seen.

country schools the possibilities for good work would be added to enormously.

Most of us learn faster by seeing than by hearing. A lecture course on landscape gardening in the rural school such as I have proposed would arouse little enthusiasm in the minds of the pupils did not they see the teaching of their text book put into practice on the school grounds.

NO GOOD EXAMPLE HERE

What is there about the average school to arouse the pupils' enthusiasm for the beautiful? I have in mind the plain little frame building that I myself attended as a boy. The shack, for that was all it was, was badly in need of paint. There was not a tree nor a flower anywhere. Instead of being an example to the pupils of what well directed effort will do in improving surroundings it was the homeliest place in the whole neighborhood.

I have in mind also another school that I recently passed in a small village in western Ontario that made such a good impression on me that I find myself smiling pleasantly every time I think of it. Trees were there in abundance, and planted out so as to make a nice background for the school. Shrubs and flowers were interspersed along the fence, and in front of the school building was a nice green sward for the children to play on.

OF COURSE THEY WILL

All the trees, flowers, and shrubs were labelled and those children had every opportunity to learn the names and habits of flowers, shrubs and trees and something about their arrangement for beautiful effects. These children who spend a good part of their daylight hours for eight or 10 years in that school must certainly carry home with them ideas that will result in more beautiful homes.

One of the reasons why our farmers are so slow to beautify their surroundings in nature's own

pretty are the surroundings, unless there are a few trees planted around the buildings I would not count that farmstead perfect. I was only a little boy when my father planted shade trees around our buildings. He planted 600 maple trees in block as a protection for the buildings and stock against cold winds and storms in both



Planting, Such as this, is an Art that can be Taught in the Rural Schools

In the illustration may be seen another corner of the school grounds illustrated above. Children attending this school are, perhaps, unconsciously getting an education in landscape gardening that will bear fruit in more attractive farm homes in the community.

summer and winter. He also planted trees on both sides of the public road, which runs right across the place. These trees form a beautiful avenue now.

We planted our trees 10 feet each way. This is entirely too close. They should have been set 25 feet. This latter distance may look far apart when trees are just set, but it will not be a bit

account and the value of the farm increased by seeding to alfalfa. What Mr. Beemer has done another can do. Difficulty may be found in establishing the plants in fields sloping to the north. Mr. Beemer suggests that in cases such as these good stable manure applied in the fall will protect the plants from the winter winds and prevent heaving.

There is no I who live in the all agree to that



A Type of Ro

however, even the vastness of rural have been practi bargo of the fine have here one of in Ontario. B drove for four r and only got the was on a new pic long put in last t the two kinds of to Farm and Dai

What are we I would cost far and I don't believe who would stand been reading in what some farms with roads that am going to sugga tario try out the experimental stag

The movement try town. A com the roads running hired farmers to s ervices with a sp to November 7 th at an expense of surprising and ch surface from 12 date of writing a and apparently w face this spring.

This looks to m



A Good Style of R

county and town Farmers' Clubs to We recognize bad But we do not belie

Ventilation.—Dair poorly ventilated, required to live, b influences and also

What About Our Clay Roads?

B. M. Menzies, York Co., Ont.

There is no life like country life. Those of us who live in the country and love the country will all agree to that. For the last two or three weeks,



A Type of Road Too Common in Rural Canada.

however, even my optimistic outlook on the advantages of rural life has received a bad jolt. We have been practically hemmed in by a mud embargo of the finest kind of York county clay. We have here one of the very finest farming sections in Ontario. But the roads are a disgrace. I drove for four miles recently in a light wagon, and only got the horse off the walk once, and that was on a new piece of stone road about 100 yards long put in last fall. It was the contrast between the two kinds of roads that inspired this article to Farm and Dairy.

What are we going to do with our clay roads? It would cost far too much to stone them all, and I don't believe we could find one farmer in 10 who would stand for the expense. I have just been reading in a United States publication of what some farmers over in Missouri are doing with roads that are just exactly of our own. I am going to suggest that we farmers here in Ontario try out the experiment that has passed the experimental stage in this Missouri community.

The movement first originated in a small country town. A commercial club of the town divided the roads running into the town in sections and hired farmers to drag these sections at stated intervals with a split-log drag. From January 15 to November 7 these roads were dragged 20 times at an expense of \$6 a mile. Results were most surprising and clay roads were left with a hard surface from 12 to 18 inches deep, that at the date of writing were shedding the winter rains and apparently would offer a good travelling surface this spring.

This looks to me like a good line of work for



A Good Style of Road Culvert in Halton Co., Ont.

county and township councils and also for our Farmers' Clubs to take up. We love country life. We recognize bad roads as one of its drawbacks. But we do not believe them irremediable.

Ventilation.—Dairy barns are very frequently poorly ventilated. The dairy cow is then not only required to live, but to work, under unfavorable influences and she often falls a victim to such

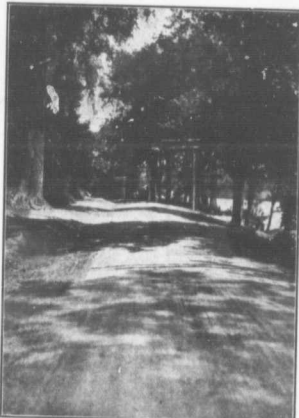
diseases as tuberculosis, pneumonia, bronchitis, and colds. Foul air is one of the prime factors in the production of such diseases. Since the advent of sanitary science in connection with ventilation, the air space allowed for each animal has been increased, and a number of methods of ventilation have been devised. The exercise of a little care in such matters will protect the health of animals, prevent premature death, and also make possible the highest working efficiency of the herd.—Washington Agricultural College.

Good Roads Now Popular

W. O. Morse, Halton Co., Ont.

Our experience with improved highways here in Halton county leads us to believe that once the County Good Roads System has been adopted the roads themselves will be the biggest recommendation possible for improved highways, and small expenditures will lead the greater ones as the value of the improved roads is realized.

The biggest objection that our farmers raise to better roads is their cost. I can remember that a few years ago the feeling against road expendi-



A Source of Pleasure and Satisfaction to all who use it

The illustrations of roads and road-making on this page show what the Quebec government is doing to improve country roads in that province. The road here illustrated in Stanstead Co., Que., represents a large expenditure; but is it not worth while? We wonder what the men to be seen in the rig in the upper left hand corner think about it.

ture was so strong that did a man then hint that he favored the Country Roads Scheme he could not hope to get into the Council. Now it is exactly the opposite. The only men whom we elect to the County Council are those who put themselves on record as favoring greater expenditures for the extension of good roads.

GOOD ROADS ATTRACT TRAFFIC

In Halton county, when the good roads movement was well on foot and certain roads had been improved, we found that these roads immediately diverted traffic to themselves and became the main arteries of trade. The whole populace shared in their benefits; not those only who lived along the roads as was at first supposed would be the case. Their value is now appreciated, and we have every expectation that Halton county will make very good use of the county roads grant.

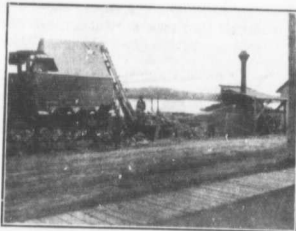
The roads in Halton county that have done the most good in educating us farmers to the advantages of greater expenditures on our highways have been those leading into the principal market

(Concluded on page 8)

Good Buildings an Asset on the Farm

A. D. MacInnes, Stormont Co., Ont.

We believe good buildings a very important asset. Yet we know personally many farmers whose only goal is their bank account. So anx-



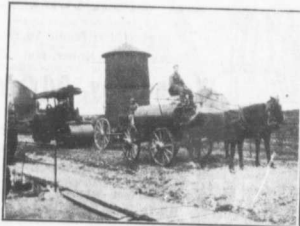
One of the First Stages of Road Improvement

ious are they to keep that account growing that they lose sight of things of greater importance. They fear to invest some of their savings in better and more modern buildings. It is plain that they do not stop to count the gain. If cow improvement is worth while, barn improvement is equally important. What can any cow do in a cold, unsanitary stable?

Good comfortable stables with water before the dairy cows at all times is a good investment. This last year in our new barns and stables we were able to milk our 23 cows and continue shipping cream all winter, which we were not able to do in the old stables. We have not forgotten the days in the past when our buildings were out of date, uncomfortable and inconvenient, and we were kept busy the greater part of the day and a good part of the night doing chores. Now, it is a pleasure to do chores. It is a pleasure to see the stock enjoying their feed in a stable of even temperature. This, alone, makes us feel that a good barn is an asset.

The watering system is an important part of the modern stable. Our water is pumped by a windmill to the house and barns. In the house we have hot and cold water on tap, a complete bathroom and septic tank to take care of the sewerage. Our new barns in the recent Dairy Farms Competition scored highest in our district for convenience.

We have no silo at present, but are preparing to build a couple of cement block silos. I believe it pays a farmer in the dairy business to have two



A First-Class Road in the Making

silos, one being reserved for summer feeding. We had a silo in connection with our old barns for 15 years, and knew the value of ensilage for dairy cows.

Free rural mail delivery is one of our greatest blessings. For this we owe much to Farm and Dairy.—Geo. Adams, Wellington Co., Ont.

Your Ultimate Choice

You may not buy an Empire this year. You may decide that your present separator will do for another season. Like many other present owners of

EMPIRE

Cream Separators

you may even be persuaded to buy two or three other makes before you finally get to an Empire. But the Empire is the ultimate machine. No other will fully satisfy you so long as you know there is a better machine—an Empire—on the market.

Sooner or later you'll realize the truth of what we are telling you now. Perhaps you would realize it sooner if you were to read our booklet? Perhaps you would like the Empire to demonstrate its superiority to you in your own home? That will be the best proof of our statements. We are at your service. Let us furnish you with the proof of what we say. Mail us a card or a letter. You will receive a prompt and courteous reply.

The Empire Cream Separator Company of
Canada, Limited 33

Makers of CONE and DISC separators.

WINNIPEG, TORONTO, MONTREAL, SUSEX.

Agents everywhere in Canada—Look for the Empire Sign.

NEXT SPECIAL

will be our 4th Annual Farm Improvement Number of Farm and Dairy, out May 2nd. Plan now to be in this great issue. Get your copy in early, and the best of our service will be yours.



"LONDON"
Cement Drain Tile Machine
Makes all sizes of tile from 3 to 12 in. Cement Drain Tile are here to stay. Large Profits in the business. If interested send for catalogue London Concrete Machinery Co., Dept. B., Lester Co., Largest manufacturers of Concrete Machinery in Canada.

A COWPEA THRESHER

Threshes Canada Field Peas, Cowpeas and Soy Beans from the north side, breaking less than 2 per cent. Also threshes Wheat, Oats, etc.—Prof. W. F. Massey. "A machine that will meet every demand"—Prof. H. A. Morgan, Tenn. Experiment Station. Nothing like it.

BOOKLET "H" FREE
Rogers Peas and Bean Thresher Co.
Morristown Tenn., U. S. A.



25 Holstein Cattle

Will be sold at Public Auction at Lyndenwood Stock Farm, Nober, Ont., (Norfolk County)

Wednesday, MAY 22, 1912

The Offering includes 15 Registered Holstein Friesians and 10 High-Grade Holsteins

Nearly all of the pure bred are either fresh or with calf to Gano's Favorit Butter Boy 6654, who is also offered in the sale. His dam Sherwood Gano has a record of 17,619 lbs. milk and 821 3/4 lbs. butter, at 12 years old.

All of the Pure Bred Females are in the Record of Merit or out of Record of Merit stock with records ranging from nearly 18 lbs. for two-year-olds to 23.42 lbs. as mature cows.

Some of the cows offered are sired by Sir Schuling Posch, No. 3416, sire of Netherland Beauty Posch, who made a Canadian record for a senior two-year-old, 31 days after freshening, viz: 485.2 lbs. milk, 20.0025 lbs. butter in 6 days, 73.9 lbs. milk in one day, and Maggie Clark whose official record is nearly 25 lbs. of butter as a three-year-old. Send for a catalogue giving full particulars. Lunch at noon for those from a distance.

Trains will be met at Townsend and Hagerville on day of sale.

TERMS: Cash or six months credit to responsible parties at 6% interest.

Welby Almas,
Auctioneer

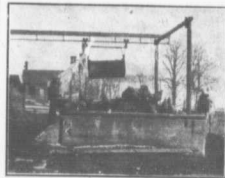
W. J. BAILEY, Prop.
Nober, Ont.

FARM MANAGEMENT

Shade Trees on Clay Soil

What kind of shade trees do you consider the best to be planted on clay land to protect cattle during the burning summer days, and where could one get them?—A. E. F. G., Irberville Co., Que.

We should advise you to plant the finest trees for shade purposes on clay land. There are other varieties of trees that will make a much more rapid growth, but these are not to be recommended for the best results permanently. Such trees as you require can be secured from any farmer's wood lot wherein the cattle have not been allowed to range. We would advise you to select trees say from one and a half to two inches in diameter. Dig them up with plenty of root and soil adhering and cut the



No Manure Goes to Waste Here

Where "dumped" in the barnyard much of the valuable part of the manure leaks away. Mr. F. B. Spenser, Hastings Co., Ont., has stopped this loss by means of the water-tight, concrete manure tank, 10 by 18 by 3 1/2 feet, here illustrated.

top off completely leaving the pole say 10 feet long. Handled in this way these trees will make remarkable growth in a few years, and they are to be had at a cost only for labor.

Tile Drains Make Early Seeding

Jas. Marshall, Wentworth Co., Ont.

In the first 12-acre field drained we did not place as many drains on hills as in hollows. When we began seeding in the spring, we had to wait for the hills to dry, when the low land was already in shape. One year we sowed oats on our drained clay soil, 44 acres, between the 20th and 28th of March. The seed bed was in such loose, loamy shape that we harrowed it only once with a spring-tooth harrow, then followed with the seed drill, which worked fine. Our crops were the heaviest that year for many seasons.

THE PLEASURE OF IT

It is a pleasure for a farmer to be able to get at his seeding two or three weeks earlier than usual, with his land in good shape. How much better than besides mudding it in later in the season with poor prospects of a good crop!

Land that is underdrained is warmer, the seed will start quicker, the grain will have a longer time to come to maturity and will be plumper and heavier than that grown on cold, wet, sour soil and will yield much more an acre.

Some places where the hills are dry it would be all right to drain the low land only.

Good Roads Now Popular

(Continued from page 7)

centres from the surrounding country, roads that we make the most use of. I notice that the idea of a "great national highway" extending from the Atlantic to the Pacific is receiving much support in certain circles now.

I believe that the same amount of money spent on improving

the roads that we farmers most use will do a lot more good in a practical way and be of direct benefit financially to a vastly greater number of people.

XXVII

Some uncertainty prevails with a few national advertisers as to the advisability of continuing advertising during summer months.

They do curtail or limit to some extent their advertising during June, July and August.

Applied to most things as advertised in Farm papers this policy is not the part of wisdom.

THE BEST FARM PAPERS are intensely practical. They are always timely; always seasonable. They ARE AS MUCH NEEDED—YEA, MORE NEEDED—BY ALL GOOD FARMERS DURING THE SUMMER MONTHS OF GROWTH, HAYING AND HARVEST, AS AT ANY OTHER SEASON.

So much depends on the success of the ultimate harvest, so much may be learned that it pays to know about the proper handling of each important crop at each stage of its growth and maturity, so great is the need for information about how to contend with drought, how to raise the newborn calves and colts, how to meet problems new and various, which arise each week as the season progresses,—that a farmer must read his farm paper during these busy months.

In dairying the farming business is even more complex. The Dairy farmers, in addition to those other things with which all farmers have to contend, have their highly organized and specialized Dairy cows, each producing annually from 7 to 10 times over its own weight in Dairy products. They require constantly to get information about cows. They look to their farm paper—to Farm and Dairy, for the help and advice they need.

Of course they are busy, almost too busy to read! But we have anticipated this, and we present all of our articles and news in that condensed, timely, practical and worth-while form, which OUR PEOPLE appreciate, and always TAKE TIME TO READ BECAUSE IT PAYS THEM.

All through the busy season of summer these people are often the busiest at their buying. They are busily interested in all things that will save them labor, and in all things they need.

Do you desire the favorable business going amongst these busy and prosperous people? You can have it during the busy season of June, July and August, as well as at other times, but to get it you must ask for it, and KEEP ON ASKING for it AT ALL SEASONS, and especially during the summer season, through Farm and Dairy,—

"A Paper Farmers Swear By"

Have the field size as possible crop rotation. Have as many direct connections. Size of fields

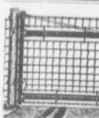


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Gates for 30 days...
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best guarantee abou...

Canadian Gat...

29 Morris St.

Planning a Convenient Farm

By J. B. Davidson, Iowa

Have the fields as nearly the same size as possible in order to facilitate crop rotation.
Have as many fields as possible in direct connection with the barn lot. Size of fields should be in propor-

A pasture should be adjacent to the buildings.
Buildings should occupy poorest ground.
Buildings should be located in reference to water supply.
Buildings should be on a slight elevation whenever possible.
A south or east slope is desired.

Soil for buildings should be dry and well drained.
A timber wind-break should be secured.

A garden plot should be near the buildings.
Buildings should not be located on high hills because inaccessible from fields or roads.

Buildings should not be placed in low valleys on account of lack of air and drainage and danger of frosts.

Buildings should be located on the side of the farm nearest the school, church, and town.

Lots should be on the farther side of barn from house and screened from the house by trees, and well drained.

Ideas For Farm Improvement

(Continued from page 3)

paper is in bottles, glass, yet is easily available for marking up the records.

Mr. Turner's farm is of good clay loam, characteristic of the county (Wentworth) in which he lives. His crops last year were as follows: Wheat, 30 acres; barley, 8 acres; oats, including mixed grains, 50 acres; corn, 20 acres; mangels, 3-2 acres; potato, 30 acres; lucerne and alfalfa, 9 acres. The crops were grown in a rotation: Corn and roots, followed by oats and barley, seeded down to clover; this being plowed up for fall wheat, being then seeded down for two or three years, depending upon conditions. Mr. Turner has about three acres of apple orchard and a small area devoted to his kitchen garden.

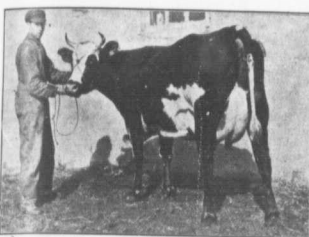
A few pigs and some poultry are kept. These did not make many points for Mr. Turner in his score on account of his arrangement for housing them, the poultry being quite inconveniently and unsanitarily housed over the pigs.

Having been on this particular farm for only four years, Mr. Turner did not have all things in "ship-shape" condition, when otherwise he would have been an easy winner of the first position.

Before concluding we must note that Mr. Turner has a silo; in fact he has two silos—one an old-fashioned square silo, inside of the barn, the other being a stave structure outside of the barn. He chops all of his own grain at home. As noted before, he feeds considerable Brewer's grains, which he obtains from Hamilton.

Everything grown upon this farm is fed at home, except in the case of fall wheat and some hay. Mr. Turner gets his revenue out of milk, though he sometimes sells hay, which is replaced by the purchase of Brewer's grains, oleanke and bran.

Within recent years Mr. Turner has suffered two very heavy frosts through fire, his home having twice been burned. That he has come through so well and that his house, his stock, and his methods of farm management were so attractive in the judges' eyes, speaks volumes for Mr. Turner as an up-to-date, progressive dairy farmer, whom Farm and Dairy readers may well emulate to copy.—C. C. N.



A Grade Shorthorn Heifer with a Fine Record

The heifer here illustrated freshened in December, 1910, aged two years and eight months, and in 300 days gave 1,077 lbs. of milk. Freshening again in January she gave 1,078 lbs. of milk in February. A good argument for winter dairying. This heifer is owned by Culver Finch and Son, High Co., Ont.

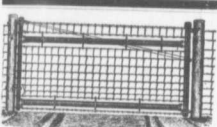
tion to size of entire farm.

Land of the same quality should be in the same enclosure.

Where there are streams on the farm, arrange the fields to border on them so as not to interfere with cultivation and to be more convenient for watering stock or irrigation.

Avoid needless fences on account of cost and maintenance.

Have the buildings near the centre of the farm, giving due consideration to other advantages.



BUY no farm gates until you know all about Clay Steel Farm Gates—the strongest, most durable, best farm gates made. If you have

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You will have easy gates to work. Clay Gates will never need re-hanging; cannot burn, rot or blow down; will not bend or break; will swing over snow in



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No. 542—5 line, 42 inches high, stays 22 inches apart, spaced 9, 12, 12, 12, all extra heavy No. 9 galvanized, best quality steel wire, in 60 rod rolls. Only **10c per rod**

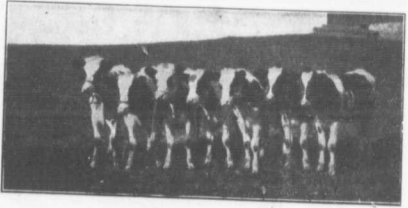
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Also No. 544—2 inches higher, at..... **12 per rod**

Send your orders at once before too late.
A few other sizes also cheap. Also enormous stock of Belt-ing, Iron Pipe, Rails, Pulleys, etc., at bargain prices.
Send for price list.

The Imperial Waste & Metal Co.
65 Queen Street, - MONTREAL

Economize on the Milk



Raise Healthy Calves Like These RAISE THEM WITHOUT MILK
You can do it with

CALFINE
"The Stockman's Friend"
(Made in Canada)

Now that milk is so high in price and sells so readily, it will be wise to feed Calfine and sell the milk.

Calfine has given excellent results wherever it has been tried. It is now in use on some of the largest and best equipped farms in Canada. It will pay you to try Calfine. Ask your dealer for a 100-lb. bag of Calfine as a trial. You will soon be back for more. If your dealer does not handle it write us direct.

NOTICE—

If you would like to try Calfine, and cannot secure it from your dealer, send us a money order for \$2.75 and we will ship you 100 lbs. of Calfine and pay the freight on same to any station in Ontario south and east of Sudbury.

Compare this price with that asked for other calf meals. (Surely ours is worth a trial).

Feeding instructions will be sent each reader of this paper who applies to us for them. Write us today and learn how to raise your calves at much less expense than it has been costing you in the past. Your spring calves will do fine on Calfine.

Remember Calfine is made in Canada. You pay no fancy price for it like you do for calf meals of foreign manufacture. There is no duty to pay when you buy Calfine.

BUY CALFINE and try it on those new-born calves of yours. It will pay you big to use Calfine for them.

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The LOUDEN WAY To Prosperity

Louden Tools put farming on a scientific basis and make it a business of CREATIVITY. They stop waste of time, labor and fertilizing value of each acre. They increase the output of your herd and your crop.

Louden's Sanitary Steel Stanchions are flexible chain type, tubular steel. They are scientifically designed to make cows give more MILK per year. They allow the cow plenty freedom of movement and comfort, either standing or lying down. Cows are clean all the time. No corners or crevices, easy to keep clean. May be built on homogeneous wooden frames when desired.

LOUDEN'S SANITARY STEEL STALLS make every part of the dairy barn light, airy and fresh-tin. They are the cow's comfort and flow of milk, and decrease the danger of disease. Louden specialties include Louden Feed and Litter Carriers, Hay Forks, Bird Proof Bars, Door Hangers. Send for catalogue.

LOUDEN MACHINERY CO., Dept. 302 GUELPH, ONT.

HORTICULTURE
When and How to Prune

Pruning starts as soon as the trees arrive from the nursery. Trim off bruised and injured roots, leaving a clean cut surface that will form a callous and begin to send out new feed roots at once.

When trimming roots have the cut surface underneath as that is the direction in which the tiny rootlets that will develop on the surface must grow.

If a tree has lost some of its roots, trim the top to balance that loss.

The first two years that an orchard is planted the trees should be pruned twice a year, very lightly once in the winter and again in the summer.

It is better to pinch off the shoots in the summer than to allow them to grow and cut them off in the winter.

Pruning little and often has many advantages over butchering the tree at long intervals.

A large pile of brush does not indicate a scientific job in pruning. Never cut a limb unless you can give a reason.

Weak branches that we wish to develop can be stimulated by heading back larger and stronger growing branches.

When cutting off a limb, have the cut surface as small as possible, cut close to the shoulder and have the surface perpendicular rather than horizontal—this latter to prevent decay.

To Make Grafting Wax

How do you make grafting wax? Please give the quantities of materials to be used and how they are handled.—G. H. Dufferin, Co. Ont.

A very reliable grafting wax is made by melting together resin four parts, beeswax two parts, and tallow one part by weight. Heat these until well melted, then pour into a pan of cold water. Grease the hands slightly and pull the wax until it is about the color of pulled molasses candy. Make into balls and store for use. The wax should be warm when applied.

Tiles Drains for the Orchard

Jos. Marshall, Wentworth Co., Ont.

Perhaps underdrains do more good to fruit orchards than anything else. Any farmer who has an apple orchard knows that the trees will grow and bear much better in dry places than in a soil that is too wet. I had a fine running between two rows of com-



The Result of Underdrains

Peaches were not supposed to grow in the neighborhood where this photo was taken. But Mr. Jas. Marshall, Wentworth Co., Ont., by thorough underdrains, has made his farm suitable to this crop as the illustration proves. The tree is a 10-year-old St. John peach.

red cherry trees, and these trees get about four times as large as others on land not drained and the fruit was better.

Peach trees will not grow on so many soils. The soil on part of my farm is naturally wet in the subsoil, being heavy clay. The editor of a fruit paper told me that peaches could not be grown successfully on a mile back from the mountain. Mine was about two miles back on the mountain. If a fruit nurseryman told me, when buying the trees, that I could not grow them.

I planted 40 trees on drained land 13 years ago last May, and some had the thirteenth crop last summer; some a year a very light crop, a few years a fair crop, but most years a heavy crop. I have now 3,500 peach trees, most of them young and just coming into bearing.

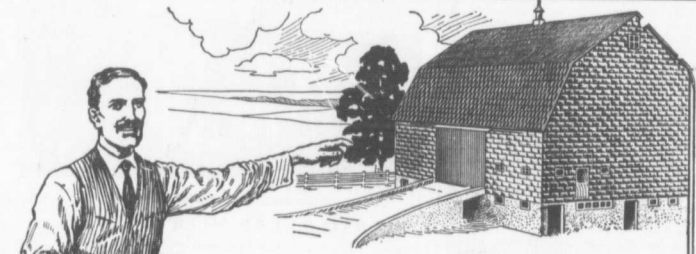
CHOICE SINGLE LECHORD
Famous Brooder and per 15.
David A. Ashworth, M.

Suggestions

Purchase strawberries and a few King raspberry plants for the back garden.

Golden Bantam sweet corn, though yellow in color, is far ahead of other varieties for early table use.

White or yellow onion sets, planted as early as possible, give bunching onions early, which are much appreciated by the family.



Get the Help of This Book in Planning Your New Barn

DON'T be satisfied this time with a barn that is not thoroughly modern in every detail. Build the model barn of your locality. Show your progressiveness by making it the most roomy, convenient and up-to-date of all barns—one that your neighbors will want to pattern after.

This book, which was especially written by experts, will tell you how to do this at a cost that will be well within the amount you are willing to spend. It contains numerous plans and complete specifications for all kinds of barns—horse barns, dairy barns, stock or general purpose barns.

"HOW TO BUILD A BARN"

will also guide you in the selection of the best materials. It mentions especially Galt Steel Shingles and Sidings. It explains how these materials are superior to wooden shingles and sidings, and shows plainly that they will cost you less.

For instance, wood shingle roofs are a constant source of trouble. They leak, rot, invite fire, and gather dirt and weight with rain or snow. A Galt Steel Shingle Roof is lighter, stronger, weather-proof and fireproof. It requires less loading and enables you to build with equal security at less cost.

The same thing applies to Galt Steel Siding. Each has been especially designed for its peculiar purpose. You should look carefully into the many special patented features of Galt products.

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Send me your book on Barns.

F. D

POULTRY

Turkey

It is not long a bird of the allow it a jar if it is to their. It is better to a few eggs in the care of the good old mother and real copyrighted water. Failure with blamed on black however, is often our sins of om in the care of the III breeding more dangerous corn is a car parkey's weak excess of carb spot and hits it Wild turkeys I Bear this in n their care of Equal parts of and corn may winter feed. bugs and sprout the green feed. add beef scrap.

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WHITE WYANDOTT
best matings, packed, \$1.00 per pair, Ont.

ORPINGTONS, Black, White Wyandott, Black Minorcas, eggs—Harry Lush

PARTRIDGE WYANDOTT Eggs, Fresh in the Eastern Province, strain—C. E. Ross

CREAMERY NEAR
good proposition \$2.00 cash. Chicks may be added.
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WANTED—ASSISTANT
Two years experience, stating references
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E. C. White Lighthouse, Northcott, Clarendon

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S.C.W. Lehigh Farm, College Brook, \$1.00 50 or more, 85c
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Famous Brooder and per 15.
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Ship your New Fresh Dairy B PROMPT R EGG CASES

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POULTRY YARD

Turkey Suggestions

It is not long since the turkey was a bird of the woods. We still must allow it a large degree of freedom if it is to thrive.

It is better to start with stock than to buy eggs for hatching. We then know the ancestry and we have the good old mother turkey to hatch, brood, and rear the poultis—nature's copyrighted way to success.

Failure with turkeys is most often blamed on black head. Black head, however, is often the cloak that covers our sins of omission and commission in the care of the flock.

Ill breeding and ill feeding are more dangerous than black head. Corn is a great turkey killer. A turkey's weak spot is the liver. An excess of carbohydrates soon hits the spot and hits it hard.

Wild turkeys live mostly on protein. Bear this in mind when preparing their ration.

Equal parts of oats, barley, wheat and corn may be fed in the litter for winter feed. Beets, turnips, cabbages and sprouted oats will supply the green feed. And do not forget to add deep scurf.

Grit, charcoal, and fresh water should be where the birds can get them at all times.

Experts tell us that the black head microbe is located in the digestive tract of the chicken. Moral: Keep young turkeys away from chickens and chicken quarters.

Feed For 100 Hens

How much grain should be fed to 100 fowl in one day to produce eggs in winter?—Subscriber to "Prepare for next winter."

It is impossible to lay down any hard and fast rule as to the quantity of grain to feed 100 fowls a day in winter, as it depends so much upon what kind of laying strain is kept and the results obtained.

A flock of which 75 per cent. are considerably more food than where only 5 per cent. of them are laying. An average feed for 100 hens a day would be about one-third of a bushel of wheat or 20 lbs. of any other grain.

The safest method of feeding for the novice is to feed about one pound of grain to every 15 or 16 hens night and morning, scatter it in a litter, and leave a hopper full of dry mash composed of one pint shorts, one pint ground barley, and one pint gluten meal, with 10 per cent. beef scraps and 10 per cent. charcoal before the birds all the time. As the gluten meal is very rich in protein and not very palatable, they will not take a sufficient quantity to get over the fat and lazy. Feed, of course, with this, oyster shell and grit and some kind of green feed, such as mangels, turnips, beets, or cut alfalfa.—W.E.C.

Suggestions About Ducks

Ducks are less difficult to raise than either chickens or turkeys. They grow faster, and when properly cared for are free from disease.

Duck eggs will not endure much rough handling. If they are shipped during hot weather there is very little chance of securing a good hatch.

Beware of the duck egg that is over 10 days old. It has reached the limit so far as hatching is concerned.

Grade ducklings according to size. When run together small ones do not get a fair chance at feeding time.

Do not try to raise ducklings on whole wheat, cracked corn, or any of the so-called "hard" feeds. If these must be used they should be thoroughly cooked.

So that the ducks have plenty of coarse and rich food from the start and But do not try to force them to eat grit by mixing it with the feed. Ducks should have plenty of green feeds. Heavy concentrated food is not suitable for them. And they need lots of feed.

There is little danger of over-eating the digestion of the duckling after it is four weeks old, provided they have plenty of good green stuff. They should be fed four or five times a day.

For the growing duck, cooked vegetables, such as cornmeal, oatmeal, and middings make a great ration when moistened with water or milk.

Always be sure that the sitting hen is kept free from lice by filling her plumeage full of lice killing powder every week.

Scrub poultry may serve a good purpose as the pot, but they should not be permitted to propagate their kind. Scrub hens should be maintained on pure bred males so that the breeding goes an upward rather than a downward tendency.

Raise The Crop That Never Fails

Just sit down and write us for full particulars of the best business proposition you are likely to hear this year. Let us tell you, in plain words, how very little money will start you in the profitable business of poultry-raising The Peerless Way. Let us show you why it will pay you well

One PEERLESS user will sell 200-000 fowl this year

to adopt the Peerless methods, to make use of the advice and aid of the Peerless Board of Experts—pay you well, and profit you speedily.

PEERLESS users get valuable help and service free—



Let us ship you this. We will trust you with it. show you how to succeed, and give you a 10-year guarantee.

Besides finding a buyer for our country's poultry products, (which we do freely for our cost to you) our Board of Experts stands ready always to advise, counsel, or assist with practical suggestions free—entirely so, to Peerless users. These practical men have developed the greatest poultry business in the world—The Poultry Yards of Canada. Limited. Long experimenting in the laboratories of this great plant brought the Peerless to perfection and proved it as the one successful incubator for the use of every section of the Dominion.

Poultry ought to be a side-line on every farm

The poultry-crop is the one crop that never fails. Every farmer certain ought to make poultry a side line, at least—it is a certain profit for him, no matter how bad a year he may have with his other crops. And the Peerless customer need feel no worry about finding a market for all he wants to sell in the way of poultry or eggs. We look after that for him. We find him a market where he gets the best prices in spot cash.

Your credit with us makes it very easy to start—

Your credit is perfectly good with us. You can equip yourself fully for successful poultry-raising, and you don't need ready money to "show" us your trust; and we will make the terms so easy for you that you will never feel it any "show us" that's all that's necessary. In fact we'll Poultry Outfit pays for itself and quickly, too.

Within a month or so from this very day, you could have a poultry-for-profit business well under way.

Write and ask us to prove to you that success with poultry. The Peerless Way is possible for anybody of good sense in any part of Canada. Get the facts about it. They are facts that will probably be new to you. Send for them—it's for your own benefit we suggest that you send for them at once, without another day's delay. Just use a post card. If you haven't a stamp handy—put your name and address on it—say "Show me" that's all that's necessary.

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Poultry-raising with the satisfaction they find in the Peerless Way has become profitable for over twenty thousand users. It could be as much for you as it has for the most successful of them. No matter how large your farm, you can do well. The Peerless will show you how to do it. Please write and ask for this name—make your first \$100—so will pay you.

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you will know why The Peerless poultry, once you have read the big book you will want some other to sell you. Please write on terms list and send your name and address. Please write and ask for this name—make your first \$100—so will pay you.

big distributing Warehouses at our Winnipeg, Regina, Calgary, for the convenience of our Western friends. Address all letters to Headquarters, Pembroke, Ont. We will receive prompt attention.

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PARTIBUE WYANDOTTE EGGS. \$2.00 per 15. Eggs from one of the best pens in the Eastern States. Price-winning strain—C. E. Rose, Barrington, Que.

CHROMINE NEAR CAMROSE, ALBERTA. Good proposition for a young man with \$1000 cash. Chromine mill can probably be added. Write owner, The J. Harris Co., Camrose, Alberta.

WANTED—ASSISTANT BUTTERMAKER. Two years' experience preferred. Apply, stating references and salary expected. J. J. Payne, Lacombe, Ont.

EGGS FOR SETTING—White Orpingtons, E.C. White Leghorns, Barred Rocks. Headed by prize winners. Write Geo. J. Northcott, Glarum Brae, Sallina, Ont.

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EGGS FOR SALE
S.E.W. Leghorns, Ontario Agricultural College, bred, \$2.00 per 15. \$1.00 30 or more, \$5.00 per 100.
OSASCA PRODUCE FARM, Asburn, Ont.

CHOICE SINGLE COMB BROWN LECHORN EGGS
Famous Becker and Gurney Strains, \$1.50 per 15.
David A. Ashworth, Maple Grove, Ontario.

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Ship your New Laid Eggs and Fresh Dairy Butter to us. **PROMPT RETURNS** **EGG CASES SUPPLIED**

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What would all the land in Canada be worth without any population? Have you noticed how land grows in value as the number of people increase?

This vital connection between the presence of population and the value of land is one every intelligent farmer should understand. If you are interested in the land question, **THE PUBLIC** will probably be invaluable to you.

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It isn't a catalogue, nor an argument for you to buy something. It is clearly-written, interesting, profusely illustrated. It describes the various uses to which concrete can be put on the farm. Not theories, but facts, based on the *actual experience* of farmers all over the continent. It is the most complete book on the subject ever published, fulfilling the

purpose behind it, which is to help the farmer take advantage of concrete's possibilities. The list of subjects covers every conceivable use for concrete on the farm. The book's actual value to you will far exceed the list price of fifty cents, but if you will send us your name and address at once we'll be glad to

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Our Catalogue
Write for literature
agent. We also
general feeding, farm
circumstances.
Banwell-Hodge W.
Windsor, Man.

WANTED--A Home on a Farm

Will work night and day, summer and winter, work hardest when I am full, but am always ready for what there is to do, will agree never to leave the farm nor to interfere in any way with your horse trade, will not keep the hired girl up late at nights nor sleep with your best driver on Sundays, will not swear at the horses when the minister calls, nor show the vulgar match in the boys from town, will not track mud on the kitchen floor, nor smoke cigarettes in the hay mow.

Not afraid of rain nor hot weather. Not world's record for carrying water, have been specially trained and will guarantee that with my help your crops will increase twenty to sixty per cent or more in quantity, and quality over.

Will prepare your soil for cultivation earlier in the spring and make it warmer by several degrees, will prevent soil baking and forming in clods, will make your subsoil one vast laboratory for the production of food for your growing crops.

Will insure your crops in both wet and dry seasons without charge, will prevent the soluble and most fertile elements of your soil from being carried off to your neighbor's land by surface washing.

All that I ask in return is that you give your live stock, pay your grocer bills, clothe your family, send your children to school, pay your taxes, burn your mortgage, am straight as a string and sound as a dollar, Strongest and cheapest of my race, will do as I agree. Reference any progressive farmer or landowner. Will contract for life service, have years of experience and a good record. Will contract for an early and proper burial you to deduct funeral expenses from increase in first year's crop, if need.

The W. W. SMITH DRAIN TILE

Address all communications relating to freight rate and prices f.o.b. your station to

The W. W. Smith Brick & Tile Works
Shallow Lake, Ont.

PEERLESS PERFECTION



The first coat should be the last coat.

You should put up a fence that will give you real fence service first, last and all the time. The cheapest is always the most expensive in the long run on account of repairs necessary.

Peerless Fence Expense

because it is the poultry fence that never needs repairs.

Peerless poultry fencing is made of the best and will not snap or break under any conditions or under any abnormal changes. Our method of hot dipping, and our special treatment, not only adds many years to the life of a fence, but also adds many years to the life of the fowling flock which will withstand all weather conditions and strains put upon it. The Peerless Poultry Fence can be erected on the most hilly and uneven ground without sagging, dipping or linking.

The heavy duty wire we use makes Peerless Poultry Fencing rigid and upstanding thereby preventing sagging and breaking, and is the only poultry fence that is made of one piece of wire.

We find our poultry fence stronger than any other in order to keep manuring animals out and strong enough to keep the fence in place. Many of our customers are wire electricians.

Peerless Poultry Fences when once put up is always up and will last better, wear better and give you more for the money than any other fence you buy.

Our Catalogs are Free to You
Send us your name and address of nearest general fencing, farm stores, walk stores and agricultural dealers. Many of our customers are wire electricians.

Peerless Fence Wire Fence Co., Ltd.
Winnipeg, Man. Hamilton, Ont.

A Farmer's Opinion of R. F. D.

S. A. Northcott, Ontario Co., Ont.

We have had free rural mail delivery for two years. We find it a most useful improvement. We used to get along without it, but I do not believe we could again. We get the Toronto morning papers and the rest of our mail delivered at the gate every day by noon or before. We are in a position to find out what is going on in the world while the news is fresh.

When a person has to make a special trip to the post-office for his mail he not only loses a good deal of time



A Point in Advertising

A farm bulletin board placed near the public highway on which is written a list of the stock or produce for sale is a cheap form of advertising and oft times very efficient.

over these trips, but many days he does not get his mail at all, and will often get it too late to answer correspondence of importance the same day as received. A daily paper is of little use to a farmer if he cannot get it every day, but with rural mail delivery we get our paper and other correspondence promptly each day.

Farm and Dairy deserves credit for the stand they have taken in order to promote free rural mail delivery in Canada. They have kept the matter stirred up, and the fruits of their efforts are being shown in the many new routes that are being established as well as old ones extended.

"Fertilizing Fodder Crops" is the subject of an interesting little booklet, on the use of commercial fertilizers, that has recently come to hand. This booklet is written by F. Walter Shipley, and published by The German Potash Syndicate, Toronto, and can be secured on application to the above address.

Homeseekers' and Settlers' Trains to Western Canada

Via Chicago and St. Paul, April 30th, and every second Tuesday thereafter until Sept. 17th, inclusive. Tickets will also be on Northern Navigation Company. Special train will leave Toronto 10.30 p.m. on above dates for Edmonton and points in Manitoba and Saskatchewan, stopping at all points on Grand Trunk Pacific at Railway west of Winnipeg. Through coaches and Pullman Tourist Sleepers will be carried fully equipped with bedding and porter in charge. Berths may be secured in sleepers at a low rate. This is an exceptional opportunity for those wishing to take advantage of the remarkably low one-way Settlers rates or round trip Homeseekers' excursions through the American cities. No change of cars. Secure tickets and berth reservations from any Grand Trunk Agent, or write A. E. Duff, District Passenger Agent, Union Station, Toronto.

Cheap and Rapid Ditching



It is estimated that draining the farm will double the crop profits. All farm crops require for better growth both air and water in the soil. The water is easy to obtain. The air, equally necessary, can only be obtained by providing thorough drainage to a depth of two feet or more.

The farmer's drainage problem is largely one of labor cost. All ditches require for satisfactory drainage a large amount of labor, which can be obtained only at more than usual wages.

Stumping Digs Ditches Quickly and Safely



When properly used, stumping will excavate ditches, entirely cleaning them out to grade, giving the sides a right slope and spreading the earth excavated over the land some distance away. Such ditches are for free removal of water from low-lying areas or to provide free outlet for tile drains. In such cases no further work is required in straightening out the ditch when the work is properly done.

The Explosion Digs the Ditch

Ditching for Tile Drains

is as readily done, but the method used is slightly different. For this purpose the earth removed should be thrown only a short distance out of the ditch.

A satisfactory bottom level can be obtained by the use of stumping powder without trouble. All that is then necessary is to lay the tile and cover it.

The cost of the stumping, plus the cost of using it is only a small fraction of ordinary labor cost for ditching. All that is necessary is to observe the proper rules for the use of the stumping dynamite. These rules are provided, together with all possible useful information, by us.

Some parts at least of your farm require drainage, and you should obtain our large complete book which explains the full uses of this wonderful development in explosives.



The Ditch at Work

The book describes the most economical means of destroying stumps, boulders, etc., of breaking up hard pan sub-soil, of planting fruit and other trees.

Do not forget to write for this book. It costs you nothing to learn the new methods.

Canadian Explosives, Limited

Head Office : : : : MONTREAL, P. Q.

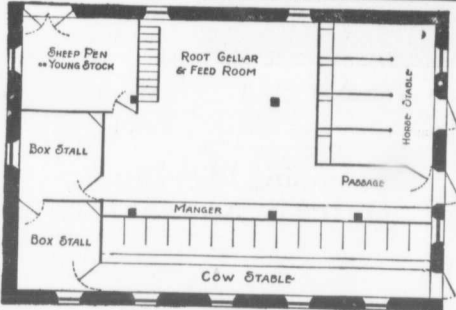
A Man Can Make \$100.00

He can often make more—in fact, one can hardly estimate the great value to him of ideas about better farming he can get from reading the right books. Here are a few it will pay you to have:

- "Covers and How to Grow Them," by Thos. Shaw \$1.00
- "The Book of Alfalfa," by F. D. Coburn \$2.00
- "How to Cooperate," by Herbert Myrick \$1.00
- "Farm Dairying," by Laura Row \$1.50
- "Questions and Answers on Butter-Making," by Dr. Pugh \$1.50
- "Silos, Ensilage and Silages," by Manly Miles 50
- "PROTECTION OR FREE TRADE," BY HENRY GEORGE \$5 Cents

All Books sent postage paid. Write for our complete catalogue, giving brief Descriptive List of Rural Books, and select from it other books you want. Farm and Dairy maintains a Book Department for the convenience of subscribers, and sells all agricultural books at lowest prices.

Book Dept., FARM AND DAIRY, Peterboro, Ont.



One of the modern barn plans prepared by our Builders' Service Dept.

Above is shown one of the modern barn plans prepared by our "Builders' Service Dept." Others are shown in a portfolio that will be mailed to you on receipt of the coupon attached to this ad, properly filled out.

If you will tell us the size of the barn you expect to build, and the number of cattle you want to house, our Board of Advisers, consisting of ten of the best barn builders and contractors in the Dominion, will co-operate with you to plan a building exactly suited to your own particular requirements.

This service is offered to you FREE of charge. It's our

way of showing our appreciation of the generous and hearty support the farmers and builders of Canada have given our products, particularly Preston Safe-Lock Shingles.

Preston Safe-Lock Shingles merit the tremendous demand they enjoy to-day, for they afford guaranteed protection against lightning. They keep out the rain, snow, moisture, wind and fire, too. They cost nothing for up-keep, as they never need painting or repairs.

Our latest edition of "Truth About Roofing" booklet tells all about them. We'll send a copy along with the Portfolio of Barn Plans. You want the Portfolio, then, certainly, if you intend to build. So send the coupon by first mail. Address it to

G. Dalph Manager

Metal Shingle & Siding Co., Limited

Branch Office and Factory, Montreal, Que. Preston, Ont.

Please send me portfolio of Barn Plans showing framework construction and plans of interior. I intend building a barn _____ ft. by _____ ft. Do you intend re-roofing or re-siding any building this year? (Yes or No.) _____

No. _____ Name _____

P. O. Address _____ County _____

Province _____ Paper _____

Benefits of Wire Fences

A. Johnston, Peterboro Co., Ont.

The man who erects wire fences along the public highway is the benefactor of all who travel the roads in winter (this winter especially). How much better the going is between two wire fences than on another section of the road flanked on either side by stumps or rails. It most looks to me as if municipalities should bonus wire fences erected on the public highway. We all participate in their advantages.

The owner of the fence, however, has compensations all his own. For one thing he has the goodwill of other men who travel the road, and has the satisfaction of knowing that he will not wake some morning and find several sections of fencing thrown down and the road of travel transferred to his winter wheat field or young orchard. And then it is a whole lot nicer to look at.

How to Preserve Fence Posts

The most effective method of preserving fence posts is to thoroughly impregnate the outer layers of the wood with some preservative substance that will poison the fungus plant that causes decay of its food. Many substances have been used for this purpose, but the cheapest and most effective is creosote, or dead oil of coal tar, formed as a by-product in the manufacture of coal gas. It is not only poisonous to the fungus plant, but being an oil it also tends to exclude moisture from the wood.

Most of the patented preservatives have this substance at their base.

The treatment is best carried out by the so-called "open tank method." Thoroughly seasoned posts are heated for several hours in hot creosote and then allowed to cool down in cold creosote. When the posts are heated in hot creosote the high temperature causes the air and water in the wood to expand so that a portion of this air and water is forced out. When the posts are then placed in cold creosote, the air and water left in the wood contract, forming a partial vacuum; and the creosote is forced into the wood by atmospheric pressure, to take the place of the air and water that have been forced out. This forms a shell of creosoted wood from one-eighth of an inch to two inches in thickness around the post, that effectively excludes moisture and prevents the entrance of fungi.

A Style of Hedge that Looks Well and is Effective

"The thorn hedges of England" are a large factor in the beauty of rural landscapes in the Old Land. But the same or our illustration is not in England, but Brant Co., Ont., on the 50-acre farm of Jno. Beemer. Beautiful scenery may not mean much in dollars and cents, but it is one of the factors that make country life the best life.

—Photo by an editor of Farm and Dairy

receipt of five one cent stamps in pay postage, free of charge, a catchism containing over 50 questions and answers that will clear up many of the economic difficulties of the reader. Such terms as "Unearned Increment," "Capital," "Labor," etc., are defined.—W. D. Lamb, Res. St. Plumer, Mass.

We would advise Farm and Dairy readers to secure this small treatise on political economy from Mr. Lamb. It is well worth reading and studying.—Editor.

One great secret of winning in the long-drawn battle with weeds is never to let them go to seed.

It may be easy to say how to develop the dairy cow, how she should be bred and how she should be fed, but a finally resolves itself into a thorough study of the principles of both breeding and feeding combined with the common sense and actual experience of the man that is handling the herd.

The members of the Dominion Grange in Elgin County, Ont., have taken the lead in forming a local county organization. There is a strong undercurrent of feeling among the members of the order in other sections towards forming other county organizations. Dufferin, Wellington, Simcoe, and Essex counties in all probability will be in line also before midsummer.—J. J. Morrison, Secretary of the Dominion Grange, Arthur, Ont.

be used for this purpose. Such posts even with the cost of treatment added will amount to less than the original cost of a good post and a well creosoted post of perishable wood will last by many years the most durable fence post if untreated.

What Is It?

Editor, Farm and Dairy.—What is an "unearned increment" of land value anyway? How does it arise? Who created it, to whom does it belong? Thousands of good, thoughtful people in Canada are asking themselves these questions. In the new interest that people are taking in taxation questions, the taxation of land values is receiving first attention.

We are coming to believe that the wealth purchased by the people should belong to the people. Is it right that owners of special privileges should be enabled thereby to take wealth from the people without giving equivalent service?

To all who are interested in these questions and would like to know more about them I will send them on

A White

I. C. Colback,

I find that whitewashed asphaltum wash may not discolor, but son in the cost easily and quickly is made proper and present

The reason more universal because the most simple a man could water together the solution on good whitewash start to peel off

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A Whitewash That Sticks

J. C. Colback, Cumberland Co., N.S.

I find that farm buildings well whitewashed are a source of endless satisfaction to their owner. Whitewash may not look as well as first-class paint, but there is no comparison in the cost. Whitewash is more easily and quickly applied, and if it is made properly it will stick and well and present a very pleasing appearance.

The reason why whitewash is not more universally used, I believe, is because the most of it is made in too simple a manner. Mixing lime and cold water together and then slashing the solution on with a brush is no good whitewashing. The wash will start to peel off on the next hot day.

A weather-proof whitewash that I have used with good results for exterior work, and one guaranteed to

stick, is made as follows: Take 62 lbs. of quicklime and slake with 12 gallons of hot water. In a separate vessel dissolve two pounds of common salt in two gallons of boiling water. Mix these two solutions together and then add two gallons of skim milk and you are ready for business.

Don't Breed Heifers too Young

Malcolm H. Gardiner, DeLewan, Wis.

It has been widely taught that to get the best results from dairy cows, it is needful to bring the heifers into profit early in order to firmly fix the dairy habit, having them freshen at two years of age or even a trifle younger. It has also been taught that young heifers should be fed largely on coarse feed so as to develop the capacity of the stomach and to avoid the inducing of a fleshy habit of body.

I have never given adhesion to either of these doctrines, because my experience has shown me that dairy habit is a hereditary breed characteristic that will show itself if it is born in the animal, and that a heifer should be so fed and so handled as to obtain the best possible physical development of the body at the time the strain of motherhood is placed upon her.

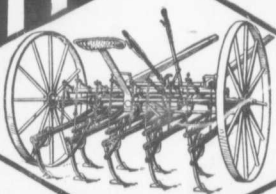
Even if properly fed for the most uniform bodily development, this can not be done if the heifer is allowed to freshen too young; and in my estimation it would be for Holstein breeders to increase the average age of heifers at first calving. The average age of 1,228 heifers tested in the United States during the last fiscal year was two years one month 18 days; and I think it would have been better for both the heifers and the results if the average age had been 28 months.

How to Completely Cure

the ailments of farm stock is to be found in Fleming's Vest or Pocket Veterinary Adviser. A 95 page book, indexed, free. Write us for it and learn how to cure

Fistula and Poll Evil
Even cases considered hopeless can be promptly cured, with very little trouble, by using Fleming's Fistula and Poll Evil Cure. Your money back if any Fleming Remedy fails to do what we claim.

FLEMING BROS., Chemists, 83 Church St., Toronto. 10



The "CLIMAX" STIFF TOOTH CULTIVATOR

Two More Crop Makers

Every year, weeds cause the loss of thousands of dollars to Canadian farmers. In fact, there are very few Canadian farmers who do not suffer some loss each year by these pests. At least nine out of ten farmers would find the Climax Stiff Tooth Cultivator a profitable purchase.

The Climax Stiff Tooth Cultivator is a weed destroyer. Its strong stiff teeth show the weeds no mercy. They rip them out of the ground roots and all. It might truthfully be said "The Climax goes to the root of the weed evil and eradicates it."

Scores of farmers we know, who have put the Climax to work for the first time, have been surprised at the harvest of weeds. You might never believe there were one-half so many weeds in a field until you saw them, with your eyes, raked up into piles.

And you might never believe there was such a sure-working weed destroyer unless you saw the Climax Stiff Tooth Cultivator in the field. 2-inch, 4-inch, 7-inch and 10-inch points adapt it to all kinds of work. But like all

FROST & WOOD FARM IMPLEMENTS

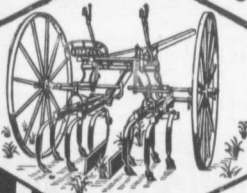
the Climax Stiff Tooth Cultivator is an exceptional machine. It's a worthy member of the FROST & WOOD line. And the same can be said of the New American Cultivator for a better corn and root cultivator has yet to be produced.

If you have a silo, if you grow corn, you really need the New American Cultivator. Remove the weeds and you'll have a larger crop of corn. Remove them with the New American and there is no danger of injuring the corn plants, no matter whether they are at the young tender-shoot stage, or standing quite high.

A special shield device prevents the young shoots from being covered or injured. The high centre arch provides room for the stalks when the corn grows higher. If the rows are irregular, a clever "NEW AMERICAN" device allows you to adjust the sections to take care of each individual plant.

"NEW AMERICAN" (For Corn)

The New American is just as good a field cultivator as it is a Corn and Root Cultivator. It is also largely used as a Bean Harvester as it has a special attachment for that purpose.



If you are interested in ridding your fields of noxious weeds, if you desire to do more profitable farming, you should have these implements. Ask our nearest office or our agent for further particulars. It's worth while.

The Frost & Wood Co.

Limited SMITH'S FALLS, ONTARIO

80 Sold in Western ONTARIO and Western CANADA by

Cockshutt Plow Co., Limited Brantford and Winnipeg



IF THIS MAN SHOULD STOP WORK—THEN WHAT?

THE greatest improvement required on the farms of Canada to-day is a better understanding of the laws governing the distribution of wealth.

Hitherto our chief attention has been devoted to increasing our production of wealth. In this we have been successful. By means of the labor-saving machinery now used on the farm and in the workshop, as well as through the agency of our modern steamships and locomotives which effect enormous savings in the time required to transfer the products of the producer to the consumer, one person to-day is producing as much wealth as ten or a dozen could produce produce thirty to fifty years ago. But where has this increased wealth gone?

It has not gone to the working classes in our cities. In spite of the increased wages they have been enabled to secure, through their labor unions and strikes, the cost of living has advanced in an even greater ratio.

It has not come to the average farmer. Many of us are doing well, some of us better than ever before, but thousands of us, especially those of us who are located on poor or only moderately good land, are finding it hard to make ends meet. Many of us are failing to even do that. Each year sees thousands of our eastern farms abandoned. For these it is sometimes found impossible to secure tenants. Within ten years the rural population of Ontario has declined by approximately one hundred thousand. Most of these people would not have abandoned their farms had they been obtaining returns therefrom equal to what they felt their investment and labor entitled them to receive.

The greater part of the increased wealth we are producing is flowing into the pockets of the few people who do understand the laws governing the distribution of wealth. These include, among others, those illustrated above. Men who secure options on, or buy city or western land which, because of increasing population, is advancing enormously in value, and who, in the course of a few days or weeks, resell their options or purchases at a profit of thousands of dollars and pocket the wealth they have done nothing to create? They include a few middlemen, who sometimes are enabled, by the enormous volume of business they do, to dominate their special lines of trade or who, by combining with others, thereby gain the power to regulate prices to their advantage. They include many who, by means of high tariffs walls, are able to combine and to so advance prices that consumers everywhere are placed under tribute to them, and who then, to conceal their enormous profits, water their stock by hundreds of thousands and sometimes by millions of dollars. All these classes are thus enabled to spend their wealth on automobiles, trips to Europe, costly luncheons, luxurious homes while we farmers continue to plow and harrow and sow and the working man to labor and sweat only to have too great a proportion of the wealth we create reaped by the few who now are profiting by our ignorance.

The last century was noted for the acquisition of enormous fortunes by the few. The century we are now entering upon is going to, in time, be noted for the more equitable distribution of wealth among the many who

produce it. The farm is well advanced when unscrupulous able few to gro of the many are recognized. Our like Toronto Sat when the accou was secured, are against them. We see our farms thankful that we make the improve that we have. however, to be of improvement of the laws governing wealth that those will receive our wealth we produce laws are simple. understand their im to study their worl y understand the prosperity will open of Canada.

LEAD

Where we find where the farms at the fences are le and, above all, w show that care a expended in makin and beautiful, we and that there is in the strong community are friendly and al district and willing power for the de neighborhood.

This community revolution in a generally originate facts of some one We have in mind tion in Nova Scoti been almost a rev methods, the cond studs, and the sp due to the efforts a man who moved into 20 years ago.

Such leadership more of. Our coe men need not look sphere for their lab the powers of leader room for their act veloping of the com their own home di

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produce it. The movement towards reform is well advanced. The unfair and often unscrupulous methods which enable the few to grow rich at the expense of the many are becoming generally recognized. Our large city papers, like Toronto Saturday Night, from whom the accompanying illustration was secured, are beginning to protest against them. We are all anxious to see our farms improved. We are thankful that we have been enabled to make the improvements on our farms that we have. There still remains, however, to be effected the greatest improvement of all: Such changes in the laws governing the distribution of wealth that those of us who produce it will receive our full share of the wealth so produce. Fortunately these laws are simple. When once we understand their importance and begin to study their workings, we will quickly understand them and a new era of prosperity will open before the farmers of Canada.

LEADERSHIP

Where we find a rural community where the farms are well tilled, where the fences are kept in good order, and, above all, where the farmsteads show that care and work have been expended in making them attractive and beautiful, we can depend upon it that there is in that neighborhood a strong community spirit. Neighbors are friendly and all are proud of their district and willing to do all in their power for the development of their neighborhood.

This community spirit will work a revolution in a neighborhood. It generally originates through the efforts of some one progressive man. We have in mind a small rural section in Nova Scotia, where there has been almost a revolution in farming methods, the condition of the home-steads, and the spirit of the people, due to the efforts of a well-educated man who moved into the section some 30 years ago.

Such leadership as this we need more of. Our country bred young men need not look elsewhere for a sphere for their labors. If they have the powers of leadership they will find room for their activities in the developing of the community spirit in their own home district. The new

country life that is coming demands the services of our best brains and hearts. Heretofore the cities have been getting more than their share of the choice of our young men. What better sphere could our young men ask for than to be leaders in a movement for improved economic and social conditions in rural Canada?

THE GREATEST HOME NEED

In planning the improvements that are to be made around the farm, we farmers should not forget the home improvements that are even more needed than outside improvements. If we could take a census of the opinion of all farm women as to the one greatest improvement that they would like to see installed in their homes, we feel safe in saying that the almost unanimous verdict would be for running water and a fully equipped bathroom.

Such a census has been taken in one state of the United States, and of some five hundred replies received the very great majority of farm women stated running water as their greatest need. Could we appreciate the energy that is wasted and the amount of sickness and even death that is caused in visiting distant springs for water, we farmers would be quick to install this much needed improvement in our homes.

There is now no difficulty in securing the equipment necessary for a home water system. Several manufacturers make a specialty of water and bathroom equipment for farm homes that can be installed for \$200 or even less. Any of us with a little expenditure could have a convenient bathroom and running water, hot and cold, at the kitchen sink. And what is a couple of hundred dollars beside the health of a wife or mother? Here is an excellent field for home investment.

PROFITABLE IMPROVEMENT

Tile drainage is an improvement that those of us who have wet farms can't afford not to make. Prof. W. H. Day's figures showing that an average investment of \$25 in tile drainage will bring increased returns per acre of over \$20 for all succeeding years, proves that tile drainage is an improvement that pays for itself speedily and then goes on to pay for



"You Bet It's Fine"

You can use this razor with safety and comfort. Once you use it you will never do without it.

"Say friend! Ever use a Safety Razor?" "No, I never felt I could afford \$5.00 for one."

"I never could afford to give that much for one either, but I noticed recently that I could get one free from Farm and Dairy. I sent for one, first getting the two new subscriptions to their weekly Farmers' paper, and I tell you it's great."

"It's a Gem Junior Safety Razor" and is highly polished. It shaves so easy I could hardly believe myself that it was taking off the whiskers.

"And it has seven genuine Damaskened Gem Junior Blades and a combination stropping and shaving handle, so I can keep them sharp and in use for shaving indefinitely."

Brother Farmer! You have a Gem Safety Razor cut for you, in a substantial velvet tin and box, just as shown; it will be sent to you postage paid and absolutely free in return for getting us only two new subscriptions to Farm and Dairy at only \$1.00 each.

This is a most useful, satisfying article and will prove a delight to any man who shaves.

We're glad to be able to offer it to you this way. We know you'll like it and tell your friends about it.

See right away about getting two of your friends to subscribe to Farm and Dairy, and then write us for your Safety Razor.

Plan to-night who you will get to take Farm and Dairy - then see them about this matter first time you can.



Farm and Dairy
Peterboro, Ont.

A Gift for you

LABOR SAVING Machines appeal mightily to Farm and Dairy people—the dairy farmers—since manual labor is most expensive to buy. It'll pay you to meet our people with your advertisement at the time their interest will be high in our great **Farm Machinery Number, June 6th**

other farm improvements that may be necessary.

Lack of capital cannot be urged as an excuse for not putting in tile drains where they are needed. The Provincial Government in Ontario has made provision whereby we farmers can borrow money for drainage purposes. Provision is made in the Tile, Stone and Timber Drainage Act, whereby any township is authorized to borrow money from the province to lend to our farmers for underdrainage purposes.

If we borrow \$100, interest and principal can be paid back by instalments of \$7.36 each year for twenty years. One hundred dollars will drain four acres. That means that our payment each year per acre would be \$1.84, in return for which we would receive increased crops worth \$20 or over. Of course in some cases the returns would not be as great as this, but in average cases they would be.

Are we safe in borrowing \$1.84 to get back \$20? Does it look like a good investment?

DE LAVAL CREAM SEPARATORS

The best of all dairy investments
Save \$10. to \$15. per cow every year

De Laval Dairy Supply Co., LIMITED 173 WILLIAM ST., MONTREAL. 14 PRINCESS ST., WINNIPEG.

"Bissell" rollers are a specialty

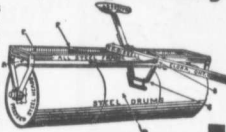
The "Bissell" Rollers are built by men who have made a life study of this work, and are SPECIALISTS IN THE BUSINESS.

Search as you may, there are no such perfect Land Rollers on the Continent as the "Bissell's." Make a note of these points and compare the "Bissell" Rollers with any other Land Roller in America. If the "Bissell" does not convince you that it is the best Roller, then don't buy, but you ought to know the facts, and it will do any person good to make the comparison. No need to send special travellers to sell "Bissell" Rollers. Practical farmers see the difference and prefer the "Bissell."

The 18 cold rolled anti-friction Bearings $\frac{1}{4}$ inch thick with lath cut ends, held in the one piece Malleable Iron Cage, is a single point placing the "Bissell" Roller away ahead.

Look for the name "Bissell" on every Roller. No other is genuine. Ask Dept. N for free catalogue.

T. E. BISSELL CO., FLORA, ONT.



Creamery Department

Butter makers are invited to send contributions to this department, ask questions on matters relating to butter making and to suggest subjects for discussion. Address letters to the Creamery Department.

Our Conclusions

Geo. H. Barr, Chief of Dairy Division, Ottawa

An ordinary cellar is not the best place to keep cream.

Cream must be cooled to and kept at about 55 degrees to be delivered to the creamery every other day in sweet condition, and setting the cream in water, or water and ice, is the best method of cooling.

Cream delivered only twice a week must be cooled immediately after skimming to and kept at 48 or 49 degrees.

A refrigerator is not as good a place in which to cool cream as a tank with water and ice.

Natural ripening of gathered cream at the creamery will not produce a good keeping butter.

The use of 10 per cent. clean flavored starter improves the flavor and keeping quality of butter.

Pasteurizing the cream gave better flavored and better keeping butter than adding culture to raw cream, especially when cream was tainted.

Pasteurizing the cream and adding 10 per cent. starter gave the best flavored and best keeping butter.

It is doubtful if adding starter to pasteurized cream will improve the flavor and keeping quality sufficiently to pay for the trouble and expense of making starter.

There is a loss in pasteurizing cream, but the improvement in flavor and keeping quality should more than offset this loss as well as the additional expense in manufacturing.

Cleanliness and low temperature are the two greatest essentials in the production of fine flavored and good keeping butter.

Practical Cream Grading

Prof. G. L. Martin, N. Dakota Agr. College

The most difficult point in connection with cream grading is to draw a line between first and second grade cream. As is well known the average patron is not qualified to distinguish between cream that make a first grade piece of butter and cream that will not. For that reason some arbitrary means need to be agreed upon as a guide.

At present, the most satisfactory method is to draw the line between sweet and sour cream, putting all sweet cream of clean flavor into grade first, all sour cream reasonably clean in odor and flavor into grade second and rejecting all cream not fulfilling these requirements. The grade line is one thing that of necessity needs to be adhered to strictly, otherwise the creamery management is bound to lose patronage.

Frequently it is necessary in grading to convince a patron that his cream is not up to the first grade and a good way for the butter maker to do so is to have a small quantity of the good, fresh cream and allow the patron to compare his cream with it by tasting. A few such trials will usually convince the most sceptical and result in retaining the patron at the creamery.

Care of the Ice Supply

With the approach of hot weather, attention should be directed to preventing unnecessary waste of ice, one of the commonest sources of waste is insufficient ventilation over the ice supply. In many ice houses the only visible means of ventilation is a small door in the gable and through this the ice house is filled.

To provide adequate ventilation, it is necessary to have at least one, and better two, ventilators through the ridge of the roof. In addition to the ventilators, the ice house should be provided with openings, and through to be a six inch opening under the eaves extending the full length of either side of the building. Such openings can be provided by removing one or two boards.

A GREAT SOURCE OF LOSS

The heat that accumulates under any roof not provided with special ventilation, becomes intense on hot days, and we believe that about 2 per cent. of the ice supply is unnecessarily wasted in this way.

Keep the sawdust well packed along the sides and between the top and the ice. Ice can be saved by having same in uniform horizontal layers. Ice sure that there is plenty of drainage under the ice in the ice box. Ice melts rapidly when in contact with water and, what is just as bad, the water that accumulates about the ice keeps the refrigerator too damp.—Butter, Cheese and Egg Journal.

I have used printer's ink and all other methods I could think of for raising the test of cream at my creamery, but have been only partly successful, having raised the test only three to four per cent. on the average.—J. H. Scot, Huron Co., Ont.

Agent—"I understand that you have not paid for that separator which you purchased from us some time ago."

Farmer—"Now, of course not. That advertisement of yours said 'Let your cows pay for it,' and that's what I am going to do."

What is the use of our governments spending thousands of dollars to instruct patrons how to care for their milk only to have the patrons continue to use the same old methods?—Chief Dairy Instructor G. G. Galow, Kingston, Ont.

Cheese

Makers are invited to send contributions to this department, ask questions on matters relating to cheese making and to suggest subjects for discussion. Address letters to the Cheese Department.

Notes from

R. T. Gray, Da...

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A great deal of in the stables...

that they be kept of whitewash me do a lot in this would be trifling benefit to the health of the cow...

What we want is better curri- sories so that the

fer to the ex...



Make Butter By Using

The secret of is—the salt you The smooth and keeping qu on the salt you



Makes Sm...

For the fall, and the big fats, in Cheese Salt.

It dissolves slowly, evenly, and makes flavored cheese t...



DeLaval For Sale

WANTED Highest Toronto pr delivered at any Exp

WE Write for particula THE TORONTO CREAM



Limp Rock Salt, \$10 for ton, f.o.b. Toronto Toronto Salt Works, 128 Adelaide St. E. G. J. CLIFF, Manager Toronto, Ont

110 Acre Farm

Widow Must Sell Money-making farm near bustling New York town of 5,000, good level land, spring watered pasture for 15 cows, 40 acres, 30 cords wood, 2-story 7-room house, barn supplied with spring water. Price only \$15,000 if taken immediately. Part cash, easy terms. Full details and travelling directions to see this and other tremendous bargains, many with live stock included to assist estates before planting, see Page 5, "Strout's Farm Catalogue" just out, copy free. We pay buyers' R.R. fares. E. A. Strout, Station 2,671, 47 W. 54th St., New York.

DAIRY FARMERS' ATTENTION!

Start the season right by shipping your cream to the Walkerton Creamery. We are in a position to handle an unlimited quantity of Fresh Cream for Buttermaking purposes and beg to solicit your shipments.

We pay by Express Money Order, Post Office Money Order or Bank Money Order, and payments are made every two weeks. Express charges paid on all shipments.

Every can of cream carefully weighed and tested upon arrival at Creamery.

Write for cans and further particulars to the

Walkerton Egg & Dairy Co., Ltd. WALKERTON, ONT.

Mention Farm and Dairy when writing to advertisers.

DRUMMOND'S Guaranteed Dairy Supplies Are Used With Enthusiasm All Over Canada

You save money and time and bother by buying all your dairy supplies direct from the largest dairy supply house in Canada. Our Catalogue, sent FREE, illustrates, describes and prices all your needs. Satisfaction guaranteed with every purchase. ANY of the following promptly shipped on receipt of price:

Cool Your Milk Quickly and Preserve its Quality

Sour milk is caused by the formation of Lactic Acid. Lactic acid is caused by the action of "Milk Bacteria" which are present in all milk when it is first drawn. These bacteria reproduce themselves every 20 minutes in warm milk. To preserve the quality, milk should be cooled as soon as possible after being drawn. These coolers will cool milk to within 2 degrees of the temperature of the water used. Corrugated surfaces retard the flow of milk and insure proper cooling. The milk is also thoroughly aerated and all foreign colors removed.

Beaver No. 871
125 quart per hour, wall style, guaranteed to cool within 2 degrees of medium. Complete \$17.00

Up-to-date No. 322
Low style, corrugated sides, used with ice water, brine or spring water. 140 quarts per hour ————— \$7.50

Write Now For FREE Catalogue of Dairy Supplies
The Dairy Car on the Ontario Government Demonstration Train was Equipped Entirely with "Drummond" Supplies.

Decimal Automatic Scale

is made especially for weighing milk in the pail. There is a loose indicator on the dial that can be set back by a thumb-screw when the pail is on the hook. Then when the pail exact net weight of the milk

30 lbs. by oz.	\$3.50
30 lbs. by tenths	4.00
60 lbs. by oz.	4.50
60 lbs. by tenths	5.00

Other Things for the Dairy

Sterilize Sanitary Milk Pail	\$2.50
Babcock 3-bottle Set, complete	5.50
Wm. 2-bottle	4.25
Wm. 4-Cleaner, 5 lb. bags	25
Government dist. Air Treatment	Guaranteed
Garget Outlet, complete	3.00
Milk Evaporator, complete	1.50
Cattle Trocars for Hoast	1.50
Hard Milker Outfit, in case	3.50
Test Openers, nickel	1.50
Milking Tubes, 3 inch nickel	50

EVERYTHING FOR THE DAIRY

This is Our GUARANTEE
We guarantee all our goods to be and do as we say. If you have trouble in getting results, or if there is in any defect in what you buy, let us know and we will adjust it satisfactorily.

W.A. DRUMMOND & CO.
215 King Street E. Toronto



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Cheese Department

Makers are invited to send contributions to this department, to ask questions on matters relating to cheese making and to suggest subjects for discussion. Address: Editor, The Cheese Maker's Department.

Notes from a Dairy Instructor
R. T. Gray, Dairy Instructor, Northumberland Co., Ont.

If our patrons would build more silos and grow less turnips the quality of our fall cheese would be much better than it is.

A great deal of the milking is done in the stables. It is very necessary that they be kept clean. A good coat of whitewash made of fresh lime will do a lot in this direction and the cost would be trifling as compared to the benefit to the milk as well as the health of the cows.

What we want in Campbellford section is better curing rooms at our factories so that our cheese will not suffer to the extent they always do



Make Better Cheese By Using Better Salt

The secret of good cheese-making is the salt you use.

The smoothness, richness, color and keeping quality—all depend on the salt you use to salt the curd.

WINDSOR CHEESE SALT

Makes Smooth, Rich Cheese

For years, the prize winners at all the big fairs, have used Windsor Cheese Salt.

It dissolves slowly, makes the curd evenly, and makes a deliciously flavored cheese that "keeps." 74C

De Laval Separator For Sale Cheap

Written ones if you require it and I will give full information. FRANK BOYES, Dorchester, Ont.

WANTED—CREAM

Highest Toronto prices paid for Cream delivered at any Express Office.

WE PAY ALL CHARGES FURNISH CANS FREE DAY ACCOUNTS FORTNIGHTLY ENGAGE MAN TO COLLECT AT SOME POINTS NOT NECESSARILY Write for particulars. THE TORONTO CREAMERY CO., Ltd., Toronto

when the hot weather comes on. Also it would be a big improvement if each patron producing milk would take more interest in the care of it.

I believe if the milk was paid for by the Babcock test the careless patrons would realize more quickly the difference in the value of milk properly cared for and that which is not.

Cooperation a Success

The Quebec cheese makers, who through two years ago formed the Quebec Agricultural Cooperative Cheese Makers' Association for the purpose of grading and marketing their cheese, have now had two most prosperous seasons, and all express themselves as satisfied with the results. The plan they work upon is briefly as follows:

Before a factory is accepted into the Union it is necessary that in equipment and sanitary condition it come up to the requirements of the rules of the association. Hence none but good factories market their cheese through the society. The cheese are shipped to Montreal and there graded by a Government official and sold on the grade. This system that is giving such success in Quebec is a great improvement on the system of selling cheese now in vogue in the greater part of Canada, where the buyer does the grading. The following expressions show what some of the makers in the Quebec Association think of their system:

SYSTEM FIRST-RATE
"I have found our system first-rate." Gregoire Mollette, La Belle Co., Que.

"The cooperative selling of cheese is giving grand satisfaction. It is a good move, as each cheese is paid for according to its value."—Adlard Bergeron, Rimouski Co., Que.

"Our system is giving full and entire satisfaction. We obtain a higher price than ever before, and the cheese is being sold on its merits."—Eugene Faucher, Lotbiniere Co., Que.

"Our system is the best one could take to get the highest price for cheese, to hold the cheese makers on a good footing. The man who sells the best cheese gets the best price."—Jos. Dargagne, Chicoutim Co., Que.

GOOD FOR MAKER AND PATRON
"Our method gives entire satisfaction to the proprietor and the patron. We are all supplying a cheese uniform in quality and appearance. I am satisfied that this organization will be most in upbuilding the dairy industry."—Sam. Belzile, Rimouski Co., Que.

"I like our system well. It guards the market for those who make a good class of cheese and is severe on inferior makers, as they must take a smaller price."—M. Morman, La Belle Co., Que.

"Our system will be of great advantage to the dairy industry because the cheese is classified according to quality. This will be great advantage for the careful makers who are trying to make a good cheese and will be detrimental to the small factories that are a nuisance in the province of Quebec."—Alfred Cossette, Lac St. Jean Co., Que.

While 50 per cent of the patrons of a factory continue to care for their milk in a careless way, it is difficult for the instructor or the cheese maker to bring about an improvement. Even where nearly all the patrons take good care of their milk, the milk of one careless patron will injure the quality of the milk of all the rest.—Chas. Dairy Instructor G. G. Puhlow, Kingston, Ont.



WHERE MONEY IS MADE

Finest homes, biggest barns, heaviest crops are found on dairy farms. Dairy farming improves the land. Wheat or similar crops without dairying robs the land. Why not follow the lead of keen business farmers who are making most money? Such men use highly productive land because it pays them profits which inferior land cannot pay, and they use and recommend the highly productive



All There is to the Light, Simple, Sanitary Dairy Tubular Bowl

The widely known P. Eaton Estate, here shown, near Georgetown, Ont., is but one instance out of many too numerous to mention. Dairy Tubulars are used both on this farm and at the Eaton home.

No disks in dairy Tubulars. Easy to clean. Wear a lifetime. Guaranteed forever by the oldest separator concern on this continent. One-quarter to twice as much butter as next best separator to pay a big part of the price of the Tubular.



Write for FREE Catalog 253

SHARPLES Tubular Cream Separator

For similar good reasons, Tubulars have no other can pay.

The widely known P. Eaton Estate, here shown, near Georgetown, Ont., is but one instance out of many too numerous to mention. Dairy Tubulars are used both on this farm and at the Eaton home.

No disks in dairy Tubulars. Easy to clean. Wear a lifetime. Guaranteed forever by the oldest separator concern on this continent. One-quarter to twice as much butter as next best separator to pay a big part of the price of the Tubular.



Write for FREE Catalog 253

THE SHARPLES SEPARATOR CO.

Toronto, Ont. Winnipeg, Man.

Partner Wanted

I have an opening in combined cheese and butter factory (Elgin County, Ont.) Good make. Fine district. A progressive, honest and experienced man, with about \$1,000, can come in with me and be manageable and make money. Owner leaving district.

Full particulars on application to Box 47, FARM AND DAIRY, PETERBORO, ONT.

WANTED

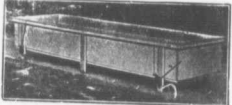
WANTED—A good Farm Hand (married man preferred), must be sober and have a knowledge of farm work. Mention skill and salary wanted. Apply to P. O. Box 24, Athelstan, Pro. Que.

CHEESEMAKER WANTED

For small factory for season 1912. Apply at once to Geo. W. Jackson, Vennachar, Ont.

The "Perfect" Steel Cheese Vats

OUR "Perfect" Steel Cheese Vat has several unique merits. Being all steel it is durable. Having no cracks or strains for milk to lodge in and decompose, it is sanitary. Having levers and gears for lowering and raising



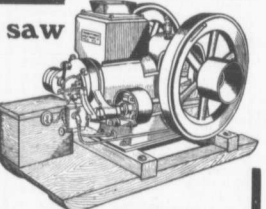
ing inch by inch, it is handy. Also it is so built that the last drop runs out; that is, it is an ideal drainer.

Write for our special catalogue of (dairy equipment).

SPECIAL PRICE FOR CASH Steel Trough & Machine Co., Ltd. TWEED, ONT.

Pump water, saw wood, grind grain, churn

and do many other labor-saving tasks with the Barrie Engine. Will pay for itself quickly by saving valuable time for you. Strong, rugged construction. So simple a lad can run it. Sure in action, economical in operation. Every farmer needs one. Write for booklet.



Agents Wanted

Barrie Engines
Stationary or portable. 3 to 100 h. p., for gasoline, distillate, natural gas and producer gas. Make and break or jump spark ignition.

The Canada Producer & Gas Engine Co., Limited

BARRIE, ONTARIO, CANADA
Distributors: Montreal: McCusker Imp. Co., Regina



DON'T argue with a man who talks loud.—He could not be convinced in a thousand years.

The Second Chance

(Copyrighted)

NELLIE L. McCLUNG

Author of "Sowing Seeds in Denny"

(Continued from last week)

Pearl, the eldest daughter of John Watson, a C.P.R. section man in Millford, Mass., receives a sum of money and starts in to educate herself and the rest of the family. She proves a clever scholar but seeing that her small brothers are getting bad habits in town, suggests moving the family on to a farm. We are next introduced to the children at a country school. Tom Steadman, a bully, is threatened by Bud Perkins for striking Libby Ann Owens. The Watsons again take up their education at the country school. At the Pioneer Picnic, Bill Owens, father of Libby Ann, gets drunk and is found dead. Sandy Braden, the hotel keeper, deeply affected, closes up his saloon in consequence. Mr. Perkins plans his grain with frozen wheat and Bud gets the blame. He leaves home for a neighboring farm. Martha is in love with a young Englishman on a neighboring farm. Verney, Arthur is engaged to an English girl, who is shortly to come and and join him in his new home. On the boat she falls in with another young man and they are married.

"YOU see, I knowed cousins of his down near Owen Sound," Mr. Perkins said, "though I didn't see that he favored them all at first; but when I got a look at 'em between the ears I could see the very look of the old man his uncle. Maybe you've seen him, have you? Loneyfaced, lumpy-nosed old peller, with a face like a coffin—just the kind you have to look out for; they'd go through you like an electric shock! Well, sir, Sam and me was sittin' on the edge of the dock, and that old rack o' bones just riddled us with questions. Sam got suspicious that there was a job gittin' put on us some way, and so he wouldn't say a word for fear he'd raise the taxes, and that left all the talkin' to me. Now, I don't mind carryin' on a reasonable conversation with any one, but, by jinks, nobody could talk to that man. I tried to get a chance to tell him about knowin' his folks, and a few amusin' things that came to me about the time his uncle Zeb was married and borrowed my father's black coat for the occasion, but, lan' alive, he never let up on his questions. He asked me every blamed thing about every family in the neighborhood. He had the map of the township right before him, and wrote down everything I told him nearly. I was scared to death we hadn't enough children to get the Government grant, and when the old man went to the Steadmans twice, both pairs of school age. I wasn't just sure of how many we needed to draw the grant, but I was bound to have enough to be sure of it. Sam Mertherwell's no good to take along with you at a time like this; he kinda gored when I gave George the second pair of twins, and when the old man went out he went at me about it, and said it was not a decent way to treat a neighbour and him not there to deny it. I told him: 'My land sakes alive!' I hadn't said nothin' wrong about either George Steadman or the twins, and it's no disgrace to have 'em. Plenty of good people have twins."

"Well, sir, when the old man came back he asked me a whole string of questions about them two pair of twins, just as if everything depended on them. I had to name them first thing. I got the girls all right—Lily and Rose I called them—but when he

here the first we hear of them is when they began to feel the need of an education—Buck and Bright trap-lightin' lads, and Lily and Rose de-dylin' Nuns' and other classic gems. Any father might well be proud of them. I'll write to Mr. Steadman and tell him just what I think of such carelessness. Even if Buck does toe in a little that's no reason why him and his runnin' mate shouldn't have a place in the files of his country. I'll mention to Mr. Steadman that we're deeply indebted to his friend and neighbour for putting us right in regard to his family tree."

"Well, sir, I could see I had put my foot in it up to the knee, but I was game, you bet, and looked back at him as cool as a cucumber. I wasn't going to go back on them twins now when I had brought them into the world, as you might say; so I just said George Steadman was kinda careless about some things, he'd been cluttered up with politics for quite a while, and I guess he'd overlooked having the kids registered, but I'd speak to him about it. I'm a pretty good bluffer myself, but I couldn't fool that man. His face seemed to me to get longer every minute, and says he, when we were coming away: 'Give my love to the twins, Mr. Perkins, both pair—inter-estin' children, I'm sure they are.' 'My land sakes alive, you should have heard Sam Motherwell pitch in to us when we got out. Sam was as buff; about it as a wet hen.

"It's no good tryin' to fool them lads. I got my lesson that time, if I'd just had sense enough to know it; but if you believe me, sir, I got caught again. 'Eh, what's that?"



The Home of an Authority on Farm Crops. Well Known to us All

The simple but very attractive cottage here illustrated is the home of Prof. C. A. Zavitz, O.A.C., Guelph. The cottage is located in one corner of the college campus. Note the pleasant background of evergreens.

—Photo by an editor of Farm and Dairy.

just alike, only Buck toed in a little. I kicked Sam to pitch in and tell something about their smart ways, but he never seemed to get over his surprise at them comin'. All this time the old lad was leafin' over a great big book he had, and askin' the greatest lot of fool questions about the twins. I told him that Lily and Rose was pretty little things with yalla hair, and they sang 'The Dyin' Nun' at a concert we had in the church at Millford somethin' grand; and the two boys were the greatest lads, I said, to trap gophers—terrible shame not to have a school for them. Then the old chap looked at me, and his face seemed to be as long as a horse's, an' he said, lookin' square at me: 'I'm real glad you told me about Mr. Steadman's twins, because it's the first we've heard of them. Mr. Steadman is a mighty careless man to only register two children—Thomas J. born October 20, 1880, and Maud Mary, born sick a time 1888, and not a single entry of the twins, either pair; and

seemed awful sorry for me and wrote down my name and where I lived, and all that, and by George, I don't think he was goin' to pay my bill or give me the price of a cow or somethin' else. I asked out the lump quick enough, but when he'd seven o'clock—that man gets so early as a farmer—and when I came to settle up he says to me: 'Perkins, if I was a farmer, I wouldn't rent a rented farm any longer. I'd give one of my own—the north lot, of seventeen there—what's the matter with that? The secretary tells me you own that and there's two acres across under cultivation, and there's that quarter-section of yours just across the Assiniboine, when you keep your politics gittin' crubbin' along on a rented farm when you have four hundred and eighty acres of your own—good land, too. Then he laughed and I knew I was up against it, and I tried to laugh too, but my laugh wasn't near so hearty as his. Then he says: 'I'd like to see you with any more of those large sickly families, livin' on the farms, come here to see me; but—says he, gittin' close up to me, and 'did you ever hear about an angel writin' in a big book—writin' the day and night? Well, says he, 'they's one of them books,' and he whipped out a book and showed me the name, where I lived and all that. 'I can't fool the angels,' says he, 'but now I'll just trouble you for an evenin'—says he. I have had them to-day's girls in to see me about their eyes to-day, and I done them. I was waitin' for some one like you to come along and settle for them when they was settlin' for 'em. I paid it without a kick out of you. Did it beat the cars, Eh? What?"

Mr. Donald laughed heartily, and agreed with Mr. Perkins that honest was the best notice he could give. While her father was telling the story Martha sat thinking her own thoughts. She had listened to him discomfited so often that they had long ago ceased to interest her. The schoolmaster studied her face closely. "No wonder she is quiet," he thought to himself, "she has never had a chance to talk. There is no room in the conversation for any one else when her volatile parent unfurls his matchless tongue. Martha cannot do more than talk for the same reason—that people that live in the dark at a time lose the power to see, because they haven't had to do it."

That night Arthur came over for his bread. The schoolmaster noticed the sudden brightness of Martha's face when Arthur's knock sounded in the door, and the animated, eager way in which she listened to every word he said. It was a new kind of good fellowship, too, between them which did not escape the sharp eyes of the schoolmaster. "Arthur likes her," he thought, "that's a sure thing; but I'm afraid it's that brotherly son of a thing—that's really no good. But, of course, time may bring it all right. He's thinking too much now of the four-hundred Thurstons. It's hard to begin a new song when the echoes of the old song are still ringing in your ears."

Through the open doorway he could see Martha in a settling chair filling the basket that Arthur had brought over for his bread. The bread—three loaves—was put in the bottom, rolled in a snow of flour, and then she put in a roasted cream, a fruit cake, and a jar of cream.

"Strong arguments in your favour, Martha," the teacher said, smiling a little, "but if you want it, they are good, sensible, cogent arguments. Every one of them, Martha, and my own opinion is that you will win."

(To be continued)

My s...
Mr. E. F. Bato...
We country...
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A beautiful her...
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talking; quality...
Kodak way the s...
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they work like Kodak...
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Canadian Kodak...
TORONTO

ARTS, EDUCATION, THEOLOGY, MEDICINE, SCIENCE, INCLUDING ENGINEERING. Rites Summer Session July 3 to Aug. 17. UNITE KINGSTON

My Sweet Peas

Mrs. E. F. Eaton, Colchester Co., N.S.

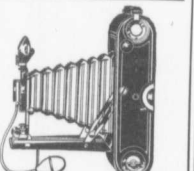
Our country women should grow some flowers. There is something that draws out the best that is in us. My pride is in my sweet peas. A beautiful hedge of sweet peas will drive trouble and worry out of my mind faster than anything else. I grow my peas in hedges. First the soil is scooped out to a depth of seven inches and well rotted manure scattered in the drill. Three inches of the soil is then drawn back into the drill and the peas sown thickly in a broad row. For separating the rows I use ordinary chicken wire, supported by nicely painted posts. Keep the hedges well watered and free from weeds, and I will guarantee a "Thirt of Beauty" later on. A small point but an important one is to plant a mixture of dwarf and tall growing peas together in order that there may be a solid mass of bloom from ground to top.

Sweet peas look best as a background to the flower garden or as a hedge along the side of the garden or lawn. As they grow tall there should be nothing behind them that we do not wish obscured. I like to have my hedges somewhere so it can be seen from the living room. It adds to the pleasure of life.

Easy To Form Good Habits

Let us get the truth firmly into our minds as parents that it is just as easy to form a good habit as a bad habit, just as easy to acquire helpful, happy thought as those that are injurious.

If it isn't an Eastman, it isn't a Kodak.



You can easily make good pictures with a

KODAK

Simplicity has made the Kodak way the easy way in picture taking; quality has made the Kodak way the sure way.

Kodaks \$5.00 and up. Brownie Cameras, day work like Kodaks \$1.00 to \$12.00 are fully sold in our catalogue. Free at your dealers or by mail.

Canadian Kodak Co., Limited
TORONTO, CAN.

QUEEN'S

ARTS, EDUCATION, THEOLOGY, MEDICINE, SCIENCE, including ENGINEERING Arts Summer Session July 3 to Aug. 17

The Arts course may be taken by correspondence, but students desiring to graduate must attend one session.

Short Course for Teachers and general students July 3 to 17. For catalogue write the Registrar, G. CHOWN, Kingston, Ont.

UNIVERSITY
KINGSTON ••• ONTARIO

and we can do it, if we will but see to it that our children early form correct and proper habits of thinking and acting.

Let fear be an unknown word to our children. Don't let a thought of the fear of insanity, of haunted houses, of drafts, of this and of that, enter into your home. Instead, live in the glorious sunshine of strong, healthy, faith-thought, and a supreme happiness will come into your life, and you will give a legacy to your children for which they will "rise up and call you blessed."—Ladies' Home Journal.

Which is Best?

Grace Dutcher, Charlottetown, P.E.I.

The possession of that labor-saving device "common sense" is worth a good deal.

A lady had been invited with some other friends to take tea at two different homes. At one home the party saw but little of their hostess and her family until they sat down to a table, simply groaning under its burden of



Fun in the Maple Bush
—Photo taken in Victoria Co., Ont.

the good things of life, white and brown bread, licuit, strawberry preserve, apple, mince and Washington pie, jelly roll, raisin cake, fruit cake, ginger snaps, cookies, doughnuts, turnovers, and the guests felt that they were expected to eat a portion of each of these things. Well they did their best. The lady confessed that she felt like the little boy after his Christmas dinner, who said, "Take to bed but don't bend it." When the meal was finished the family were again busy putting away the remains of that feast, and the guests saw but very little of them.

The same lady was invited with a few friends to take tea at her home. Their hostess sat with her friends until a few minutes before they sat down to the table, when she excused herself to put her tea to steep, and her friends sat down to a daintily served, well-cooked meal of baked beans, brown bread and white, canned fruit, macaroons and hot, freshly steamed tea. After the supper the hostess was able to see her house in order in a very short time. She was not tired out and was able to enjoy the company of her guests for the entire evening, and they were able to enjoy her company, more especially as they realized that in giving them pleasure she had not over-taxed her own strength.

Does true hospitality consist in tiring ourselves in order to feed our friends until they are uncomfortable.

Towels should never be put away without being thoroughly aired, because without this precaution a mould called "odour" forms on them. This mould is injurious to the skin.

Goodcheer

WARM AIR

FRACAS

THE FURNACE WITH AREAL WATER PAN

STAND FOR QUALITY & SATISFACTION

Winter Warmth in the home like the breath of a day in June, compared to the July-like dryness and intensity of the furnace heat with which you are familiar. It's all in the big CIRCLE WATER-PAN with its adequate provision for humidifying the heated air, and a furnace construction absolutely gas and dust tight.

The James Stewart Manufacturing Company, Limited
WOODSTOCK ONT.
WINNIPEG MAN.

FURNACE CATALOGUE MAILED ON REQUEST

HELLO, GRACE!

Dick is here. You and Will come over for Tea.

Lonesomeness is banished, when you and yours are missed "next door neighbor" by the Independent Telephone. It keeps the boys and girls happy and contented at home—even when "showed in" during the winter and when the thaw comes in the spring.

They can always talk with friends. So all the news of the neighborhood—keep in touch with the markets—do business over the phone and make money by hearing of buyers and sellers who would not, or could not, come out to your farm.

STROMBERG-CARLSON
INDEPENDENT TELEPHONE Satisfaction Guaranteed or Money Refunded

Write you to get the book with the instruction when you purchase. It shows you how to use the new law talk—both sides of the coin—both sides of the street. Ask for the book. Ask for the book. Ask for the book.

STROMBERG-CARLSON Telephone Mfg. Co., 72 Victoria St., TORONTO

Mr. Farmer, Listen!

Would you like to receive one of Wilson's GOLD MEDAL Scales

Delivered right to your nearest station! FREIGHT PAID BY WILSON.

Write to-day for our special prices. In different styles of Hay and Poultry Scales.

C. WILSON
47 BURLINGTON ST. TORONTO

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TO Manitoba, Saskatchewan, Alberta

Special Trains leave Toronto 2.00 p.m. on APRIL 2, 16, 30 MAY 14, 28 JUNE 11, 25 JULY 6, 20 AUG. 4, 28 SEPT. 5, 17

Second class tickets from Ontario stations to principal Northwest points at

LOW ROUND-TRIP RATES Windsor and return \$34.00; Edmonton and return \$42.00, and to other points in proportion. Tickets good to return within 60 days from going date.

TOURIST SLEEPING CARS through to Edmonton via Saskatoon, also to Windsor and Calgary via Main Line on all excursions. Cars furnished buffet, fully equipped with bedding, can be secured at moderate rates through local agents.

Early application must be made.

ASK FOR HOMESEEKERS' PAMPHLET containing rates and full information.

Apply to nearest C.P.R. Agent or M. G. MURPHY, Dist. Pass. Agt., Toronto.

ONLY DIRECT LINE NO CHANGE OF CARDS

MONEY can be made easily by showing Farm and Dairy to prospective friends and getting them to subscribe.

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WATERPROOF

GOLLARS

Save you money

Stop all laundry troubles. "Challenge" Collars can be cleaned with a rub from a wet cloth—smart and dressy always. The correct dull finish and texture of the best linen. If your dealer hasn't "Challenge" brand write us enclosing money, 25c. for collars 30c. per pair for cuffs. We will supply you. Send for new style book.

THE ARLINGTON CO. OF CANADA
Limited
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3124

EGGS FOR HATCHING
Have you any for sale? It will pay you to advertise them in FARM AND DAIRY.

CALVES RAISE THEM WITHOUT MILK
Booklet Free.
Steele, Bridge Seed Co., Ltd., Toronto, Ont.

Take A Scoopful Of Each—Side By Side

Take "St. Lawrence" Granulated in one scoop—and any other sugar in the other.

Look at "St. Lawrence" Sugar—its perfect crystals—its pure, white sparkle—its even grain. Test it point by point, and you will see that

Absolutely Best

is one of the choicest sugars ever refined—with a standard of purity that few sugars can boast. Try it in your home.

Analysis shows, "St. Lawrence Granulated" to be "100 per cent pure"
Pure Cane Sugar with no impurities whatever."
"Most every dealer sells St. Lawrence Sugar."

THE ST. LAWRENCE SUGAR REFINING CO. LIMITED, MONTREAL.

Absolutely Pure

St. Lawrence
Sugar

is one of the choicest sugars ever refined—with a standard of purity that few sugars can boast. Try it in your home.

Analysis shows, "St. Lawrence Granulated" to be "100 per cent pure"
Pure Cane Sugar with no impurities whatever."
"Most every dealer sells St. Lawrence Sugar."

THE ST. LAWRENCE SUGAR REFINING CO. LIMITED, MONTREAL.

Vincent's Health Hints

About How Much Meat to Eat

Lots of folks are real touchy when it comes to the matter of eating. They want to do as they have a mind to; and it isn't my plan to do or say anything that will hurt anybody's feelings along this line. But it is an honest fact that some farmer folks do eat more meat than is good for them. We didn't think so much of this when we were first married; but when the children began to come along we noticed that in the fall of the year when we had plenty of fresh meat, the little folks liked it and ate pretty heartily of it. A good many times after one of these hearty meals, Mrs. Vincent would say, "Laddie was real fretful this afternoon. It took me most of the time to keep him steady." But it was a long time before we connected this fretfulness with the food he had taken. Then gradually we came to see that a little too much meat was almost sure to go along with a hard time caring for the little chap. Then, too, bowel troubles were apt to follow.

Well, we studied the matter a bit and became sure that the same thing that was true with the children might be said of us older people. Heavy meat-eating made it harder for us to keep sweet and was very apt to lead to a good many bodily troubles. Farmer folks are quite apt to have meat on the table every meal. I know of homes where this is always true. And they think they "have nothing to eat" if they do not find it on the table morning, noon and night.

As honest as I live, I believe we would shorten up greatly on this part of our ration. Some kind of protein—that is what the smart folks call the element of food we get from meat—we no doubt need, but there is such a thing as getting too much of a good thing. Health and happiness are more largely a matter of food than w

sometimes think. It can be proved that moderate eating of flesh foods not only helps to make men both easier to live with but healthier and happier. As we go along it is so unlikely that we shall have more to say about this.

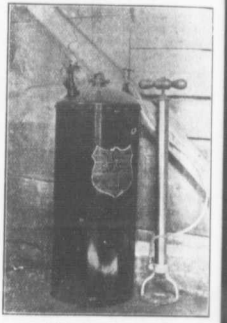
Light at Six Cents a Week

Mrs. W. O. Morse, Halton Co., Ont.

We have recently installed a gas line lighting plant in our home, and would not think of going back to lamps on any consideration. We have found practically no trouble whatever with this system of lighting, and when once they get used to the brilliant light of the gasline, a room lighted by an oil lamp seems almost dark. One can now read in any corner of our rooms.

We find the gasoline much cheaper than the coal oil. With coal oil lamps we burned five gallons of oil every two weeks, which at 22 cents a gallon represents an expenditure of 60 cents a week. One gallon of gasoline at 16 cents will burn two lights for 20 hours, and we estimate that it costs us six cents a week for lighting.

The system consists of an air pressure tank and a common pump. (Illustrated herewith.) The gasoline is conveyed through very small tubes to the chandeliers in the various rooms. This tube can be put out of sight, be



One End of a Lighting System
Read in an adjoining article how Mrs. W. O. Morse lights her house for six cents a week. Here may be seen the gas line air pressure tank and pump referred to in the article.
—Photo by an editor of Farm and Dairy.

if as in our case the system is put in an old house, the tube is so small that it will attract no attention if run along the ceiling in full view. Chandeliers can be got in almost any style and add to the attractiveness of the room.

Our system cost us \$70 to install. We have five lights. Anybody with ordinary mechanical ability can set in the system themselves in half a day. We do not consider the gasoline dangerous at all, as the storage tank is so far away from the flame.

Gasoline gives a nice soft light that is easy on the eyes and gives the room a brighter and more attractive appearance than does coal oil.

Hints

Never fill a lamp completely. If it is filled in a cold room and then takes into a warm one expansion will occur and the oil will overflow on the side.

Finger marks disappear from vanished furniture when sweet oil is rubbed on the spot, and from old wood when paraffin is used in the same way.

Why Make Mrs. F. V. Wo

We have been home comfort beautiful? casual observ have worked h have deprived necessities as life to accu dollars, that good many t effect on the ional welfare of tion. We are and spend our Why not enjoy in making our



Attractive Ad

The tasty porch added to the farm and Son, Wentwo main portion of pleted. Such a appearance of th ornamented with use is
—Photo by an ed
and beautiful, y and wife togethe and improve our
ATTRACTIVE
is there any c iners our mon It is one of the the day "How people on the fr if there was a



A Neat Far
The attractive halton Co., Ont. raised for The In

money spent on indoors and out great many mor rising generation home surrounde need to look else How many young nually into the to adverse home farm?

Is it wise to tie too long? Shall children are gro married, and our joy the improv make? Perhaps taken then. We that we have inde

'NEW CENTURY' WASHER

Let The New Century Do Your Clothes Washing

If your washing could only talk it would call for the weekly cleaning by a NEW CENTURY. It goes right after the dirt and soiled spots and removes every trace quickly without the slightest injury to the most delicate fabric, and "SO EASY."

If you only knew how much lighter wash day work would be and how much time and strength you could save, you would have one quick. Ask any good dealer to demonstrate the NEW CENTURY way of clothes washing. Look at the springs that do half the work and the ball bearings that make it run "SO EASY".

Notice the RUST PROOF shaft through centre that makes the machine rigid and insures long life, also the "Anti Warp" rust proof steel ring sprung into a groove inside the tub. No other machine can have these features. It is original, unequalled, and pays for itself in the clothes it saves. It is harmless to everything except dirt. Ask for "AUNT SALINA'S WASH DAY PHILOSOPHY", an interesting little book that will bring to you many ways of lightening the drudgery of wash day.

CUMMER-DOWSWELL

HAMILTON, CANADA. LIMITED.

Why Make the Home Beautiful

Mrs. F. V. Woodley, *Norfolk Co., Ont.*
We have been asked, "Why did you invest here, and make your farm home comfortable, convenient, and beautiful?" We have noticed from a casual observation of several who have worked hard and faithfully, and have deprived themselves almost of necessities as well as the luxuries in life to accumulate a few thousand dollars, that this mode of living in a good many cases has had a detrimental effect on the moral and intellectual welfare of the following generation. We are not condemning energy and ambition, but it is worth while to spend our lives in banking all! Why not enjoy some of our earnings in making our surroundings pleasant

Life at best is but a few short years, and if we can make it brighter and happier by beautifying our home surroundings, not necessarily expensive but attractive, so that our young people may think that home is the brightest and most pleasant spot on earth, is it not worth while?

Home Decoration

A. Armstrong, *York Co., Ont.*
"What a fine house," said I, as we drove along a pleasant country road in York Co., Ont.
"Yes," said my companion, "a beautiful house, beautiful inside, too, but we are almost afraid to visit there."
"How is that? Seems to me I would like to see the inside of a house like that."

"Well, it is just this way. You hardly dare turn around in there for fear you will knock down some nice little piece of bric-a-brac that is placed just where it is sure to be caught by the swirl of skirts; in your case, of coat tails. The rooms are simply overlaid with little pieces of ornamentation that have been collected here and there."

"Now, there's Mrs. Blank," continued my companion. "She is my ideal of a housekeeper. Everything in her rooms is tastily arranged with an eye to save labor. No useless bric-a-brac around there to catch dust. You can move around with a comfortable sense that you are not endangering property, and there is a new home-like look about her living room that bric-a-brac always spoils."
Nothing more need be said.

Rural Improvement Society

Five years ago in south-eastern Ohio, 20 married ladies formed "The Rural Improvement Society." This society has set out over 500 trees around their homes and along the public roads. Each member sets out one apple tree along the road near her home, where the public can partake freely of its fruit in the years to come. Every lady has given her home a pretty name, which is printed



Attractive Addition to an Old House

The tasteful porch here illustrated was added to the farm home of A. S. Turner and Son, *Westworth Co., Ont.*, after the main portion of the house had been completed. Such a porch adds much to the appearance of the home, especially when ornamented with flowering plants as this one is.

—Photo by an editor of Farm and Dairy.

and beautiful, while we are husband and wife together and have our health and improve our home and enjoy it!

ATTRACTIVE TO THE CHILDREN

Is there any other way that we can invest our money more profitably? Is it one of the greatest problems of the day "How to keep our young people on the farm." We think that if there was a little more time and



A Neat Farmhouse that Speaks for the Good Taste of its Owner

The attractive farm house here illustrated is on the Jas. Alexander farm in Halton Co., Ont., near Milton. The house and grounds are always neat and well cared for. The farm is now owned by A. D. Lamb.

—Photo by an editor of Farm and Dairy.

and placed where it can be seen by the passer-by. The society meets monthly during winter and spring, on a Saturday afternoon.
It is a splendid example for men to follow. Women are often progressive enough to do the voting. Men are sometimes so indifferent as to neglect to vote and fail to perform their duty. Civic pride is related to religion. Privately selected trees, shrubs, and plants along the roadside would cost but a little and be worth much to a community. Why not adorn the school and churchyard with some of nature's ornaments? The result would be better schools and better churches.—Ohio Farmer.

money spent on improvements, both indoors and out, there would be a great many more of the young and rising generation satisfied with their home surroundings, and would not need to look elsewhere for attractions. How many young lives are thrust annually into the temptation of city life by adverse home surroundings on the farm?
Is it wise to delay improvements too long? Shall we wait until our children are grown up and perhaps married, and ourselves too old to enjoy the improvements we might make? Perhaps one of us might be taken then. We would then realize that we have indeed delayed too long.

RAMSAY'S PAINTS
READY MIXED



THE BEST PAINT

is none too good for your home—it is always the most satisfactory and economical. "RAMSAY'S PAINTS" are paints in perfection. Every kind of PAINTS are made to cover a large surface and to withstand the action of the best sun and most severe frost and to retain their bright lustre and good appearance throughout the life of your Paint. Ask your dealer in your town.
A. RAMSAY & SON COMPANY, MONTREAL.



Flies on Your Cattle
Cost You Thousands. Keep Them Off

As an experienced farmer you know how animals suffer from flies. You can keep the animals free from all insects by using

COW COMFORT

The Most Powerful Insect Destroyer
Infectious and efficacious. Has a soothing, lenient effect that hastens the cure of skin affections.

Sold in gallon cans at \$2.00 each, but as the contents of a one-gallon can will dilute four gallons of water it makes the price really six a gallon. Descriptive circular sent on request.

AGENTS WANTED EVERYWHERE
THE SAPHO MFG. COMPANY, LTD. 586 Henri Juliae Ave, Montreal. Formerly Sanguinet St.

HARTSHORN
SHADE ROLLERS
Original art unexcelled.
Wood or metal. Insect's eye requires no painting.
Signature on genuine.
Shaver Hartshorn

Well DRILLING MACHINES
Over 70 sizes and styles, for drilling either deep or shallow wells in any kind of soil or rock. Mounted on wheels or on sills. With engine or horse power. Strong, simple and durable. Any mechanical can operate them easily. Send for catalogue. WILLIAMS BROS., ITHACA, N.Y.

GRAND TRUNK RAILWAY SYSTEM

HOMESEEKERS' AND SETTLERS' EXCURSION

TO
WESTERN CANADA VIA CHICAGO
April 16th, 23rd and 30th

And every Second Tuesday thereafter until Sept. 17th inclusive.
SPECIAL TRAIN WILL LEAVE TORONTO AT 10.35 P.M. ON ABOVE DATES FOR EDMONTON AND POINTS IN MANITOBA AND SASKATCHEWAN, via Chicago and St. Paul, carrying through coaches and Pullman Tourist sleepers.

NO CHANGE OF CARS.
Full particulars from any Grand Trunk Agent, or G. B. McCutcheon, Alberta Government Agent, Palmer House Block, Toronto, Ont.

THE MOST POPULAR ROUTE TO MONTREAL, BUFFALO, NEW YORK, PHILADELPHIA, DETROIT, CHICAGO, via Grand Trunk, the only
DOUBLE TRACK ROUTE.

STEAMSHIP TICKETS ON SALE VIA ALL LINES.

For Tickets and all information, apply to any Grand Trunk Agent.

SYNOPSIS OF CANADIAN NORTH-WEST LAND REGULATIONS

ANY person who is the sole head of a family, or any male over 18 years of age, may homestead a quarter section of available Dominion land in Manitoba, Saskatchewan or Alberta. The applicant must appear in person at the Dominion Lands Agency, or Sub-Agency, for the District Agency, or proxy may be made at any time under certain conditions, by father, mother, son, daughter, brother or sister of the intending homesteader.

Duration—Six months' residence upon and cultivation of the land in each of three years. A homesteader on a farm of one or more acres, or on a farm stipulated by him or by his father, mother, son, daughter, brother or sister.

In certain districts a homesteader in good standing may pre-empt a quarter-section alongside his homestead. Price \$3.00 per acre. Duties—Must reside upon the homestead or pre-empted land in each of three years from the date of grant of survey (including the time required to erect a homestead patent) and cultivate fifty acres extra.

A homesteader who has exhausted his homestead right and cannot obtain a pre-empted quarter-section, may pre-empt a homestead in certain districts. Price \$3.00 per acre. Duties—Must reside six months in each of the three years on the pre-empted acre and erect a house worth \$300.00.

W. W. COFFEY, Deputy of the Minister of Interior.
K. B.—Unauthorized publication of this advertisement will not be paid for.

Bickmore's Gaiture

The old-time remedy for keeping horses in condition. Don't lose the services of your horses worth. Bickmore's Gaiture cures all sore shivers while the horse works. Approved remedy for sore shivers, lameness, swollen joints, and valuable 25-cent horse book sent on request.
WINGATE CHEMICAL CO., Canadian Distrib., 344 Notre Dame St. W., Montreal, Can.

Why?
Not so few of your friends and get them to subscribe to FARM AND DAIRY. Remember, we will mail you all our new subscribers who are you to this helpful, worth-while farmers' paper.

Well, Well!

THIS is a HOME DYE that ANYONE can use

I dyed ALL these DIFFERENT KINDS of Goods with the SAME Dye. I used

DYOLA

ONE DYE FOR ALL KINDS OF GOODS

CLEAN and SIMPLE to Use.
NO chance of making the WRONG Dye for the Goods you wish to color. All colors from your Druggist or Dealer. FREE Color Card and 5 CENTS Booklet. The Johnson-Richardson Co., Limited, Montreal.

WHITE ROCKS, ANCONAS, BLUE ANDALUSIANS.

A limited number of Settings of Eggs from my pure bred and heavy laying strains of the above breeds.

Price, \$1.50 per setting of 15 eggs

W. E. PAKENHAM, NORWOOD, ONT.

Selection of Pictures

C. G. Westover, Oxford Co., Ont.

"Oh, yes, that's my grandfather. The dear old man died when I was just a bit of a girl. That picture on the far wall there is a pretty fair likeness of my husband's Aunt Jane. That little boy there? Why, that's my youngest brother Harry. Isn't he a dear? Really, don't you think it is nice to have pictures of all your relatives around where you can see them every day?"

Well, perhaps it is, but I do not see it so. I find that it doesn't give me a pleasant feeling when calling upon my friends to be escorted into the front best room that is made a picture gallery of all the members of the family dead and living. In fact, it seems to me very poor taste to enumerate all your family relationships to the helpless visitor. Perhaps the fact that I am a mere man makes me unappreciative. There may be advantages in having your dear relatives in sight all the time, but I notice that people who have a reputation for good taste and an eye for beauty have a different class of pictures adorning the walls of their best rooms.

I myself prefer to see subjects of general interest treated in pictures for wall decoration. Pictures in subdued colors are to be preferred. The flaming chromo isn't permissible anywhere. One real good picture on any wall will leave a far better impres-

sion with the visitor than the same amount of money invested in three or four cheaper ones. I would suggest that the next time you visit the most tastefully furnished house in your neighborhood that you make a mental note of the character of the pictures on the walls.

Away with the Back Yard

The back yard, a term usually applied to the space back of the house on the farm, is often the dumping place for all odds and ends from barn, field, and house. If there is a broken down wagon, sled or tool on the farm, it finds a resting-place there and remains there practically for ever, overgrown with weeds and a harboring-place for vermin, or a roosting-place for the fowls, if they are kept in the old "Jim Grouch" way; that means, if they must keep themselves. The coal ashes and kitchen waste get dumped there, and all in all the back yard is often a very uninviting and unsanitary spot.

Let us do away with the back yard. There is no need for "such." If we have tools, wagons, and implements that are past their usefulness, the peddler looking for old iron will give a few cents for them and their re-

SETTLERS' TRAINS

—TO—

MANITOBA, ALBERTA, SASKATCHEWAN

The only through line

LOW COLONIST RATES

For wagon traveling with ^{or without} livestock	Season and families without livestock
Special Trains will save Toronto	Regular Trains Leaving Toronto
Each TUESDAY MARCH and APRIL	10.20 P.M. Daily THROUGH DELORAIN and Tourist Stopovers
10.20 P.M.	

Colonist Cars on all Trains
No charge for Berths
Through Trains Toronto to Winnipeg and West
Ask copy C.P.R. Agent for copy of "Settlers' Guide"

EGGS FOR HATCHING

Pure-bred White Wyandottes, Game Straits, and White Leghorns eggs, \$1.25 per 15. Also a few Pullets and Cockens for breeding purposes at lowest prices.

W. E. PAKENHAM, NORWOOD, ONT.

THIS WASHER MUST PAY FOR ITSELF.

A MAN tried to sell me a horse once. He said it was a fine horse and had a "good" temper with it. I wanted a fine horse, but I didn't know a cent about horses, and I didn't know how much. And I didn't know the man very well either.

So I told him I wanted to try the horse for a month. He said "All right," but two me first, and I'll give you back your money if the horse isn't all right with you. Well, I didn't like that, I was afraid the horse was "at all right" and that I might have to whistle for my money if I once parted with it. So I didn't buy the horse, although I wanted it badly. Now, this set me thinking.

You see I make Wash-Gravities. The "3000 Gravity" Washer.

And I said to myself, lots of people may think about my Washing Machine as I thought about the horse, and about the man who owned it. But I'd never know, because they wouldn't write and tell me. You see I sell my Washing Machines by mail. I have it all without seeing the customer that way. So, though I'm not rich enough to let people try my Washing Machines for a month, I know they pay for them, just as I wanted to try the horse. "Wash-Gravities" Washer will do. I know it will wash the clothes, without me, in less than half the time they can be washed by hand or by any other machine.

I know it will wash a tub full of very dirty clothes in Six Minutes. I know no other machine ever invented can do it without wearing the clothes. Our "3000 Gravity" Washer does this work every day. It is as strong as a strong woman, and it doesn't wear its strength out. It can't break bottoms, it will wash all other machines do.

Just dip the soapy water clear through the fibres of the clothes like a force pump siphon. So, said I to myself, I will do with my "3000 Gravity" Washer what I wanted the man to do with the horse. Only I won't wait for people to ask me. I'll offer first, and I'll make good the offer every time.

Let me show you a "3000 Gravity" Washer on a month's free trial. I'll pay the freight on the machine for you, and if you don't want the machine after you've used it a month, I'll take it back and pay the freight, too. Surely that is bad enough, isn't it?

Doesn't it prove that the "3000 Gravity" Washer must pay all the time it says it is?

And you can pay me out of what it saves for you. A woman saves its whole cost in a few months. It will save 50 to 75 cents a week over that that a woman saves. If you keep the machine after the month's trial, I'll let you pay for it out of what it saves for you. If you don't want it, send me 50 cents a week 'till paid for. I'll give you a check for my money when you return the machine. I'll pay for the freight on the machine to-day, and let me send you a book about the "3000 Gravity" Washer and washes clothes in six minutes.

Address me at this address:

E. C. Bach, Manager 1900 Washer Co., 357 1/2 Yonge St., Toronto, Ont.

Big Ben

Don't set your mind—set Big Ben

Don't bother your head about getting up. Leave it to Big Ben.

You ought to go to sleep at night with a clear brain—untroubled and free from getting up worries. You men, if you are up to date farmers, work with your brains as well as with your hands. Such a little thing as "deciding to get up at a certain time in the morning" and "keeping it on your mind often spoils a needed night's rest and makes a bad "next day." Try Big Ben on your dresser for one week. He makes getting up so easy that the whole day is better.

Big Ben is not the usual alarm. He's a timekeeper; a good, all-purpose clock for every day and all day and for years of service.

He stands seven inches tall. He wears a coat of triple-nickel plated steel. He rings with one long loud ring for 5 minutes straight, or for 10 minutes at intervals of 20 seconds unless you shut him off.

His big, bold figures and hands are easy to read in the dim morning light, his large strong keys are easy to wind. His price, \$3.00, is easy to pay because his advantages are so easy to see. See them at your dealer.

5,000 Canadian dealers have already adopted him. If you cannot find him at your dealer's a money order sent to *Waltham, La. Salt, Ill.*, will bring him to you day charge prepaid.

\$3.00

At Canadian Dealers.



A Unique Lawn Decoration

A feature of old-fashioned gardens and lawns was the sun dial. We no longer need this device to tell the time of day, but the dial is still ornamental, if not useful. This dial was photographed by an editor of Farm and Dairy on the farm of Lady Mackenzie in Victoria Co., Ont.

removal in itself is an advantage. Provide a drain for the kitchen water and if possible let it fertilize the lower garden, while the ashes can be used on the field.

Let us all make up our minds to do away with the back yard and all it implies, and have the front and rear of our farm home equally clean and inviting. Avoid the appearance of a run-down farm and you are on the best way to success in farming. A clean homestead cheers us on to keep on improving, while a dirty yard hampers us and retards our best endeavors.—Rural Life.

Nervous children should never be scolded unless it is absolutely necessary, and should never, under any circumstances, be ridiculed. Such treatment is only likely to make them more nervous, and in these days such a tendency should be specially guarded against.

Dye Big Coat Lawn

Over top price... Colored lawn... Washed... and you get...

OLD FASHIONED DOME

Capable Scotch, Irish maids, etc. Parties arriving. Apply now. The... Monday Street, Montreal.

Have You Money Will Not, Your Protection No Lawyer Salary

RENNIE'S

ARE SUPPLIED TO YOU... FRESH REAGENTS... REAGENTS... W. RENNIE CO.

WHEELERS' PATENT
TRADES
 and handles
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TRADES
 and handles
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TRADES
 and handles
 all

Dyer's Big Cut in Lawn Fence
 One of top pickets, green or white, 2c per foot above price. Scroll top walk gates, to suit \$1.00. Drive gates, \$6.50. I supply fence for every purpose, direct from factory and save you big money. Satisfaction guaranteed or money refunded. Remit money order (any kind) or registered letter.
DYER, The Fence Man, Dept. 1, Toronto

Painted fence, green or white, add 2c per foot above price. Scroll top walk gates, to suit \$1.00. Drive gates, \$6.50. I supply fence for every purpose, direct from factory and save you big money. Satisfaction guaranteed or money refunded. Remit money order (any kind) or registered letter.
DYER, The Fence Man, Dept. 1, Toronto

OLD COUNTRY DOMESTICS
 Capable Scotch, English and Irish maids. Also Danish girls. Parties arriving weekly.
 Apply now, The Guild, 77 Drummond Street, Montreal or 47 Pembroke St., Toronto.

Have You Made Your Will?
 If Not, Your Family is Unprotected
No Lawyer is Necessary

For fifty-five cents you can make your will and be absolutely assured that it is perfectly legal in every respect, and that cannot be broken by anyone, no matter how hard he may try.
 Delay in making your will is an injustice to those whom you wish to be taken care of. The courts are full of will cases. Fill it out according to simple instructions and you may be perfectly sure that it will stand every legal test and cannot be broken under any circumstances.
 So if you wish to assure those who are loved and dependent to you of receiving all that you wish them to have, instead of paying \$5.00 to \$10.00 to a lawyer send one for a **WILL FORM** which includes a specimen will for your guidance. Fill it out according to simple instructions and you may be perfectly sure that it will stand every legal test and cannot be broken under any circumstances.
 Why not send today, now, while it is in your mind. To The **WILL FORM Co.**, Room 3, 735 College St., Toronto.

RENNIE'S SEEDS
 THE BEST OF THE PATCH
 ARE SUPPLIED TO YOU BY THE PATENT HARVESTING MACHINE
 FRESH AND PURE WATER BEAKER
 GOVERNMENT REGISTERED PATENT
 SEED PAGES
 W.M. RENNIE CO. LIMITED
 TORONTO, CANADA

The Virtue of Self Control

Who are the people whom you most admire and whom you feel the happiest and most comfortable? Surely not those who at every small pretext lose control of themselves in feelings, are so unselfish, or whose ungovernable fits of temper, or whose feelings are so unselfish, that you are in mortal terror of wounding them. Yet how many, many people there are who belong to one type or the other. It is certainly a great affliction, for such people are seldom happy. They are usually deep in the depths of despondency, either over the fact that some one has wounded them, or that in a spell of temper they have been too hasty and have said things they much regret.

One of a child's greatest blessings is to possess a calm, quiet mother, a mother who has judgment in teaching the art of self control. This is an impossibility for many women, as many of us realize. Often though, there is back of this temper and sentimentality a physical cause, some bodily derangement that acts on the mind, and makes one just that much more susceptible.

A DUTY TO OTHERS
 But don't you believe that we owe it to our families, our husbands, our children and to ourselves, to do all we can to overcome or cure this trouble? I have in mind a charming friend who has poor health, and no one knows her condition better than she herself does. Yet she does the rarest things, things that, if she ever stopped to think, she knows will completely use her up, and still she does them. Then she pays the penalty by being laid up several days, often paying the doctor more than it would have cost to hire the work done.

Her physical tiredness acts on her mind, so that at all times she is over sensitive, loses all control of herself saying things she regrets almost instantly, making all her friends almost afraid of her and spending sometimes a whole day bathed in tears. She is the kindest hearted woman in the world, ready to overdo for friends. No one ever came to her for help but it was that she was forthcoming. Yet she cannot seem to realize that other people are kindly disposed and not just waiting to hurt her, or impose on her at every opportunity.

EXERCISE COURTESY
 Nor is this an isolated case. There is probably no one of you who does not know at least one or more persons who are similarly afflicted. The woman who loses her temper, who makes a grievous mistake. Her opinion may differ from another's and she may state her position clearly, yet she has sense enough to realize that some one else has a right to her ideas as well as she, and no trace of anger is ever visible. Such are people upon whose judgment you can rely. It is such a comfort, to say of a friend, "She is so sensible, so calm, nothing ever upsets her." And how we long to have this said of us. But long we never accomplish anything. We strive, and strive hard and continually before gaining and holding this enviable goal.
 —Farmer's Review.

Suggestions
 The best method of cleaning a mirror is that of rubbing it with a sponge saturated with weak ammonia spirits, and then sprinkling the surface of the glass with powdered indigo.
 To remove mildew mix soap-suds with powdered starch, half as much salt, and the juice of lemon. Lay this on the part and put the article on the grass day and night until the stain disappears.

SPECIAL PATTERN SERVICE

We realize the great interest that all of our readers take in the new spring styles, and have therefore made arrangements whereby we will be able to give many more patterns in Farm and Dairy than usual during the next few weeks. These will illustrate many of the attractive spring styles. Should you wish patterns other than you see in Farm and Dairy from week to week write us and we'll do our best to get them for you. We will be pleased to receive your orders. Address: Pattern Dept., Farm and Dairy, Peterboro, Ont.

TUCKED FRENCH DRESS, 784

The French dress, or the one that is made with a long waisted body portion, is exceedingly becoming to the little children and together charming. This one is perfectly simple yet dressy in effect and can be made from any of the materials that are worn by the tiny folk.
 For the 4 year size will be required 2½ yards of material, 2½ yards 36, 1¾ yards 44 inches wide with 1¼ yards of insertion and 4½ yards of edging.
 This pattern is cut in sizes for children of 2, 4 and 6 years of age.

BLOUSE OR SHIRT WAIST, 786

The simple shirt waist is one of the necessary garments. This one shows many new features and is eminently attractive. It can be made with gathered fronts and backs or with the fullness in the neck, so that it suits all figures.
 For the medium size will be required 3¼ yards of material, 2½ yards 44 inches wide.
 This pattern is cut in sizes 34, 36, 38 and 40 inch bust measure.

SURPLICE BLOUSE FOR MISSES AND SMALL WOMEN, 784

Such a pretty blouse as this one can be used in so many ways and for so many materials that its possibilities are almost limitless. The edges being straight, the design is especially available for bordered materials, but plain ones always can be trimmed to give a pretty effect.
 For the 16 year size will be required 3¼ yards of bordered material 16 inches wide with 2¼ yard of plain material to make as shown in the view; or 1½ yards of plain material 27 or 36, 1¼ yards 44 inches wide with ¾ yard of allover lace 18 inches wide and ¾ yards of banding to make as shown in the back view.

MEN'S NIGHT SHIRT, 731

The night shirt that is made with an applied yoke over the back is always a good one for means strength where strength is needed. This one can be finished with either a high neck and rolled over collar or with an open neck and band.
 For the medium size will be needed 5¼ yards of material 27, 4½ yards 36 inches wide.
 This pattern is cut in size from 34 to 44 breast.

NIGHT GOWN, 785

Such a night gown as this one is at once graceful and attractive and absolutely simple and easy to make. There are only shoulder and under arm seams to be sewed up and the neck edge can be finished with a high collar or with trimming, as liked.

For the medium size will be required 6¼ yards will be required 27, 4¼ yards with 4¼ inches wide with 1¼ yards of insertion, 4¾ yards of edging to make a wide collar and pointed sleeves, 2½ yards of edging, 1 yard of insertion and 1 yard of banding to make as shown in the collar and with straight sleeves.

This pattern is cut in three sizes, small 34, medium 38 or 40, large 42 or 44 bust.

GIRL'S DRESS, 785

Every suggestion of the double skirt in this exceedingly smart dress for this season shows the effect in an exceptionally attractive manner. In one view it is made all of one material; in the other view it is made of two and it is equally well adapted to both treatments.

For the 12 year size will be required 4¾ yards of material 27, 3¾ yards 36, 3¼ yards 44 inches wide to make of one material throughout; 3½ yards of light colored material 2½ yards 36 or 44 inches wide with 1½ yards of material 27, 1½ yards 36 or 44 inches wide to make as shown in back view.

This pattern is cut in sizes for girls of 10, 12 and 14 years of age.

This pattern is cut in sizes for misses of 14, 16 and 18 years of age.

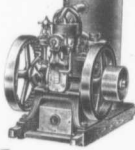
KIMONO WITH SEMI-FITTED BACK, 7375

The kimono that is partly fitted at the back is always a graceful and becoming one. Here is a model that includes that feature and that allows the choice of pointed or straight sleeves.

For the medium size will be required 8½ yards of material 27, 7¼ yards 36, 6 yards 44 inches wide with ½ yards 21 or 27 for the bands.

This pattern is cut in three sizes, small 34 or 36, medium 38 or 40, large 42 or 44 bust.

This Engine Runs on Coal Oil



Every farmer can afford an Ellis Coal Oil Engine. They give far more power from coal oil than other engines do from gasoline. They are safe, as well as cheap; no danger of explosion or fire.

The strongest and simplest farm engine made; only three moving parts; nothing to get out of repair. Anybody can run it without experience. Thousands of well-to-do farmers use these engines to grind feed, fill silos, saw wood, pump thrash, run cream separators, and do dozens of other jobs. Cheaper than horses or hired farm hands; they start at running, and no further attention is necessary; it will run till you stop it.

FREE TRIAL FOR 30 DAYS. You don't have to take our word for it. We'll send an engine anywhere in Canada on Thirty Days' Free Trial. We furnish full instructions for testing on your work. If it does not suit you send it back at our expense. We pay freight and duty to get it to you and we'll pay to get it back if you don't want it. Absolutely guaranteed for 18 years. Write for free catalog and opinions of satisfied users. Special offer in new territory.

5 to 15 horse-power
We pay Duty and Freight

Ellis Engine Co., 90 Mullett Street
DETROIT, MICH.



Breeders of Holstein Cattle



I WISH to draw your attention to the fact that I have at the head of my herd

Prince Hengerveld of the Pontiacs

I gave a pretty fair price for this bull, but he certainly has been worth it.

Next week I hope to show you in this space a picture of this bull from a photo taken for me two weeks ago by an Editor of FARM AND DAIRY.

Prince Hengerveld of the Pontiacs has gotten for me a lot of grand stock. While he is too young, as yet, to have any daughters at an age to be tested, his breeding is such as to guarantee the performance of his get.

He is an excellent individual, straight, deep, good size, has lots of bone and is wonderful in constitution. He is vigorous, possesses quality to a satisfying degree, and he has in a generous measure those characteristics which good Holstein breeders seek to get in a top-notch stock bull.

Several bull calves and heifers from Prince Hengerveld of the Pontiacs and out of choice heavy-milking cows (many with good records) I am offering for sale.

A trip of inspection to my stables will satisfy you that I have the kind of Holsteins you want. Over 100 to choose from.

Plan to come and see my cattle soon and make your choice. You will find them all priced surprisingly reasonable, quality and breeding considered.

The Manor Farm,

Gordon S. Goederham, Proprietor
Bedford Park, : : : : Ontario

WHITE CAP YELLOW DENT Seed Corn For Sale

Guaranteed first-class seed. Price, \$1.25 per bush on cash or check in quantities to suit purchasers. Money must accompany order.

JOHN WALLACE, . . . RUSCOMB, ONT.

Ouvrilla Holstein Herd

Present offering—Bull Calves, five months old and younger, from our great bull, Detlanded Calantha Sir Absacker.

EDMUND LAIDLAW & SONS,
ELGIN COUNTY, AYLMER WEST - ONT.

MARKET REVIEW AND FORECAST

SEEDS

Merchants are doing good at the following prices: No. 1 red clover, 60 cent; standard, \$15; No. 2, \$15; timothy, No. 1, \$9.50 to \$10; No. 2, \$9.50 to \$10; alfalfa, No. 1, \$12.50 to \$15; No. 2, \$12 to \$12.50; alsike, No. 1, \$15; No. 2, \$13.50.

Dealers pay the following prices to farmers: Red clover, No. 1, \$13.50; No. 2, \$12; No. 3, \$11; alsike, No. 1, \$15; No. 2, \$12.50; No. 3, \$10.50; timothy, No. 1, \$9; No. 2, \$7.50; No. 3, \$6.46.

POTATOES AND BEANS

There is no noticeable change in the market for potatoes. Larger receipts of Delaware depressed the market early in the week but prices are again back to the old level. Ontario are mostly \$2.10 to \$2.20 and \$1.90 a bag out of stock. Delaware, \$1.90 and 85 and Old Country potatoes, \$1.90 to \$1.95. At Montreal, supplies are light and prices higher. Grey Mountains are \$1.80 to \$1.90 on truck. Prime beans are quoted here at \$2.80 to \$2.95 and hand picked \$2.70 to \$2.75. Montreal three-pound pickers are \$2.90 to \$3.35.

DAIRY PRODUCE

Butter and cheese factories are rapidly getting into operation and supplies are coming in much more liberally. Dealers, however, are not buying actively in a hand to mouth fashion in expectation of rapid declines of price. Wholesale quotations are as follows: Dairy prices, 25 to 28c; creamery prices, 35c to 36c solids, 1c to 1.2c and inferior, 25c to 32c. Old twins are quoted \$7.14c to \$7.12c and large 15c to \$7.14c. New cheese are quoted at 15c to 16.14c for white and 14c to 15c for large.

HORSES

Better business is doing in horse line, heavy drafters being in particular demand. Western horse buyers are here after these quotations are as follows: Heavy draft, \$175 to \$250; med weight, \$150 to \$300; agricultural, good, \$100 to \$200; fair, \$100 to \$150; delivery horse, \$100 to \$200; drivers \$150 to \$200; saddles \$150 to \$200.

(Continued on page 38)

The Engine That Anyone Can Run

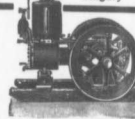
Avoid engine difficulties that only an expert can solve by buying the simple, strong, steady

CHAPMAN & STICKNEY Gasoline Engine

Most dependable, easiest to run, for all farm purposes. Write for our free book about it.

Ontario Wind Engine and Pump Company, Limited

Winnipeg
Toronto
Calgary



Free Barn Plan Service

With BT Sanitary Equipment you get the thing besides your money. To get the plans from your own barn must be provided, properly vented, constructed, up to standard. Good equities will do it. We temers to be thorough with their stable stalls are used; we have gotten out to Build a Dairy!

Fill Out the
You Will Get

The information in this book if supplied, architect, would cost but we go further than plans and information plan to meet your matter what they are building, remodeling, change, whether or the special knowledge and experience of B

The Event of the Season in Ohio's Holstein Circles Decoration Day, Russell's Annual Sale May 30, 1912 100 HEAD — Special Features — 100 HEAD

Every head a female, either officially tested or daughter of an officially tested cow. All absolutely guaranteed without a blemish, and every one a breeder. This is your opportunity to improve your herd or lay a sure foundation for future dairy prosperity.

"From Ohio's Most Reliable Holstein Breeder"

WRITE FOR CATALOG

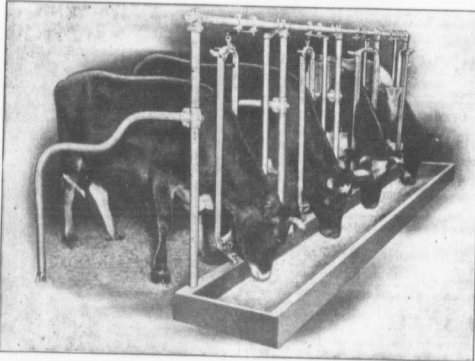
T. H. RUSSELL, Geneva, Ohio, U.S.A.

Less Work—Cleaner Barns—More Milk

Sure By Using BT Steel Stalls

Barn Work Made Easy

It is easy to keep a stable clean that is equipped with BT Steel Stalls. Then there are no clumsy wooden partitions or dark corners to fill up with dirt. The stanchions, being made of tubing, reduce, to a minimum, surfaces for collecting dust. The openness of the steel work allows for free movement of light and air through the stable, and sunlight is the best disinfectant in the world. Steel stalls do not soak up manure as do wooden ones, which is one of the chief causes of the spread of Tuberculosis in cattle. Cows kept in a bright sanitary stable are sure to give more milk.



Protection for Your Cows

THE photos on this page show very clearly the comfort which cows have when tied with BT Stalls. They are perfectly free lying down, standing up, or when eating. Note how nicely the cows are lined up to the gutter. This is only possible when the BT Aligning Device is used, which we have patented.

Cattle Stand Always Clean

Not only will BT Steel Stalls reduce the labor of keeping the stable clean, but owing to our aligning device, by which long, short, or any size cow can be lined up to the gutter, the cows will remain clean, for no droppings will ever fall on the cattle stand. We want to explain this feature to you. We also want to tell you how our managers prevent over-feeding and under-feeding—how our stalls do away with the principal causes of big knees, ruined udders, abortion, and many other cow ailments. You will be rightly interested in the facts and the proofs, which we will send you if you fill out the coupon below and get our free book.

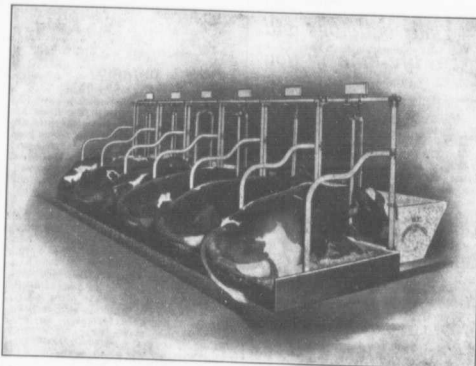
Durability is Important

A stable equipped as above is practically indestructible. You are not troubled year after year with replacing and repairing. Should it ever be necessary to remove the barn, the steel stalls can be knocked out from the cement floor and set up in any other barn without loss.

Danger of Fire Lessened

A stable equipped with steel stalls and a cement floor is in very much less danger of taking fire than a stable equipped with wood stalls and a wood floor. In case of fire cows tied with BT Stanchions can be released in quarter the time necessary to release them from a chain tie. Steel stalls and a cement floor offer absolutely no place for harboring vermin.

Cow Comfort Means Increased Production



"The Swinging Stanchion permits quite as great freedom as could be given by any possible device for tying animals and at the same time do away with the necessity for partitions between cattle other than simple iron pipes or some similar contrivance."—J. H. Grisdale, Dominion Agriculturist.

The Government Uses BT Equipment

Whenever a careful investigation is made into the merits of the different styles of stable equipment BT Stalls are always chosen. The Dominion Government last year built three dairy barns and the different Provincial some twenty odd dairy barns and in every case BT Equipment was used. The largest dairymen in Canada, such as the Price Dairy Co., of Eridale, the City Dairy Co., of Toronto, The Moose Jaw Dairy Co., of Moose Jaw, The Edmonton Dairy Co., and many others use BT Equipment. BT Equipment costs no more than other full information makes. Don't buy until you investigate BT Equipment. The coupon will bring you

Don't think that BT Equipment is too expensive for you. BT Stalls cost no more than other makes of steel stalls and a good steel stall outfit can be installed in your barn as cheaply as the old style wood stall. Why not have the best? By filling out the coupon you will know what it will cost you to fit out your barn with BT Equipment.

FILL OUT THE COUPON AND SEND IT TO US TODAY

BEATTY BROS. Fergus, Ont.

The BT Line also includes Hay Carriers, Forks, Slings, Litter and Seed Carriers and Water Bowls. Mention if you will need any of them

COUPON

Beatty Bros. Fergus 1014 Ont.

Please send me free, as per offer your book, "How To Build a Dairy Barn" and full information about BT Sanitary Barn Equipment.

How many cows have you?

Are you remodeling or building a new barn?

If so, when?

Will you need a litter carrier?

Will you need a hay carrier?

NAME

POST OFFICE

PROVINCE

By filling out carefully the coupon we will know what books and information to send you.

CUT ALONG THIS LINE

The information we will send you may save many dollars and will mean much for the health and comfort of your cows. Are you interested enough in your cows to write us? If so, write to-day.

Fill out the coupon and send it to us to-day.

Free Barn Plan Service

With BT Sanitary Barn Equipment you get something besides your equipment. To get the best results from your cows your barn must be properly planned, properly ventilated and constructed up to a certain standard. Good equipment alone will not do it. We want our customers to be thoroughly satisfied with their stables wherever BT Stalls are used. For this reason we have gotten out our book "How to Build a Dairy Barn."

Fill Out the Coupon and You Will Get It FREE.

The information and plans shown in this book, if supplied by any competent architect, would cost you a large amount, but we go further than supplying general plans and information. We will adapt the plan to meet your specific requirements, no matter what they may be. Whether you are building, remodeling or just making a few changes, whether your barn be large or small, the special knowledge of barn-designing and the wide experience of Beatty Bros. is at your service.

NEW VERMIFUGE.

The best and most effective remedy for bots and other worms in horses. (Guaranteed by the Farmers' Horse Remedy Co., under the Pure Food and Drugs Act, June 30, 1906. Serial No. 3197). It is guaranteed to kill and bring from the body dead in from 18 to 24 hours all pin worms and bots. It is absolutely harmless and can be given to mares in foal before the eighth month. Practical horse owners have written us Newvermifuge has removed between 500 and 800 bots and worms from a single horse. An animal whose stomach is full of worms cannot get fat or help being obstinate. Send your order to-day. Beware of imitations. 5 capsules, \$1.25; 12 capsules, \$2.00. Farmers' Horse Remedy Co., Dept. A, 592 - 7th St., Milwaukee, Wisconsin.

Seed Corn

We have 4,000 bushels of Seed Corn, including varieties grown in Kent County, and cured in our own cribs, which will sell in small quantities - on the cob or shelled. Dent varieties ... \$1.40 per bushel. Flint ... \$1.75 " " Special prices on orders of 10 bushels or more. Terms cash with the order. MONEY REFUNDED IF NOT SATISFIED. **M. W. SHAW & CO.** Jeannette's Creek, Ont.

BREEDER'S DIRECTORY

Cards under this head inserted at the rate of \$4.00 a line per year. No card accepted under two lines nor for less than six months, or 25 insertions during twelve months.

YORKSHIRE PIGS, all ages, either sex. Choice young boars, fit for service.—H. C. Beuhler, Woodstock, Ontario.
HAMPSHIRE PIGS—Canadian Champion herd. Boar here readers. Sows, three months and under.—Hastings Bros., Crossbill, Ont.
CLYDESDALES, Imp. Stallions and Fillies. Fresh Importations always on hand. Every mare guaranteed in foal. J. & J. Sample, Milverton, Ont., and Toronto, Ont.
FOR TAMWORTH SWINE—Write John W. Todd, Corinth, Ont., R.F.D. No. 1.

HOLSTEINS—Young stock, for sale. Sired by Imperial Pauline Defool, whose 15 heifer dams average 22.20 lbs. butter in 7 days.—R. W. Walker, Utica, Ont.
HOLSTEINS AND TAMWORTHS—All ages, also S.O.W. Leghorns. Young stock for sale at any time.—J. McKenzie, Willowsdale, Ontario.
CLYDESDALES—Home of Acme. (Imp.) Holsteins—Home of King Farms Seed Clovers, nearest 7 dams 7 lbs. butter per week, and Broken Welsh Ponies.—E. M. Robby, G.T.B., & P.O. Manchester, Ont., Myrtle C.P.R.

You can build cheaper—Your buildings will look better and will last a life-time if you build with



METALLIC

Proof against Fire, Weather Lightning and Vermin

"Eastlake" Steel Shingles. The best steel shingle made and the cheapest to lay. Has been on roofs for over 25 years and is good as new now.
Metallic Stone and Brick, Steel Siding. Looks exactly like stone or brick yet can be laid easily and quickly by any man. The best building material possible for homes, stores, etc.
Metallic Ceilings and Walls. Makes the most sanitary interior finish possible. Proof against rats, mice and vermin—they last for ever. There is no plaster to fall, therefore no dust—nor paper to put on or take off, there fore no trouble.
Corrugated Iron Siding and Roofing. For barns, sheds, granaries, outbuildings, etc., can be covered at a low cost. No wood sheathing necessary.
Eaves-troughs, Conductor Pipes, Cornices, Ventilators Finala and all Building Accessories. It will pay you to send a postal card to us and let us know your requirements. We shall be pleased to offer you plans and suggestions that will help you.

THE METALLIC ROOFING CO. Limited
MANUFACTURERS
1184 King Street West, TORONTO
BRAN. H. FACTORY, WINDMILLS AGENTS IN PRINCIPAL CITIES

OUR FARMERS' CLUB
Correspondence invited

QUEBEC.
COMPTON CO. QUE.
COMPTON, April 15.—We are having fine sugar weather. Before this, the season has been below the average. If the present favorable weather conditions continue, the prospects are that we will get an average yield of sugar. The roads are in a very bad condition, part wheeling and part sleighing—H. G. C.



A Pure Bred Holstein Heifer with a Worth While Record
Gooda Waukasha Pauline, the Holstein heifer here illustrated, owned by S. A. Gooda, Athens, Ont., has recently made an official test at one year, 10 months and four days of age in 7 days of 38.93 lbs. of milk containing 14.92 lbs. of fat, equivalent to 17.70 lbs. of butter. Producing ability is what counts nowadays. The heifer certainly has this ability.

ONTARIO.
HASTINGS CO. ONT.
CHAPMAN, April 23.—Farmers have just completed sugar making. The fields are still too wet to work. Cheese factories are opening again, with prospects for a good season. Cattle are in good condition and fodder is fairly plentiful. Fall grain crops have stood the winter fairly well. Hay sells for \$14; potatoes, \$1.50, and hogs at \$9.50.—H. S. T.
WELLINGTON CO. ONT.
METZ, April 23.—Cold, backward weather still continues and roads are bad. The farmers are using four horses to haul their produce to market. The spring horse shows are the order of the day. Feed is getting rather scarce and high to buy. The frost being in deep this winter has choked a great many cellar drains, causing the water to stay in them. Hogs are \$9.25; cattle, 7; butter, \$6; hay, \$10; hired help scarce; eggs, \$60; small pigs, \$3.—J. A. S.
OXFORD CO. ONT.
WOODBROCK, April 22.—A few are plowing. A very few are seeding. The land is not in good shape yet. Some are getting very short of feed, and it is very dear to buy. Hay is \$18 to \$20; oats, 60c to 65c; bran, \$27. A great many horses changed hands this week at high prices, some few teams going as high as \$700. Cattle in general are looking well.—A. M. Mel.

NORFOLK CO. ONT.
ERIE VIEW, April 20.—Weather conditions are fine and warm. Roads are becoming passable. Maple sugar is selling at \$1. Fresh dairy cows are giving a good flow of milk where they receive regular rations and plenty of pure water. Feed is scarce and high. Stock came through in good condition, considering the extreme cold winter. Farmers are sowing clover seed. We are anxious to get on land to work.—B. B.
SIMCOE CO. ONT.
ELMVALE, April 19.—The fall wheat and clover are looking well. Both have come through the winter safely, and if the weather for the next week or two proves favorable, root crops may be expected. Fodder was carefully banded through-out the winter, and the supply has been sufficient. A small quantity of hay was baled and shipped from this place. Some also was shipped in. The prevailing price

has been \$16. Potatoes are a scarce commodity, and the price now is from \$12 to \$2 a bag. On the lighter soil west from here spring plowing has begun.—G. G. R.
NIPISSING CO. ONT.
COCHRANE, April 16.—Produce is in good demand. Eggs, 35c; butter, 45c; potatoes, scarce at \$2.50 a bush; wheat, 90c; oats, 82c; hay, \$20. During the past few days a very rapid thaw gave hopes of early operations upon the land, but a thunder storm, a heavy fall of rain and quick fall of the thermometer put us back into the grip of winter. During March 10 hours of sunshine were registered, with



A Pure Bred Holstein Heifer with a Worth While Record
Gooda Waukasha Pauline, the Holstein heifer here illustrated, owned by S. A. Gooda, Athens, Ont., has recently made an official test at one year, 10 months and four days of age in 7 days of 38.93 lbs. of milk containing 14.92 lbs. of fat, equivalent to 17.70 lbs. of butter. Producing ability is what counts nowadays. The heifer certainly has this ability.

highest temperatures 30 deg and low 23 deg below zero. Prevailing wind north-west and west.—E. B. S.
NEW WESTMINSTER DIST. B.C.
CHELLIWACK, April 16.—Spring has opened. The weather is fine. Farms are seeding. Plum and cherry trees are in bloom. The prospects for a good crop are good. Price of eggs, \$60; milk, 40c; potatoes, 35c to 40c. The C.E. through the valley is about completed. J. G.

MERCHANTS PRODUCE CO.
Butter Eggs Poultry Hoes Beans Apples Potatoes, etc.
Our constantly growing trade demands large supplies of choice farm produce. We need you. Write for weekly market letter.
87 Front St. E., Toronto
Established 1899

GASOLINE ENGINES
11 to 50 H.P.
Stationary Mounted and Tractor

WINDMILLS
Grain Grinders, Water Boxes, Steel Saw Frames, Pumps, Tanks, Etc.
GOOLD, SHAPLEY & MUIR CO., LTD.
Brantford Windsor Calgary

HOLSTEIN
LYNDALE
Bull Cows
\$3000
BROWN BROS.
FOREST RIDGE
Head bred by Seth Pierson, average 27.87 lbs. of milk in 7 days, 20 lbs. of butter in 7 days, or 30 lbs. We own Junior 2 of over 30 lbs. butter in 7 days, 20 lbs. of milk in 7 days. Also the butter in 7 days. Males and females, also cow and calf. L. H. LIPSITT, President. Hon. Co. on Pt. R.

FAIRVIEW
Too much more for a poor bull of 1000 lbs. Sold by J. S. G. York, R. R. Apple, Johanna Colantha, head in herd. C. W. E. H. H. DOLLAR

Holsteins 1 Sale Apply to good OTTO SHURRING, J. G.

HOLSTEIN
written: GOR
Homestead Hols
Offers extra good choice cows, color and of one is a son of Butter Baron. Also, 10 choice yearling heifers. B. R. BARR, - HA

High Testing Ly
is now offering the Hamilton Defool, dam, 27.35 lbs. in 7 days, testing 4.3 per cent. He is 2 1/2 years old as Queen Ann Penke 7 days, tested 4.2 per cent. 11 months old. 1 1/2 months old Bull, dam, 26.00 lbs. in 7 days, testing 4.3 per cent. Calves and a few good ones and see their sale. S. LEMON, -

MERT
is now offering a choice lot of Bull Calves, 100 lbs. and over, grandsons of "De Kol" and "De Kool", and out of "Burgers De Kol" grandsons of "De Kool" and "De Kool". Write for catalogue. W. W. GEORGE -

AVONDALE FAR
Yorkshire and f
A. C. HARDY
SERVICE
KING PONTIAC R
King of the Pont
Arling, Ont. Bu
the butter in 30
PRINCE HENRIVE
Prisoners' Head Wood
Prisoners' Head Wood
butter in 7 days; h
ter of Hengerville
Imperial English Y
winning stock, and
Addres all correspo
H. LORNE LOGAN, Man
Advertise in the
you w

HOLSTEINS

LYNDALE HOLSTEINS

Bull Calves from high record cows sold by

\$2000 Bull King Pontiac Artis Canada

BROWN BROS. LYN. ONT.

FOREST RIDGE HOLSTEINS

Headed by the grandly bred King sire Pietierie, whose six nearest dam average 27.7 lbs. butter in seven days. His own 1st dam, whose average better than 30 lbs. in seven days...

Males and females for sale. Write us for that you want or come and see them. L. H. LISPIST, Prop., Stratfordville, Ont.

FAIRVIEW FARM HERD

Too much money is spent every year for poor bulls. Why not buy a good one? Sons of Pontiac Korpen...

E. H. DOLLAR, Heuvelton, N.Y.

Holsteins

I have a Young Bull for Sale, fit for service, from Apply to good milking strain.

OTTO SURREING, SEBRINGVILLE, ONT.

HOLSTEINS

If you are wanting HOL STEINS, say age, color, write.

GORDON H. MANHARD, Manhard, Ont.

Homestead Holstein Stock Farm

Offers Extra good Bulls, fit for service, of every color, color breeding. The sire of one is a son of Pontiac Hermes...

B. R. BARR, - HARRIETSVILLE, ONT.

High Tasting Lyden Holsteins

I am offering the 2-year-old Bull, Lord Lombard, dam Spotted Lady DeKor...

S. LEMON, - LYNDEN, ONT.

MERTON LODGE

is now offering their entire crop choice type, color breeding Holstein Calves...

AVONDALE FARM HOLSTEINS

Yorkshire and Horned Dorsets

A. C. HARDY Proprietor

SERVICE BULLS

KING PONTIAC ARTIS CANADA—Sire, King of the Pontiacs; dam, Pontiac...

PRINCE RENEVOLD PIETJE—Sire,

Prince 2nd's Woodstead Lad; dam, Princess; sire, Duke DeKor...

H. LORNE LOGAN, Manager, Brockville, Ont.

Advertise

in these Reliable Pro- tected columns. It'll pay you well.

OFFICIAL TEST OF HOLSTEINS FOR MARCH

Daisy Gretaui DeKor (9707), at 5y. 6m. 26.40 lbs. fat, equivalent to 29.80 lbs. butter...

Helena DeKor (9601), at 15y. 11m. 7d. age, 16.49 lbs. fat, equivalent to 20.69 lbs. butter...

Fourteen-day record at 15y. 11m. 7d. of age: 21.32 lbs. fat, equivalent to 39.76 lbs. butter...

Glady Mary (10400), at 5y. 1m. 26d. of age: 16.66 lbs. fat, equivalent to 20.06 lbs. butter...

Jennie Belle (6506), at 6y. 10m. 11d. of age: 16.02 lbs. fat, equivalent to 20.02 lbs. butter...

Fourteen-day record at 6y. 10m. 11d. of age: 32.56 lbs. fat, equivalent to 40.71 lbs. butter...

Daisy Beauty Alfareta (9402), at 5y. 9m. 14d. of age: 14.99 lbs. fat, equivalent to 18.62 lbs. butter...

Belle of Whittaker Pride DeKor (12417), at 3y. 10m. 24d. of age: 14.58 lbs. fat, equivalent to 19.22 lbs. butter...

Burkley Kees (6034), at 6y. 10m. 4d. of age: 14.13 lbs. fat, equivalent to 17.66 lbs. butter...

Lily Besz (7271), at 12y. 7m. 25d. of age: 13.91 lbs. fat, equivalent to 17.39 lbs. butter...

Irene Maid DeKor (5656), at 7y. 7m. 13d. of age: 15.66 lbs. fat, equivalent to 17.08 lbs. butter...

Thirty-day record at 7y. 7m. 13d. of age: 55.67 lbs. fat, equivalent to 69.59 lbs. butter...

Horwood Clothide Queen 2nd (8121), at 5y. 7m. 14d. of age: 13.22 lbs. fat, equivalent to 16.42 lbs. butter...

Orville Wayne Swenda (17729), at 10y. 10m. 30d. of age: 13.07 lbs. fat, equivalent to 16.34 lbs. butter...

Patrici Pietierie 1st (9655), at 4y. 6m. 23d. of age: 16.53 lbs. fat, equivalent to 20.39 lbs. butter...

Fourteen-day record at 4y. 6m. 23d. of age: 69.74 lbs. fat, equivalent to 86.30 lbs. butter...

Schalling Straight Wairne (8677), at 4y. 11m. 6d. of age: 16.57 lbs. fat, equivalent to 19.76 lbs. butter...

Fourteen-day record at 4y. 11m. 6d. of age: 32.80 lbs. fat, equivalent to 36.10 lbs. butter...

Laureta DeKor (9145), at 4y. 10m. 25d. of age: 12.77 lbs. fat, equivalent to 15.96 lbs. butter...

Fourteen-day record at 4y. 10m. 25d. of age: 20.10 lbs. fat, equivalent to 25.13 lbs. butter...

Fourteen-day record at 4y. 11m. 8d. of age: 20.10 lbs. fat, equivalent to 25.13 lbs. butter...

Helena Kees (9607), at 3y. 11m. 3d. of age: 20.10 lbs. fat, equivalent to 25.13 lbs. butter...

Fourteen-day record at 3y. 11m. 3d. of age: 20.10 lbs. fat, equivalent to 25.13 lbs. butter...

Woodstead Dorothy D-Kol (11571), at 3y. 6m. 26d. of age: 14.25 lbs. fat, equivalent to 17.80 lbs. butter...

Susan McWhitche (16161), at 3y. 7m. 21d. of age: 14.25 lbs. fat, equivalent to 17.80 lbs. butter...

Thi-tv-dv record at 3y. 7m. 21d. of age: 54.75 lbs. fat, equivalent to 68.44 lbs. butter...

butler; 18.72 lbs. milk. Owned by G. A. Brethen, Norwood, Ont.

Netherland Mottie's Daisy (10136), at 3y. 3m. 2d. of age: 11.57 lbs. fat, equivalent to 15.97 lbs. butter...

Lady Mercedes Johanna (14809), at 4y. 2m. 1d. of age: 13.47 lbs. fat, equivalent to 16.71 lbs. butter...

Archie Anderson's Daisy (17785), at 3y. 2m. 2d. of age: 12.16 lbs. fat, equivalent to 15.30 lbs. butter...

Irene's Marm (1121), at 2m. 20d. of age: 11.77 lbs. fat, equivalent to 14.71 lbs. butter...

Lady Xantha Queen (10560), at 3y. 8m. 13d. of age: 11.33 lbs. fat, equivalent to 14.16 lbs. butter...

Glenwood's Daisy Belle DeKor (11923), at 3y. 4m. 15d. of age: 10 lbs. fat, equivalent to 12.43 lbs. butter...

Bell Una Jesso (10062), at 3y. 9m. of age: 9.69 lbs. fat, equivalent to 12.59 lbs. butter...

Thirtiety record at 2y. 11m. 1d. of age: 31.69 lbs. fat, equivalent to 64.62 lbs. butter...

Forty-day record at 2y. 11m. 1d. of age: 39.25 lbs. fat, equivalent to 39.29 lbs. butter...

Doralie Myrtle DeKor (11273), at 2y. 9m. 25d. of age: 17.51 lbs. fat, equivalent to 17.51 lbs. butter...

Mollie Brighton of Steveston (17425), at 2y. 8m. 6d. of age: 11.59 lbs. fat, equivalent to 16.87 lbs. butter...

Hill-Crest Fencerule Lass (15333), at 1y. 10m. 29d. of age: 12.44 lbs. fat, equivalent to 15.56 lbs. butter...

Thirty record at 1y. 10m. 29d. of age: 51.63 lbs. fat, equivalent to 64.62 lbs. butter...

Mary Nori DeKor (13994), at 2y. 8m. 24d. of age: 11.93 lbs. fat, equivalent to 14.92 lbs. butter...

Lady Bontaje DeKor 2nd (14115), at 2y. 7m. of age: 11.01 lbs. fat, equivalent to 12.76 lbs. butter...

Alexie Posch Verman (16281), at 1y. 11m. 12d. of age: 10.41 lbs. fat, equivalent to 12.67 lbs. butter...

Clainmy Posch DeKor Wairne (15141), at 2y. 8m. 25d. of age: 10.16 lbs. fat, equivalent to 12.70 lbs. butter...

Hill-Crest Sleda Jewel (15356), at 1y. 9m. 23d. of age: 10.16 lbs. fat, equivalent to 12.70 lbs. butter...

WILLOW BANK HOLSTEINS

and now a Daughter of Pontiac Hermes (5442) and now of Imported Danes...

Also a number of young bulls. One nearly ready for service, whose grand sire are John and Fie 4th Lad (2165)...

COLLYER V. ROBINS, RIVERBEND, ONT. Fenwick Station, T.R.B.

HOLSTEINS

Holstein Heifers for Sale

Four Holstein Heifers, one year old, whose sire's dam has an official record of 64 lbs milk and 39 lbs. butter in one week, as a two-year-old.

Having sold all my yearling bulls, I am now going to offer the young son of Dion's 2nd Lad, the Dam of Lulu Keya.

He is 3 weeks old, light in color, straight and well formed. Price \$115.

E. B. MALLORY FRANKFORD - - - - - ONTARIO

LAKEVIEW DAIRY AND STOCK FARM

Present offering, Bull Calves from Record of Performance dams; also a few females.

W. F. BELL, BRITANNIA BAY, ONT. Ottawa Hill Phone.

LAKEVIEW HOLSTEINS

Bull Calves, sired by Dutchland Colantha Sir Mona, and out of heifers sired by Count Hougreveld Fayne DeKor.

E. F. OSLER BRONTE - - - - - ONT.

RIVERVIEW HERD

Offers bull calves from 2 to 10 mos. old, sired by KING TREBLE WALKER, whose 3 nearest dams and sister average 39 lbs. BUTTER IN 7 DAYS and 115.97 lbs. in 30 days from date of calving...

P. J. SALLEY, LACHINE RAPIDS, QUE.

Purebred Registered HOLSTEIN CATTLE

Free for FREE LABORING BODIES Holstein Friesian Assn.-Box 148 Bathurst V.

GREATEST VIEW HOLSTEIN HERD

As I have sold all my yearling bulls, I am offering my spring crop of Bull Calves, sired by Cora DeKor Pietierie's Count, half brother May Echo, the champion R. O. P. cow with nearly 2400 lbs. milk and 180 lbs. butter in 1 year, from large producing dams. Prices moderate. For particulars, apply to

ARCHIBALD PARKS, NAPANEE, ONT.

PENINSULA FARM

Offers for sale three or four Holstein Bulls, fit for service, from E. O. M. and R. O. P. cows.

These bulls are about two-thirds black and all are good ones. Will sell reasonable to make room for the young stock for spring. H. F. PATTERSON, ALFORD JCT., ONT. Bell Phone on Farm.

"LES CHEVAUX FANS" VAUDREUIL, QUE.

HOLSTEINS—Winners in the ring and at the stall. Gold Medal herd at Ottawa Fall.

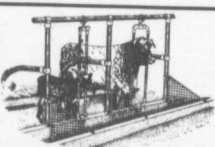
They combine Conformation and Production. Best and Heifer Calves from our winners for sale.

DR. L. de L. HARWOOD, D. BODEN, Prop. Man.

Stable Your Cattle the Superior Way

By so doing you will give them the greatest advantage in producing the maximum amount of milk and produce...

AGENTS WANTED The Superior Barn Equipment Co. FERGUS, CANADA



The Superior the only stallion that you can adjust to tie from your smallest calf to your largest Export steer.

AYRSHIRES

AYRSHIRES AND YORKSHIRES
For sale—High class Ayrshire, all ages, including Calves and Bulls fit for service.

Great Dispersion Sale

Our entire herd of Eighty (80) Pure Bred Ayrshires (R.O.P. cows) will be sold at AUCTION JUNE 19th

Burnside Ayrshires

Winners in the show ring and dairy tests. Animals of both sexes, imported or Canadian bred, for sale.

R. R. NESS, HOWICK, QUE.

AYRSHIRES AND YORKSHIRES

Young Bulls and heifers of good type and pedigree. Also provided Bred, different ages. Orders booked for Spring Calves, Jan. and Feb., 1912, price of both sexes on hand.

ALEX HUME & Co., MENTIE, ONT.

Ayrshires

World's Champion herd for milk and production. Some young bulls and bull calves, all from R.O.P. cows for sale.

WOODSIDE BROS., Tanglewilde Farm, ROTHSAY, ONTARIO

SUNNYSIDE AYRSHIRES.

Imported and home bred are of the choicest breeding of good type and have been selected for production.

J. W. LOGAN, Howick Station, Que. (Phone in house.) 1-61

CHOICE AYRSHIRES

Are bred at "CHERRY BANK" for young bull calves for sale. Write for prices.

P. D. MCARTHUR, North Georgetown N. Howick Station on G. T. Ry. One

Neidpath Ayrshire Bulls

I offer two particularly choice Yearly Bulls from E. of P. dams and grand-dams with high records, and by an Auchincburn bred bull.

W. W. BALLANTYNE

Phone STRATFORD, ONT.

LAKESIDE AYRSHIRES

We have a number of the young bulls of different ages, all sired by our imported bull and the majority of them from dams exported or qualified for the record of performance.

LAKESIDE FARM, PHILIPSBURG, QUE. GEO. H. MONTGOMERY, Prop. 184 St. James St., Montreal

ADVERTISE

In these popular columns, which others find profitable—costs you only 85 cents an inch.

MISCELLANEOUS

JERSEYS GOLDEN FERN LAD STRAIN OF HEAVY PRODUCERS

We have for sale 4 Yearling Bulls ready for service; 4 Yearling Heifers; 4 calves both male and female; and families of all ages.

D. DUNCAN, DON P.O. ONT.

MARKET REVIEW AND FORECAST

(Continued from page 28)

LIVE STOCK

The tone of the cattle market is decidedly strong with prices somewhat higher than a few days ago. During the first days of the week receipts were light. On the final market there was a heavy run of cows and calves, but sustained by the high quality of the offerings and a strong local demand.

The market for hogs is steady and firm in spite of large supplies. Packers are quoting 88 15 to 82 25 f.o.b. country points, which is the highest price this season.

Cattle prices on the Montreal market this last week have shown an improvement, practically all the week previous.

MONTRÉAL HOG MARKET
Montreal, Saturday, April 27.—The supply of live hogs this week was ample.

MONTRÉAL CATTLE MARKET
Montreal, Saturday, April 27.—There was an easier market for cheese this week, and prices in the country were lower.

MONTRÉAL SHEEP AND BUTTER MARKET
Montreal, Saturday, April 27.—There was an easier market for cheese this week, and prices in the country were lower.

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That the sire of the present champion Record of Performance cow was by a bull bred at Neidpath. The sire of the champion cow was by a bull bred at Neidpath; also the champion Record of Performance cow was by a bull bred at Neidpath.

HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the official organ of the Canadian Holstein-Friesian Association, all of whom are readers of the paper.

MR. ALLISON'S DEATH

Holstein breeders all over Canada will have heard with regret of the death of Mr. J. C. Allison, of Choteville and Montreal, who, with his wife and little girl, were victims of the Titanic disaster.

A Little over a year ago Mr. Allison purchased the champion cow, May Bebo, at the Belleville sale for \$1,475.

He owned also the grand cow Nerbergy Queen, also "The Allison, of Choteville and Montreal, who, with his wife and little girl, were victims of the Titanic disaster.

MR. H. F. PATERSON'S HOLSTEINS

She is one of these kind that any good breeder would like to see. Her pedigree is deep, of fine quality and looking to the line of a producer.

MERTON LODGE TAMWORTHS

is now offering registered Tamworths of the choicest breeds and types. Young sows bred to farrow in April.

THE CALEDONIA SPRINGS HOTEL FARM

WANT TO BUY
Young Pigs, 6 weeks old and upward. Stable Bred and Price.

FRANK ALLEN

Caledonia Springs Hotel, CALEDONIA SPRINGS, ONTARIO

sire is Sir Platonic Poach. Being from a De Boer whose dam and sire have official records that average 27 lbs. in a week, and being out of the fine cow, as noted, he is such a bull is anyone might desire to have.

Space does not permit us to say as much as we would like to about Mr. Paterson's cattle. We must conclude with this, merely mentioning the fact that the younger stuff we saw to be of good promise. These including seven two-year-olds recently freshened (two-year-olds only) in August last, Spink's Angus Dairy, made 14 63 lbs. of milk in ten days; she is a daughter of Spink's Angus Dairy.

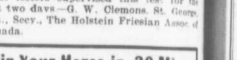
Finland Lindley, 1909, in seven-day test, made 19 22 lbs. milk, she having given 399 5/8 lbs. of milk, testing 3 88 per cent of fat in milk. In yearly work she gave 4 1/2 lbs. milk, going as high as 7 7/8 lbs. in the last two days—4 1/2 lbs. in time to qualify, the butter figuring out to 64 1/2 lbs.

A CANADIAN WORLD'S RECORD
Editor, Farm and Dairy.—The record just received at this office of the Official Test of Pet Cow DeKoi No. 12120, aged 7 years, is most interesting.

She produced 38 83 lbs. fat in seven days, equivalent to 38 8/16 lbs. of milk, or 41 1/2 lbs. Average per cent of fat, 6 4 per cent. Her highest day's milk was 5 86 lbs. and her highest day's milk 70 72 lbs. Two official testers supervised this test for the last two days—G. W. Chubb, St. George, Ont., Secy. The Holstein-Friesian Assoc. of Canada.

Clip Your Horse in 30 Mins

No matter how thick or scraggly the hair THE "BURMAN" HORSE CLIPPER



will clip it in thirty minutes Always ready for use, easy to operate, always dependable. The clipper clean, sharp, and close as you wish.

If you have one already, it won't hurt you to buy another. It will save your time and money. There is no cost in repair or expense.

Comes packed ready for use—clipping plate and shaft long for holding clipping head applied.

Ask your dealer or write direct to B. & S. H. THOMPSON & Co., Ltd. MONTREAL

It is worth your stock like this! It is worth your stock like this! It is worth your stock like this!

It is worth your stock like this! It is worth your stock like this! It is worth your stock like this!

It is worth your stock like this! It is worth your stock like this! It is worth your stock like this!

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It is worth your stock like this! It is worth your stock like this! It is worth your stock like this!

BAILEY'S HO... In a recent letter...

Why ask them to sell or exchange?

Why ask them to sell or exchange? It is a shame to see a bull in a stall or on a lot, when you can get a better one for the same price.

It is a shame to see a bull in a stall or on a lot, when you can get a better one for the same price.

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BAILEY'S HOLSTEIN OFFERING

In a recent letter to Farm and Dairy, W. J. Bailey, Naber, Ont., has the pleasure of showing the Holsteins he is offering at public auction, May 22nd:
Miss Kent Dekol 2nd, 6.34, five years old is nearly all white. She is a very pretty milker. Her official record at three years three months is 408.8 lbs. milk, 12.8 lbs. butter. Sunlight Colantha, 11.30, three years, strong young cow, about half black and white. She should make large records. Her official record at two years 11 days is 429 lbs. milk, 14.75 lbs. milk, 15.4 lbs. butter in one year.
Queen Wilhelmina, 1.21, is one of the best young ones that I am offering. She is a typical Holstein. Her dam, Naber Queen, 3.78, was a beautiful cow, and a splendid milker, giving over 10,000 lbs. milk in six months without forcing, and only a very few days. Her sire, Naber King, 3.78, was a beautiful cow, and a splendid milker, giving over 10,000 lbs. milk in six months without forcing, and only a very few days. Her sire, Naber King, 3.78, was a beautiful cow, and a splendid milker, giving over 10,000 lbs. milk in six months without forcing, and only a very few days.

Fafert Butter Boy, Lily Fafert DeKok, another beautiful heifer, mostly white, will be fresh before the sale. She has a nicely balanced udder, and should be a good milk producer.
Miss Axie Posch Dekol (15687), at 1y 9m 23d. of age; 8.29 lbs. fat, equivalent to 11.62 lbs. butter; 329.5 lbs. milk. Owned by Fred. Abbott, Haverhill, Ont.
Daisy Teake Axie (16565), at 1y 10m 23d. of age; 9.29 lbs. fat, equivalent to 11.61 lbs. butter; 266.9 lbs. milk. Owned by Fred. Abbott, Haverhill, Ont.
Hill-Crest Princess Dekol (15434), at 1y 11m 21d. of age; 8.97 lbs. fat, equivalent to 11.21 lbs. butter; 319.6 lbs. milk. Owned by G. A. Broben, Norwood, Ont.
Fairmount Wayne Posch Dekol (17241), at 2y 4m 17d. of age; 8.84 lbs. fat, equivalent to 11.25 lbs. butter; 326.7 lbs. milk. Owned by T. G. Gregg, Salford, Ont.
Ruth Tekebra (17019), at 2y 3m 7d. of age; 8.33 lbs. fat, equivalent to 10.41 lbs. butter; 243.93 lbs. milk. Owned by Colony Farm, Mt. Coquitlan, B. C.
Maysie Pieterje Teake (15706), at 1y

11m 26d. of age; 8.26 lbs. fat, equivalent to 10.53 lbs. butter; 215.5 lbs. milk. Owned by Fred. Abbott, Haverhill, Ont.
Princess Posch Dekol Wayne (16363), at 2y 3m 6d. of age; 8.34 lbs. fat, equivalent to 10.39 lbs. butter; 283.5 lbs. milk. Owned by T. G. Gregg, Salford, Ont.
Special test made eight months after calving.
Edith Prescott Albina Korndyke (11944), at 3y 4m 2d. of age; 8.8 lbs. fat, equivalent to 11 lbs. butter; 315 lbs. milk. Owned by B. H. Leavens, G. W. Clemons, Secretary.

At a sale of grade Holsteins, held on the farm of Mr. Jas. Stothart, Peterboro County, on April 15, a number of fresh milk cows, ranging in age from four to twelve years, sold from \$37 to \$60. The average about \$50 each. The cows were in poor condition, or would have realized considerably higher prices.

Is it Worth While?

Why ask the question when you have a bull you would like to sell? Exchange and you wonder if you can effect such sale or exchange through advertising?
Recently we met a farmer with a real good Registered Holstein that he must "pass on" somewhere in order to avoid inbreeding. This man was pondering the question, "Would it be worth while to advertise his bull.

It is a shame to send a good bull to the abattoir, and especially so when there is a scarcity of good, well-bred dairy males like him; then, too, this bull is an excellent individual, straight, and in fact, a show animal.

Hundreds of other breeders are in similar positions to this man. Many of them, in all probability, would be glad to get this bull and especially if they could arrange an exchange.

A small ad. in Farm and Dairy in one inch space, costing only 25 cents, would tell 75,000 people of this bull for sale or exchange! It would reach 14,000 possible buyers!

But why carry the argument further?

It is worth while to advertise stock like this! Try advertising that bull of yours, and be convinced you need your advertisement in to us to-night; have it reach Peterboro by Saturday, and we'll have it in Farm and Dairy for you next week.

"The herd is headed by Gano's Favorite Butter Boy, whose dam, Sherwood Gano, gave 15,193 lbs. milk, 2214 lbs. butter in one year. He has proved to be a good stock bull, getting fine vigorous calves. We have not had an opportunity to test any of his daughters as yet, but are satisfied they will be producers. Out of 10 calves dropped during the fall and winter, eight were heifers all sired by Gano. We will also offer him for sale as nearly all the cattle we are saving are sired by him, and we will have very little use for him. We are selling all calves, from six to 11 months old, all nicely made, mostly white and good, straight calves, all from 100 lb. of stock.

"One reason for giving it that we find ourselves overstocked and with inexperienced help."

OFFICIAL TEST OF HOLSTEINS FOR ARCH (Continued from page 39)
291. of age; 9.71 lbs. fat, equivalent to 12.16 lbs. butter; 308.1 lbs. milk. Owned by G. A. Broben, Norwood, Ont.
Colantha Johanna Queen (15853), at 1y 11m 15d. of age; 9.65 lbs. fat, equivalent to 12.06 lbs. butter; 297.5 lbs. milk. Owned by Fred. Abbott, Haverhill, Ont.
Ella Galamity Posch Dekol (14787), at 2y 4m 11d. of age; 9.35 lbs. fat, equivalent



Holsteins 70 Head of Deep Milking Stock of Known and Proven Production WILL BE SOLD AT PUBLIC AUCTION At My Farm, near WESTON, Ont. Thursday, May 23rd, 1912

The offering includes 20 females from Cornelius Posch, 2250, who won First Prize Five Years in Succession at Toronto, also at London.

10 Heifers from Butter Baron, q186. The four nearest dams of this sire averaged 4.4% butter fat. His dam, Queen Butter Baroness, is the 3-year-old Champion of Canada.

30 Cows in milk, nearly every one with big weeks and yearly Official Records, also a few Bull Calves from Butter Baron, and out of cows with good big records.

I have always used the best sires obtainable and have gone after high testing stock. Several of my females average above 4% butter fat. They have records from 10,000 lbs. to 15,000 lbs. as 2-year-olds to 19,000 lbs. milk in one year as mature cows. This is the kind of Holsteins you want for foundation stock or to improve or add to your herd.

Plan to come to my Big Sale, MAY 23rd. Send now for Catalogue. Riggs at Station on day of sale

THOS. HARTLEY, Downsview, Ont. (Two Miles from Weston, Ont.)

11m 26d. of age; 8.26 lbs. fat, equivalent to 10.53 lbs. butter; 215.5 lbs. milk. Owned by Fred. Abbott, Haverhill, Ont.
Princess Posch Dekol Wayne (16363), at 2y 3m 6d. of age; 8.34 lbs. fat, equivalent to 10.39 lbs. butter; 283.5 lbs. milk. Owned by T. G. Gregg, Salford, Ont.
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HS... 10 months... 1y 9m... 2y 3m... 2y 4m... 2y 5m... 3y 1m... 3y 2m... 3y 3m... 3y 4m... 3y 5m... 4y 1m... 4y 2m... 4y 3m... 4y 4m... 4y 5m... 5y 1m... 5y 2m... 5y 3m... 5y 4m... 5y 5m... 6y 1m... 6y 2m... 6y 3m... 6y 4m... 6y 5m... 7y 1m... 7y 2m... 7y 3m... 7y 4m... 7y 5m... 8y 1m... 8y 2m... 8y 3m... 8y 4m... 8y 5m... 9y 1m... 9y 2m... 9y 3m... 9y 4m... 9y 5m... 10y 1m... 10y 2m... 10y 3m... 10y 4m... 10y 5m... 11y 1m... 11y 2m... 11y 3m... 11y 4m... 11y 5m... 12y 1m... 12y 2m... 12y 3m... 12y 4m... 12y 5m... 13y 1m... 13y 2m... 13y 3m... 13y 4m... 13y 5m... 14y 1m... 14y 2m... 14y 3m... 14y 4m... 14y 5m... 15y 1m... 15y 2m... 15y 3m... 15y 4m... 15y 5m... 16y 1m... 16y 2m... 16y 3m... 16y 4m... 16y 5m... 17y 1m... 17y 2m... 17y 3m... 17y 4m... 17y 5m... 18y 1m... 18y 2m... 18y 3m... 18y 4m... 18y 5m... 19y 1m... 19y 2m... 19y 3m... 19y 4m... 19y 5m... 20y 1m... 20y 2m... 20y 3m... 20y 4m... 20y 5m... 21y 1m... 21y 2m... 21y 3m... 21y 4m... 21y 5m... 22y 1m... 22y 2m... 22y 3m... 22y 4m... 22y 5m... 23y 1m... 23y 2m... 23y 3m... 23y 4m... 23y 5m... 24y 1m... 24y 2m... 24y 3m... 24y 4m... 24y 5m... 25y 1m... 25y 2m... 25y 3m... 25y 4m... 25y 5m... 26y 1m... 26y 2m... 26y 3m... 26y 4m... 26y 5m... 27y 1m... 27y 2m... 27y 3m... 27y 4m... 27y 5m... 28y 1m... 28y 2m... 28y 3m... 28y 4m... 28y 5m... 29y 1m... 29y 2m... 29y 3m... 29y 4m... 29y 5m... 30y 1m... 30y 2m... 30y 3m... 30y 4m... 30y 5m... 31y 1m... 31y 2m... 31y 3m... 31y 4m... 31y 5m... 32y 1m... 32y 2m... 32y 3m... 32y 4m... 32y 5m... 33y 1m... 33y 2m... 33y 3m... 33y 4m... 33y 5m... 34y 1m... 34y 2m... 34y 3m... 34y 4m... 34y 5m... 35y 1m... 35y 2m... 35y 3m... 35y 4m... 35y 5m... 36y 1m... 36y 2m... 36y 3m... 36y 4m... 36y 5m... 37y 1m... 37y 2m... 37y 3m... 37y 4m... 37y 5m... 38y 1m... 38y 2m... 38y 3m... 38y 4m... 38y 5m... 39y 1m... 39y 2m... 39y 3m... 39y 4m... 39y 5m... 40y 1m... 40y 2m... 40y 3m... 40y 4m... 40y 5m... 41y 1m... 41y 2m... 41y 3m... 41y 4m... 41y 5m... 42y 1m... 42y 2m... 42y 3m... 42y 4m... 42y 5m... 43y 1m... 43y 2m... 43y 3m... 43y 4m... 43y 5m... 44y 1m... 44y 2m... 44y 3m... 44y 4m... 44y 5m... 45y 1m... 45y 2m... 45y 3m... 45y 4m... 45y 5m... 46y 1m... 46y 2m... 46y 3m... 46y 4m... 46y 5m... 47y 1m... 47y 2m... 47y 3m... 47y 4m... 47y 5m... 48y 1m... 48y 2m... 48y 3m... 48y 4m... 48y 5m... 49y 1m... 49y 2m... 49y 3m... 49y 4m... 49y 5m... 50y 1m... 50y 2m... 50y 3m... 50y 4m... 50y 5m... 51y 1m... 51y 2m... 51y 3m... 51y 4m... 51y 5m... 52y 1m... 52y 2m... 52y 3m... 52y 4m... 52y 5m... 53y 1m... 53y 2m... 53y 3m... 53y 4m... 53y 5m... 54y 1m... 54y 2m... 54y 3m... 54y 4m... 54y 5m... 55y 1m... 55y 2m... 55y 3m... 55y 4m... 55y 5m... 56y 1m... 56y 2m... 56y 3m... 56y 4m... 56y 5m... 57y 1m... 57y 2m... 57y 3m... 57y 4m... 57y 5m... 58y 1m... 58y 2m... 58y 3m... 58y 4m... 58y 5m... 59y 1m... 59y 2m... 59y 3m... 59y 4m... 59y 5m... 60y 1m... 60y 2m... 60y 3m... 60y 4m... 60y 5m... 61y 1m... 61y 2m... 61y 3m... 61y 4m... 61y 5m... 62y 1m... 62y 2m... 62y 3m... 62y 4m... 62y 5m... 63y 1m... 63y 2m... 63y 3m... 63y 4m... 63y 5m... 64y 1m... 64y 2m... 64y 3m... 64y 4m... 64y 5m... 65y 1m... 65y 2m... 65y 3m... 65y 4m... 65y 5m... 66y 1m... 66y 2m... 66y 3m... 66y 4m... 66y 5m... 67y 1m... 67y 2m... 67y 3m... 67y 4m... 67y 5m... 68y 1m... 68y 2m... 68y 3m... 68y 4m... 68y 5m... 69y 1m... 69y 2m... 69y 3m... 69y 4m... 69y 5m... 70y 1m... 70y 2m... 70y 3m... 70y 4m... 70y 5m... 71y 1m... 71y 2m... 71y 3m... 71y 4m... 71y 5m... 72y 1m... 72y 2m... 72y 3m... 72y 4m... 72y 5m... 73y 1m... 73y 2m... 73y 3m... 73y 4m... 73y 5m... 74y 1m... 74y 2m... 74y 3m... 74y 4m... 74y 5m... 75y 1m... 75y 2m... 75y 3m... 75y 4m... 75y 5m... 76y 1m... 76y 2m... 76y 3m... 76y 4m... 76y 5m... 77y 1m... 77y 2m... 77y 3m... 77y 4m... 77y 5m... 78y 1m... 78y 2m... 78y 3m... 78y 4m... 78y 5m... 79y 1m... 79y 2m... 79y 3m... 79y 4m... 79y 5m... 80y 1m... 80y 2m... 80y 3m... 80y 4m... 80y 5m... 81y 1m... 81y 2m... 81y 3m... 81y 4m... 81y 5m... 82y 1m... 82y 2m... 82y 3m... 82y 4m... 82y 5m... 83y 1m... 83y 2m... 83y 3m... 83y 4m... 83y 5m... 84y 1m... 84y 2m... 84y 3m... 84y 4m... 84y 5m... 85y 1m... 85y 2m... 85y 3m... 85y 4m... 85y 5m... 86y 1m... 86y 2m... 86y 3m... 86y 4m... 86y 5m... 87y 1m... 87y 2m... 87y 3m... 87y 4m... 87y 5m... 88y 1m... 88y 2m... 88y 3m... 88y 4m... 88y 5m... 89y 1m... 89y 2m... 89y 3m... 89y 4m... 89y 5m... 90y 1m... 90y 2m... 90y 3m... 90y 4m... 90y 5m... 91y 1m... 91y 2m... 91y 3m... 91y 4m... 91y 5m... 92y 1m... 92y 2m... 92y 3m... 92y 4m... 92y 5m... 93y 1m... 93y 2m... 93y 3m... 93y 4m... 93y 5m... 94y 1m... 94y 2m... 94y 3m... 94y 4m... 94y 5m... 95y 1m... 95y 2m... 95y 3m... 95y 4m... 95y 5m... 96y 1m... 96y 2m... 96y 3m... 96y 4m... 96y 5m... 97y 1m... 97y 2m... 97y 3m... 97y 4m... 97y 5m... 98y 1m... 98y 2m... 98y 3m... 98y 4m... 98y 5m... 99y 1m... 99y 2m... 99y 3m... 99y 4m... 99y 5m... 100y 1m... 100y 2m... 100y 3m... 100y 4m... 100y 5m...

Standard THE RENFREW MACHINERY CO., Limited Head Office and Factory, RENFREW, ONT. Sales Branches, WINNIPEG, MAN., SUSSEX, N. B.

The Makers Build This Machine to Give Lasting Service
There is no cream separator in the world made from finer material than the STANDARD. For instance, the gear spindles are made from a special grade of tool steel, ground and polished—a steel so hard and wear-resistant that tools are made from it for drilling through ordinary steel. This special tool steel costs five times as much as steel ordinary separators use, but the ordinary spindles wear out before one STANDARD spindle.
The STANDARD'S Discs are made of steel, heavily and smoothly tinned. Stand on one and test its strength in

FREE BOOKLETS Ask for booklets giving detailed description of the Standard and records of standard tests.

Order Your POTASH At Once!

As well as your other fertilizer materials from a reliable Dealer or Seedman.

Potash may be obtained in the highly concentrated forms of *Muriate of Potash* and *Sulphate of Potash*.

Sulphate is preferable for Potatoes, Tobacco and Small Fruits, but for other crops *Muriate* should be used as it is the cheaper.

Write us immediately for Free copies of our illustrated Bulletins, which will instruct you in the economical purchase and use of commercial fertilizers. These bulletins include:

"Artificial Fertilizers; Their Nature and Use"

"Fertilizing Orchard and Garden"

"Fertilizing Fodder Crops," etc., etc.

**The German Potash
Syndicate,**

1102-1106 I. O. F. Temple Bldg.
TORONTO, ONT.

Running Water on the Farm

To have a liberal supply of hot and cold water on tap in the house wherever you please, upstairs, downstairs, or in the cellar; to have hydrants in the barn, or stockyards, similar to those in the house yards in town from which water may be drawn for the stock or to which a hose may be attached for washing buggies, sprinkling lawns, or other purposes, is possible under a system which has gradually been finding its way into popular favor. This system has nothing to do with the quality of the water; it is simply a system for delivering water already on the premises in well, cistern, or reservoir. It is proposed by this system to force the water through the pipes by means of compressed air.

JUST LIKE THE CITY

The house is piped in the same manner as if it were in the city and connected to the city mains. If it is desired that hydrants be placed about the yards, barns, or outbuildings, they may be put underground in the same manner as in the city, say four feet deep, to keep them from freezing. If there are flower beds or lawns to be sprinkled, a hose may be attached to one of the hydrants at any time. The same hose may be used for fire purposes. A windmill, gasoline engine, or some such pumping arrangement is necessary at the start. Now, someone will at once say that you can have the supply thus far described by means of an elevated tank in connection with the windmill; so you can, but I believe the compressed air system much better.

An air-tight steel tank is part of the system. This may be placed in the cellar of the house, and may be as large as the owner may choose to purchase. There are manufacturers who make them specially for this purpose.

If a windmill is used for pumping, then the water is forced by the windmill pump through pipes into the steel tank. The pipes are put underground out of reach of frost. Some who have adopted this plan have a gasoline engine attached and ready for use, so that if the air is still, and the windmill fails to pump enough water, the gasoline engine may be used in such an emergency.

Water having been pumped into the

tank and the tank now being partly filled, an air-pump is attached to the tank, having a long lever worked by hand, which is operated for a few minutes. Thus compressed air, under strong pressure, is put into the tank with the water and will force it out to the last drop to any point in the system of piping and to a height within the lifting power of the compressed air.

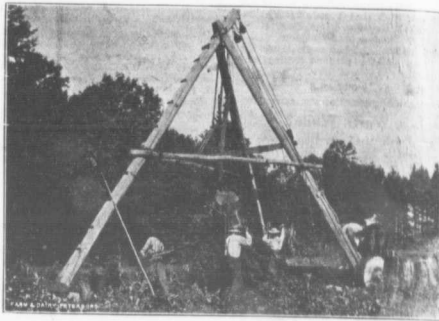
ADVANTAGES OF ELEVATED TANK

There are many disadvantages in the use of the elevated tank, either outdoors or indoors; if outdoors, it gets frozen in cold weather, as will

who can supply these outfits suited to small houses or great buildings.—J. W. Lawrence in Farmers' Review.

Just Dig

An old German on his deathbed called his sons to his bedside to give them his last blessing, and then told them of a treasure hidden in their neglected vineyard. When urged to give the location of this hidden treasure he would only say, "Dig, dig, dig!" They dug the old vineyard from end to end, but found no treasure, and in disgust the older sons



Removing Obstructions to Eliminate Waste and Increase Production

Obstacles and waste places are altogether too common on our average farms. It is a paying business to clear them away. Photo taken by Mr. E. Miller showing a home-made stump puller at work on Mr. Wm. Miller's farm, in Westworth Co., Ont., clearing a piece of "new" land.

also the exposed pipe connected with it. Then there is the likelihood of dead birds, bugs, leaves, dust and rubbish getting in, and in summer the water is apt to get very warm.

The compressed air water supply is free from the objectionable features mentioned above. The water remains at a desirable temperature, winter and summer; is kept perfectly clean in the tank if delivered to it in clean condition. The air in the tank mixes somewhat with the water and helps to aerate it, keeping it sweet and clean. There are now manufacturers

sold their holdings in the vineyard to the youngest brother.

The following spring the growth and general appearance of the old vineyard astonished even strangers, who knew nothing of its previous run-down condition, and when harvest time came such wonderful crops had never been seen or heard of as it yielded. Then the sons knew what their father had meant by a hidden treasure to be found by digging. Moral: "Cultivate, cultivate, cultivate"—the corn crop, the root crop, the alfalfa land, all your land.

Cotton Seed Meal

will put your cows in good condition and make their milk well. One pound of Cotton Seed Meal equals four pounds of bran. It is the cheapest and best concentrated cattle feed on the market. Write for quotation laid down at our station.

G. A. GILLESPIE Peterboro, Ont.

Extra Money

You can earn money in leisure hours, or when you go to town to the blacksmith shop, to the mill, to the cheese factory or creamery, by speaking to your friends and neighbors about Farm and Dairy and getting them to subscribe. We pay a liberal cash commission for each new subscriber you get for us. It'll pay you to get busy on this proposition first time you are out.

THE RURAL PUBLISHING CO.,
Peterboro, Ont.

OUR STANDARD: THE REGAL OVAL OF ORNAMENTAL LAWN FENCE

*Sold Direct
to Consumers
Freight Prepaid
Guaranteed*

Protects and Beautifies the Ground of Mansion or Cottage, Farm House Public Building or Park

The Pickets or Uprights are made of No. 9 heavy galvanized wire, 3 inches apart, and crimped from end to end. The crimping adds great beauty to the fence and increases its elasticity and strength. The Line Wires are two No. 12 wires twisted alternately, giving ample provision for contraction and expansion, necessary to meet any possible extreme climatic conditions of Canada.

SPECIAL FEATURE—Line Wires and Pickets are doubled and solid at the top, adding additional beauty and strength.



This Fence is designed to meet the needs of every man and sold at a price within the reach of every man.

Especially adapted for Lawns, Parks, Cemetery Enclosures and for Division Fences.

The erection of the Regal Fence is a matter of simplicity. Anyone, not a mechanic, can erect it substantially with the tools to be found in and about a home store.

For general purposes we would advise the use of our 42 inch fence.



PRICES—In all cases Freight is Prepaid

36 inches high—8 cents per running foot.
42 inches high—9 cents per running foot.
48 inches high—10 cents per running foot.

NOTICE—These prices are for old Ontario only. For New Ontario, Maritime Provinces and Quebec, add 1 cent per foot. For Manitoba and Saskatchewan, add 3 cents per foot. For Alberta and British Columbia, add 4 cents per foot. This increase over Old Ontario prices is due to the additional freight rates which we pay.

Our Catalog Free—The Regal Fence of Gate Co., Gormia, Ontario

*Artistic
Durable
Inexpensive
Easily Erected*

Utility
In the dispersion of Mr. Hartley's many w... unity to get excellent... tion stock on wher... to improve their pr...

DETAILS OF THE BE...
(Continued from...
Combed by J. A...
Paul Pieterje Qu...
will call, \$245. G. H...
Len Dillon Netherl...
Hompson, Strling...
Flora Verbeke, \$200, J...
Pietje Pe Korndyke...
Ben Reed...
Miss Altha Wayne, \$1...
rary.
Queen Hengerveld, \$120...
edmonton, C. G. A...
Orval Dekol Frontier...
Pieter Pieter Jullis, \$1...
Beverly, Oregon, \$10...
Pieter Burke Pieterje...
Pearl, Monie...
Pieter Pieterje Carol...
rison.
Utrecht Hengerveld...
Pookje Piet Bles 4th...
Combed by B. E. E...
Sadie Korndyke Rook...
Lida Pieterje Korn...
old Banks, Nanapan...
Queen Arlis Korndyke...
Combed by G. A. B...
Orval Dekol Mutan...
Dunlop

THOS. HARTLEY
Continued from
Daisy Jane, 6077,
made 17 1/2 lbs. butter,
and milk 25 lbs. in
one day. As a fo
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which made 19.35 lb
month she gave eve
Temson Pouch De K
this year gave a pou
84 days, and made
Laura Veld, 604
made 17 1/2 lbs. butte
the week, 18.38 per
Winnie Westwood,
made 17 1/2 lbs. of b
and the milk testin
she made 11.50 lbs. a
in 918 months. She
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dairy made 14.6 lbs.
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a walk-down to H
did she make 1.67
of the butter.
Jemima Pieterje, 7
and made 17.77 lbs. b
this year, testing 40
out. In yearly work
she put up 15,084.9
pounds.
Lily Westwood had
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is partly work she ma
she makes up to 100
Schubling Pride 2nd
and 20 days, gave 5
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is expected will be a
throughout the year.
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her, but sufficient
to demonstrate th
has on sale on May
has always used roo
and he has been an
in his testing of th
years since Mr. Hart
purchased, and since
is up to his present
stock of the young
his sale is from that
Pouch, who for five ye
has been testing of
Mr. Hartley bought
his Bette and used
the Bull and Hartle
"Butter Baron,"
Butter Baroness, hav
the butter as a thriv
average of 20 lbs. a
lot. A lot of this stoc
in butter fat, 80
and, it is the best of
of this bull, having a
and being a remarkab
age test 4, and for t
and was champion at
Fair Dairy Test.
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is suited to
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THOM HARTLEY'S HOLSTEINS

(Continued from last week.)

June Jane, 667, as a three-year-old, made 11.7 lbs. butter in seven days, having milked 215 lbs., having an average yield of 3.75. As a four-year-old this cow got still better and gave 484 lbs. milk, which made 19.3 lbs. butter. In nine days she gave over 12,000 lbs. of milk, this producing 546 lbs. butter.

Toson Paoh De Kol, 1266—At two years she made 11 pounds of fat a month for 26 days, and made 13.07 lbs. of milk.

Lara Jewel, 685, as a five-year-old, made 17.6 lbs. butter, having milked 366.49 lbs., testing 43 per cent butter fat.

Wanda Westwood, 3968, four years old, made 17.0 lbs. of butter, having milked 345 lbs. milk testing 3.95. In 10 days she made 11.30 lbs. milk; but only, 345 lbs. in 143 months. She is a heavy, pleasant milker, thus being able to pile up magnificent record in so short a period.

Lady May of the Valley, 3069, in seven days made 15.5 lbs. butter, her average yield per cent of butter fat being 4.2. The test having been conducted by Mr. Wood, who she well known to Holstein men. In 30 days she made 1,467.24 lbs. of milk and 99 lbs. butter.

Janina Pieterje, 7931, as a four-year-old, made 11.7 lbs. butter, having milked 265 lbs., testing on the average 4.56 per cent. In yearly work as a two-year-old she put up 10,894.9 lbs. milk, 421.3 lbs. butter.

Lily Westwood 2nd, 3966; butter, 20.03 lbs. in seven days from 57.76 lbs. milk. In yearly work she made 15,736 in 306 days, she making up to 459.50 lbs. butter.

Schalling Pride 2nd, 12007, at two years old she gave 4.58 lbs. milk testing as high as 4.4 on several occasions, several cows to be expected will average 4.0 per cent throughout the year.

It goes without saying that I might mention many more of the good ones in Mr. Hartley's herd, but sufficient has been given to demonstrate the kind of stuff he will have to sell on May third. Mr. Hartley has always used record bulls on his herd, and he has been an A.I. feeder, so his stock will be excellent buying.

In 15 years since Mr. Hartley bought his first cow, and since then he has worked up to his present fine herd.

Each of the young stuff that will be in this sale is from that old bull Cornelia's blood, who for five years was first at Toronto and second at London.

Mr. Hartley bought this bull from Mr. A. B. Little and used him until he died.

The bull "Hartley" is now using in "Butter Baron"; his dam being Queen Butter Barones, having a record of 23.66 lbs. butter as a three-year-old, and an average test of butter fat over 4 per cent. A lot of this stock runs over 4 per cent in butter fat, one of them being the sire Argyle De Kol, the dam of the sire of this bull, having a record of 27.5 lbs. and being a remarkably high tester, average test 4.3, and for two years in succession was champion at the Guelph Winter Fair Dairy Test.

In the dispersion of this grand herd of Hartley's, many will have the opportunity to get excellent high-testing Holstein stock on which to build a herd, or to improve their present stock.

DETAILS OF THE BELLEVILLE SALE (Continued from last week)

Consisted by J. A. Caskey, Madoc

Paul Pieterje Quind, 1155, May and will sell, \$245, G. H. Wilmet.

Tom Dillon Netherland, \$305, C. W. Johnson, Stirling.

Flora Verelise, \$200, J. J. Wilmet.

Patie Pet Korndyke, \$300, G. A. Gilroy, see Bull.

Mrs. Altha Wayne, \$150, Chas. Barr, Inverary.

Queen Hengerveld, \$100, H. S. Logan, New Glasgow.

Conal DeKor, Pringle, \$150, Jos. Kilgore.

Pearl Pieter Julia, \$175, Chas. Barr.

Pearl Bruce Pieterje, \$150, H. S. Logan.

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Susan Mochthilde, \$230, Lewis Little, Trenton.

Troma Mad DeKol, \$300, H. Smith.

Lady Abbecker Korndyke, \$300, H. S. Logan.

Theresa Johanna Aggie, \$190, J. J. Wilmet, Erie.

Hill-Crest Butter Girl Jessie, \$100, H. S. Logan.

Hill-Crest Princess DeKol, \$155, Jas. A. Stewart, New Glasgow.

Lottie A. DeKol, \$150, H. S. Logan.

Consisted by Wesley Dawson, Nanapan.

Molly Keys, \$170, S. Wallbridge, Ross.

Maud Burkeye, \$165, H. S. Logan.

Lady Mary Burkeye, \$150, Chas. Barr.

Consisted by Jas. Seymour, Bobcaygeon.

Ethel Dixon, \$125, J. B. Dennison, Napanee.

De Kikker Cornucopia, \$170, H. Smith.

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"I tell you, every farmer in Canada should realize the big share a good roof has in making a good barn. That is my life-work—making roofs. I have been making my roof better and better for more than fifty years. What I have done for farm roofs is one of the biggest things ever done for people who farm."



"You ask me why a barn roof is so important. I will tell you. You build a barn and expect the roof to protect it many years. You put thousands of dollars' worth of produce under that roof while it lasts. Every pound of this produce costs you hard work. If a poor roof lets it get spoiled by wet, you lose money year after year. This loss of money is many times the roof cost. Some roofs will last for several years. Some roofs will last if they are kept painted. But a roof is mighty hard to get at. It is not too safe to work on anyhow. Once a roof starts to leak, it is often left as it is. The result is the things you have in your barn spoil. This I lost money, and soon amounts to more than the cost of a good roof."

This Took 50 Years

"You are beginning to see something of the big thing I have done. I have made a low-cost roof that stands terrific cold and heat, that stands tremendous rains, that stands earthquakes. In fifty years, I have had better and better by the metal in it. It seemed impossible to get a metal which would not rust. I had to take the best metal I could get. The design was all right. I had been making that design better for fifty years. At last I struck a clew in Europe."

chemists worked with me to get it. I stuck to it just as carefully as I had stuck to bettering my roof. I had a list. That's the metal I use to-day."

Stands the Arctic
"This roof is so good that the Canadian Government used it for the Arctic expeditions. Here is immense cold and sweeping winds and ice and poor foundations to stand up under. The North West Mounted Police use it. The Canadian Government uses it. My roof stands in a mountain during winter. In Montego Bay, rain falls 10 inches in a single day. My roof stands. In Ontario rain falls 30 inches a whole year. My roof in Jamaica stands in 24 hours the rainfall that stands 4 months for in Ontario. Is that a roof for the first year? It stands the severe conditions in any climate. It is a roof that stands enough for you! You get exactly the same article, made on the same machines."

A Roof for any Man See What a Good Roof Can Do!

"I have spent my life making a low-cost roof that still stands up in the face of the weather. This roof of mine saves the stuff stored under it. It saves the barn framing and beams. It saves the foundation. This roof of mine doesn't need special timbering at all."

MY LATEST TRIUMPH

"Ten, a few years ago, I put my finishing touch that made my roof wonderful. I had been troubled, but I had my roof design, but by the metal in it. It seemed impossible to get a metal which would not rust. I had to take the best metal I could get. The design was all right. I had been making that design better for fifty years. At last I struck a clew in Europe."

You Get the Benefit

"My roof is the only roof in non-rusting iron in it. I am the only man a farmer can come to and say, 'I want a price I would pay for cedar shingles. I am the only man that can deliver that kind of goods.'"

Good for 100 Years
"The big point about my roof is that it cannot develop leaks after you have it done for one year or two. It is a roof from the first year that it is on your barn to the last year. And do you know when that last year will be? You will use that barn and your son will use that barn, and your grandson will use that barn before that 'last year' comes. I want to point the fact home to you that when you get a roof from me, you get a roof that is good for one hundred years. Think of getting a roof that makes your barn good for a hundred years. And that at about the price of an ordinary roof."

Used All Over the World

"Not only that, it goes down to South Africa. Go to the farms there. Go around Fort Elizabeth, or Durban, or any of the farms. You'll see my roof there. People will go around the world for my roof, because it is the best roof in the world. It will last 100 years. People use my roof in Japan after an earthquake country. They get it from me. They have searched the world for a roof that would stand earthquake straining. My roof will."

Get My Barn Book

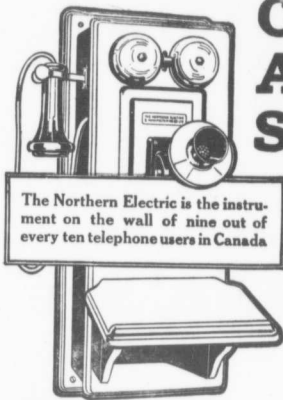
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company, erect your own line, install your own instruments, and operate your own self-maintaining telephone system, just as successfully as the large telephone exchange is operated in the largest cities on the continent.

You Can Organize Your Own Company

YOU don't need to know anything about company organization to start a company among your own friends and neighbors. Our book tells all about both mutual and stock companies and shows you, step by step, just exactly how to go about the matter. It shows you how the procedure differs in the various provinces, what the different governments demand of you and what they will do to help you.

You Can Build Every Foot of Your Own Line

NO expert lineman or superintendent of telephone construction is necessary to build the efficient line that you can put up yourself by merely following the detailed instructions given in this book. Any man who can read and who will follow directions with ordinary sense can build his own telephone line. With the instructions that you can give your neighbors after you have read this book, they can erect every pole, place every cross-arm, string every foot of wire and install every instrument. You can easily realize how this means economical construction.

We Will Guide You In Every Step of Organization and Construction

WE are the largest manufacturers of telephones in the Dominion of Canada. Nine out of every ten telephones in use in the country to-day

have been made in our plant. You can readily understand, therefore, that our experts are the master-minds of telephone construction in the Dominion. It is the knowledge of these men that we place at your disposal—it's their expert advice that will guide you in every step.

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FARMERS throughout the country are just beginning to realize that they can have telephone connections as well as if they lived in the city. They are tremendously interested in the subject. Most of them have been reading it in their farm papers. It is only necessary for some one man to come forward with definite knowledge on the subject to say: "Let's get started!" With the information that our book will give you you can be the man in control of the situation in your community.

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WRITE to us and get this book at once. A self-maintaining telephone system will eventually be started in your community. If the moment is not ripe, the time is fast approaching when it will be, and you owe it to yourself to be informed on the subject. You want the book send us the coupon.

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