Fifth Annual Special Farm Improvement Magazine Number

VOL. XXXII.

NUMBER 19

RURALHOME

PETERBORO, ONT.

MAVO

1913



IMPROVED STABLES ARE PROFITABLE, AS COWS RESPOND TO COMFORT, LIGHT AND AIR Some suggestions for your new stable or for your old stable, which you feel you should remodel, you can get is devoted to window glass. Note the simple manger construction, easily cleaned; also the cement floors. Note, too, and yet how strong it is. The individual water bowls also will attract your attention. The principles of construction can be applied in any stable, be it large or small.

DEVOTED TO

BETTER FARMING AND
GANADIAN GOUNTRY LIFE

EACH WEEK

Only \$1.00 a Year

Two Great Helpers

(2)

For You

Now that you have gotten into the busiest season of seeding and your cows are freshening, you can save yourself greatly and make more money by having the two great helpers we have for you



The favorite everywhere it goes Note its beauty and heavy compact construction, with low-down, hands supply can only 3½ ft. from the floor.

The Large-Capacity "Simplex" Cream Separator The B-L-K Mechanical Milker

Think how nice it would be now when you are so busy to be able to separate your milk in half the time you now do it with an ordinary hand separator!

The large-capacity 1100-lb, "Simplex" Cream Separator, once it is at speed, turns as easy as the 500-lb, machines of most other makes. We will prove this to you. It will pay you to ask us for the facts. Send now for book let describing "Simplex" Large Capacity, low down, easy turning cream separators.

What would you give to be able to free yourself from the drudgery of hand milking, and be able to milk all of your cows (and sery of nand milking, and be able to milk all of your cows (and as many more as you wanted to put in), doing the milking thoroughly and successfully by mechanical means. A B-L-K Milker will milk your cows for you. Outfit costs not so much as you might think. Write for booklet describing it all.

You can send us a rough sketch of your stables, tell us how many cows You can send us a rough sketch of your standard wallable, or will reyou want to milk, say whether or not you have power available, or will reyou want to milk, say whether will be you will be with the power, and WE'LL FURNISH YOU WITH AN ESTIMATE of just what it will be a will be with the control of the power of the will be a quire power, and we LL PURNISH TOU WITH AN ESTIMATE IT THE will be will cost you to put in your stuble a 8-L-K mechanical milker. There will be no obligation on your part to buy. It will interest you to have these facts. It will pay you, as it pays others, to have a 8-L-K milker.

D. Derbyshire @ Co.

Head Office and Works -

BROCKVILLE, ONT.

Branches: PETERBOROUGH, Ont. MONTREAL and QUEBBC, P. Q. WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

MONEY IN POTATO



When it comes to a difference of \$80 an acre on a potato crop, let us take off our hats to the Potato experts.

They can show a practical farmer how to turn an average crop of 120 bushels per acre into a bumper crop of 240 bushels. Simply changing a few old nethods of potato growing does it. In this day of high prices, that means \$128.00 per acre clear profit instead of \$48.00-a difference of \$80.00.



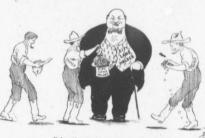
\$128 0 peracre WHICH

The big profit is on the extra bushels because the first cost remains the same. How experts worked it out through years of row experts worked it out through years cexperimenting is told in simple words in our little book "Money in Potatoes." A book full of sound ideas—no theory. Every difficulty you could have in poiato growing is dealt with. Canadian Potate

With this book to refer to you can double your potato crop.

Send in the \$80.00 coupon for a free copy to-day.

Machinery Co. Ltd., Galt, Ont. As a Petate Grower a free copy of your book Money in Potatoes



Value that is given but never returned

PUBLISHERS' DESK

Ever advancing and becoming still better than even before Farm and better than even before Farm and Dairy comes into your home this week carrying an unusually good load of the livest practical ideas on farm, home and government improvement. home and government improvement. You will note the peculiar and great value of every idea berein this issue advanced. It is insert theory. Someone has actually and accomplished these things and accomplished these things and gotten profit from them. The ideals set forth are in every way practical. It is for you to take them as you desire them and work them out in your own case to your ultimate great profit and satisfaction. fit and satisfaction

Advanced Legislative Ideas

It is a positive fact that we in Can-ada have the best governed country in the world, save in one exception, which is that little country of Switzer-land. There are possibilities of greatly improving our opportunities to secure needed and desired legislation in Canada along the lines already adopted in Switzerland. You will get ined in Switzerland. You will get in-formation of great worth and satisfac-tion to you from reading the exposi-tion on the situation which we give this week starting on page 3. The Referen-dum, the Initiative and the Recall are dum, the initiative and the Recall are working great advances in other countries where adopted. In many of the states of the United States to-day they are heralded as great reforms in the interests of the people and of good and better government. You will want to know of these ideas. In the early future we can exideas. In the early future we can expect them to be great questions here in our own Canada.

Our Cartoonist Teaches

It has afforded us pleasure to hear from many of "Our People" as to their interest and delight in our cartoons, appearing weekly in Farm and Dairy. This week our cartoonist cry-stallizes for your conception the idea of how we farmers of the country are helping to swell the wealth of the city land holders. Some day, and it is not far distant, when more of us be-come seized of the necessity for taxation reform our governments will advance and put a stop to the present vance and put a stop to the present evil and have the people get a greater share of the wealth they create. In the meantime Farm and Dairy will continue to inform its readers as best it may to hasten the day when, through taxation reform, all will have an equal opportunity.

A Special Delight

You will be especially delighted with the make-up and general appear-ance of Farm and Dairy, which has been getting better in these regards

many months past. You will like this week even as you have always liked our illustrations. Our engrav-ers recently served notice on us of a ers recently served notice on us or a great advance in the price of the cus from which the illustrations are print-ed. In some cases this advance is as much as 100 per cent over what whave been paying. Notwithstanding have been paying. Notwithstanding this increase we'll continue to give in Farm and Dairy as many as and mor illustrations than usual.

People to Deal With

Again we introduce you to a num ber of new advertisers and to a great number of old friends as advertisen n Farm and Dairy from whom can buy most profitably. You know that the worthless and harmful. the fake and the fraud are each and a excluded from the columns of F and Dairy. We guarantee all advertisers absolutely to you. policy requires that we curtail our venue, often curtailing it by great h But we have no compuncti sums. over this. for we know you apprecia having Farm and Dairy having Farm and Dairy absolute clean, wholesome and reliable,—goe to have come into your home. We are sure that you will ultimately male up to us any loss there may now be you will do this by dealing with or advertisers and in writing them at "I saw your adv. in Farm and Dairy"

See or 'Phone a Friend

You can help us too reatly as so pass on a good thing and ship also pass on a good thing and sha your good fortune with a friend a neighbor by seeing him or 'phona' him about taking Farm and Dairy Will you do this now? Thank you You know we stand ready to reway you amply for your service in this a gard.

Next

Now you can anticipate anods Farm and Dairy Special soon to be issued, Our Great Farm Machine issued. Our Great Farm Machine No. (5th Annual), out June ži Advertisers and all friends kindly uk notice! It will be well to have yet copy in early. The Machinery is will reflect the newest and most up-date. machinery for farm purpos My, how much we farmers owe tode My, how much we farmers owe tode over now thing machinery! You can even now thing machinery! You for for you June 5th

Many farms in Canada will asst a new appearance this year becautheir owners attended the shor courses at the various agriculture colleges.

Neglect of small things has drive many a farmer on the rocks. For instance: A few cows in the better that don't pay their way; a few missing hills of corn in each row; and team of herses around long past the days of efficiency. These things a few that the complete constitution of the c Neglect of small things has drive eat into profits.

Issue Each W

Vel. XXXX

THAT : erial is n by the farmer answer is been It is a those influence largely contro farm.

Every time t of the country tighten, by m suggested and their grip on common people added facilities by the big int difficulty on the er to obtain o such banking a require.

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form of governm tariff favors to se called struggling i being required to resultant taxes. When, also, it i out consulting th cash either to buy hone it means the are expected to re uld be sufficient sting \$1,000 eac roughout Canada ild 35,000 miles

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Transactions of

81,000 a mile.



Vel. XXXII.

FOR WEEK ENDING MAY 8, 1913

No. 19

Legislative Reforms that Would Give 7HAT improvement in mat-Sarmers More Power By H. B. Cowan, Editor-in-Ohief of Farm and Dairy erial or social conditions is needed most urgently by the farmers of Canada? The

To Improve Farm Conditions, Politicians Should Bave Less power and the people More Simple ways in which these Improvements may be Obtained—bow they have Worked Elsewhere.

A Public Benefactor who Receives Scant Courtesy from the State

A rubine benefactor wine receives Jeant Courses from the State
These splendid buildings on the farm of M. Hill. Wm. Hill. Huron Co., Ont., are a distinct
addition to the community in which Mr. Hill Vm. Hill. Huron Co., Ont., are a distinct
addition to the community in which Mr. Hill Vm. Hill. The receiving race employment
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such banking advances as he may require. Each occasion on which a million or two acres of land, with possibly a paltry few million dollars in cash thrown in extra on the side, are handed out by the Dominion or provincial governments, or by both, enterprising railway promoters who may have already grown rich at the country's expense, it means that the farmer's taxes are in due time increased.

answer is becoming clearer every

day. It is a greater control over

those influences off the farm which

largely control conditions on the

Every time the banking interests

of the country are permitted to

tighten, by means of legislation

suggested and proposed by them,

their grip on the savings of the

common people, it is apt to mean

added facilities for doing business

by the big interests and greater difficulty on the part of the farm-

er to obtain on reasonable terms

Whenever a few million dollars are passed around in the form of government bonuses or

fariff favors to some lusty and vigorous but sosalled struggling industry it results in the farmer being required to contribute his share of the resultant taxes.

When, also, it is proposed to give away, without consulting the people, some \$35,000,000 in cash either to buy warships abroad or build them at acne it means that the farmers of the country are expected to raise their share of a tax that ould be sufficient to supply neat schoolhouses, sting \$1,000 each, in 35,000 school sections roughout Canada or that would be enough to build 35,000 miles of stone roads at a cost of \$1,000 a mile.

Transactions of this character are piling up ch burdens on the residents of the farm while centrating immense industrial enterprizes in towns and cities that there is little need to nder why rural depopulation proceeds apace. But this is not all! In spite of all the farmer asked to contribute for the upbuilding of the sountry he is bled white as a reward for his generty. The great railway corporations charge excessiv, prices for handling most of the ods he both buys and sells. They then escape h a rate of taxation that is ridiculously below

taxes the farmer has to pay on his land and

below what they pay in adjoining sections of country, such as the northern states. Should farmers have the temerity to ask that this burden of taxation be more equitably adjusted they invariably find their representatives in the Legislature much too busily occupied with other apparently more pressing matters.

When trusts and combines, in one form or another, secure control of the handling of the articles that we buy or sell, and we begin to look for some means of relief from the conditions that confront us, our helplessness is soon brought home to us. Powerful influences which we may feel but cannot see, are soon at work to thwart our best endeavors.

POLITICAL PARTIES UNDEPENDABLE

What then are we to do? One thing is certain: The sooner we cease looking for relief to political parties and learn to depend upon our own efforts the more speedily will improved conditions arrive. Long experience has demonstrated that there is little to choose between one political party and the other. Each is about as good and as defective as the other. Both are more concerned, as a whole, on getting into or remaining in power than they are in advancing the interests of the farmer. Between the two of them they generally succeed

in so mixing things up that the rank and file of our farmers are apt to find it hard to tell what they do want.

TWO SIMPLE REMEDIES

After all, however, conditions are not so impossible of improvement as they may seem. There are two simple remedies which we should be able to obtain as soon as we make up our minds that we want them and are willing to work for them. These remedies are what are commonly known as the "Initiative" and the "referendum." Both reforms have received the hearty approval of the three great farmers' organizations in Western Canada as well as of the Dominion Grange in Eastern Canada.

THE REFERENDUM

The Referendum is the right of a certain number of duly qualified voters - generally five per cent., where it is in operation - to demand of the Legislature-or House of Commons-the submission to the people for final approval or rejection of any law or laws which the legislature may pass. This has the effect of making the people the final arbiters of the laws to which they shall submit and under which the country shall be governed and its public institutions maintained

and regulated. The Referendum also provides for the voluntary submission to the people by the legislature of proposed laws which may originate with the legislature but for which its members may be unwilling to assume the responsibility.

THE INITIATIVE The Initiative is the right of a certain number of the duly qualified voters—usually eight per cent., to propose a law for petition. This proposed law and petition is sent to the legislatureor House of Commons-and may be enacted according to the ordinary course of procedure.

If the members of the legislature do not see fit to do this it is obligatory upon them to submit it to the people to be voted upon not later than the next general election. If it is passed by a majority vote of the people it becomes law upon being signed by the Lieutenant-Governor.

It is not necessary, if the legislature should decide that the matter is urgent and of such nature that it is not willing to assume the responsibility of passing it, to delay the submission of any law proposed under Initiative Petition until the next general election. The legislature can order a special general election to pass upon such proposed law upon giving full 90 days' notice

(Continued on page 31)

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Practical Ideas on Farm Improvement

Cheap Money Before Improvements A. Shammel, Hastings Co., Ont.

Our section is no better than many other farming sections of Eastern Ontario. It is just an average good section. We have a lot of improvements on our farms. We need a lot more. Right in my own neighborhood I can put my finger on at least a dosen men who are talking silo and would build this summer if the money were available. A few there are who are dead auxious to get into Holsteins. These same men have needed these same improvements for several years now. They would have them right away if they could get money at a reasonable rate of interest,

They can't get it from the bank. In spite of the opinion expressed by Mr. Macdonald of Carleton county and "A Farmer in Debt," in recent issues of Farm and Dairy, that all that is necessary is the cultivating of the friendship of one's banker and then leans will come freely, I know that this is not so. In fact, our local banker are successful to the country is not to accommodate farmers with small leans, but they are more in the nature of a sponge to draw in all the loose cash of the country and then take it to the big centres where it can be leaned in large amounts and with some advantage to the bank.

BE OUR OWN BANKERS

My proposal is that we handle the cash of the community ourselves through our own cooperative banks. I have not looked into this system very extensively, but I understand that in the older lands the farmers of a community will get together in a cooperative credit society. They accept deposits from all the people in the community and then loan it out at low rates to the people of the community for productive enterprises and on the approval of all the shareholders in the bank. In this way the money of the community is used for the benefit of the community and is not carried off to the large centres as it now is. I do not know whether or not the Canadian law allows the formation of such credit banks, but if it does not, it is time that the Canadian law was being changed.

What an improvement we would soon see in this community if we could arrange some system of cheap credit. This old section of ours would take on a new appearance altogether. We would have our new silos, new stables and pure bred stock forthwith. I believe that cheap credit lies at the basis of farm improvement.

The Value of Wind Breaks A. Perkins, Halton Co., Ont.

One of the first moves we made when we came to Halton county 25 years ago was to plant trees; not a few here and there in front of the house but a regular grove of them all around the buildings. We never had greater cause to be

thankful for this move than on Good Friday of

"Isn't this an awful wind? I am afraid our barn roof is going to go," said one neighbor over the 'phone. "Our wood shed has already gone," mourned another; and so our neighbors told of the disasters amall and great that were overtaking them. Pretty soon they were left alone with their troubles for the 'phone lines were down too. Our district suffered no worse than others, but there was hardly a neighbor that did not have some damage done by the wind.

We felt no discomfort whatever and the idea of having our property damaged never entered our heads. There was quite a breeze around the barnyard, but nothing very exceptional. On ordinary windy days the stock can move around



A Study in Undesirable Fence Construction

our yard without any discomfort. Such is the value of a wind break.

Our wind break is compased largely of maple and Norway Spruce. The Norway Spruce is the best tree for a wind break, especially in winter, but the maple we consider more beautiful and the trees are now a sufficient size to be tapped, thus providing us with all the maple syrup we can use and some for sale. To say nothing about the value as a home beautifier, our wind break has proven itself of dollars and cents value.



An Ideal Farm Fence

Both of the fences illustrated on this page are on the farm of M. H. Snowden, Peterboro Co., Ont. In an adjoining article the good and bad points of these two styles of fencing are enumerated by the photographer.

Two Peterboro County Fences F. E. Ellis, Peterboro Co., Ont.

On the same farm last summer I saw two different styles of fences that represented to me the very worst and the very best in fence building

I took photographs of both of these fences as from the illustrations given herewith readers. Farm and Dairy may judge for themselve whether or not my conclusion as to their used whether or not my conclusion as to their used whether or not my conclusion as to their used whether or not my conclusion as to their used whether or not make rail fence has man weaknesses. It takes up a lot of valuable had it affords a breeding place for weeds, or if the weeds are not allowed to grow, it entails an in mense amount of hand labor cleaning out the fence corners. Likewise, the corners of a rafence afford such a convenient place for dumping the such as the fence corners usually constituted the dumping place on the farm. Particularly a this true on a stony farm. And above all, the rail fence is decidedly unsightly.

Note what an improvement is the wire fees with trees for fence posts. Here we have a fers that affords no harbor for weeds, that wastess land, that does not cause the snow to drift winter and that to the eye, is most pleasing Now-a-days the wire fence too is the cheapest build. These two fences are both on the fan of Mr. M. H. Snowden, Peterboro Co., Ont.

The Soil the Basis of Prosperity S. McDonald, Montreal, Que.

Eight years ago a young man and his brimoved onto a wormout 100-acre farm in my becounty in Ontario. The buildings were dilapated, the fences were down, the soil fertility apparently exhausted and weeds had full severywhere. The neighbors smiled and gave my young fellow a couple of years to go + the zi young fellow a couple of years to go + the xi young had the worm and the worm of the property of the property

I visited that same farm three Yurs ago I to-date buildings had replaced the old, wire fewere in evidence everywhere and the crops mamong the best I have ever seen. In the pass was a highly productive and valuable herd Holstein cattle. The proprietor, still a year man, told me that in addition he had a cop of thousands of dollars ahead of him in a bank. How did this change came about?

This farmer believed that the basis of all a cultural prosperity lies in the proper man ment of the soil. His first act was to divide farm into four fields of 25 acres each. He star a four-year rotation of corn, mixed grains, c hay and pasture. Everything grown on the plant of the pla was fed on the place and the manure return to the soil. As he gradually got about him good cows he started to buy a little feed thus he added to the soil fertility. The most down farm providing the soil was fairly naturally could not long hold out against t ment such as this. Crop rotation made that! and its owner rich. This is my idea of farm provement, to start with the soil first. young man in question is too modest to me to mention his name, but the facts as gi are absolutely correct.

A cooperating community is a progressing of munity. Here it is that the benefits of a cooptive selling society has much greater value if district than the financial one. U am re Ontario A ing when wanted us quickly could pain around to stration. do the won attached to a long rod and a pain uppermost learned tha

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An Eye-Opener in Time Saving By an Old O. A. C. Student

I am reminded of an eye-opener I got at the Ontario Agricu tural College one Saturday morning when President Greelman told us boys that he

wanted us to see haw easily and quickly the College painter could paint a barn. We went around to witness the demonstration. The man who was to do the work had a small pump attached to a can, and from it a long rod attached with hose and a painting nozzle on the uppermost end. I afterwards learned that this outfit was called a "Sprapainter."

When all was ready, the cold water paint having been mixed up and placed in the can, one man worked the pump and another manipulated the rod and

nozzle. After a liberal space had been covered with the application a white-wash brush on the end of a bamboo pole was speedily mopped up and down over the application to make sure of even and good finish.

It surprised us greatly how quickly the work was accomplished. I have watched that building each year for several years since. The job seems to have worn well.

Now Mr. Editor, I have sent this letter to you in response to your request recently in Farm and Dairy that your readers send in practical ideas on

farm improvement to be published in your Farm Improvement Number. I trust you will consider this worthy although, for obvious reasons, I would rather not sign my name to it.

What Scales Will Do

"A year ago that heifer was worth \$225. To-day I am setting \$3,000 on her. Such is the result of testing." So spoke Wm. E. Mason, Tyrrell, Ont., to an editor of Farm and Dairy as we stood looking at his world's champion two-year-old heifer. Could anything have returned

greater dividends than that \$2 or \$3 that Mr. Mason invested in a set of balances. He might have gone on for years selling extraordinary cows at ordinary prices, but a set of scales in the stable set him right and added more than a year's income to the value of one cow.

Returning from the sale of Mr. Wilbur Prouse on March 21st last, an editor of Farm and Dairy dropped into conversation with another attendant at the sale and discovered that he was the breeder of De Kol Mutual Countess, world's champion senior three-year-old heifer. He admitted that

PARM AND DAIRY

he had lost on that one animal hundreds of dollars through not testing. He had parted with Countess, not knowing that he had in her a phenomenal producer. He also parted with her mother, a phenomenal producer. The purchaser of these two cows, Mr. G. A. Brethen, Norwood, Ont., did



Income Producers of a High Order as Seen in Lanark It is several years now since 60e. Robertson of lanark Co. Ont., decided that he would depend on the pure bred sire to give him the water income. His herd has been improving ever since. See the splendid cows that when Max. What Mr. Robertson has done, the rest of us can 60.

believe in testing, and now, after one year's work, values the two at almost 10 times the price he paid for them. Another very profitable return from a very small investment in milk scales.

Having told our tale let us draw a moral. The first improvement needed in the non-testing dairyman's stable is a set of milk balances.

Summer Soiling at Bonnie Brae Farm

G. D. Mode, Prescott Co., Ont.

It does not take me long to describe my system

From No Crop to 60 Bushels an Acre

W. B., Oxford Co., Ont.

Two years ago we harvested 60 bushels of oats to the acre from a 10-acre field on our farm. Last year the same field yielded us 35 tons of clover

hay, to say nothing about aftergrass. When we moved to this farm 15 years ago, that field was poor swamp pasture, and never yielded any crop worth mentioning. In fact, Hungarian grass was about the only thing that would grow on it. What makes the difference? It is underdrains.

We were not as well off financially then as now, and money was only expended after we felt perfectly certain that it would come back to us and that right quickly. We decided that a few drains in that field would be as

good an investment as we could make. The system of drains that we installed was incomplete, and probably an expert drainage engineer would have smiled at our crude attempt; but it did the work. We ran a four-inch tile through the lowest portion of the field and two or three through the swampiest portion not drained by the main tile. The results were wonderful. The same year that we tile drained we were able to plow the land and get it in shape for fall wheat, which was a bumper crop the next season. We have grown great crops ever since.

And now for returns. Labor was cheap when we installed these under drains, and the entire cost was not more than \$40 or \$50. We have had good crops for 15 years. Our oat crop two years ago at 40 cents a bushel was worth \$250, or almost five times the original cost of the tiles. That 35 tons of clover :t \$8 comes to \$280; our principal back more than five times or; in one year.

This case is exceptional have not gotten as outstanding result from fields since drained; but in no case have I had to

wait more than two years for a return of both principal and interest. There are many fields in this country that would return just as great a profit from tile drainage as my 10-acre field. 1 am convinced that there are no fields the least inclined to be wet that will not return a profit on the tile drainage improvement.

Oxford county itself is a standing advertisement to the benefits of tile drainage. I can remember the time when large areas here, now in fine dairy farms, were one continuous swamp, the home of mosquitoes and muskrats.



Farm Improvement on a Large Scale as Seen in Noval Scotia fere may be seen the fine homestead of Heotor Cutten, Colchester Co. N S. one of Farm and Dairy's Eastern readers. None of the buildings are new, They show what can be done with old buildings are greated to the control of the buildings are seen that the control of the control

of summer feeding dairy cattle. It is almost all compassed by the one word, corn. I feed corn in some stage all the year round. I feed ensilage until the corn is matured enough to make good feed, and when the fall corn is cut and in the silo the cows get ensilage again. I also feed some grain right through the summer.

I never let my cows go down in their milk or in flesh either. I believe there is no other rough feed to compare with ensilage for dairy cattle for summer feeding. I also plan to have an abundant supply of alfalfa and clover after grass.



Improved Horse Flesh as seen in the Most Popular Class at the Gait Herse Show,—the Agricultural Teams



Suggestions on Coun= try Road Problem

Good Roads and Good Living

John McLaren, Hastings Co., Ont.

The good roads problem is nearer my heart than ever it was before. Like most men who live in a section where there is an abundance of gravel I always thought that good roads just came naturally. I had no conception of just how bad roads could be until this spring when I took a trip down into Oxford county to attend the Holstein sale of Mr. Wilbur Prouse on March 21st. In that one day I had an experience that showed me what impassable barriers bad roads are, not only to traffic, but to the social life of country people, to business and to the education of the young.

I had my first revelation when I went around to the livery stable. The livery man told me that I would have my troubles getting to Prouse's. "People do not travel much now-a-days," said he. "The roads are too bad." By the time I had spent an hour and a half trying to get a willing horse through four and one-half miles of the worst road I ever saw I decided that I wouldn't travel much either if I lived in that country. Not that the country wasn't good. It was about the best I ever saw. But preserve me from those roads.

These people were encompassed by an almost impassable sea of mud. They told me it had been so all last winter. They admitted that they didn't get out to church as much as they otherwise would. Likewise, that social entertainments were not as popular as they would have been had they had good roads. Hence they had started a stay-at-home habit—a habit largely accountable for the monotony ascribed to country life. Some of them told me also that business was neglected, and I can well believe that too. I knew without being told that the marketing of farm produce cost just about twice as much in the spring of the



The Other Extreme in Country Roads Scenes such as this are not uncommon in rural Ontario. Editors of Farm and Dairy have photographed doesns of reads just as had as this one in their transportation of the big special and the problems are almost every sense of the big problems facing almost every community.—the good roads problem

year as in the middle of July when the roads are dry. I doubt if a good two-horse team could have hauled three-quarters of a ton that day.

I have been asked by the editor of Farm and Dairy to give my ideas on the most needed farm improvement. I have done so. I would suggest good roads.

A User of the Drag W. J. Cox, Peterboro Co., Ont.

An editor of Farm and Dairy who rode out to my farm recently to photograph a young horse was much surprised to find the long lane running



On One of the Best Roads of Ontario This illustration is from a photograph taken by as editor of Farm and Dairy on the stone road between Cheelph and Hamilton at a time of year when other and Dairy on the stone road between the photograph of the

up to my buildings to be in as good condition for wheeling as a well kept city street. Perhaps a well graded, dry and hard farm lane is an exception and I will tell Farm and Dairy readers how mine happens to be as good as it is.

Over a year ago I took a trip to the farm of Smith and Richardson, Columbus, Ont., to buy a pure bred Clydesdale. The same condition that attracted the editor of Farm and Dairy on my farm attracted me on theirs. The lanes and surrounding roads were in good shape, although the soil was as unpromising road making material as one could well imagine. They explained to me that they used a splitlog drag regularly. I was no sooner home than I had constructed a drag of my own along the lines often advocated in farm papers and last fall set to work to get my jane in shape. Immediately this spring the drag was started again and the result is a hard dry road that will keep in good condition under any ordinary farm traffic. I can recommend the drag to every farmer who prefers good lanes and passable roads to the impassable variety that is much too common.

Automobiles and Road Maintenance

Jno. McCurdy, Hastings Co., Ont.

The problem of improving our country roads is ever growing in complexity. Ten years ago the macadam road was regarded as almost a perfect form of highway. I am told that now macadam highways in France that have been rendering good service for 100 years, are being quickly reduced to uselessness through the action of automobiles. The macadam road is made of large pieces of rock held together by rock dust. Steel tires, by wearing down the surface of the road, are continually adding to this dust. The effect, however, of the broad rubber tire of the automobile is to suck the dust away from the surface of the road and it is blown over the adjoining fields to the detriment of pastures and crops. Hence the macadam road is almost a thing of the

The only road that will continue serviceable now-a-days is the cement or brick road. These roads, however, are immensely costly in the first

place, although in the long run they may be economical These very costly roads are made necessary through the introduction of automobiles. Does it not then seem ridiculous that the automobile owner who is doing so much to ruin our roads should be taxed only \$4 a year for his racing? I say make the automobile tax good and stiff and spend all of the money in the repairing the damage to the roads that the automobile does. I would favor making it \$40 or \$50. Surely the automobile owner would not object to paying for his fun.

How Road Money Should be Raised A. McGillvray, York Co., Ont.

The old and inefficient system of "road work" is now a thing of the past. If we would build good roads we must have money and lots of it. How can that money best be raised and how should the tax be apportioned to deal justly with all classes? This is a question on which I feel most strongly and I would like to give my views for the benefit of other Farm and Dairy readers.

To whom does the benefit of good roads ultimately go, I would ask. The most immediate answer that occurs to one is that it goes to the farmer who uses the roads. I, however, would draw a distinction between the farmer and the farmer's land. I myself am a tenant farmer and I cannot see that I would be permanently benefitted by a complete system of improved highways in York county. The road past our door is almost impassable at certain times of the year and rents are low in proportion. The most immediate effect of an improved highway would be an increase in rent and I and other tenant farmers would be no better off than we now are. The farmer who owns the land would be better off. Therefore my idea on the best system of road taxation is one in which the taxes are levied on



An Alfalfa Farm is An Improving Farm

Alfalfa is even more effectual than red clover as improver. It adds more both of nitroy n and of table matter to the soil of the field on which grown. This point is fully appreciated on the Nester arm of A. B. Lyman where this photograph was taken

the value of the land adjoining or near the improved roads.

But the farmer land owner is not the only one who benefits from improved roads. Land values in the city into which good roads lead are bound to be higher because of this road. Therefor, the land owners of the city should vote that this in-(Continued on page 10)

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son of th noting th bors to ge cided tha change, under the ment. N the new. neatly ker observed a roots and further ev a good far WHY DIE When we

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Here in a fe ideal dairy sta B. Tustin, who the betterment tions in the V might have laid word comfortal which the cows with their head with dirty floor. little light or Spanish Inquisi stitution designe faith for the to



Best Paying Improvement on Dairy Farm

WHAT doth it profit a man to grow good crops and feed them to poor cows? Some months ago one of the editors of Farm and Dairy visited a York county farm that was at one time considered one of the best within a day's journey of Toronto. That was in the day when beef cattle were practically universal. The

son of the founder of the farm, noting the tendency of his neighbors to go into dairy farming, decided that he too would make a change. The farm was not paying under the old methods of management. Neither did it pay under the new. As we drove through the neatly kept lanes on the farm we observed splendid crops of clover, roots and grain. We did not need further evidence that our host was a good farmer.

WHY DID THE FARM NOT PAY? When we came to the pasture,

however, the mysterv was a mystery no longer. No man could have hoped to make money with such cows. The best cow in the herd, the proprietor estimated, gave about 4,000 lbs. of milk a year, and from what we could find out the poorest one could not have given much over 2,000 lbs. The trouble was that this farmer had gotten the dairy idea without getting the dairy ideal of what consitutes good cows. The very best investment he could make would be in good dairy cattle. He told us that he didn't have the money. We then suggested that if he could not afford to buy several head that he could improve his whole herd

by purchasing a good pure-bred sire and grading up. To encourage him we told him the story of Geo. B. Ryan, of Norfolk Co., Ont., and his cow

Cherry was the sweepstakes cow in the dairy test at the Ontario Winter Fair last fall. She produced more butter than any other cow in the

From Hired Man to Wealthy Breeder through Pure Bred Stock

is the story that R. R. Ness Howish. Que, owner of the Ayrshire cattle here tells of his experiences with one of the greatest of farm improvements,—better tells of his experiences with one of the direct and more remarkable. Mr. Ness claims with reason that better his the first and most essential improvement for the dairy farm.

test; more than the best pure-bred. Cherry's mother was a red and white cow, a good milker but not phenomenal. But Cherry's sire was a pure-bred animal of choice dairy breeding, a Holstein, Pauline Abbekerk's Prince. It must have been the qualities derived from her sire that made Cherry the great producer that she is. Mr. Ryan told us that on his 50-acre Norfolk county farm he has 10 milch cows, and all of them grades. His poorest cow last year produced over 9,000 lbs. His best cow went considerably over 13,500 lbs. of milk in the year. Their milk realized at the creamery in one year, \$1,348, or over \$134 a head.

Part of this success may be ascribed to Mr. Ryan's good management. More of it may be ascribed to the use of a pure-bred sire. We told our York county friend that what Mr. Ryan could do he could do. Perhaps he might not attain such phenomena! success as did Mr. Ryan, but progress is as sure as the setting of the sun, where a pure-

bred animal is owned and used. We left our host thinking very seriously. We cannot say whether he adopted our suggestion or not.

The use of a pure-bred sire, however, is only a stepping stone to something higher. We have recently heard that Mr. Ryan is going to invest in pure-bred females as well. This is logical advancement. There is money in dairying with good grade cows, but the opportunities for great success are in the pure-bred line. Wherever we go in Canada or the United

States, we find men who have "struck it rich" in pure-bred cattle.

The other day a Holstein cow, Spring Farm Pontiac Lass, sold for \$10,000. She had made a world's record. It is only a few years since the young man who bred and owed this cow, Mr. F. M. Jones, tiring of the slow returns that were coming from his rocky farm, equipped as it was witr scrub cattle, advertised an auction, sold off the whole bunch for \$1,400, went off on a trip and came back with three or four Holsteins for which he had paid good long prices. Didn't his

(Continued on page 32)

Modern Ideas Stable Building HE cow stable is the kitchen where the

£20d for many city babies (and farm babies too) is prepared, and it is the duty

of every farmer and dairyman to see that the kitchen is clean. Cow stables should be light and well ventilated, fitted with concrete floors and steel stalls which are practically indestructible and are necessary for the following reasons: Concrete floors do not soak up manure, which is one of the chief causes of tuberculosis in cattle. Steel stanchions and stalls do not obstruct the light, are easily kept clean and do not soak up manure. Stables constructed in this manner are lighter, cleaner and more comfortable for the cattle."

Here in a few words we have the ideal dairy stable described by T. B. Tustin, who has done much for the betterment of dairying conditions in the West. Mr. Tustin might have laid more stress on that

word comfortable. The old time dairy stable in which the cows stood for six months of the year, with their heads penned tight in rigid stanchions, with dirty floors and bad odors the rule and with little light or ventilation, reminds one of the Spanish Inquisition. The Inquisition was an institution designed by the members of one religious faith for the torture of heretics. The old stable

was not designed to torture the cows in it, but that is what it did.

In this more enlightened age dairy farmers



The Modernly Equipped Stable of the

are beginning to consider the comises of their cattle even more than their own comfort. One of the first improvements that was made in stable equipment was in the method of tying the cattle. The chain tie and the moveable steel tie are rapidly taking the place of the old rigid variety. One of the pioneers in the use of the chain tie is C. A. Archibald, an Ayrshire breeder of Nova Scotia.

His cattle stand two in a stall and the chains that secure them are attached by an iron ring to wooden bars on either side of the stall, and the

cow is thus free to lick herself and to lie down in a natural manner; that is, with her head lying by her side. The same kind of tie is used in the Ayrshire stables of R. R. Ness, Howick, Que. Both of these men have found that the chain tie affords a little too much liberty and have found it necessary to place a bar partition in front of the mangers to keep the cattle from climbing out over the front.

We do not need to describe the swinging steel stanchion tie. It is the most popular of all ties. It is found in at least one stable in every dairy section, and there are very few stables that are either built new or refitted nowadays in which the steel tie is not a feature. The great majority of the competi-

tors in the Prize Farms Competition conducted by Farm and Dairy have these swinging steel cattle ties, and all of them regard the steel tie as the ideal. It gives the cow almost as much freedom as when she is outside, and at the same time it prevents her from moving backwards and forwards in her stall, which is the chief objection to the chain tie; hence all of the manure

(Continued on page 8)

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(Continued from page 7) is confined to the gutter and the couls kept clean. The Ottawa Dairy Company, whose yow stables may be Company, whose yew stables may be seen in the illustration on this page studied all kinds of cattle ties mos-carefully, and, as will be seen, finally decided on the swinging steel tie as the best. The Ontario Agricultural College also is installing steel ties in

A STEEL DAIRY STABLE
The college is going in strongly for Not only are the ties of the



In Course of Construction

In this illustration we may get an idea of how cement and steel construction are worked in together. Notice that part of the steel construction comes before the cementing.

favorite steel variety, but all of the construction above the noor is of steel. The partition between each two cows is composed of a single steel bar bent in a circular form. There was a time in a circular form. There was a time when such construction would have been looked upon as away out of reach of the ordinary farmer. But now the first cost of steel stalls is very little greater than the first cost of ones, and as they are practically in-destructible. final cost is less. Also, they more sanitary and ough to whis cement floor can also, without trouble, instal the steel work. The illustrations in connection with this article will give an idea of how stuction are worked in together.

stuction are worked in togesher.
We are aware that many dairy
farmers regard partitions between the
cows as superfluous, and in many
stables the cows stand in one long, undivided row. Many who once held divided row. Many who once held this belief were speedily converted to the partition idea when some valuable cow lost a teat through her neighbor stepping on it. If we could get comstepping on it. If we could get com-plete statistics of the number of cows ruined or partially ruined in this manner, it would form a strong argument in itself for partitions between cows.

MOST NEGLECTED POINT OF ALL MOST REGLECTED FORTY OF ALL The absolute need for pure air in our stables is conceded by everybody. Yet only once in a long time does one find a stable properly ventilated We will suggest a few general principles that may be followed: In the ciples that may be followed: In the first place there should be 600 to 800 cubic feet of air space for each cow. There should be 15 square inches or more of outlet area and eight square inches or more of inlet area for each animal in the stable. Thus a stable accommodating 18 or 29 band of mich cows should have an outlet about 18 inches square, or, if round, 20 inches in diameter and two inlets aix inches by 12 inches. As air circulates more by 12 inches. As air circulates more rapidly in cold weather than warm weather, these inlets and the outlets should be controlled by a key or dam-per of some kind. Otherwise the stable will get too cold.

No system of ventilation can be expected to work satisfactorily in a poorly constructed stable. We were ily in a We were recently in the stable of a well-known Oxford county Holstein breeder, who had installed the King system of ventilation, and, so far as we could see,



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most satisfac CONCRET Floor const portant poi the last. stable that wa Wo care to ask a her winter he planks, with with filth, affo he breeding o

Floors of Re ordinary cem some too cold aforced concret the circulation makes th table. Note the e employed.—Ph Bros., I

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uch as we trea nsanitary floor is in a decreased Many old stable ithin the next or dern convenien it concrete floor that gives the uld not be negle who are constr find it to their have their sta y respect, not f s in front of establishment k and some por er. This means diture of money expenditure.—]

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be exin a known , who f ven-d see,

had done it right; but it wasn't working properly. That is, the walls of
the stable at times were Cripping with
moisture overed with frost. The
walls were of concrete, and as concrete
conducts the heat away rapidly, or
lets the cold through whichever way
you want to put it, the walls were
cold and the moisture naturally condensed on it. Suck-walls must be cold and the moisture naturally con-densed on it. Such, walls must be wood lined to ensure their being thoroughly dry. J. H. Grisdale, of Ottawa, has the following to say on WHY VENTILATION FAILS

"Precipitation of moisture on walls or ociling is due to the warm vapor or water-charged exhains of the animals, rising and lying for too great a length of time in contact with cold wall or ceiling as the case may be. If the construction of the line was the construction of the faulty, as for instance, where only double boards with paper between constitute the same, then day without lowering the inside temperature to practically the same as the outside. Walls possible of the line with the construction of the construction sulation, that is, a dead-air space or a concrete core or shavings, or some-thing to prevent too rapid conduction of heat. Then with a fairly rapid struction of air the walls and ceiling may be kept dry. A ceiling protected by straw or hay overhead is the most satisfactory."

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CONCRETE FLOMS OF COURSE
Floor construction, one of the metalinportant points of all, we have left to
the last. We have never been in
what we considered an up-to-date
slable that was not floored with constele. Dairymen nowadays would not
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the breeding of disease germs. We



Floors of Re-inforced Concrete

Floors or Re-inforced Concrete
he ordinary coment floor is considered
some too cold for eatile to lie oneniforced comes also floors which almerte, make the warm air under the
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re employed—Photos, courtedy Beatty
Bros, Fergus, Ont.

are found that a row treats us very such as we treat her, and a dirty, maanitary floor is bound to be reflect-ing the second of the second of the Many defeated will be remodelled thin the possible to instal all of the bodern comelences here mentioned, to the control of the second of the bodern comelences here mentioned, but concrete floors and some form of the thing the second of the second of the second of the thing the second of the second of the second of the bodern conclusions and some form of the thing the second of the second of the second of the thing the second of the second that gives the cow every liberty and not be neglected. Dairy farmwho are constructing new stables in the desired part of the lift of the lasting advantage have their stables up-to-date in the respect, not forgetting light and trilation. Individual drinking was in front of each cow involves establishment of an overhead the land some moves to numn the who are constructing new stables ter. This means a considerable ex-distribution of the considerable ox-distribution of the considerable ox-distribution of the considerable ox-distribution of the considerable ox-distribution of the considerable ox-

he brood mare and the stallion are he brood mare and the stallion are ally the most idle animals on the m. Regular work would be good both of them.

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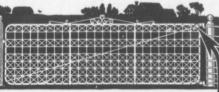
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Cutting in Two Cultivation Costs

Prot, J. H. Grisdale, Director of Dominion Experimental Farms, explained to an audience of Peterborough farmers, recently, how he has cut his cost of crop production away down in spike of the fact that his spike of the Government staticians, showing that the average return per acre on crops grown in Ontario is from \$10 to \$15, the cost of raising the crops being estimated at \$9 an acre, thus leaving a net profit of from \$8 to \$8 to \$6 an acre, In contrast to this he instanced his own returns on the Central Experimental Farm of \$8 to \$6 an acre, I contrast to this he instanced his own returns on the Central Experimental Farm of \$8 to \$10 an acre, I will be a spike of \$10 and \$

An interesting experiment was conducted by Mr. Grisdale in connection with preparing his corn land. For this work, when an ordinary disc harrow was used, such as is to be found on almost every Ontario farm, the cost of preparing the corn land ready for planting was 90c an acre. When he used a medium-heavy disc the cost was reduced to 70c an acre. The cost was further reduced to the remarkably low figure of only 30c an acre, when he used his big which he secured from The Cuttaway Harrow Co., at Higganum, Conn. U.S.A.

EFFICIENT PREPARATION

The practice followed by Mr. Grisdale in preparing corn land in to manure the land at such times as he finds possible, beginning from August on through the preparing from August on the land of the l

When the seed bed is ready for the corn, he plants with a twenty-marker seeder or grain drill. While this machine requires from three to four borses for ordinary work, two horses will handle it for drilling corn, sowing four rows at once and getting over from 20 to 25 acres a day.

Speaking of the advantages of using heavy fast-working machinery and implements, Mr. Grisdale said, "We make a practice of using al-

For the benefit of Farm and Dairy readers we asked Mr. Grisdale the address of the manufacturers of the Double Cook to the Cook of the Double Cook was been instrumental in so greatly reducing his costs in crop production. The machine is made by the Cutaway Harrow Co., of Higanum, Com., U.S.A.

ways the largest implements available that will suit our purpose, for instance the 8-foot binder, the 7-foot mower, the 12-foot hay rake, the 85-foot double disc—all of these being the largest machines available. These have enabled us to keep our cost of production down to less than 60 per cent. of what it was years ago, even when we paid mach lower wages than we do sow.

"While there is such a great big advantage in using these modern inday and the such a great big advantage in using these modern inthe such as a such as

occome equippen with the modern rapid-working machinery.

"On practically every farm there are four horses available. It pays to have these driven by one man, and not with two, as we used to do in the olden days. We never any more use the one-furrow plow, nor of the one-furrow plow. We have sulking two-furrow plow. We have sulkies; three horses will draw a two-furrowed sulky, and handle it more readily than will two horses an old-fashioned walking rolow.

"With the fast working implement there is the inducement to do the the miducement to do the fast of the fast working implements, is that they enable us to do the work in every case and do it at the right time. They will increase the returns from crops on the average farm by at least 30 per cent., and more, where the right crops are grown, as against what is possible with the crops or dinarily raised and the hurried, in sufficient cultivation so generally contained to the word of cultivation to be done at a much less cost."

How Road Money Should be Raised

(Continued from page 6)
creased value be made to help in the
construction of country goads. The
people of Toronto, I am Ead to are
have realized means of the second and
have devote
the provide of the second and the second
have devote
the provide of the highway
around the city. I would go further,
however. The building of a god
highway leading to a railway statism
300 miles from Toronto also serves te
increase land values in Toronto E
Toronto be the ultimate market
Therefore, I believe that the benefit
of good roads are generally distribut
ed through the province, and the pre
vince should assist in helping farmen
to improve their roads.

Therefore the logical system of taxation for road building as I so it is to levy the first tax on a bus so that the owners of the land immediately adjoining the highway will be taxed according to the benefit that they will receive and on the farm not adjoining the highway but near in proportion as their value is it creased. Then we should have he province contributing one-third to the total explained with the contribution of the contribution

Most of us feed too much hay, e pecially at night. A hard working horse should get the most of its feet from the grain ration.

May 8,

A Nation

A meeting City Conneil theory of Cont Tworks or Cont Tworks or Control of Con

NO BIVAT opening Hocken and emphasized th did not desire tion that would with the Guel any other cetal city felt that i grounds of Exhibition, for tional live stoc it was willing such an exhibi hoped that the er interests the proposal the A CITTE AND

Printed sheet ness to be consi that it was promittee of mana 66 members on terests would b horses, sheep and swine stock, 6; agricul riculture, 12; ducts, 6; groun and dogs 6. It ive an executive of 14 member president. t of control uncil and on anding commit mmittee was t epare and put by-laws to g id to appoint a ry-treasurer of as also proposed r holding the er When the propo me up for consi and that the re ultry and dog it give their supp half of the dairy cKee, of Norwic presentatives of re not in a pos proposal until consult their re favorable to airy Show in Toro the Canadian Noviding suitable ected and the mow left entirely i irymen. In the cided to hold a bow they were well and the countries of the cided to hold a bow they were well as the countries of the countries o w they were wi

iry show at the sa I not care to sin such a show. Mr. H. B. Cowar Farm and Dairy, took more than su 1913.

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A National Live Stock Show

A National Live Stock Show Proposed

A meeting, called by the Toronto City Council, largely on the suggestion of Controller T. Foster, was held to the Toronto on Thursday, May 1st, to the Council of the Toronto on Thursday, May 1st, to the Council of the Toronto on Thursday, May 1st, to the Council of the NO RIVALRY CONTEMPLATED

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No opening the meeting Mayor
Hocken and Controller Foster both
emphasized the point that the city
die not desire to establish an exhibidie not desire to establish an exhibithe Guid compete in any way
with the Guid competer facility, in
stay other established exhibition. The
city felt that it had exhibition facility in
the grounds of the Carnor facility, in
the grounds of the Carnor

Exhibition, success, and it
is pade that the live stock, dairy and
other interests concerned would give
the proposal their support.

other interests concerned would give the proposal their support.

A CUT AND DRIED PROGRAM
Printed aheets, outlining the business to be considered at the meeting, which had been distributed, showed that it was proposed to have a committee of management consisting of 50 members on which the different interests would be represented as follows: horses, 12 members; cattle, sheep and swine, 12; poultry and petalect, 6; agriculture, horticulture and stock, 6; agriculture, horticulture and stock, 6; agriculture, horticulture and stock, 12; dairy and apiary product, 12; dairy and apiary product, 12; dairy and apiary product, 12; dairy and sproposed to have an embers to be composed of the members of the band of control of the Toronto City Council and one member of each standing committee.

sending committee. The executive committee was to be authorized to prepare and put in force the necessary by-laws to govern the association by the sending the sen

not care to sink their indentity such a show. Mr. H. B. Cowan, Editor-in-Chief Farm and Dairy, pointed out that took more than suitable buildings to

insure the success of a national exinsure the success of a national exhibition such as was proposed. The enthusiastic support of the live stock and dairy interests would have to be obtained, and to do this would require motions access on the live stock and dairy interests would have to be obtained, and to do this would require considerable time. The attitude of considerable time. The attitude of considerable time. The attitude of the considerable time. The attitude of the considerable time. The attitude of the considerable times are considerable to the considerable times and had proved successful beginning and had proved successful the considerable the considerable the considerable times and the considerable times and the constitution of the committee of managed out that if the committee of managed out that instead of the control of the committee of managed out that instead of the control of the committee of managed out that instead of the committee o

exhibition.

Mr. Cowan's suggestion did not meet with the approval of Mayor Hocken or Controller Foster, who favored the holding of a large show this year if possible. A resolution favoring the holding of such a show was then mit to the meaning, and defavoring the holding of such a show was then put to the meeting, and de-clared carried, although almost the only ones voting for it were represen-tatives of the city and of the poultry and dog interests.

Those present were then entertained to luncheon by the city council.

After the luncheon the meeting was convened again and the following of-

fleers elected:

Honorary presidents, Ministers of
Agriculture for the Dominion and the
Provinces and Mayor Hecken; president, R. J. Fleming; viscosients,
Senator Ovens, of Queber Silents,
Senator Ovens, of Q

Proposed National Dairy Show
Again Approved.—At a meeting of
the representatives of the dairymen's
and the dairy cattle breeders' as
the dairy cattle breeders' as
sociations held in Torontoterroposal to hold a National Dave
proposal to hold a National Dave
show in Canada, the project was
the proposal to hold a National Live Show
have the stock Show being held
in Toronto with the dairy interests
being invited such part in it, that
the dairy said to the dairy interests
being invited such part in it, that
the dairy so to the exshould be advised to go to the exshould be advised to go to the exshould be advised to the the
the dairy meeting with the
dairymen should retain complete control of their own exhibition. It is
papoposed that the first National
paper of the live stock show but his the
dairy should retain complete control of their own exhibition. It is
papoposed that the first National
paper of the meeting will appear in
Farm and Dairy next week. Proposed National Dairy Show



Are You Feeding Your Dairy Stock by Exact Weight or by "Rule of Thumb"?

Mr. Dairy Farmer,—You can lose money just as fast by overfeeding your milkers as by underfeeding them. Many dairy farmers have found out that a RENFREW HANDY TRUCK SCALE on their farm pays them hundreds of dollars a year in increased milk returns by reason of weighing their feed, in exact quantities, instead of hit-ormiss

If you want to know the milk records of your cows, weigh the yield on a Renfrew for two or three days-you will soon know whether you are getting the best results from your feed. If you are fattening stock for market, the Renfrew will tell you when they are ready for profitable sale.

And there are dozens of other ways in which a "RENFREW HANDY" TRUCK SCALE pays for itself on a dairy farm.

Suppose you are selling cattle or hogs or milk or butter or cheese or other farm produce, the Renfrew will tell you exactly how much weight you ought to get paid for. You don't have to take somebody else's word for it. You can't be "shortweighted." You know absolutely. No one can dispute Renfrew weights-because the Renfrew cannot be wrong.

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The Renfrew Scale Company RENFREW, ONT.

"A Wonderful Result in Tree Planting which should interest every orchardist in the country was obtained last season on the Farm of Mr. C. A. Borden, Sheffield Mills. N.S. 1.213 Young Trees were set out, the holes being dug by the use of 1/2 stick = 1/4 pound Stumping Powder. Every tree lived and grew; the truth of this statement can be vouched for by Mr. Borden, if anyone takes the trouble to make inquiry."

The Advertiser, Kentville, N.S., 15|4|13.

A tree planted in a hole made with C.X.L. Stumping will grow better than in a spade dug hole. The ground is so pulverized that the roots can immediately expand in search of nourishment, retain moisture longer, and the surface is properly drained.

Also used for clearing land of stumps and boulders,

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are right in every way. We've been making them for 50 years. We've kept every good old-fashioned quality and added every new thing that modern paint science has proved valuable.

that modern paint science has proved vanuator.

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Any or all of them at the best dealer in your town—write for these Valuable Books, free. Attractive Homes—and Guide to Farm Paint.

Lowe Brothers Limited 269 Sorauren Ave., Toronto

Dayton New York Boston Chicago Kansas City

recessessessessesses g **HORTICULTURE**

Live Like a King

H. C. Blair, Pictou Co., N. S.
"You farmers ought to live on the fat of the land." So said one of my fat of the land." So said one of my friends to me some years ago in the course of a chat we were having the course of a chat we were having the course of the course of think," and country life. When I think," and country life. When I think, and country life. When I think, and country life and the course of th

thinking of planting a nice house gar-



Chicken Insurance

Mr. Stewart Brown, Peterboro Go., Ont., is experimenting with grape growing. The illustration shows the precaution that Mr. Brown is taking in order that the young vines may not perial through too stiff competition of the chickens.

Date by a children of Jarre and Dairy. Photo by an editor of Farm and Dairy.

den that was just the time he was most busy putting in his crops. He couldn't spare the time for garden-

ing. "If don't see why not," persisted my first don't see why not," persisted my long to fix up a good bit of garden when you have overything at hand with which to do it. I'm certain the with which to do it. I'm certain the persistence of the control of the world be mighty well pleased too." By the time he had been a present the head of th

longer I was ready to admit that he was about right.

That spring I made up my mind that our garden would have a considerable addition to the peas, beans, and early potatoes we had been accustomed to. I found, too, that when a chap really makes up his mind that he wants a thing he can generally find time to get it.

he wants a thing he can generally find time to get it.

We have a garden this last two years of which anyone might well feel proud. When our town friend pays us a visit we can back him up when he says, "the farmer can live like a king."

Agricultura! instruction in public Agricultural instruction in public schools in Ontario has taken another step in advance. Six field agents have been appointed to visit schools in six different districts, giving the teachers instruction on agricultural teachers instruction on agricultural education, interesting trustees in the work and testing the pupils on the work aught. All the field agents are students in 0, A. C. classes and have had successful experience in school: work. It is expected that their services will be particularly helpful to teachers who have not had the advantage of a teacher's course at the tage of a teacher's course at the O. A. C.

GASOLINE ENGINES

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WINDMILLS Grain Grinders, Water Boxes, Steel Saw Frames, Pumps, Tanks, Etc. COOLD, SHAPLEY & MUIR CO. LTD

Brantford Winniped Caldary Selected Seed Potatoes

Improved Empire State, a blight research at strain, very heavy yielder and is liable to rot than ordinary stock. Signer basis and strain of the rot than ordinary stock. Signer basis and the rot than the rot the rot than the rot than the rot than the rot than the ro

SEED POTATOES

Early Ohio \$2.50 per Bag Irish Cobbler ... 1.50 " Early Puritan .. 1.50 " Quick Lunch ... 2.00 " Early Sunlight.. 2.00 " " Early Sunshine.. 2.00 " Early Fortune.. 1.50 " Early Eureka... 2.00 " Burpee's Early.. 1.75 " " Chicago Market 1.50 " Early Harvest .. 2.00 " "

ate Varieties: Peerless Sav Empire State. Delawares, Gree Mountain, Clinton. Any of above LATE Varieties, SLSo per bag. Terms, cech. All F.O.B. Guelph, Sacks included.

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Each Tuesday until Octo Winnipeg and Return - \$35.00

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AROUND THE WORLD

AROUND THE WORLD
Leaving "Simpress of Asin"
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Maddin Green, Durban, Color
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May 8, 1 Reseases POU

****** Why Wa Consumer, A year ago

ent to my Christmas

pectancy fell plendid big deposited on thost. Then the prospects We all liked Our host dr proper way a The knife was at least that we put upon it so sharp that i the goose refus ally we were t was fine. So w the goose. Wand chewed, b chew. That go years old. And paid for him to best of it and but the women prepared the di selves in disgra they would nev were up a mas and a coup

the table. I have teld It is b misrepresent th It not on chaser at the t ency to dec all time to con dressed poultry. ford to sell anyt

> Poultry Mrs. G. not give as

until they are from Warmth is more Feed them a li feed them a more about a week feed every four lamonth old, there chicks do not eat hey eat often.

lar times and d

Keep a box of

grit and dry bran

time and on the sprinkle fine sand alfalfa leave water at all times in a vessel in whi chicken can b the chicks w ep the coop prepared chie feather making pro-feather making pro-fed for the first to with splendid resul-tion they will clear stale bread that oven and the istened with mi make the mixtu Hard boiled eggs g enough. Never feed raw water or mill

buble and perhaps netimes all the ed and rolled fir th milk or water a good change.

I have it dry

After the third w

od can be fed with water dishes

(13)

NGINES P. and Traction

av 8. 1913



Boxes, Stee IR CO., LTD. Calgary

Potatoes .

a blight resided and leave stock. St. o blight resident Mountain NSON,

TOES o per Bag en. 0 " " 00 11 11 00 11 11 00 4 11 0 " "

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ober 28th - \$35.0 ortion 43.0

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POULTRY YARD

Why We Don't Eat Goose

Why We Don't Eat Goose
"Gonsumer," Peterboro Go., Ont.
A year ago this last Christman we
want to my wife's home to have our
Christmas dinner. A hush of expectancy fell on the company as a
sphendid big goose steaming hot was
deposited on the table in front of the
host. Then we all smiled gladly at
the prospects of the good feed ahead.
We all liked goose.
Our host drove in the fork in the
proper way and proceeded to carre.
The knife was so dull it wouldn't cut,
at last that was the interpretation
we put upon it. The steel was brought
into requisition and the knife made
and the state of the country of the country of the
state of the country of the country of the
host feed to the country of the country of the
host country o the goose refused to carve easily. Fin-ally we were all served. The grary was fine. So were the vegetables, But was fine. So were the vegetables, But cheeved the control of the control and grades. We chewed and chewed and grades. We chewed and chewed the control of the control of the chew. That yet is the control of the paid for him to. We did not the best of it and tried to laugh its best of it and tried to laugh its but the women of the house who had prepared the dinner considered them-sless in diagrace and declared that selves in disgrace and declared that selves in disgrace and declared that they would never have a goose again. We were up again this last Christ-mas and a couple of chickens were on

the table.

I have teld this story to point a moral. It is lad business policy to mirrepresent the article you are self-ing. It not only dissatisfies the purchaser at the time being, but has a second of the purchaser at the time being, but has a second of the purchaser at the time being, but has a second of the purchaser at the time being, but has a second of the purchaser at the time being, but has a second of the purchaser at the time being, but has a second of the purchaser at the time being but has a second of the purchaser at the time but has a second of the purchaser at the time but has a second of the purchaser at the time but has a second of the purchaser at the time but has a second of the purchaser at the purchaser at the purc chaser at the time being, but has a tendency to decrease consumption for all time to come. This is true of dressed poultry. It is truer still of eggs. Poultry men simply cannot af-ford to sell anything but the best.

Poultry Suggestions

Mrs. G. W. Randlett.

Mrs. G. W. Randlett.

Do not give any food to the chicks until they are from 24 to 36 hours old. Warmth is more important than food. Freed them a little every two hours for about a week. After that time feed every four hours until they are a month old, shen three times a day. Chicks do not eat much at a time but lay eat often. Freed them at regular times and do not omit a meal. Keep a box of fine charcoal, small git and dry bran before them all the times and on the floor of the coops synthic fine sand in the cut clover and affalfa leaves. Plenty of fresh valer at all times. Give them water and all times. Give them water as a vessel in which only the beak of the chicks walk in the water. See the cop and yards dry, as manuscapproces proves fatal.

prepared chick feed, if properly

A prepared chick feed, if properly sanced, contains bone, muscle and sather making properties, and can be defor the first two of three weeks the plendid results, and the weeks the plendid results and the properties of the proper

ad on the eggs before feeding.

Never feed raw corn meal stirred
to water or milk. See the seed of the

scald the dishes, keep coops and yards scald the dishes, keep coops and yards dry, warm and clean, and y u will not have trouble raising the entire flock. A chick should weigh a pound at five weeks and be ready for market at

five weeks and be ready for market at eight weeks.

It pays to hurry the growth of chicks so don't let them shift for themselves as soon as you think they are well started.

When you see the chicks busy and scratching it is a sign they are happy and thriving.

and thriving.

Spirar the coops often and the hen open a three a week and continue to do so there as week and continue to do so the coops of the coo

You can't neglect the chicks while they are growing and get good breed-ing stock by feeding them food a month or so before laying. Give them plenty of feed, good care and clean houses and yards at all times.

houses and yards at all times.

Do not put chickens hatched at different times together. The older once
will crowd out the younger.
Give the chicks plenty of shade to
run in on warm days.
Chicks hatched this month will lay
in No-ember if you care for them
right.

Storing Eggs at Home

At this season of the year many people are asking for methods of preservable are gaining for methods of preservable are gaining for methods of preservable are gaining for methods of preservable are gained as the decided of the season of the

Fill a lar or keg with the mixture in above proportions until half full; put the eggs on a plate or platter and the down into the water; turn them off gently into the water, and there off gently into the water, and there off gently into the water, and the right position, and you can add the right position, and you can add the right position, and you can get the same way until the vessel it full. Kep them covered with the fluid, and lay on top of them a light, thin board say on top of them a light, thin board say on top of them a light, thin board it is a cloth over the top. Any time after June is a good time to put time after June is a good time to put Fill a jar or keg with the mixture

Backyard Poultry Keeping

The possibilities of a small back-yard for poultry keeping are illustrat-rison was the most successful compe-titor. One pen comprising 18 April pullets and 15 June pullets starting on the 20th day or November, laid 1,428 eggs in the 100 days, or an average of a little over 43 eggs a hen. The second pen comprised of 20 April pul-

second pen comprised of 20 April pul-lets produced 1,173 eggs or an aver-age of a little over 58 eggs a hen Mr. Harrison fed sprouted cats, grains and ground bone. Pen No. 1 was housed in a two-storey house torey house 6 x8 feet. If Mr. Har-rison can do so well with his pullets in a backyard, what should not more of us do who have a whole farm to work on?

A pencil worn to a stump in planning farm work pays bigger dividends than even a silo.

STOP! HERE'S A DYER FENCE!"

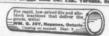
Do you want a strong, durable fence strong, durable fence stronged aminor to fire years of the y

INCUBATORS

The Philo System. This machine gets that the price of the Poll of any catalogue. Address market to day. Proc and POULTRY

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CALVES RAISE THEM WITHOUT MILK Booklet Free. Steele. Bridde Seed Co., Ltd., Terosto, Out.



Baby Chicks

Order your baby chicks now from our splendid layingstrainofSINGLE COMB WHITE LEG-HORNS

Utility Poultry Farm

T. G. DeLAMERE, Prop. STRATFORD ONT

AND BROODERS COMBINED EGGS. BUTTER

For best results ship your live Poultry to us, also your Dressed Poultry, Fresh Dairy Butter and New Laid Eggs, cases and poultry crates supplied.

PROMPT RETURNS

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FOR SALE—Iron Pipe, Pulleys, Belting, Rails, Chain, Wire Fending, Iron Posts, etc., all sizes, very cheap, Send for list, stating what you want.—The Imperial Waste and Metal Go., Dept. F.D., Queen

S.C.R.I. RED EGGS, from good laying strain, \$1.00 per 15. Shipment guaran-teed.—Jas. C. Barrens, Indian River, Ont.

P"doed Luck" Feeds Scratch feed and poultry Feeds Scratch feed and grit, beef serap, ground bone, oyster shell, etc., and all Poultry supplies. Prices as low of lower than others can meet. Write CAMPEST & ELLY, Bevercart Rd., Terusto, Out



Eggs for Hatching

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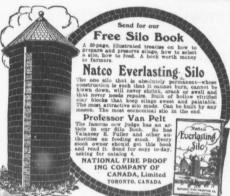
Mammoth Bronze Turkeys Embden Geese Rouen and Indian Runner Ducks

Brown and White Leghorns, Black Minorcas, Rhode Island Reds, Barred and Partridge Rocks, White Rocks and White Wyandottes.

Send for Catalogue, containing prices, and Illustrations of the different Breeds, also prices of Poultry Supplies.

I have some Choice Hampshire Pigs for Sale

J. H. RUTHERFORD CALEDON EAST, BOX 62 ONTARIO



Running Water Conveniences in Your Home

The greatest comfort of the city home is the complete water system with which all modern houses are equipped. The sanitary bath with its enamel bath tub and shower, the running water to supply the kitchen, the lavatory, closet, and wash tub are features that appeal to country residents as ideal. To some it has never occurred that they might have luxuries such as these, yet there are thousands of farms equipped with a pressure system by means of which all these comforts of the city are enjoyed.

Heller-Aller Pneumatic Water Supply Systems

Solve the problem and make it possible to have running water anywhere in the house, stable, or yard, for all domestic purposes, and for fire protection. The cost is so low that almost every country resident can afford to install it. The most striking features are the simplicity of the installation, its durability, and the great increase in comfort and improvement in sanitary conditions. SERVICE PIPE

The value of a HELLER-ALLER Water System to yourself and family will evident every family in the day. The sizes range from a small hand out-to the largest energy and the size of the sizes of the siz

The Heller-Aller Company, Windsor, Ont.

CREAM EQUIVALENT FOR RAISING CALVES AND YOUNG PIGS CONTAINS & MUCH HIGHER RERCENTAGE OF REAL VALUE THAN OTHERS SOLD OF LEADING MERCHANTS, OR DIRECT FROM WE RENNIE C? LIMITED TORONTO . MONTREAL . WINNIREG . VANCOUVER

CONSTRUCTION OF COUNTRY ROADS OF CONCRETE

N o single factor plays such an important part in the social and business life of a community as the quality of its roads. Aside from H lower and convenience of siderable saving will be effected, as travel, possible at all times over permanent roads, there is the financial brand of Portland cement should be



Dirt Roads and Worn-out Macadam-Often Impassable

phase which directly concerns the cost not only of farm produce but of city products as well. Consequently every-body wants good roads.

In a way it is fortunate that Canada has been rather slow in the matter of road-making. The roads can now be built of lacting materials such as the control of the contro with traffic which is fast running traffic which is fast running to the traffic which is are everywhere present in the form of sand and gravel from pits and stream beds and crushed rock.

Combined with

chosen which is guaranteed to chosen which is guaranteed to meet the specifications of the Canadian Government or those of the American Society for Testing Materials. It is much faster and cheaper to mix the concrete with a machine than

mix the concrete with a machine than by hand. Depending on the grading of the aggregate, the concrete is usu-ally proportioned one bag of Portland cement to two cubic feet of sand and four cubic feet of screened gravel or crushed rock, or one of cement to two During the grading and draining of the road, the aggregate is hauled and



Repair Proof Road of Concrete-Always Usable

Portland cement into concrete, they form an inexpensive and permanent road surface which successfully resists the usually destructive action of automobiles

INEXPENSIVE LOCAL MATERIALS OFTEN USABLE

The first consideration in the building of concrete roads is a careful study of local deposits of sand, gravel and rock (called the aggregate) to see whether they are suitable for concrete. Sand must be clean and hard and must grade uniformly in size of grain from ¼-inch down. The same applies

piled at convenient points. piled at convenient points. The co-crete is mixed mushy week, is dejosite to the thickness of six inches upen the firm old road-bed and is brought to grade and shape by means of a templet. In order to shed the water to the side-drains the surface of the concrete is given a rise or crown in this centre of one one-hundredth (1-100) to one seventy-fifth (1-75) the width of the roadway. The surface is insided with a wooden float and wire broomby which means there is afforded perfect foc.ding for horses.

At intervals of 25 feet the road is

divided i traction the road crete. means of form or paper wi last laid the surfa and while ing section holding t The tar pand stays forcing a concrete c

May

When t has harde ting it is and is ke Likewise, ment is co road to gi concrete. earthen sie is about tw gravel are the paveme feet wide firm and to all times from the si FIRST C

There are any improv crete road than any oth way. Of so built in rece cost has be The annual these roads In Bellefont menta in us cent per sq of Wayne c concrete ros averaged bu mean oc roads in Ne mile—10 per these goads tically all th have been sa new roads in

Mainten

When we l be wise to plant the same clearly put office of Pub States, who s

upon the imp proving the nearly all the are spending in the constr and yet almos are making litthe roads after is true not or ties, but und highway depar

"To mainta condition year considerable a outlay is infin which must eventually if to go to utter all advocates o urge continuou of an amount the engineer in for the proper road—a course economy and e

except ommonly cted, as ghted A nould be

anadian

ne than grading is usu-ortland

and and

avel or

or rock

led and

1913.

divided into sections by narrow con divided into sections by narrow con-traction joints extending crosswise of the road and entirely through the con-crete. These joints are formed by means of a thin metal or wooden cross-form or divider to which is field a single or double thickness of tar-name with the name frequency of tarsingle or double thickness of tar paper with the paper face or admainst the last laid section of road-gainst the last laid section of road-gainst the last laid section is finished, and while the concrete for the adjoin-ing section is being placed, the cord holding the paper to the cross-form is cut and the cross-form is removed. cut and the cross-form is removed. The tar paper adheres to the concrete and stays in the joint which is reduced to the thickness of the paper by forcing against it the freshly placed concrete of the section under construc-

When the surface of the concrete hardened enough to prevent pitting it is sprinkled with clean water that it is sprinkled with clean water that it is sprinkled with clean water days. Likewise the parametris covered to pushlish, the payement is covered to pushlish, the payement covered to pushlish the payement covered to push the payement covered to push the concrete. Traffic is confined to the control of the payement the concrete is about two weeks old. In the meantime shoulders of broken stone or gravel are built along both edges of the payement. These are made three feet wide and sufficiently thick to be form and to make it an easy matter at When the surface of the concrete firm and to make it an easy matter at all times for wagon wheels to pass from the side-road onto the pavement.

FIRST COST AND THE REAL COST
There are two phases of the cost of
any improvement—first cost and uptop expense. In both items the conany improvement—first cost and up-keep expense. In both items the con-crete road has proven less expensive than any other kind of permanent road-say. Of some three million yards of city and country concrete pavements built in recent years, the average first control of the properties of the con-trol of the properties of the con-trol of the control of the con-trol of the con-trol of the con-ments in use 18 years have con-trol of Wayne county, Michigan, country concrete roads for three years has averaged but \$8.50 a mile. In 1911 the mean cost of repairing macadam roads in New York state was \$900 a mile—10 per cent of the first cost. If these goads had been concrete, prac-tically all this immense expense could have been asved and used in building have been asved and used in building have been asved and used in building have been asved and used in building

Maintenance of Improved Roads

When we build good roads we will be wise to plan for their maintenance at the same time. The case is very clearly put by the Director of the Office of Public Roads in the United

Office of Public Roads in the United States, who says:

"Too much stress cannot be laid upon the importance of maintenance in connection with the work of imporing the roads. The people in nearly all the States are filled with enthusiasm for road improvement and are spending enormous sums of money in the construction of superb roads, are spending enormous sums of money in the construction of superb roads, and yet almost without exception they are making little provision to care for the roads after they are built. This is true not only in the various counties, but under many of our State highway departments.

"To maintain the roads in roads in road."

highway departments.
"To maintain the roads in good condition year after year requires a considerable annual outlay, but this outlay is infinitely less than the loss which must fail upon the people which must fail upon the people of the peo ance and the setting aside every year of an amount per mile estimated by the engineer in charge to be sufficient for the proper maintenance of the road—a course which must make for economy and efficiency."



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new way to build barns." "Use my galvanized, corrugated iron in 8 ft. sheets, and my big 'George Shingle' instead of wood and cedar Want to tell on your barn. At one stroke you get a lower cost than a wooden barn painted. This is because I save You about the New alinted. This is because I save you wages in erection, make re-pairs needless, make leaky roof and walls impossible, make painting macces-sary, and give proof, are lightning-proof, are proof barn into the bargain. Write me. OU can now buy my big 'George' Shingle. It 9. A. Peda

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inch size, but from now on, you can buy it in 'George' Size, 24 x 24 inches to a single shingle, as well. Write my nearest branch and learn about why I made it." 9. A. Peda

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Clay Farm Gates





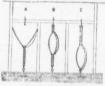
Clay Gates

In a recent competition on the subject of "The Ideal Farm Gate" open to the Students of the Ontario Agricultural College, Guelph, every competing student with but one exception declared. "Clay" Gates to be the most perfect farm gate made.

60 DAYS' FREE TRIAL One or a dozen Clay Gates sent for 60 days' free trial in order that they may be tried out before being purchased. 30,000 Clay Gates were sold in 1912 on these terms.

A Chain for Tying Cattle

The illustrations show a new kind of chain for tying cattle. The chains



The Chain Stanchion

are fastened below to a ring which is secured to a staple in the floor of the stable (see Fig I).

In this figure, A



with ordinary
chains. In the
Austrian Provincial School of Alpine Economy where the new device
has been introduced it is found very satisfactory.

Why Tax Improvements?

B. Blanchard, Hants Co., N. S.
During the four years that I have been farming in Hants county the tax assessor has been my continual bugaboo. When I took over my farm it was run out, the fences were all down

was run out, the fences were all down and the barnes in poor shape.

I started in the started in ness. In due time the assessor came around. I was complimented on the improvements. All my stock was taken account of right down to a four-days-old calf.

A few weeks later I strolled down A rew weeks later I strolled down to the village store and noticed the new assessment list. I looked it over in an off-hand way to see how I stood, —I had been raised \$500.

In an ort-man way to see now I acout.

—I had been raised \$500.

That was the start. If I have one more cow than I had last year; up goes my assessment. I bought a pure bred bull; I im taxed for half its value. I gare ity house a hit of paint and I am taxed accordingly.

Farm papers and lecturers tell ut or raise more stock, use a pure bred bull, and so get more milk and mormanure. As soon as a farmers beginned follow this advice his assessment takes a jump. If farming needs the improvements, why tax them?

It is a seem to me there is a cog loose somewhere in our taxing machinery.

"Don't try your neighbor to reform.
While your own roof lets in the storm."

Express

modern The follo their ho favor of you in d A cor

is the lip once ins system d filling of of the v the least

have no lam coal oil to d lene system light is clea ant. It no week in win in summer. Co., Ont Farm and 1

"Acetylene admit of no lighting in and when spend an eve coal-oil it is anything bu going out.
'Were one
to make light

from the gar cheap as oil get along wi cost if they c

most more in Acetylene de piping requir fixtures used. "Some peop dangerous. It

safer than cos

Acetylene. It farmer can ha We cheerfully

LET THERE BE PLENTY OF GOOD LIGHT IN FARM HOMES

Expressions of Opinion Based on Practical Experience in Favor of Acetylene in Homes of Farm and Dairy readers. Delighted with the Convenience. Safety and Abundance of Eve-Resting Light Afforded by their Acetylene Lighting Systems.

NE of the most practical and apciated improvements that can be installed in a farm home is a modern system of practical systems. The following Farm and Dairy readers have Acetylene lighting systems in favor of their system that they say in favor of their system that they say in favor of their system to a lighting system best suited for you down home is the lighting of it by man. When once installed an Acetylene lighting system does away with cleaning and filling of lamps, which is passing one of the worst household drudgeries. As regards cost, I have 85 lights, and the least it has cost me a year is \$12 and the most \$16. With the Acetylene NE of the most practical and ap-

to anyone whose finances will permit of its installment. It certainly is a grand light and is most convenient. The women appreciate it very much, as there are no dirty lanterns or lamp globs are Acetylene is used."—Edmund Latidlaw, Elgin Co., Ont., successful, compositor in Farm and Dairy's Prize Farms Competition.

"I would strongly advise anyone to discontinue the use of coal-oil lamps and put in Acetylene, when they could enjoy a far brighter and more power-ful light with less trouble and with-out extra expense for fuel by using Acetylene. I have used it for lighting my house for the past nine years, and I have found it very satisfactory.



Efficient, but Little Appreciated Farm Improvers at Work point has been seen that experience farm improvers at Work

point and experience are few kinds of weeds that sheep will be that they are "great

where are few kinds of weeds that sheep will be the standard with the same

standard with the same provided that the product we shall be some

standard with the same provided which were sheep more plentful in

Canada than they are. Sheep may well be clusted as farm improvers.

lene system installed in your home you have no lamp chimners to buy nor any coal of b to draw from town every time you go. Best of all the Acetylene to the common tight is clear, pure bright and pleasant. It needs attended no once a week in winter and once in whether and the competitor in Farm and Dairy's Prize Farms Compatitor.

"Acetylene gas and coal oil light admit of no comparison as a light for farm homes. We have had Acetylene lighting in our home for some time, and when we chance to go out to spend an evening where they still burn coal-oil it is hard for us to realize anything but that the lights are all

anything but that the lights are an going out.

"Were one to burn enough coal-oil to make light equal to that secured from the gas the latter would be as cheap as oil. Of course anyone can the sum of the sum o

cheap as oil. Of course anyone can get along with about one-third the cost if they continue to use coal-oil. "We appreciate our Acetylene al-most more in the barn than in the house. The cost of installing the Acetylene depends on the amount of oning resulted and the auglite of the piping required and the quality of the fixtures used.

"Some people are deterred from in-stalling Acetylene, believing it to be dangerous. If one has the right kind of a machine, we consider it to be far safer than coal-oil.

safer than coal-oil.

"We would not care to be without
Acctylene. It is a luxury and if any
farmer can have it the dairyman can.
We cheerfully recommend Acctylene

"The cost of operating an Acetylene The cost of operating an Acetylene gas plant is not as high as would be supposed. We can light our large house at a cost of \$15 to \$18 a year. Considering the light obtained and the convenience of operating, this cost is very moderate.

is very moderate.

"The machine is easily operated, and requires little time and attention. Any member of the family can clean and recharge the machine in 10 minutes. This is necessary only about once a week during the winter months and once a week during the winter months and once a very two or three weeks. once a week during the winter months and once every two or three weeks during the summer months. That is the only attention that it requires

the only attention that it requires.

"The Acetylene gas plant have from time to time been considered rather dangerous. They considered and cared for is not half and cared for its not half and the same part of the

"I do not think that any up-to-date farm house is complete without some better means of lighting it than some better means of lighting it than the ordinary lamps. Any person that will instal an Acetylene plant will be well repaid for their expense and would be sorry to have to go back to the old way."—Isaac Holland, Oxford Co., Ont., successful competitor in Farm and Dairy's Prize Farms Committion.

If, instead of a gem, or even a flower, we would cast a gift of loving thought into the heart of a friend, that would be giving as the angels

Ontario Wind Engine & Pump Companys LINES ARE SUPREME Majesty of the Law A notorious Texas judge, at an inquest of a dead stranger, found with \$40.00 in one bocket and a six-shooter in the other, said. uAs it is against the law to carry a gun, I fine the corese \$40.00. Mr. Catalogue House says to the unfortunate purchaser of a cheap machine, "I know your machine is no good, but you didn't pay much." Why experiment? Buy the O. W.E. & P. Co.'s Engine, Windmill, Well Drill, Grinder or Pump, and escape such a Judge. If your dealer does not handle our lines, write the Ontario Wind Engine & Pump Co., Limited, at Montreal, Foronto, Winnipeg, or Calgary

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wise to feed Ualme and sell the milk.

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Feeding instructions will be sent each reader of this paper who applies to us for them. Write us to-day and tearn how to raise your calves at much less expense than it has been coeting you in

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BUY CALFINE and try it on those new-born calves of yours. DO IT NOW

Canadian Cereal & Flour Mills, Ltd. TORONTO, CANADA annommonommonomica



in doing it My experience in planting a cedar My experience in planting a cedar hedge or planting spruce trees is that we should be very careful in taking them up out of the ground and make it a point to plant them again as soon as possible. They must be handled carefully. H one has not had any ex-perience in this line he had better get perience in this line he had better get some one has to do the work, espec-ially if he intends setting out hedges. ially if he intends setting out hedges. We use plenty of water; creek water as it can be got nearby. If we had to use pump water we would let it stand in the sun for sometime before using

Along with trees and hedges it looks with the house. In the first place we would get our land well worked, take away any stones or sod, and get our land level. It makes a great deal of difference what kind of land one has to work. If it is level in the first place with deep soil, one will not have much trouble to rake a nice lawn. If it is gravelly and not deep soil, we will have to draw some good soil. For our lawn we drew a number of loads our lawn we drew a number of loads. Along with trees and hedges it looks will have draw some good soil. For our lawn we draw some good soil. For our lawn we a number of loads of rich soil from the bush. The richer the soil from the bush in the fall of rich soil from the bush. The rich soil from the soil from the soil from the soil for the soil from the soil for the soil from the fall to the year we get in the fall of the year we get in the fall of the year we get in the sping after the soil for the sping after the sping af

A COMPARISON ODIOUS TO ONE

In travelling I see there is quite an approvement along this line; but improvement along this line; and improvement along this line; there is plenty of room yet for more improvement. Not long ago I passed by two farm houses not far apart. Both houses were built of brick. One place had a nice cedar hedge and other improvements and looked attractive while the other place was reactive while the other place was long as if no one lived there. For a not one lived there is not one of the place was long as the pla

To-day there are a great many tenant farmers. They cannot be expected to have the same interest in the farms as farmers who are working their own land. The landlord should encourage the improvement of the surroundings of the house and farm.

of the house and farm.

The government is giving prizes for
the best fields of grain. That is all
right. If the government were to give
prizes for well kept farms in general
it would be a greater inducement for
farmers to improve.

"Improved" Roads

"Cyclist," Peterboro Co., Ont. "Updist," Peterboro Co., Unt.
From the farmer's point of view.
"improved" roads may be improved,
but from the point of view of those
who, like me, cover the country on a
bicycle, "improved" roads and mud
holes are in the same class. We have
the mat off and wall as their of them holes are in the same class. We have to get off and walk at both of them I have also noticed that the very farmers who improve these roads themselves are careful to make a wheel track on either side of the im-provement and use it (the side track as long as they can. The farm wages is only seen on the improved portion of the road when driven there by abso-lute necessity.

of the road when driven there by absolute necessity.

All improved roads are not of thicharacter. I was riding last summer in Peel county, in the neighborhood of Brampton, when I came across an improved road that I used and that every farmer used. They were put



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munity, I su steam roller, afford several

May 8

Making B Refere the ower count have a negle way to cut t sickle or scyt! Breeder's Gaze men of the fa men of the ra this task, so co front yard, it breaking off th ers planted b



All kinds of farm profit to the farm confined by line may here be seen off his

'chicken parks" fences so that every unprotecte and vine that de Those days are well kept at pre ts way over the

in trim her of thrift adds to back yard is as one is neat, for n ing the rear of the as the front. THE PLAN

An attractive by the most desirable farm can have, and tle time and money desired result. To vines lend themsel corative purposes decorative purposes outbuildings may screened almost ev year. Any one of a tions calls for a and vines are the things to use. our own bac found the bitter swe

er and grape vine u ghway, and also t color to the scene.
the home must spe
time in the kitcher
outlook lightens labe We have also fours like hollyhocks, a

useful in making scr are prodigious climb namental fruit is 1

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Before the invention of the lawn mower country lawns were apt to have a neglected look, as the only hower country makes were app to have a neglected look, as the only way to cut the grass was with the acidic or seythe, says a writer in the Breeder's Gazette, and very often the Breeder's Gazette, and very often the thic tasks cows or horses grazed the front yard, cows or horses grazed the front yard, the property of the property of

ting the same kind of material, crushed rock on the road as it used on other improved roads mentioned before. But they were doing more. They had a big heavy steam roller there and they were rolling that rock down hard and smooth. Why cannot all improved roads be rolled? Every community, I suppose, cannot afford a steam roller, but surely a county could afford several.

SURE CURE FOR THRUSH THRUSH Was seemed to spring up in a night that of spring up in a night with the serve of spring glories also cover many many many that were recommunity, I suppose, cannot afford a steam roller, but surely a county could afford several.

Werst Cases Yield To Bonglas' Egyptian afford several.

Merst Cases Yield To Bonglas' Egyptian they do last they are glorious. The and make them look forlorn, but while they do last they are glorious. The plants remain from year to year and need very little attention.—Breeder's

Points on Tree Planting

It is better to use stock that has een grown under climatic conditions similar to those where the tree is to

e planted. Trees two inches in diameter are large enough.

The root system should be compact at trunk straight.

Watch for shipment. Do not allow



One of the Most Profitable Crops That Can be Grown on Any Farm

One of the most Protitable Crops I and Can be known on Any rarm
All kinds of farm shock must first meet a heavy feed bill before they yield any
profit to the farmer. Not so with been A. They feed themselves and are not even
confined by line fences. Mr. Wm. Anderson, Peterboro Go. Ont. whose apiary
may here seen, says that apiculture is the one way in which a man may live
off his neighbors and to their divartages as well as his own.

—Photo by an editor of Farm and Dairy.

"chicken parks" with their tall picket trefences so that hens wallowed out I every unprotected plant and shrub aft and vine that dared lift up a timid I head about the door.

head about the door.

Those days are gone forever and
most country lawns are beautiful and
well kept at present. The chickens
are banished, the lawnmower clicks are banished, the lawnmower clicks its way over the firm sod, the flowers bloom in trim beds and a general air of thrift adds to the appearance of the whole farm. But sometimes the back yard is as untidy as the front one is neat, for not all country fam-illes have learned the lesson of keep-ing the area of the meminism as tidy ing the rear of the premises as tidy as the front

THE PLANTS WE USE

An attractive back yard is one of the most desirable assets that any farm can have, and it takes very lit-desired result. The common hardy vines lend themselves cheerfully to ecorative purposes, and the necessary decorative purposes, and the necessary outbuildings may be attractively screened almost every month in the year. Any one of a dosen farm situa-tions calls for a mantle of beauty, and vines are the best and handiest

and vines are the best and nanonese things to use. In our own back yard we have found the bitter sweet, trumpet creepond the bitter sweet, trumpet and grape vine useful in furnishing privacy from a much-frequented highway, and also to give beauty and color to the scene. The mistress of the home must spend much of her time in the kitchen and a pleasant outlook lightens labor on hot days. We have also found common flowers like hollyhocks, golden glow, sunforce, castor beans and gourds very useful in making screens. The gourds are predigious dimbers and their orace produced the second control of the produced th

Photo by an editor of Farm and Dairy.

Plant the trees as soon as possible after they come from the nursery. If the grower is not ready to plant, the trees must be properly cared for Unpack large bundles of stock dig a teench in a shady place and heel the tibe trees in until ready to plant. In any event do not expose roots to air and longer than absolutely necessary at longer than absolutely necessary. This the lower branches to a height than the property of the property of

Trim the lower branches to a height to six to seven feet from the ground. Remove about one-half of the previous year's growth in order to maintain the balance between root and stem

Trim off all torn or broken roots Trim our an torn or orotal left.
before planting.
Plant with as large a root system

The hole should be larger than the ot system.

toot system.

Do not put fresh manure in the hole: it will burn the roots.

Set trees an inch or two deeper than they stood in the nursery.

Arrange the roots to spread naturally.

See to it that the soil is firm about

Do not leave a depression about the stem in which water will stand; stand-ing water at the base of young trees

causes sun-scald causes sun-scald
Water young trees freely. Two
good soakings a week are better than
a small amount of water each day.
Cultivate about the trees. Do not
allow sod or weeds to grow about
young trees.
Place a ground about the

young trees.

Place a guard about the tree.

Support the young tree so that its
growth will be erect, not leaning in
the direction of the prevailing wind.

Do not allow any part of the tree to against supporting stake

Mr. J. L. Boyes, secretary of the Nap-ance Driving Park Association, has had a good deal of experience with thrush on horses' feet, and has tried various reme-He writes:

dies. He writes:

"I have ours! bad cases of diseased feet or thrush on horses with Egyptian Idinizent with two or three applications, after calomel, sait, coal oil, etc., had completely failed to do the work. I consider it a waste of time to use anything but Egyptian Idinizent for thrush."

out egyptian Liniment for thrush."

Such an emphatic statement from an experienced horsemen speaks volumes for Douglas' Egyptian Liniment. Another man who has found it most effective effective Mr. John Garrison, Morven, Ont. He

"One of my horses had thrush so bad that his feet became offensive, and the neighbors advised me hoot him. Be-fore doing so I decided to try Egyptian Iniment, and in a short time my horse's feet were as sound as ever." 66

25c at all druggists. Free sample on quest. Douglas & Co., Napanee, Ont.

Cut Down Fuel Rills

If you would have a house free from drafts — whose walls will turn aside the bitterest gale and keep out the keenest frost—a house which is easy to heat and comfortable to live in—use

"Sovereign" Sheathing Felt

Trade Mark Registered

to interline the walls, floors and

to interline the walls, floors and ceiling, SOVEREIGN Sheathing Felt is really light-weight RU-BER-OID Roofing—a thick, waterproof, windproof, insulating blanket which keeps a house warm in winter and cool in summer. It will endure and protect as long as the building stands.

the building stands.

Get a sample from the nearest
RU-BER-OID dealer, or write for sample and booklet to

Standard Paint Co. of Canada, Limited Montreal-Winnipeg-Calgary-Vancouver

FROST&WOOD

HE Frost & Wood "Climax" has great strength and capacity for any depth of work you want to do. It is a stiff tooth cultivator and will is a suffiction curity and will work ground that a Spring Tooth implement wouldn't touch. Strong legs hold the points at a perfect cutting angle. When solid obstructions are met with the points will spring back and escape breakage.

The "Climax" is a great weed-killer. Use it on summerfallow and it will rid your land of weeds. Lasts a lifetime—Investigate its high quality.

THE FROST & WOOD CO. LIMITED Montreal SMITHS FALLS St. John, N. B.

For Sale in Western Ontario and Western Canada by the

COCKSHUTT PLOW CO. LIMITED BRANTFORD, WINNIPEG

RIVETED STEEL FRAMES AND IN-TERCHANGEABLE

THE "Climax Cultivator" frame is all steel, braced and trussed strongly, and riveted to-gether, soit cannot break. gether, soit cannot break. This frame carries the stiff-tooth standards, to which overlapping or narrow points may be bolted, as desired.

These are held to their These are held to their work by a relief spring and lock, which gives on meeting an obstruction, but holds the point in cutting position at all other times. It is the only Cultivator on the market that has strength enough to has strength enough to rip out the weeds, roots and all.



(20)

AND RUBAL HOMB

Published by the Rural Publishing Com-OR SHADOW

I. FARM AND DAIRY is published every Thursday. It is the official organ of the British Columbia. Eastern and Western Ontario, and Bedford District, Quebec, Dairymen's Associations, and of the Cana-diam Holstein Cattle Breeders' Association.

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old and new addresses must be given.

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any agricultural topic we are aways pleased to receive practical articles.

CRCULATION STATEMENT and Dirty exceed 53:56. The cause of creation of each issue, including copies of the spage seat subscribers who are but slightline of each issue, including copies of the spage seat subscribers who are but slightlines are accepted at less than the full considerable of the spage seat subscribers are accepted at less than the full state of the considerable of the considerable of the spage should be considerable of the considerab

FARM AND DAIRY

WHY IMPROVE?

A few months ago we attended a public meeting addressed by the famous Old Country Divine, Dr. Clifford. The speaker of the evening was well past the allotted three score and ten years, but the eloquence and enthusiasm that he displayed in his address on the social problems of today was such as we had never before seen in a speaker, either old or young. At the close he was asked by a gentleman in the audience to explain why his enthusiasm for social reform was still so great when most men at his age were either satisfied with things as they are or longed for a return of the conditions that existed in the days of their youth. His answer in effect was, that he was not old, that no man is old who continues to strive to improve.

In this young old man's reply we have the secret of life itself. The man who is really living is the man who is eternally progressing. The

FARM AND DAIRY farmer who is thoroughly satisfied with his methods of management with his stock, with his buildings, or with the conditions existing in the community in which he lives has ceased to really live. The discontent that ever keeps us striving for bigger crops than the ones we now grow, for greatar milk records than the great ones that we now have, for better schools roads and social life in the community in which we live, is divine. As long as we are possessed of this divine discontent we will continue to be young. no matter what our years, and will be numbered among those whose life counts for something in the commun-

Why improve? Because it is life Stoole

FARM PROSPERITY

In reply to a motion introduced in the Ontario Legislature by the Liberals advocating the appointment by the Government of a commission to study the causes of rural depopulation, Hon. Jas. S. Duff, Minister of Agriculture, contended that there was no need for the appointment of such a commission. In support of his stand Hon. Mr. Duff claimed that the farmers of Ontario were never more prosperous than at present, this fact being shown by the fact that land values in farm communities have been steadily advancing. It evidently has never struck Hon, Mr. Duff that the advancing farm values to which he refers may be one of the chief causes of rural depopulation. Yet we venture to say that this is the case.

In the United States, where figures are more readily available than they are in Canada and where agricultural conditions are much the same as they are on this side of the line, it has been proved over and over again that as land values increase, farmers are encouraged to either rent their farms or to sell them and move to newer sections of the country where land values are not so high. This is one of the chief reasons for the great exodus that has taken place during recent years to the Canadian west from the central middle states, such as Illinois, Iowa and Nebraska, and we might add from the Province of Ontario. How certain is this principle is shown by the fact that in those states, except in the south, where land values are the lowest, the proportion of farmers who own their own farms is the highest, while in those states where the values are the highest, the percentage of farmers owning their farms is the lowest. In Maine, where land values average from twenty dollars to forty dollars an acre, only four per cent of the farmers are tenants. In central Illinois and central Iowa, the very heart of the corn belt, where land sells at two hundred dollars an acre and over, the proportion of tenants to owners is the highest of any section in the Northern States, ranging as high as sixty-seven per cent. It is from these latter states also that the greatest exodus to the Canadian west is taking place.

tricts are a primal cause of rural de- of the advantages they were just by population is now recognized by lead-ginning to enjoy. The farm organizaing Agricultural Colleges in the tions, therefore, have a choice either United States. Mr B H Hibbard Professor of Economic Science in the Iowa State College of Agriculture. speaking on the decline in rural population before the second Wisconsin freedom Country Life Conference, made these statements.

"The conclusion seems inevitable. "There are more rural people liv-"ing in those districts where land is "used primarily as the foundation "for a home and not as an invest-"ment. Where it is capitalized at "the highest possible figure and put "upon the market either for sale or "for rent, it falls into the hands of "men who exploit it commercially. "and in doing so handle as many "acres as their means and skill will "permit, pushing the number of 'acres as high as possible for each "rural laborer belonging to the "family, either as a member of it "or as a hired helper. This un-"consciously reduces the number of "rural people living on a given "number of acres. This is part of "the same set of forces which leaves "the poor land in the hands of own-"ers and puts high-priced land in "the hands of tenants."

It is evident from Hon. Mr. Duff's statement that he has never studied this aspect of the question. Although he did not realize it the very reason he gave for not appointing a commission was the strongest argument that could have been advanced for its appointment.

THE U. S. TARIFF

Canadian farmers have strong reasons for believing that they will profit from the proposed changes in the United States tariff. The breaking down of Uncle Sam's tariff wall, so far as it effects farm produce, will give us a new market for the surplus ers. production of our farms and hence more satisfactory prices. This same condition, however, is placing the farmers of the United States on the horns of a dilema.

For over a generation they have been taxed by a tariff intended to build up and protect the manufacturing interests of the United States. They themselves, while protected somewhat, were producing such a surplus of agricultural produce and shipping it to foreign lands that the price they received for their produce, until within the last three or four years, was regulated by the price of their goods in foreign lands. Now. however, home consumption has overtaken home production, and the farmers are in a position, through the protection that they have, to get a price higher than the world's price that they have previously been getting.

But now they find that, just as soon as they stand to benefit from the tariff, the customs regulations are to be re-arranged and the duties on the necessities of life, largely farm pro- they hesitate to make the neces

That high land values in rural dis- greatly reduced. This will strip the of standing still and doing nothing fighting for a continuance of the tarif privilege, or of demanding that all in dustries be put on the same basis of

Whether or not we believe in protection, it is evident that a large proportion of the electorate of the United States are beginning to question in honofit

WHAT IMPROVEMENTS FIRST

There is a natural desire in the heart of every ambitious young man to have his farm "top notch" in ever respect. Most of us, however, las the necessary capital to make all the improvements for which we long A times we become discouraged because of the slow progress that we seem ; be making towards our ideal. On piece of advice there is that applied in all such cases,-make the produc ive improvements first.

First on the list of productive in provements on the dairy farm, w would place high-class dairy cattle The greater portion of our income at the hope of further improvements in the returns from our dairy hero We will make little progress toward our ideal farm if we are giving thin dollars' or forty dollars' worth of for a year to a cow producing thirty do lars' or forty dollars' worth of mil And yet this is exactly what man farmers are doing in every province Canada. They fail to see that a co that will produce one hundred dollar worth of milk in a year at a feed or of fifty dollars is just five times profitable as the cow that produce forty dollars' worth of milk on thin dollars' worth of feed. With the o hundred dollar cow we are in a pa tion to make progress as dairy far-

A few years ago Prof. W. H. Day through carefully compiled statistis proved that the average increase it crop value per acre through under drainage in Ontario was \$21.65. Pretically every farmer who has under drained his land, under the supe vision of Prof. Day's department s the Ontario Agricultural College, gotten back both principal and i terest in two or three years. He tile drainage, where it is needed, m be classed as a productive impro ment and one which farmers can afford to neglect.

Orchards, unprofitable because a glected, are found in practically en county of Ontario. Some of the ma unpromising of these orchards have the last two or three years been ma to return splendid crops through po per pruning, fertilizing and spraying

Many young farmers, and old es too, are not accomplishing one-half what they might because they s farming, or attempting to farm, w out-of-date and inefficient implement With so many demands on their put duce, are to be done away with or investment in improved machine

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Of cours what this r mate, relia advertiser. in Farm an will believe when they Dairy.

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"A Paper

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from the start. The ambitious man who is determined to reach his ideal in farming, will be wise to make these improvements first. All others will follow as the logical consequence.

AD. TALK LVVVIII

It has probably occurred to you how notable was the forward step we took early last November when we came out and absolutely guaranteed our advertisers to "Our Peo-

Imagine yourself as backing the terms of our absolute Guarantee! Just read it over again from that point of view. As you read it the thought will come to your mind that Farm and Dairy, and its companion paper, The Canadian Horticulturist, are the only papers you know of in Canada that you could safely stand back of and make this iron-

stand back of and make this iron-cial guarante:

"We guarante that every ad"We guarante that every ad"We guarante that we will be a sea to the sea of sood the amount of your loss, provided such transaction occurs with in one month from date of this issue and, that it is reported to us within one week of its occurrence, and that we find the facts to be as stated. It is a condition of this contract that is writing to advertisery you state: I have your advertisement in Farm 1 and 1 your advertisement in Farm 1 your advertisement you will read you have to be advertise, one pay the debts of honest bank-rupts."

This guarantee you will recall. superseded our 5-year-old Protective Policy, under the terms of which we had always excluded from Farm and Dairy all questionable advertising and ads. of Patent Medicines, Electric Belts, Liquor, Tobacco, etc., etc.

Because of our guarantee as much as 221/2% of commercial advertising offering, and over 37% of advertising available in our field, we must pass by and debar from the use of Farm and Dairy columns.

Of course you appreciate just what this means to you as a legitimate, reliable manufacturer advertiser. "Our People" believe in Farm and Dairy implicitly. They will believe your advertisements when they read them in Farm and

Dairy,
"Our People" have come to know that our guarantee means all that it says. It means very much to them and they know Farm and Dairy as,-

"A Paper Farmers Swear By"

A PAINTING COMMUNITY

Anyone crossing the border into These are a few of the farm im- Michigan with the intention of provements that are profitable right "painting Michigan red," to use a slang phrase, would find that some one else had been there ahead of them. An editor of Farm and Dairy recently passed through Michigan on his way to the National Conference of Markets and Farm Credits at Chicago. One of the features of the country that particularly attracted our attention was the well painted buildings.

Michigan does not go in so strongly for corn as the other states of the corn belt. Live stock is their line of farming, and consequently good buildings form a more important part of the farm equipment. These buildings were much the same in plan of construction as are buildings in the best farming sections of Ontario. what a difference! Practically all the outbuildings were painted, and instead of being a blur on the landscape, actually added to its attractiveness The houses were frame and they too were well painted, in this case usually being white

We predict that if many Canadian farmers wou'd take a trip into Michigan, one of the first farm improvements they would think about on getting home would be paint for their farm buildings.

The Ticket Scalpers

The Ticket Scalpers

By Ernest Reeder

I met the queer fellow from Mars
the queer fellow from Mars
this think you Earthinas call 'ticket
scalping?' I see your police department is trying to put a stop to it.'' I
explained it to him, how speculators
bought up theatre and football seats
in advance, not intending to use them
personally, but to hold them against
personally, but to hold them against
dhim that it was a nefarious business, and the public was justly indignant.

dignant.

His eyes twinkled; he always looks
that way when about to say silly
than the said:

"You Earthians do beat the band.
You despise speculators in seate to
such trifles as plays or games which
no one is compelled to attend, but you
have small the said:

Earth which the no one is compelled to attend, but you honor speculators in your Earth which is the source of life and health for everyone. I was told the other day everyone. I was told the other day that some of your biggest fortunes belonged to speculators in sites, men who got the tickets in advance (you call them deeds, I believe) but who didn't use the sites nor let anyone clasuse them, but just held them for clasuse them, but just held them for clse use them, but just held them for a rise, and then, as your people say, 'soaked' the buyers. Now,' said he, 'these big Earth speculars you hold in the highest repute; they are among your best citizens, but the little ticket speculators you abuse, call them. Won't you kindly show me the differ-ence?"

I tried to show him, but the more I talked, the less he seemed to understand. Finally he said that it seemed to

stand. Finally he said that it seemed to him that speculation in the Earth was highly immoral, more so than speculation in seats to games or plays. He shook hands at parting. There was a queer look in his eyes as they met mine. I am not sure that he ought to be at large.

When applying nitrate to plants in active growth care should be taken not to ccatter it on the leaves as it is very injurious to the foliage of many garden plants and vegetables with data leaves.

A straight from the shoulder message to separator buyers

Beware of separator salesmen who claim that their machine is "just like the De Laval" or "as good as the De Laval." Such claims are all absolutely false.

Such imitators juggle with words.

Instead of putting into their machine the experience and



the workmanship and the material necessary to make a cream separator anything like as good as the De Laval, they find it cheaper and easier to "claim anything" and make a bugbear of "price" to keep the buyer from discovering the mechanical shortcomings of their machines

They go on Barnum's theory that the people like to be fooled, and they don't care how they get your money just so long as they

It is unfortunate that the separator business should be burdened with such unfair business methods, but since it is it behoves every prospective separator buyer to use care and good judgment in the selection he makes.

Look well to the demonstrated ability of the concern that makes the machine to build a good separator. Avoid buying a machine whose makers have had little separator experience, or who are constantly changing from one makeshift type to another.

Talk with separator users who have learned by experience. The more you investigate the more you will find that there

is one and only one separator that stands in a class all by itself. It was the pioneer cream separator in 1878 and it has been

You will find that more machines of this make are being sold than all other makes combined.

You will find that 98 per cent. of the world's creameries use it exclusively.

You will find that its makers are so confident of its superiority that you may have a free trial of it alongside any other machine and judge for yourself as to which machine will serve you best.

This machine has over 1,500,000 satisfied users. It will serve you best, save you most, and last the longest.

If you want to be sure of making a good bargain buy a

De Laval Cream Separator

DE LAVAL DAIRY SUPPLY CO., LIMITED PETERBORO WINNIPEG VANCOUVER

CREAM

Sweet or Sour

We are buyers of Gream and will pay the highest price for it per Butter Fat test. We will supply the cans. Make prompt returns by Bank part, payable at par, at any Bank in any town. We will operate the year around.

References Bank of Montreal. THE BOWES COMPANY, Limited 74-76 Front Street E.

FARM HELP

Weekly parties of Young Men now arriving. Apply: BOYS FARMER LEAGUE DRAWER 126 - WINONA, ONT.



THE "BEAVER" CHURN **INCREASES BUTTER PROFITS**



There is a big profit for the Creameryman who uses a "Bea-Perfection Combined Churn and Butter Worker.

He is able to churn best quality butter at small expense, be-cause the "Beaver" costs very little to run and does not have to be overhauled and repaired continually. The "Beaver" Churn works the butter evenly and smoothly

so that the grain is not destroyed.

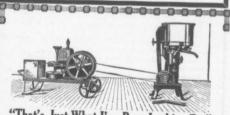
to that the grain is not destroyed.

One look at the "Beaver" Churn shows how carefully it is constructed. It is made so that waste and loss are impossible. The operator can see just when to stop the churn and remove the

Datch.

All the mechanism is at one end, making it easy to handle. It will pay every Butter Maker to investigate the merits of this machine. Write for full particulars to-day before you forget. The price is reasonable. Address Dept. "B."

W. A. DRUMMOND & CO., King St. E. Toronto, Ont. (Creamery and Dairy Supplies)



"That's Just What I've Been Looking For"

WHILE we were getting the opinion of farmers on our new cream separator power outfits, one of on our new cream separator power outrits, one of the many companies of the combination as this for a long time. I need an engine with that kind of a gear on it to work down the speed. There are half a dozen small machines on my farm for that engine to run. I want that outfit." You, too, will want it when you see it. The outfit consists of an

I H C Cream Separator Dairymaid or Bluebell

and a one-horsepower back-geared I Hc engine. The engine is mounted on a portable truck, and can be used for any farm work to which power can be applied. The back for adjustment runs at the proper speed to operate any hand turned for adjustment runs at the The working parts on I H C cream separation; are accurately made and all bearings are well lubricated. The shafts and spindle are the strongest used in any separator. The gears are easily accessible for cleaning. Both separators have the famous I H C dirtarrester.

er.
See the I H C local agent and ask him to explain carefully all of
the good points of these outfits. You can get catalogues and
full information from him, or, write the nearest branch house.

International Harvester Company of Canada, Ltd

ry, Edmonton, Estevan, Hamilton, Lethbridge, Lecawa, Quebec, Regina, Saskatoon, St. John, Win



******* **Creamery Department**

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

And How About Grading?

Cream grading, that is paying for cream on a quality basis, is now firm-ly established in some camery sec-tions of Canada For several years Alberta creameries have practised the grading system and the quality of grading system and the quality of their butter has improved at a rate that it never would have done under the old system still in vogue in East-ern Canada. So good is their butter that it companies. can change a series of the control o

Several states of the United States now regard cream grading as a fixed institution. Dairymen in those states institution. Dairymen in those states wonder why they were ever so simple as to expect to improve the quality of as to expect to improve the quality of their output when paying the man who brought low testing cream that was stale and dirty the same price as they were paying the more progres-sive patron who took care of his pro-

Recently cream grading has b given a slight test in Ontario.
or two factories we believe. believe, have or two factories we believe, have been paying a premium for cream testing high in butter fat. The sys-tem, however, is not general and it is time that Ontario creamery men were giving cream grading and pay-ment by quality a thorough test. It has to come in the long run. Why not get in on the ground floor?

Straight Fee or Over Run?

John F. Uren, Brant Co., Ont. John F. Uren, Brant Co., Ont.

I prefer the straight fee system of
paying creamery men for butter-making; that is,
and the straight fee system of
have operated my creamy for nearly
four years on this system,
four years on this system
of this system nothing goes into the
creamery manager's pocket by cutting
the natrons' tasts.

te patrons' tests.

I will give an example to illustrate I will give an example to illustrate our system to determine the price to pay for butter-fat: Fron 100 lbs of butter-fat, we will suppose that we make 120 lbs. of butter that is 20 per cent over run. The butter is soil per cent over run. The butter is 200 per cent over run. The sum of butter butter being \$36. Now we'rill allow the cramery man three cents a pound, which equals \$5.00. leaving \$32.40 for the patrons. This amount from 100 lbs. of butter-fat is equal to 22 -26 a pound clear to the patrons. If the creamery man made butter 32 2-50 a pound clear to the patrons. If the cramery man made butter from the over run, which in this case is 20 lbs. of butter, at 30c a pound, it would amount to 86. Six a pound, it would amount to 50. Six dollars for making 120 lbs. of butter is equivalent to five cents a pound, and the patron would get only the price for which the butter sold, 30c, instead of the 32-55 that he received when the straight fee system was used. straight fee system was used

WHY HE GOT RICH

WHY HE GOT RICH

The greater number of cream producers do not understand the over
run in butter-making, or the system
on which the business is conducted,
new found that the more instructions I can give my patron, the less
complaints I receive. To illustrate; Some time ago a man from one of

the western counties came into my creamery and asked me how much I received for making. I told him three cents a pound. "We get ours made cheaper than that," he said. "Doss cheaper than that," he said. "Does the creamery man make a living?" I enquired. "O yes, he's getting rich," was the answer. I then asked him enquired. Go yes, he's getting rich, was the answer. I then asked him what they paid him, and he said two cents a pound and the run. Another day a patron of a butter factory told me that a certain cenamery did not use acid for testing, but used the Babcock tester.

Once a year, about February 1st, we hold a patrons' business meeting, when the reports of the business for when the reports of the business for the past year are given by the secre-tary-treasurer, who, as well as the auditors and advisory board, are apauditors and advisory board, are ap-pointed by the patrons, that is not understood is explained at these meetings, and is a very noticeable fact that the patrons who are always dissatisfied are the ones who are conspicuous at this meeting by their absence.

by their absence.

Some creameries hold out a high price for their butter fat just to coax the patrons from other creameries. But the majority of the creameries that pay the big prices are making for the over run. They do not hold for the over run. any meetings, and the patrons know little or nothing outside of their cheque and statement, and some cannot understand them.

When Changing Your Job

By Jas. Sorensen.

The poorest recommendation that a The poorest recommendation that a buttermaker can have is that he changes position every time some lit-tle thing goes against him, as this is positive proof that he lacks tact, and doesn't know how to adjust himself to conditions as he finds them. Tact and good judgment are two qualifica-tions that a huttern-tions that is not made to and good judgment are two qualifica-tions that a buttermaker must have in order to get along anywhere, and the man who lacks in these qualifica-tions will atir up trouble when no trouble exists, and he will never be able to find a place where he will get along for any length of time.

When you leave your old position don't make an effort to leave the creamery in as bad condition as possicreamery in as bad condition as possible or try to discredit the new man. You may think you are boosting yourself in this way, and you nb doubt are, only you get boested the wrong way. It will pay any buttermaker to make a special effort to leave his creamery in the very best condition. He may think as long as he leaves the community that he might as well make the creamery as much trouble make the creamery as much trouble make the creamery as much trouble as possible, if for no other reason, than just to get even with somebody, that have the the way his mind runs. But it is mighty poor business, and such a buttermaker's reputation will follow him wherever he goes. ble or try to discredit the new man.

The young man who wants a position where he can learn buttermaking should not lay too much stress on the size of the salary, but he should try to get a place where he can learn something, and whether he receives 10 dollars a month more or less does not matter much, but what he wants is to work under a man that knows how to instruct him right. A good start means a great deal, and if a man learn to be a good all arround buttermaker, he does not need to worry about the salary, as he will be able to about the salary, as he will be able to the should be s

The best maker you can get, no matter what the price, is the cheapest man.—D. Derbyshire, Leeds Co., Ont.

May Che

99999 Nugge

to the icts unl armers nt a ski ur dairy rst and nths ur wanda. arted rig sting. Many z

An Inc

has to r is do tory and trons in the passable of ands of mil Many of or

handling n for the e that we h ve known n nge the wa makers on day rega will requi

making the loss in ated for by makes a kers make a amount of it over-ripe of the curd with over-ri

the prepar d that some ufficient to se rs smoothly. is a true on well. If it ld be thrown

inted paragrap Publow Chi rio at organiz ork County Ch

Cheese Department

Makers are invited to send content.

Solve the content of time after it has been prepared and then allowed local for demantion. After the local time content of the content of the

Nuggets of Wisdom for the Maker*

No cheesemaker has a right to go lio the manufacture of dairy prosent letter unless he is proporty educated, armore cannot afford to have as the little man making cheese. It was the little man making cheese has the dairy shool work rat, to take the dairy shool work rat, to take the dairy shool work rat, to take the dairy shool work rat, and the practical was a constant of the little was a little



An Indication that New Zealand is in the Dairy Business to Stay An Indication that New Zealand is in the Dairy Business to Stay Negramawhia Cooperative Butter Factory, here illustrated, is on the North Garmawhia Cooperative Butter Factory and a three one are characteristic of the Zealand, and show that factories used as this one are characteristic of Example of the State of the

are not properly assisted. All has to be done at the proper and done well. The average r is doing good work, but he to be expected to do it all himanot be expected to do it all him.

If He must have good help in the

tory and the cooperation of his

trons in the production of the milk.

passable cheese can be made from

er-ripe milk but it will take more

unds of milk to make it.

Many of our makers and patrons handling milk do not make allowof or the difference of the difference in temperare that we have trones in temperare that we have trones who on a
summer night would be a
summer night would night to be
ange the water in the cooling to be
makers on the other hand, were
makers on the other hand, were
my the same amount of culture
ry day regardless of the change in
perature. In warm weather the
lik will require less culture and vice
sa.

is. In making choose from over-ripe is the loss in the choose is greater in the loss in the choose is greater in the loss in the valvey. This is acmed for by the fact late. Many kers make a drier choose. Many kers make a mistake receasing amount of sale when the distribution of the curd and thus we are make our choose still drier. Use less with over-ripe milk. with over-ripe milk.

the preparation of the culture, d that some makers think that it imeient to see that it is thick and rs smoothly. These two conditions not always indicate that the culsis a true one. It should be tastas well. If it has a bitter taste it ald be thrown away and a new one nted paragraphs from an address by Publow Chief Dairy Instr. for E. rio at organization meeting of the rk County Cheese Makers' Olub.

In 1911 I saw cheese that were In 1911 I saw cheese that were just as nice as anyone could desire. But there was grease on the shelves, and grease on the flow and grease all over. It was the excessively hot weather that characterized that season. These cheese stayed a week in that grease before inspection. The remedy—cool curing rooms—R. W. Ward, Dairy Instructor, Peterboro Co., Ont. Co., Ont.

All make the cheese from a half a pound less of milk, a quarter cent a pound more for the making.

It is not enough to make good cheese. It must be marketed to adcheese. It must be marketed to advantage. The up-to-date maker is the
man who studies the market. If the
market is over-stocked he should turn
out cheese of a quality that will
enable blem to be held over until the
channal dinerases. That is, they will
enable to be kept longer in the curingroom, think all our cheese should
be kept in the curing-room at least 10
days. The spring for example, the
channal for law pring for example, the
channal for law bear this in
mind in marketing his product.

We must remember that the middle-man is not concerned in the keeping qualities of the choese when it reaches the consumer. He will sell cheese at any time he can make a profit. It is then up to the maker to hold his cheese till it is properly cured. Every equipped for this purpose. When cheese is factory should be properly equipped for the purpose. When cheese is properly cured the cheese-maker's independence of the market conditions is increased.

cheesemaker should receive enough to pay expenses, have a sinking fund of \$300, and then his salary.

D. Derbyshire, Leeds Co., Ont.

malite

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Sanitary Closets, etc. STEEL TROUGH & MACHINE CO., Ltd.

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TO not tell people to be cheerful. Tell them something that will make them cheerful .- Larson.

Rose of Old Harpeth

By MARIA THOMPSON DAVIESS

"Copyright, 1912, The Bobbs-Merrill Company" (Continued from last week)

"The time for saying has passed, asked Uncle Tucker with a and I'm afraid to look forward to the "They are some women in the Uncle Tucker quietly "After Gid world, if a man was to seal up was gone on up the road I walked his trouble in a termater-can and swoller it, would get a button-hook and a can-opener to go after him to get it You belong to that persuasion.

"I want to be the tomato-can—and "I want to be the tomato-can—and not be 'swollered'." answered Rose Mary as she reached over and gently removed the tattered grey roof from off the white shock and began to smooth and caress its brim into some-

smooth and carees its brim into some-thing of its former shape. "I know something is the matter, and if it's your trouble it's mine. I'm your heir at law am I not?" "Yes, and you're a-drawing on the estate for more'n your share of pest-ers, looks like," answered Unde Tuck-ras he raised his eyes to hers wist-

"Is it something about—about the mortgage? mortgage?" asked Rose Mary in the gently hushed tone that she always used in speaking of this ever couchant

enemy of their peace.
"Yes," answered Uncle Tucker alowly, "it's about the mortgage, and I'm ly, "it's about the mortgage, and I'm mighty sorry to have to tell you, but I reckon I'll have to come to accepting you from the Lord as a rod and staff to hobble on. I—I had that staff to hobble on. I-I had that ing 'fore he left and it came pretty nigh winding me to see how things stood. Instead of a little more'n one hundred dol'ars behind in the interest we are mighty near on to six, and by right figures, too. It just hasn't measured out any year, and I never stopped to count it at so much. stopped to count it at so much. Gid
was mighty kind about it and said
never mind, let it run, but—but I'm
not settled in my mind it's right to hold on like this; he maybe didn't mean it, but before dinner he dropped a word about being mighty hard pressed for money to keep up this here white ribbon contest he's a-running against his own former record ning against his own former record.

No. I'm not settled in my mind about
the rights of it," and with this uneasy reiteration Uncle Tucker raised
his big eyes to Rose Mary in which lay the exact quest for the path of honor that she had met in the young eves of the General not two hours be fore. In fact, Uncle Tucker's eyes were so like Stonie's in their mournful demand for a decision from that Rose Mary's tender heart throbhed with sympathy but sank with dismay at again having the decision of question of masculine ethics presented to her.

ed to ner.
"I just don't know what to say,
Uncle Tucker." she faltered, thus failing him in his crisis more completely than she had the boy.

Uncle Tucker quietly "After Gid was gone on up the road I walked over to Tilting Rock and sat down with my pipe to think it all over.

My eyes are a-getting kinder dim
now, but as far as I could see in most
all directions was land that I had al-

comforted expression coming into his "You're one of the women who eyes. "You're one of the women wno knot a bridle out of a horse's own tail to drive him with. Have you got this scheme already geared up tight,

ready to start?"
"It's only that Mr. Crabtree brought word from town that the big grocery he sells my butter to would agree to take any amount I could send them at a still larger price. If we could hold on to the place, buy more cows and all the milk other people in Sweetbriar have to sell I bethan the interest more than the interest every year. But if Mr. Newsome needs the money, I am afraid—he might not like to wait. It would be a year before I could see exactly how things succeed—and that's a long time."

"Yes, and it would mean for you to just be a-turning yourself into meat and drink for the family, nothing more or less. Rose Mary. You work

like you was a single filly hitched a two-horse wagon now, and that would be just piling fence rails on top of the load of hay you are already a-drawing for all of us old live stock. You couldn't work all that butter."

'Den't you know that love mixed

As Beautiful a Farm Drive as One Would Wish to See

st attractive feature of the home of R. J. Waller, Peterboro Co., Ont., lined drive here illustrated. Th's photograph was taken looking toward.

I. The Wallers believe in tree p'anting and consequently their home one of the most attractive in Peterboro County.

ways called mine since I come into a man's estate. And there is none of it that has ever had a deed writ aginst it since that first Alloway got it in a grant from Virginy. There is meadow land and corn hillside, creeks for stock and woodlands for shelter, and the Alloways before me have fenced it solid and tended it honest, with return enrichmend for every And now it has come to me in my old And now it has come to me in my oid age to let it go into the hands of strangers—sold by my own flesh and blood for a mess of pottage, he not knowing what he did I will believe, God help me. I'm resting him and the judgment of him in the arms of Mercy, but my living folks have got to have an earthly she'ter. Can you see a way, child? As I say, my eyes are a getting dim."

"I can't see any other shelter than the Briars, Uncle Tucker, and there isn't going to be any other," answer-ed Rose Mary as she stroked the old hat in her hand. "You know sometimes men run right against a stone wall when a woman can see a door plainly in front of them both. She just looks for the door and don't ask to know who is going to open it from the other side. Our door is there I know-I have been looking for it for a long time. Right now it looks like a cow gate to me." and a little reluc-tant smile came over Rose Mary's grave face as if she were being forced

in the bread of life makes it easy for the woman to work a large batch for her family, Uncle Tucker?—and why not butter? Will you talk to Mr. Newsome the next time he comes and Newsome the next time he comes and see what he thinks of the plan? I would tell him about it myself—only I.—I don't know why, but I don't—want to," Rose Mary blushed and looked away across the Road, but her confusion was all unnoticed by Uncle Tucker, who was busily lighting a second pipeful of tobacco.

second piperui of topacco.

"Yes, I'll talk to him and Crabtree
both about it." he answered slowly.

"I can't hardly bear the idea of your
doing it, child, and if it was just me I wouldn't hear tell of it. but Sister Viney and Sister Amandy — moved they'd be like a couple of sprouts of their own honeysuckle vine that you had pulled up and left in the sun to with III. wilt. Home was a place to grow in for women of their day, not just a-kinder waiting shack between stafor women of their day, not just a-kinder waiting shack between sta-tions like it has come to be in these times of women's uprising — in the

We don't get much "We don't get much new woman excitement out here in Harpeth Valley, Uncle Tucker." laughed Rose Mary, glad to see him rise once more from the depth of his depression to his usual philosophic level. "You wouldn't rom the depth of his depression to his usual philosophic level. "You wouldn't call —er—er Mrs. Poteet a modern woman, would you?" "Fly-away, Peggy Poteet is the

to give up a cherished secret before she were ready for the revelation. "And if the gate sticks. Rose Mary, I believe you'll climb the fence and pull us all over, whether or no," answered Uncle Tucker with a slightly answered whether they saw the comely mother of whether they saw the comely mother of whether they saw the comely mother of the saw where they saw the comely mother of the saw where they saw the comely mother of the saw the saw the comely mother of the saw the the seven at her gate administer the seven at her gate administering refreshment in the form of bread and jum to all of her own and quite a number of the other members of the Swarm, including the General and the reclothed and shriven Tobe. "If then is another Poteet output next Apri with a laugh.

"But there never was a baby since Stonie like little Tucker." answered Stonie like little Tucker," answered Rose Mary in quick defence of the small namesake of whom Uncle Tucker was secretly but inordinately proud "Yes, and I'm a-going to report yea

to the society of suppression of mer folks as a regular spiler, Rose Man Alloway, if you don't keep more sten Alloway, if you don't keep more stern than you are at present with me and Stonie, to say nothing of all the men members of Sweetbriar from Everett clean on through Crabtree down to that very young Tucke Poteet. You are one of the womes that feed and clothe and blush of men like you were borned a hundred vears ago and nobody had told vo

years ago and nobody had told you they wasn't worth shucks. Are you a-going to reform?"
"I'll try when I get time," ans-wered Rose Marry with a smile as ab-bestowed both a fleeting kiss and the old hat on Uncle Tucker's foreless over the wall. "Now I want to me in and make a few cup custards, a I can save one for Mr. Mark when he gets home to-night. He loves the cold. Little cooking attentions never spoil men, they just nourish then Anyway, what is a woman going thave left to do in life if she sheds the hovering feathers she keeps to to

CHAPTER VII. THE SATSUMA VASE

"Well, howdy to-day, Mis' Potest exclaimed Mrs. Rucker as she can across her side yard and leaned on across her side yard and leaned or the Poteet fence right opposite t Poteet back porch. "I brought n this pan of rolls to set away for M Poteet's supper. When I worked at the sponge looked like my pride at 'em riz with the dough and I jis felt bound to show 'em off to son body; I know I can always count a w open mouths in this here nest

"That you can and thanky squak too, Mis' Rucker. I don't know he ever I would feed 'em all if it wan for the drippings from your kitchen answered the placid and always is provident Mrs. Poteet as she pick up Shoofly and came over to the few delighted at a chance for a few minute of the state of th utes parley with the ever busy practical Mrs. Rucker. She balat husy a the gingham-clad bunch on its of wobbly legs beside her, while through the pickets of the fence in gre were thrust the pink hands of Pei the bond, who had followed in a wake of his own maternal skin Shoofly responded to this attents with a very young feminine gurget delight and licked at the chubby is thrust toward her like an overjoo young kitten.

'Well, Monday is always a seday, so I try to kinder peck up Monday supper. Singing in the of twict on Sunday and too much co with the other men on the store always kinder tires Mr. Rucker of he can't hardly get about with sciatica on Monday, and I have humor him some along through day. That were a mighty good mon circuit rider preached

(Continued next week)

The Heati Mrs. C. Moo To talk abou this time of ye arm enhiont arm subject, ake preparati ng appliances i question unsett er arrives. If 10, our hon o samo unsat have been heret have very

st how uncom use poorly he mes where the ould be in the vo was set u is was only u By havin in this roo oroughly chil Accordin es. According t while at the ore was anythi We have a fur ve often wond we ever man It is almost pors warm with arnace the floor hen too, all the in be heated at

nd we no longe

e did at one time We believe the

rmer, who has i

around a sto

de and had the se b s they milk-house milk-house ly mother of dministering of bread and nbers eral and the

1913.

next Apri a baby since ence of the Incle Tucker tale aroud o report you Rose Mars more sten nt with me ig of all the thriar from ng Tucker d blush on

Are you time," ass emile as a ciss and the r's forela want to n custards, s
Mark where loves then
ations never n going eps to the

ad told ro

ASE s she can pposite the pride on and I just ys count e here nest. nky squab t know her if it was ar kitchen she pick he balana on its of

s attenti ne gurgiet chubby i n overjop hrough t

The Heating of Our Homes

Mrs. C. Moore, Huron Co., Ont. To talk about heating our homes at To talk about heating our homes at this time of year may seem rather a warm subject, but really the time to make preparations for installing heatmake preparations for installing heat-ing appliances is in the warm weather. It is not a good plan to leave this question unsettled until the cold wea-ther arrives. If we do, nine chances out of 10, our homes will be heated in the same unsatisfactory way as they have been heretofore

ave been heretofore.

I have very vivid recollections of
ust how uncomfortable one feels in a
ouse poorly heated. I have been in
omes where the only fire in the house
rould be in the kitchen. Of course a would be in the kitchen. Of course a store was set up in the parlor, but this was only used when "company" came. By having only an occasional fire in this room it would become thoroughly chilled and damp and could not be warmed up in a few minutes. Accordingly the poor visitor the country of the country o phere was anything but cheerful.

We have a furnace in our home and

We have a furnace in our home and are often wondered since getting it too we ever managed to live without I. It is almost impossible to keep boors warm with stoves, but with the innace the floors are always warm. Hen too, all the rooms in the house an be heated at an even temperature and the state of th Hen too, all the rooms in the house in be heated at an even temperature in we no longer have to sit hudded around a stove to keep warm, as the did at one time.

We believe that every up-to-date garmer, who has not a furnace in his its consequently, when you to the same property in the same property of the same property of

farmer, who has not a furnace in his to its use.

home, should not put off installing one for another year as we did, but a machine, which tears it into shreds and turns it out in the form of a fine summer to have one in readiness for operation before the cold winter fiber enters largely into the manufacture weather sets in. I predict that every ture of the "Turkish" eigarotte, for weather sets in. I predict that every farmer who does so will have his wife's heartiest cooperation and assistance in planning for the furnace—and many other things that he may pro-

The Cigarette Plague Harry D. Rellemith

Go to any big factory of the cigar-ette making firms, and you will find, in some part of it, a storchouse filled

ette making firms, and you will find, in some part of it, a storehouse filled with heaps of rope-hempen ropes collected from ships and shipyards, through the junk dealer. Here is a pile of new short ends, cut off as waste by the ship fitters and sailors; there, a pile of old ropes, but all are hemp, hemp, mind you, not tobacco. Now, just as nicotine is the essential property of a pile of the state of the

which you pay a fancy price, you will



Both Useful and Used

Both Oserul and Oserul as seen as seen in front of the home of Arthur Watson and Sons, Eigin Co. Ont. Mr. Watson's daughter and two sons are to be seen to the left.

begin to realize where the harm comes

If you found that your boy smoked opium or that your girl was addicted to morphine, you would have a pretty bad half hour—would you not? Yet bad nair nour—would you not? Yet this habit of smoking eigarettes is in-finitely more fatal to body and mind. hnitely more ratal to body and mind. He is becoming a victim of the most soul-destroying drug habit known throughout the wide world—hasheesh.

An Act of Courtesy

It was a hot July day,

A woman carrying a baby on one arm and a heavy valise in the other hand was hurrying across the city.

She was on her way to the railroad

She was on her way to the railroad station. The woman was hot and tired and the baby was freity Behind her shambled a tall, rather awkward looking man, with long hair and a kindly face. As he ap-proached nearer the woman's flushed and tired long countenance at-tracted his attention.

The way the way to the railroad and the counterpance at-

tracted his attention.

The man, too, was hurrying for a train; but he stepped up to the woman and with a kindly smile that at once won her confidence took from her the heavy bag and walked beside

her.

After a while the child, attracted by the man's kindly manner, reached up her little hands to him and was soon prattling in his arm.

soon prattling in his arm.

Having inquired from the woman
her destination, he found that she
was bound for a station quite a distance from the one he was making

But notwithstanding this fact he But notwithstanding this fact he kept on at his self-imposed task until he had himself put the woman aboard her train. Then, leaving a kiss upon the little one's happy face and a pleasant word with egrateful mother, he retraced his steps to another wark of the alies.

mother, he retraced his steps to another part of the city.

This gentleman was Rev. Dr. Hill, preacher and naturalist, and for many years beloved and honored president of Harvard College.—W. F.



Let's make a Jelly Roll-With FIVE ROSES flour.

Its Strength and Fineness hold your batter together in the long well-greased

Bakes evenly.

Smooth Texture—soft, golden Crumb, spongy, porous, yielding.

No holes, nor lumps to vex you.

And when you turn it out on the damp napkin hot and savory, and you spread the under side with "jell"

It doesn't get soggy nor crumbly.

R doesn't get soggy nor crumoty.

Roll it gently, carefully.

Not a crack—not a break.

Perfect Smoothness—a Perfect Roll—Youra.

Perset Smoothness—a refrect Rell—Yours,
Bake anything, make anything,
Use FIVE ROSES—bread and pastry,
Melting puff paste-flaky pie crust—crinkly fritterstooth some rolls,

FIVE ROSES for anything—everything.

Not Bleached



Not Blended

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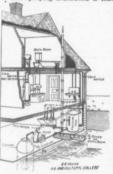
The Pressure-Tank Water Supply System Bu E. S. Keene.

By E. S. Keene.

A water-supply plant for the average home need not be elaborate nor expensive in order to be convenient and efficient. The water may be taken from any suitable source of supply and the plant may be made to suit the available conditions no mat-

ter what they may be.

The water-supply plant shown in the accompanying illustration is that



Pressure Tank Water System

as the Pressure-tank system is simple in construction, not at all difficult to operate and contains all of the essentials necessary to the deon the essentials necessary to the demands of the average home. The diagram includes the pipes and fixtures for stationary wash-tubs in the basement, for bath-room and kitchen sink, and also the waste pipes connecting with the house drain. These features are included to show the possibilities of a convenient and efficient system for the average isolated home.

SOFT WATER SYSTEM

The source of water supply in this The source of water supply in this case is a rain-water cistern sunk below the level of the basement floor, the top of which extends above the level of the floor. The water is pumped from the cistern by a common tank-pump and forced into the pressure-sunk, as is clearly shown in the draw-pump to the supply of water as desired. The draw the supply of water as desired. The case, is an upright cylinder made nor. or water as desired. The tank, in this case, is an upright cylinder made perfectly tight and constructed to withstand the necessary pressure required to perform its service. It may be galvanised as a precaution against rust, but this is not absolutely neces-

The pipe which conveys the water from the pump, enters the tank near the bottom and as the water enters, the contained air is compressed into the contained air is compressed into the decreasing space above its sur-face. The pressure developed by the compressed air furnishes the force by which the water is driven out of the tank and through the distributing pipes as the supply is demanded. This is a principle of Physics known as Boyle's Law. If the air in the tank, when empty of water is compressed until it occupies one-half of its orig-inal volume, then the nressure will be until it occupies one-half of its orig-inal volume, then the pressure will be twice the original pressure, which in this case will be about 15 pounds to the square inch. The higher the water rises in the tank, the greater will be the pressure developed. This may be as high as 125 pounds to the square if occasion requires but inch if occasion requires but 40 pounds pressure is generally sufficient for all the requirements usually demanded in a house plant. These pressures are easily attained with a forcepump such as is shown in the draw-

A glass gauge, G, on the side of the tank, is intended to show the height of the water in the tank at any height of the water in the tank at any time, and the pressure gauge, W. shows the pressure sustained by the water. The supply pipe rising from the bottom of the tank branches to supply each of the fixtures, to which the water is conducted. In the draw-ing, the cold-water pipes may be trac-ed from the aupply pipe, where it emerges from the tank, to the kitchen sink, to the wash-trays in the basement, to each of the fixtures in the bath-room and to the range builds bath-room and to the range boiler. The range boiler is connected with the heater in the kitchen range, which furnishes the supply of hot water to be stored in the range boiler. The hot-water pipes may be traced from the range boiler to each of the fix-tures named above, where they ter-minate in each case, in a hot-water

The size of the pressure tank is and to suit the requirements of the house and, if so desired, may be made to furnish water for purposes outside the house. The method of pumping may be by hand, as that shown in the figure, by gasoline engine, or by any other form of power. For the average size of dwelling, however, the age size of dwelling, however, the hand pump is well adapted to the requirements. The limit to which such a plant may be extended will be determined by the size of the tank and the means employed for pumping. It may also be made to serve the pupose of lawn sprinkling and fire pretection or as a means of watering stock.

POINTS ON OPERATION

In operation, the air pressure in sends the water through the pipes to the various water taps. If for any reason the air is allowed to escape, the propelling force is destroyed. This may occur by reason of the absorption



"Sunny Jim"

This joily little fellow has the sis obsracteristic of boys brought fresh air and green fields of the He is called Sunny Jim, but his is Harold. He is a son of Mr. Victoria Co., Ont.

of the air by the water due to the pressure to which it is subjected or a small air leaks that may develop it the seams of the tank and allow the air to escape. To overcome these dificulties, arrangement is made in the pump so that air or water may be forced into the tank at any time occasion requires. In the more clabs ate plants the process of pumping water and the regulation of the pressure are made entirely automatic Such a plant as that shown in the drawing is relatively inexpensive, simple to operate and gives the house

supply to suc any. c source

Be E. F. The mower neighh howeve when t

on the f ria Co., C pensive Photo by

in front o more prid somewhat enough to help is so flowers and It certain manage that the si

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supply of water that furnishes every necessary convenience. Modifications to such a plant may be made to suit any, condition or size, location or source of water supply.

Beauty Lies in Simplicity

E. F. Eaton, Colchester Co., N. S.
The good old own is the only lawn mower known on many farms in our neighborhood. A few of our farmers, however, do use a scythe once a year when they cut the hay crop growing



Within the Reach of All

This well planted and attractive driveway is on the farm of Lady McKenzie, in Victoria Co., Ont. Such a drive and is not an expensive one, and a few "aliant along with a few hours" work would make any farm drive equally attractive with the Photo by an editor of Farm and Dairy.

rotoe by an editor of Farm and Dairy.

In front of the house. I have asked
many of them why they did not take
more pride in the surroundings of
their homes and the reply is usually
somewhat as follows: "I'd like well
enough to have a nice lawn, but then
enough to have a nice lawn, but then
open and the same and it skes such a
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It certainly does take a lot of work to manage some lawns, but I believe that the simplest arrangement is at the same time the most beautiful and a very attractive lawn may be had with little labor.

There is nothing that looks nicer for a lawn than just green grass on lovel land, kept closely corpped—with a lawn mower. It is not necessary to have flower beds everywhere to make It certainly does take a lot of work

a law mower. It is not necessary to have flower beds everywhere to make the surroundings beautiful. Here are a few rules I would youn for making a lawn that is at the same time simple and beautiful. Have the most of the lawn devoted to green grass.

o green grass.

If flowers are to be planted, have hem in the corners or as border ants. Never break up a lawn with flower beds.

flower beds. The same rule applies to shrule. A bank of shrubs planted at the corners of the house of the main front entry and the down the side of the large corner to the corners of the corne ture would do it.

The trees too, should be arranged in natural order. A straight row of trees along the road is attractive, but the other trees should be arranged to form a background to the house.

Through following these rules an attractive lawn may be easily arranged and easily kept in order.

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Hope, Peterboro and West, at very two rates.

Through coaches and Pullman Tour-set Sleeping cars are operated to WINNI-mithout change, leaving Toronto 11.00 and the Company of the Con-traction of

Berth Reservations and particulars from Grand Trunk agents.



is Photo illustrates the Spramotor (Fig. 4) work on a barn with two nozzles on the e line of hose. This building was painted forty minutes after the paint was mixed.

Paint Buildings in Almost No Time

You can Paint Your Barns, Your Drive House, Your Woodshed and all Out-Buildings in a Very Little Time By Using

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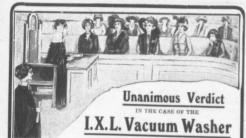
You can also whitewash your stables, whitewash the cellar, the hen house, fences, etc. most quickly and easily with this spramotor machine. Farious sixear made, one speaks, will exactly most your seeds. The value its and the fraction of applying paint with a Sprapainter is full described in our Thankholis. "A GOLD MINE ON YOUR FARM"

Send to-night for your copy of this book and learn all about a can paint your buildings, whitewash your stables, etc., with

Send to night you prove you can paint your probable, whitewash your stables, etc., you can paint your buildings, whitewash your stables, etc., Sprandinter. Sprandings. Sprandinter, it will spranding spranding to the spranding spranding spranding spranding spranding spranding. Sprandinter. Spranding sprand

W. H. Heard, Manager, Spramotor Co. LONDON, Ont.

1717 King Street Largest manufacturers of sprayers and accessories in the world



PRICE - \$3.50 Before the Court of Public Opinion Taber, Alberta The I. X. L. Vacuum Washer which The I. X. L. Vacuum Washer which I won at the Seventh International Dry-farming, the Seventh International Dry-farming, the Seventh I have a light to be a real labor saver. I have a light to be a real saver as a labor saver. I have a light to be a real with it, and it is an unqualified successive saver this, the time of washing one half with loss labor. Mas. R. McALISTER.

FROM "SUNSHINE PAGE," THE GUIDE, March 26, 1913

OUDE, March 24, 2011
Dear Miss Bryonner, Law seeding you one of those L.X.L. Vacuum Washers, which are so much advertised just now in much advertised just now in the control of the contr

for your good work. "WELL WISHER"
Cap St. Martin, Comte Laval, P.Q.
I beg to acknowledge your letter in
which you thank me for the order, to the
contrary is should be I who should thank
you for your marvelous washer, and for
you for your marvelous washer, and for
the property results that we have from it,
and the LX.L. Yourum Washer to overybedy.
Yours truly, A. Loop.
M(am) Man.

Miami, Man.
I have used one of your I.X.L. Vacuum
Washers for some time, and find that it
beats everything in the washing machine
line that I have ever tried, Yours truly,
MRS. H. F. DUNCALFE.

MRS. H. F. DUNCALFE.
Lingan Road. Cape Breton, N.S.
I have used the Vacuum Washer at
home and find it to do all you claim and
more after giving it a test.
Yours truly, GEORGE MAHAN.

Yours truly, GEORGE MANAN.

195 Bishop St., Montreal, P.Q.
We have received our I.X.L. Vacuum
Washer and it is so perfect in every within I am sending an order for two more
for a friend and another for myself.

Yours sincerely, Mrs. A. G. Ostell.

oblige. Tearming Bloom.

St. Theophile Beause, P.Q.

We have received our Necuum Weahers in perfect condition, and delighted with in perfect condition, and selected with the selected selected with the perfect condition and selected with the selected with the selected selec

cutting the time or security and the less labor. Miss. R. McAllister.
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Washer and \$1.0. Will you send one to the hame and address enclosed. I got enclose the hame and t

MRs. A box ordering one. Yours and \$1.60 for I.X.L.
Enclosed find coupon and \$1.60 for I.X.L.
Vacuum Washer. A neighbor had one and loaned it to me, I liked it so well I am ordering one. Yours very truly,
MRS. A MOS BOND.

Thousands of women who are using them have rendered an unqualified ver dict in favor of the LXL. VACUUM WASHER, and these women have used every make of Washing Machine and are fully qualified to Judge merit THE COUPON BELOW gives you an opportunity to test it in your own house, and

SAVES YOU \$2.00

you do, you will concur in the verdict, as it will demonstrate to you that will wash anything and everything from a horse-blanket and overalls to be finest and most delicate laces without injury, as there is no friction.

YOUR CLOTHES WILL WEAR THREE TIMES AS LONG

Washes a Full Tub of Clothes in Three Minutes No Severe Exertion Required

It's so easy to operate a child can do an ordinary family washing and have it ready for the line in one hour.

SENT YOU UNDER A MONEY-BACK GUARANTEE

IT IS THE MOST POPULAR WASHER ON THE AMERICAN CONTINENT -ITS POPULARITY IS THE REWARD OF MERIT

FARM AND DAIRY COUPON

Present or mail this Coupon and \$1.50 to Dominion Utilities Mfg. Co., Ltd., 482% Main St., Winnipeg, Man., Man. and you will receive one I.X.L. VACUUM WASHER.

All charges prepaid anywhere in anada on condition that your money to be refunded if the Washer does ot do all that isclaimed. 5-8-13

ADDRESS

PROVINCE.....

USE THIS COUPON

Send for one today and "Blue Monday" will be robbed of its terrors for ever. You will never regret it. You will be delighted



WHILE it is generally conceded that farming is HILE it is generally conceded that farming is a profitable occupation, it would be more delightful and attractive if the disagreeable and antiquated features of the home could be eliminated. City people are blessed with convenience which are not conceasing found on the which are not generally found on the farm, and it is because of the absence of those things that farmers and their families become dissatisfied and move families become dissatisfied and move to town as soon as a competence, suffi-cient to insure a reasonable support, is made. When the farmer and his family visit their city friends, they note, with humilation, the difference between the convonient house hy-between the convonient house hy-lights, staroum and toilet, electric lights, staroum and toilet, electric own very crude area, and their own very crude area, and their own the convolution of the convolution of the invited his city friends to his country invite his city friends to his country invite his city friends to his country

hole in the top. The walls and top should be from four to five inches in thickness, and the top reinforced. The tank can be located at any reasonable tank can be located at any reasonable distance from the dat any reasonable distance from the date of t HOW IT WORKS

The sewage passes from the receiving chamber (b) to the main tank (a) through pipe (d). The object in having pipe (d) curve downwards and ex-

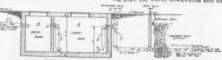


Diagram of a Farm Sized Sceptic Tank

Unquestionably, the lack of these farm home conveniences and comforts is responsible for a large percentage of removals from the farm, especially in our rich, thickly-populated agriculour rich, thickly-populated agricul-tural districts. This condition should be changed and there is no reason why it cannot be, for it is entirely feasible and practicable to install and maintain home conveniences on the farm at a very reasonable cost. Recent inventions will furnish the farmer all of the many comforts enjoyed by the city folks and, when he adopts them, he will have solved the problem of mak-ing rural life very attractive.

BATHROOM AND TOILET
The farmer can have no great convenience and but few things which will give him more comfort than bathroom and toilet in the house, but in order to have these conveniences, a in order to have these conveniences, a system of sewage disposal must be provided. While the sewage may in some instances be emptied into a stream or ravine, it is a dangerous thing to do, for the reason that the stream will be contaminated and, unless the flow is great, cdors are unless the flow is great, cdors are unless the flow is great, cdors are apt to arise during the hot Iry summer. Hence, it is necessary to provide some other means of disposal. Nothing as yet has been devised as a sewage disposal for the farmhouse equal to a septic tank.

A septic tank is a receptacle for the purification and disposal of sewage. This system of sewage disposal is especially adapted to villages and farm dwellings where no regular sevage system exists. The process by which sewage is liquefied, made odor-less and harmless, is accomplished by a specific bacteria or micro-organism known as anacrobiosis. SEPTIC TANK

tend to within one foot of the bottom of the main tank is to prevent any disturbance of the seum which forms on top of the sewage in tank (a). That seum or crust must not be broken, for the reason that if it is, bacterial action and liquefaction stops until the crust again forms. The effluent or liquefied sewage leaves the tank through symbon pipe (e). This tank through syphon pipe (e). This pipe starts, as is shown in the illustration, about one foot from the bottom of the tank and discharges into the tile drain which carries the harmless liquid away. The outlet pipe must be provided with a vent (g) to prevent the tank from being emptied by the syphon (e and f).

by the syphon (e and f).

The drain should be ordinary soft
porous drain tile laid end to end with
loose open joints. The ditch in which
the tile are laid should be about four
feet deep. Before the tile are laid,
one foot of loose gravel should be
placed in the ditch and one foot of
loose gravel on top of the tile, and the
ditch then filled with dirt. If this
lline of tile is four or five rods long,
its will never become clogged unless the
soll is a very compact clay. If the soil it will never become clogged unless the soil is a very compact clay. If the soil is of such a nature, two lines should be laid from the "V"-shaped junction, having gate valves so that the flow

having gate valves so that the flor can be alternated every two weeks, giving each line time to dry out. For a family of 10 or 12 people, a tank six (est long, four feet wide and dour feet deep, holding 718 gallors, will be large enough. Such a tank should take care of a sink, laundry, bath and toilet-room, and the overflow from a cistern. The receiving cham-ber should be about four feet by two bath and toilet-room, and the overflow from a cistern. The receiving cham-ber should be about four feet by two or three feet, and as deep as the min tank. After the tank has been in operation a year or two, if any great amount of sludge has accumulated on the hottern it should be arrived as known as anacrobiosis.

The apparatus consists of a receiving chamber (b), a process chamber (a), an inlet pipe (c) discharge pipes (d) and a vent pipe (g). The tanks should be made of concrete and after it has been in operation several practically air-tight, having a many years.—The Furrow operation several years.—The furrow operation years.—The furrow operation years.—The furrow operat

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FANCY BLOUSE FOR MISSES AND SMALL WOMEN, 7845

PANCY BLOUSE FOR MISSES AND MALL WOMEN, 786

Straight edges always mean the positive for flouncing for flower fl



for gives of 4, 15 and 13 years.

GIRL'S DB/L'S and 13 years.

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GIRL'S DB/L'S and 15 years.

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This pattern is cut
This pattern is cut
a size for girls of 4,
and 8 years.

This simple blouse
made without rulness is a fashionable
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latest variations
the sleeves are
closely a size of the
latest variation
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MEN'S NEGLIGER SHIRTS. 784

The negligee shirt is the warm weather wear and here is a warm weather war and here is a many and here is a many and here is a limit of the many warm of the many and here is a limit one is closed right one is closed right one is closed right and an another with a makes or a lie ni warm warm of the like are tamiliar makes and of an another is a many and and the like are tamiliar may be of material 27 or 3 yards of the like wide of material 27 or 3 yards of the like wide of material 27 or 3 yards of the like wide of material 27 or 3 yards of the like wide of material 27 or 3 yards of the like wide of material 27 or 3 yards of the like wide of the like with the bioson of contrast of inches wide of the like with the like wit

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











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Big Ben is the biggest thing today in the alarm clock business.

He is only two years and a half old, but he's already getting more work from the Dominion than any clock alive.

In two years and a half time, 6,000 Canadian dealers have adopted him. Nearly half of the families in Canada leave it to him to call them up in the leave it to him to call them up in the canadary, nearly half the families in canada leave it to him to call them up in the right time by the call the right time by the right time

Reeper and a crackerjack of an alarm. Big Ben stands seven inches tall. He is triple nickel-plated and wears an inner vest of steel that insures him for life. His big, bold figures and mades are easy to read in the dim kenning light. His large, comfortable key almost wind themselves. He rings a dimost wind themselves. He rings a dimost wind themselves. He rings a dimost wind every other year, there is no telling how long he will last.

Big Ben's price is \$3.00 anywhere in Canada. If you cannot find him at your dealer's, a money order sent to Weather, La Salle, Illinsis, will bring him to you, carefully packed and duty charges paid.

BIG BEN

Constipation Cured By Common Sense

By Common Sense

The wonder is that so many people endeavor to care Constipation place of the control of the co

The Farm Sathtub.—A fixed bath when warm soft water can be tub in the house is a benefit to every member of the household and especially to the children because it emodurages habits of cleaniness. Who lar, and hard water carried from the colourages habits of cleaniness. Who lar, and hard water carried from the does not look with more favor on a well and heated in the wash boiler,

Put the Load Where It Belongs

IF you are to make the most of your time and opportunities, you must have efficient tools to work opportunities, you must have efficient tools to work with. You have enough hard, tiresome work without wasting your time and energy in such bots as wood-sawing, water pumping, grindstone-turnish power for such work. In far the the wood is sawed, the stock watered, the tools sharpened, all a tone-ten the expense of hand work. Put the heavy load where it belongs. Buy and use an

I H C Oil and Gas Engine

and save money as well as hard work. It is the cheapest engine you can buy—because it costs less per year of service than others. It is so simple that it is practically troubleproof. Perfect combustion makes

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sene, distillate, alcohol. Sizes are 1 to Sohorse power. They are
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water cooled. Sawing, pumpine, stationary, skidded, air cooled and
water cooled. Sawing, pumpine, group outlist, etc. I H C oil
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Look over an I H C engine at the I H C local great's place of business. Learn from him what it will do for you, or, write the
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TAMWORTH, YORKSHIRE OR BERKSHIRE

Bright boys can win one of these pure bred pigs on a Saturday, or in a few a, way home from school,

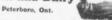
the way home from whole.

Over 780 boys and other people have won Farm and Dairy pure-bred plast these plas are dandles every one of them. You'll be proud to own one.

Say you write to Farm and Dairy right away and say: "I want to win one of your pure-bred plays. I'll get the nine new subscribers for you as possible. Then get busy useing your father's friends and neighbors. We probably call enough of them on the telephone. Say you do it now while you think about it.



Farm and Dairy





Bu an Editor of Farm and Dairy It is a very simple matter and the cost is very low to get good pictures on the farm and of live stock such as pure bred cattle. When one has enclose a small photograph of an animal you are offering. The photo is almost as good to a prospective purchaser as though he were to come and see the animal. Then, too, it would save you a whole lot of correspondence and writing, which otherwise would be necessary

wise would be necessary.

A great many of our breeders have
"tumbled" to this idea, and now have
cameras of their own. A great many
others realize the advantage of having photos of their stock, and they
get an editor of Farm and Dairy to
come and take the photos for them.
It is not always possible for us to get
around to see all those who desire to
have us come to photograph their around to see all those who desire to have us come to photograph their stock. We cannot get to a place just stock. We cannot get to a place just at the most opportune time to photograph the stock when it is showing at its best, and when the weather is most favorable. Also the cost of time and travelling expenses is always considerable. So when one considerable. So when one considers how easy it is to get good considers how easy it is to get good photographs when a camera is avail-able, and anyone can learn quickly to work it, every breeder of pure bred stock ought to have a camera of his own.
Any farmer, too,

Any farmer, too, can afford a camera and get a deal of pleasure out of using it. Pictures of the barns, of the house, of the dog, the barns, of the house, of the dog, the favorite horse, the calves and cattle, scenes in seed time, haying, harvest, etc., and best of all of various members and children in the family and bers and children in the family and friends that come to see you,—these are always much to be desired, and when they are so easily obtained anyone ought to have them.

It may surprise you to learn that the major part of all of the illustra-tions you see in Farm and Dairy, evem the big ones on our front cover, are taken with a small camera such as any farmer can afford to own. Our editors each have small cameras. editors each have small cameras, costing only \$12.50 and \$1.25 extra costing only \$12.00 and \$1.20 extra for a carrying case; they prefer these to the larger and expensive cameras, which we used to use and still have available in our office. On many an occasion the large expensive cameras becasion the large expensive cameras have been taken out along with one of these smaller cameras, and the work brought back has been quite as good from the smaller camera.

The camera we favor, and which we have recommended several of our we have recommended several of our breeder friends to buy, is a Premo Film Pack post card size, made by the Canadian Kodak Co., in Toronto, and available from dealers in every and available from dealers in every claim and available from dealers in every claim of the control o

quired at one time.

In another article in an early issue
we will have something to say about
how we take the photographs and
ensure them being successful. A
little experience and a little thought
in connection with conditions at the in connection with conditions at the time of photographing, this following the interesting study of the directions sent out by the manufacturers, will place any intelligent person in a position to get, at little cost, good pictures of anything they may want.

Ye ADV. MAN. d Here's a tip

for you to get your copy in shape and in early for June 5th. I 'Tis our great 5th Annual Farm Machinery Magazine Special

Number — more than 16,800 going out to presperous Dairy farmers almost exclusively Press days May 28th to

Adv. Dept., Farm and Dairy

Seed Corn

Buy Yours on the Cob

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ALL TESTED—We will not send seed out that seed the total the Coh.—Field selected, Fire-dried, This Coh.—Fire-dried, This Coh.—Fire-dri

served elsewhere.

At the great convention of Corn
Growers and indoor last winter experts discussed indoor last winter experts discussed indoor last winter experts discussed in the lowest
price that should be draft the lowest
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we can put you in this very best at
this low price, \$3.00 per bus, of 70 lbs.

Be'ow find our prices, ex warehou WISCONSIN No. 7. Ontario gwown,

wisconsin No. 7. Ontario grown. WHITE CAP YELLOW DENT. On tario grown, price on the cou.
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IMPROVED LEAMING, Ontario
grown, price on the cob
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grown, price shelled LONGFELLOW FLINT. Ontario grown, price on the cob. LONGFELLOW FLINT. Ontario grown, price shelled

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NORTH DAKOTA WHITE FLINT,
Ontario grown, price shelled., 2.50

Bags Free

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May 8

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to seco shire s and mi fied in No N

70 Will be so Red Deer,

On according operational obliged to distribut results. Herd head way. Write A. H. RED I

TANGLE TANGLE'S YOUNG BUSINESS BY YOUNG BUSINESS BUSINESS BY YOUNG BUSINESS BUSINE

Burnsie Winners in tests. Animals or Canadian b R. R. NESS,

Ravensd PHILL

Special offerin W. F. K

AYRSHIRE CAT AYKSHIKE GAI For Sale—A; fit for service each or, if r above are free in orders nor shipment late HON. W. OWENS, I Riverside

Advertise yo in Farm and

> Clydeso Fillies and St.

We have a chection, prize-wand stock of apconformation abest of popular scriptions. Price of our many years. Smith & Richa 1913

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Important Avrshire Dispersion

THE **OPPORTUNITY** LIFETIME



For Westerners

to secure pure-bred Ayrshire stock, acclimatized. and many of them qualified in the R. O. P. test.

No Need to Buy in the East

Because these cattle have the size, vigor and constitution which can only be obtained in Western Canada.

70 Head 70

Will be sold by public auction at Red Deer, Alta, Wednesday, May 21st.

On account of extensive build-ing operations the undersigned is obliged to dispose or his entire herd without reserve.

Herd headed by Barcheskie Kings-way. Write for catalogue.

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5 YOUNG BULLS (Sept. and Oct., 1913), sired by Boyal Star of Bonnie Brae, 2674.

B. O. P. of dame as 2-pear-older. Alfalfact., 3274, 6.271 lbs. milk, 464.5 lbs. fat. average tout 5.01, New Year, 5897, 7,468 lbs. fat. average tout 5.01, New Year, 5897, 7,468 lbs. fat. average tout 5.01, new Year, 5897, 7,468 lbs. fat. average tout 5.01, new Year, 5897, 7,468 lbs. fat. average tout 5.01, new Year, 5897, 7,468 lbs. fat. average tout 5.01, new Year, 5897, 7,566 lbs. milk, 329.84 lbs. fat. WOODD SSE BEOS. - BOTHSAY, ONT O. R. Stalion, Daylor S. R. S

Burnside Ayrshires

Ravensdale Stock Farm

PHILLIPSBURG, QUE.

Special offering of Bulls, fit for service.

W. F. KAY, M. P., Proprietor.

AYRSHIRE CATTLE AND YORKSHIRE PICS
For Naio-Ayrshine Curves and Bulla,
it for services. You want to the concach or, if registered, \$6.00. All the
above are from first price stock. Send
in orders now, with instructions re
shipment later. Apply to
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We have a choice selection, prize winners, and stock of approved onformation and the set of popular breeding. Write for decristions. Priced right, Takead vaniage four many years of successful experi-Smith & Richardson, Columbus, Ont.

Legislative Reforms that Would Give Farmers More Power

Give Farmers More Fower
(Continued from page 3)
of submission to the people by means
of a special election. When laws are
submitted to the people is special elections the proposed law or laws are
the only matters vote all partizan
issues from their ornideration.

serves to remove all privates serves to remove all privates serves to remove all privates serves. A glance at the existing glittlend, a glance at the existing glittlend, a glance at the existing privates and the serves of the

the government of this country. Once every four or five years we go out and cast our ballots. On that one day we have things pretty much in our own hands. For the next several years, however, our representatives have the running of our country. We are nowering of our country. have the running of our country. We are powerless to prevent them from doing things much as they like. Not infrequently they take advantage of their opportunities.

PARTY PLATFORMS These conditions are made still worse by our party platforms. Suppose you went into a store to buy a pose you went into a store to buy a hat and a pair of trousers, and the salesman told you he would be glad to sale them to you, but you would have to take a coat and a pair of tan shoes also? At least you would not like it. Yet that is what our politicians do at every general election. Each political party lays before us a platform composed of numerous planks. Some of these planks we must platform composed of numerous planks. Some of these planks we may planks. Some of these planks we may planks. Some of these planks we may not. We must and some we may not. We must some planks we may not we may not be them, whole does not be other, whole is seriously restricted. Were the planks of the plan

as we might desire.

SISSINIO CONDITIONS

To-day the Conservatives are in power, both at Toronto and Ottawa. How much better off are we in respect to such points as have been mentioned? Several years ago Premier Whitney to such points as have been mentioned? Several years ago Premier Whitney gave a land grant of some 2,000,000 acres of the best land in New Ontario to the Canadian Northern Railway, and within the past few weeks his government has voted other composition of land to another composition of land to another composition of course the ostensible reason for grants was that they were required to develop the country. The Librals used to give the same excuse.

It is doubtful, however, if any of these grants would have been made by either party in the form they were if the politicians had known that the people had the power, through the Referendum, to refuse to sanche Referendum, to refuse to sanche and the such measures. The desires there been considered more carefully.

carefully.

THE NAVAL BILL For months Canada has been disturbed by the discussion of the Naval Bill. Premier Borden wants to spend \$35,000,000 to buy warships

Save MONEY on Your Cement Silo

The last ten feet of your esment silo cost you more in time and trouble than the rest of the job put together, zere yourself this hard work and cut down your building cost by using the WATEROUS STEEL PLATE SILO TOP in place of cement.

The plate is rolled to fit 10 ft., 13 ft. and 15 ft. in diameter. Each course is 4 ft. high 15 ft. in diameter. Each course is 4 ft. high 16 ft. in diameter. Seek course is 4 ft. high 16 ft. in diameter is self-with 17 ft. in diameter is not in the ft. in diameter is not in the ft. in diameter in the ft. in diameter is not in the ft. in diameter in the ft. in diameter is not in the ft. in diameter in the ft. in diameter is not in the ft. in diameter in the ft. in the f

Besides being durable, storm, frost and brinkser proof, the WATEROUS STEEL better than stone, coment or wood, and it will cost you complete with rivets—no more than the cement and gravel alone required for the same amount of connecte work. It's a money eaver every time. Write same

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********* Breeder's Directory

The Feeder's Corner is for the use of our subscribers. Any interested a remark of the conditions of a read items of interest. All questions will receive prompt attention.

**************** YORESHIRE PIGS, all ages, either sex Choice Young Boars, fit for service. Almost Sows of all ages, bred and heavy with pig.—H. C. Benfield, Woodstock, Ons. FOR SALE-2 Sons of King Fayne Segis Clothilde, from R. O. cows. Also three Clyde Fillies and J. Stallions, Yearlings. —R. M. Holtby, Manchester, Ont. FOR TAMWORTH SWINE-Write John W Todd, Corinth, Ont. R. F. D. No. 1

from 'Great Britain. The Liberals want to spend \$33,000,000 to build such vessels in Canada. In the meantime nobody knows definitely what the people want. It is known that the great farmers' organizations of Canada many labor. of Canada, many labor unions, as well as a large portion of the French people of the province of Quebec, have declared against both policies. have declared against both policies.
Apparently, however, one policy or
the other is going to be adopted
without the people being consulted.
Did we have the Referendum, there

would have been no such opposi-tion to the Naval Bill of the Governent, as has disturbed and retarded the business of the country. The people having the power to require the government, if necessary, to subthe government, if necessary, to sub-mit the measure to the country for its approval, would have had the situation in their own hands. Such power would, also, have made the en-actment of a "Closure Bill" unnec-

THE BANK ACT

There is at present, a struggle under way at Ottawa over the Bank Act. The people of Canada to-day, when they deposit money in a bank chartered by the government, have no positive surrance that they may not lose it all should the bank fail unexpected to the farmers' Bank. An effort did the Farmers' Bank. An effort so could be be a seen to the surrange of chartered by the government, have erendum we would be able to reluse to accept the Bank Act if its provis-ions did not meet with our approval.

THE INITIATIVE Now! what about the Initiative? It also is needed. Let us see why. Suppose we start with the temperance

For over 20 years the temperance question in Ontario, as elsewhere, has been the football of both political parties. In 1894, under the Liberal parties. In 1894, under the Liberal Government of Sir Oliver Mowat, a vote was held on the question of provincial prohibition. The temperprovincial prohibition. The temper-ance forces secured a majority of 81,-769 votes. Yet the Liberals refused to grant the desired legislation, and the people were powerless to enforce their will, as they had expressed it at

1902, the Liberals under Prem-In 1909, the Liberals under Premier Ross, conducted another plebiscite. This time the temperance electors obtained a majority of 98,201 wotes, casting almost two votes to their opponents' one. Yet, once more, the government refused to grant the desired basical anglesia.

the government refused to grant the desired legislation.

Now, to the regret of the advocates of temperance, the question is becoming a political issue. Were the "initiative" in force in Ontario the temperance forces might long ago have been a war on this question. have brought on a vote on this ques-tion as a non-political measure, and in the event of their being successful the government of the day have to enact the measure into law.

TAXATION REPORM Taxation Reform is a live issue in Ontario. Several municipalities, boards of trade, labor unions, the Doboards of trade, tabor unions, the Do-minion Grange and other organiza-tions, have petitioned the govern-ment to give municipalities the power to tax improvements at a lower rate than land. than land. The government refuses to accede. In consequence, those who favor this reform are powerless to have this preform are powerless to have the people of the province for their approval. This, also, therefore, is becoming a political issue. Were the "Initiative" in force in Ontario the "Initiative" in force in Ontario the The government refuses government could be required to con government could be required to consult the people on this measure.
These instances will serve to show the power the "Institutive" would place in the hands of the people. It would make the people the masters at all

The "Initiative and Referendun are not new measures. They have been in force in Switzerland for thirty years. By their means the Swiss ple have nationalized their railro ple have nationalized their railro de-telegraphs and telephone be-telegraphs and telephone be-telegraphs and telephone and these public utilities are now operations and ed for the service of the people, and not for private gain. They have a served their great natural weight served their great natural weight than rail of the people of the property of the than rail of the property of the people of the swiss and property of the property of the Swiss a government parely Swiss have a government par post which carries the parcels

Sullivan, who went Mr. Sullivan, who went to study the Swiss Government in 1888, wrote:
"The Zurich legislature knows nothing of bribery. It never sees a lob-byist. There are no wastiges remaining or the public activities of the public and the partian feeling characteristic of representative governments."

IN THE UNITED STATES

Of late years the "Initiative and Referendum" has made great pro-Of late years the "Initiative and Referendum" has made great progress in the United States. South Dalkota first adopted it in 1898. It is now in force in some 20 States and it is a live issue in many more. now in force in some an States and it is a live issue in many more. Everywhere it is giving great satisfaction to the people. In those states where it is in force it has made the people the masters. OBJECTIONS ANSWERED

The first objection to these measthe first objection to these measures that is apt to occur is that the people would be kept voting on public people was a large part of the time. questions a large part of the time. This has not proved to be the case where they are in operation. When the politicians know that the people have the final power in their hands they are so careful to draft only such they are so careful to draft only such that they are so careful to draft onl they are so careful to draft only such legislation as the people will be like-ly to approve of there is seldom any need to refer questions to the people between elections for their appro

between elections for their approval. Neither is the cost of consulting the people as great as one might suppose. In Oregon, the submission of 32 measures at three difference elections has cost the state \$25,000, or an average of about \$781 for each measure. In 1908 there were 19 measures authorities and average of about \$781 for each great submission.

measure. In 1908 there were 19 measures submitted, at a cost of \$12,502.

As previously stated, all four of the great farmers' organizations in Canada have approved of these two simple legislative reforms. It has not been possible, in the limited space available, to describe them fully in this article 1 trust however, that enquely a 1 trust however. ever, that enough has been said lead the readers of Farm and Dairy appreciate their merits. Their adappreciate their merits. Their adop-tion in provincial legislation should be our first aim. Later, if we find that they are as easily operated and as beneficial as we have reason to expect, it will be time enough to urge their enactment in Dominon legislation.

Best Paying Improvement on the Dairy Farm

(Continued from page 7) neighbors laugh! They varied neighbors laugh! They varied in heir estimates in the time it would take him to go to the wall, but all were sure that he would go there. He now has about 70 head of Holstons, many of them of the same breeding as the cow that he recently sold for 810.000 Clan way connecting 000. Can you conceive of any way which Mr. Jones could have attain

which Mr. Jones could have attained the same success in four or five v.m. with serub or even good grade cattle? When we started to write this article we had noted down the names of a dozen or more Canadian breeders ho have achieved both wealth and fine thranch the heading of nurshyed it. through the breeding of pure-bred at-the. We had intended to make men-tion of all of them. But perhaps we have said enough already to show the possibilities that lie in the pure-cow. The majority of these men start ed their breeding operations by proving a grade herd through the of pure-bred sires.—F. E. E.

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SAFE, SPEEDY AND POSITIVE, Supersedes All Cautery or Fir-ing. Invaluable as a CURE for

FOUNDER, WIND PUFFS, THRUSH, DIPHTHERIA, SIGIN DISEASES, RINGBONE, PINK EYE, SWEENY, BONY TUMORS, LAMENESS FROM SPAVIN, QUARTER CRACKS, SCRATCHES, POLL EVIL, PARASITES,

REMOVES BUNCHES of BLEMISHES, SPLINTS, CAPPED HOCK, STRAINED TENDONS,

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Belleville District—Important Dispersion—Holsteins

MR. GEO. W. ANDERSON, ROSSMORE (5 miles from city of Belleville), THURSDAY, JUNE 12

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Just one tested at Maturity, a 25.5 lb. one

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WE HOPE TO MAKE THIS THE MOST SATISFACTORY SALE YOU EVER ATTENDED

WE HOPE TO MARE THIS THE MOST GRAND Abrillety no reserve.

We have the cattle. Not an inferior one in the lot.

Every animal effect of will be sold to the highest bona flde bidder. Abrillety no reserve.

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It is a clean, final windout of the Holstein herd of Geo. Ander son who will guarantee every purchaser a square deal.

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the Breeding Season as the horse might die while being on the road. Do not take any chances by insuring with others, insure with us;

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The insurance premium represents only a small proportion of the service fees earned. Better risk the loss of the premium than the purchase price of your beast if it dies without insurance.

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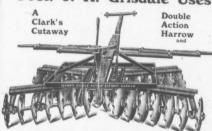
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Tis Economy to Paint

N. C. Campbell, Brant Co., Ont.

I made the acquaintance of a man the other day who came from over in York Co., where a great many of the farmers have their barns and other buildings painted. He says to me: "How is it you farmers up here don't paint your barns? Do you realize that the price of lumber is going up the state of the price of paint is practically the price of paint buildings, and especially barns, and thereby preserve the wood and make it last as long, as possible by saving it from decay and from destruction by the weather and elements. That is the way our farmers do it down home. and that is why you find so many of the with their barns painted."

The price of the price of the price of the paint around to do the job. I have always realized that the barn would look much better with a nice coat of red paint and white trimmings. I knew it would add to the value of the place. But then you have been decided, however, that I'l had a would pay us to decided his way you'll see me at the job late in May, or early June, when I have he crops in. I have a klean a moment just now to write this letter to Farm lust now to write this letter to Farm lust now to write this letter to Farm lust now to write this letter to Farm and Dairy, as requested, for their In say, or early dune, when I have the crops in. I have taken a moment just now to write this letter to Farm and Dairy, as requested, for their Great Farm Improvement Number, in order that others of my brother order that others of my brother farmers may get the idea and decide

to have their barn painted too.

It certainly is nice to get into a country where the barns are all point ed. It makes things look so much more prosperous, and it gives a goneral appearance of progress and of be

al appearance of progress and of

at appearance or progress and or or ing up-to-date.

At the same time I am reminded, in conclusion, to note that farm imple-ments, haying and harvesting ma-chinery, buggies and wagons, a | or which costs a great day of money and chinery, buggies and wagons, a | of chinery, buggies and wagons, a | of which cost a great deal of money and which cost a great deal of money and which cost a great deal of money and result of the control of several control of the are so unthoughtful in not taking advantage of their opportunities with paint to prevent decay, give things a better appearance and generally practice the truest of economy so far as these things are concerned.

Items of Interest

C. F. Bailey, Assistant Deput Minister of Agriculture of Ontario, has left for Europe to study agricul-tural credits and cooperation along

tural credits and cooperation alog with a party organised the South crn Con mercial Congress.

The Better Farming Special run by the C. P. R. through Ontario and the Eastern Provinces has assumer, as such a success that a similar true will be run over the C. P. R. there of the control of th

I think a great deal of Farm and Dairy, and call it "The Farmer' Bible."—J. Willoughby, Lanark Co.

What The Dealer Can Show You

O and see the Standard cream separator at our agent's in your locality. It will strike you as being a handsome, compact, convenient-looking machine

First appearances will delight you. And naturally you'll want to know more about the

Standard

You'll want to know why it has earned the title of "The World's Greatest Separator." Our dealer will be glad to show you

He will show you the low supply can. You will smile cheerfully when you notice that it is over one foot lower than the supply cans on ordinary separators. The high and awkward lifting of a pailful of milk are banished with the Stan-

Then he will get you to step over and turn the crank. You will see right away that you don't have to do any back-breaking stooping. The Standard eliminates that, by having the crank shaft four inches higher than on other separators.

Easy To Clean

Next, he will show you the wide open bowl. You will observe that there are no milk or cream tubes to clog up. And the discs, on a special disc holder, can all be washed in a minute. If your wife is present, this feature will make her

And when you are looking at the discs, the dealer will call your attention to the unusually wide space between the discs and the bowl. This space accommodates the impurities in the milk and prevents the discs getting clogged. It means absolutely clean cream and no waste.

He will next direct your attention to the fact that the only visible moving part of the separator is the crank, the gearing being entirely enclosed, which banishes all danger of the children getting clothes caught or fingers crushed should they venture to touch the machine when it is running.

He will ask if you can find any grease cups or glass lubricators on machine. You can't, because the Standard hasn't any. Its self-oiling system

Self-Oiling System

we've a catalog that desscribes the Standard very fully. Also a folder, entitled "Skimming Results." which gives what we be lieve are world's records for

close skimming accomplished by the Standard. If you cannot conveniently visit the dealer, write for this catalog and folder. Of course, you'll want them right away, so mail us a card or letter promptly.



automatically supplies the working parts with a continuous bath of oil. And the oil cannot drip on to the floor and be wasted either. He will show you -

we've not the space here to

tell you all you'll see. But

Substitute feed on the We said the asses Meal know that w So we say o Meal is the 1 We couldn't charged a de Being right ers here in freight bills

other

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Now we kr

THE

The Renfrew Machinery Co., Limited

Head Office and Factory: RENFREW, Ontario

Agencies Everywhere in Canada

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Farm and e Farmers' Lanark Co.

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nted too to get into a are all point. HOLSTEIN-FRIESIAN NEWS gives a goner

Farm and Dairy is the official organ of The Canadian Holstein Friesian Associatios, all of whose members are readers of the paper. Members of e Association are invited to send ems of interest to Holstein breeders r publication in this column.

Ont.
Ont.
State Triumph DeKol, 7951, 7y. 6m.
455.02 lbs. milk, 20.38 lbs. fat, 25.48
outter. Owned by Geo. W. Anderson,
more, Ont.
Oring Brook Queen Canary 2nd

semore, Ont.
Spring Brook Queen Canary 2nd,
6 87 3m 194; 487.10 lbs. milk, 19.51
fat, 24.39 lbs. butter. Owned by Monro
Lawless, Thorold Ont
Calamity Johanna Nig. 90%, 5y 7m.
; 583.30 lbs. milk, 28.64 lbs. fat, 25.55
butter.

ter.
hirty-day record, 7y. 0m. 5d.: 1067.90
nullk, 68 92 lbs. fat. 66.16 lbs. butter.
ned by Thos. R. Pearson, Port Ham.
nd, B.O.
Lady Netherland Queen, 10447. 5y. 0m.
; 461.30 lbs. milk, 16.54 lbs. fat, 2068
hutter.

Fourteen-day record. 5y. 0m. 11d.; 894.90 bs. milk, 32.25 lbs. fat, 40.32 lbs. butter. waned by Monro & Lawless, Thorold, Ont. 10. Jossie Pauline Posch, 8512, 5y. 10m. d.; 535.10 lbs. milk, 15.83 lbs. fat, 19.79 lbs.

Form and Dulry is the official organ
Association are invited to send
a residency of the paper. Members of
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a residency record, 57; 50m. 3d.; 79:30
butter.

While a record of the paper. Members of
a Association are invited to send
to send the milk, 13:30 bits butter.

To greenie L. 983, 79; 60m. 3d.; 63:30
bits milk, 23:30 bits fait 25:50 bits butter
and by Grodon B. Gooderham, Bedford
to milk, 21:30 bits fait 25:50 bits butter.

To greenie L. 983, 79; 60m. 43:45
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To wheel by Ford Carr, 81. Thomas, Ont.

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To wheel by Ford Carr, 81. Thomas, Ont.

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SYNOPSIS OF DOMINION LAND

Any person who is the ded of a family or a family o

CATTLE AND SHEEP LABELS







The Best Calf Food is Whole

Every farmer and stockman in Canada knows that. But whole milk brings a good price and you need the money. So you have sold and slaughtered your calves shortly after birth, getting little or nothing for them, and you have thought and thought reasonably that it was cheaper to buy than to raise to replenish your dairy herd.



MEMPHIS. TENN. dan Agents-CRAMPSEY & KELLY, Dovercourt Rd., Toronto, Ont.

CREAM SUBSTITUTE

has changed all that because it contains practically the same nutriment as whole milk at a fraction of the cost. In other words—the user of Caldwell's Calf-Meal finds it easy, economical and profitable to veal up or raise his calves for beef or to replenish his dairy herd. Its the modern way—the wasteless way and it will soon be the necessary way.

Now we know that Caldwell's Cream Substitute Calf-Meal is the best calf feed on the market.

We said the same about Caldwell's Molasses Meal and thousands of farmers know that we were right.

So we say our Cream Substitute Calf-Meal is the best money will buy-

We couldn't have made it better if we charged a dollar an ounce for it-

Being right in the heart of our customers here in Dundas, we have no long freight bills to allow forNo duty to pay-

Nothing to tack onto the price we ask from you.

And we fearlessly guarantee our Calf-Meal — guarantee its purity and its nutritious qualities to the Canadian Government-

Our guarantee is printed on the tag attached to every bag we sell-

On the reverse side of the tag is a plain statement of the ingredients the Meal contains.

You see we have no secrets-nothing to hide. Knowing that competitors cannot give you a meal with the sum total of the nutritious qualities possessed by our Cream Substitute we lay bare the facts so that you can make your own comparisons.

It will pay you to use Caldwell's Cream Substitute Calf-Meal-

Keep on selling your whole milk and feed this Meal to your calves-

It's just as good for them anda lot better for your bank account.

Veal up your calves and raise them for beef or to replenish your dairy herd. It's the modern thing-the economical thing-the profitable thing to do. Your Feedman sells it.

THE CALDWELL FEED COMPANY, LIMITED, DUNDAS, ONT.

HOLSTEINS

HOLSTEINS FOR SALE

HULSIEINS FUR SALE
2 Good Korndyke Bulls left, also 193,
2 Good Korndyke Bulls left, also 193,
Galve with will complete our last lot of
Korndy will own bulls to the form are doing nicely. We have 1 so see hefters
are doing nicely. We have 1 so see a se FIERHELLER BROS., MT. ELGIN, ONT. Bell 'Phone 167 R. 12. C.P.R. Station-



43.34 lbs. Butter in seven days
170 lbs. Butter in thirty days
are the latest world's records
de by a sister to the dam of King Segis Pontiac Koningen

who heads the herd at LYNN RIVER STOCK FARM We offer for sale Cows, Heifers and Heifer Calves; also one Bull Calf and our senior Herd Sire, 4 years old. Write your needs and we think we can please you both as to breeding and price.

J. ALEX. WALLACE Lynn River Stock Farm - Sim

ELMDALE DAIRY HOLSTEINS Fwo choice Bull Calves, light colored. Ormsby, site of 10 R. O. M. daugh s up to 20 lbs., and one 3-year-old.

sired by Paladin Ormsby, six of 10 he t. v. absurptions, 2 year-olds up to 20 lbs. and one 3-year-old 23.80 lbs. butter in days. 23.80 lbs. butter in days. 23.80 lbs. butter in days. 24.80 lbs. butter in days. 24.80 lbs. butter in 24.80 lbs

MAPLE CROVE, CRESCENT RIDGE and WELCOME STOCK FARMS

and WELCOME STOCK FARMS

Lake a special offering in a grandeon (it for sevrice) of the \$10,000 King of the for sevrice) of the \$10,000 King of the form of the \$10,000 King of the form of the seven of the form o

H. BOLLERT, R.R. NO. I. TAVISTOCK, ONT



YOUNG COWS AND HEIFERS

HOLSTEINS of different Safe in calf to a son of the great bull De Kol the ind's Butter Boy the led. Also Yearling Helfers. and Helfer and Bull Calves for spring delivery. Write for prices.

W. W. GEORGE. . CRAMPTON, ONT.

HAMILTON HOUSE DAIRY FARM

TheHome of Lulu Keyes, the World's scord Senior 2 Year Old Cow WE SELL BULLS AND BULL CALVES ONLY

and offer now

A Bull Ready for Service

Write or come to see him. His Pedigree showing High Records

THE PRICE IS RIGHT

MARKET REVIEW AND FORECAST

Toronto, Monday, May A.-Trade propocts have brightened and all the propocts have brightened and the propocts have brightened and the propocts have brightened and the proposition of the proposition of the according to the proposition of the blighting effect that land
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COARSE GRAINS

The most noticeable change in the coarse grain market is a slight drop in Western oats, due to the opening of late navigation. Outario oats have advanced one cent. Corn is cheaper. Oats, C. W.

Choice mitch cows sell readily at 855 to 875; common to medium, 835 to 855 and springers, 850 to 875. Gaives are not now. The great supply and bring 83 to 82.50. The great supply and great supply s

MONTREAL HOG MARKET MONTREAL HOG MARKET
Montreal, Sauturday, May 3--The market
here for live hogs advanced in sympathy
with the advance in Toronto and sales
were made this week of selected lote at
\$19.40 to \$19.50 a cut, weighed off cars.
The offerings were fairly heavy. There is
prices domained for dressed hogs, and
prices domained for dressed hogs, and
killed abattoli slock quoted at \$84 to
\$14.50.

EXPORT BUTTER AND CHEESE

EXPORT BUTTER AND CHLESE.
Montreal, Saturday, May 3.—This week
sees the first shipments of cheese direct
from this port to the United Kingdom,
and the new season of 1915 can be said to
be now in full swing. The receipts this
be now in full swing. The receipts this
converged with 100 can be 5000 boxes, as
compared with 100 can be seen as the converged with 100 can be seen



One of Peterborough County's Most Recent Acquisitions

ron Murray, owned and standing for service on the farm of W. J. Cox. Peterboro, Ont., is a son of Baron's Pride, the greatest sire of the Clydesdale breed. Read more of this spiendid Peterboro horse on page 3, this issue.

—Photo by an editor of Parm and Dairy.

No. 2, 40c; No. 3, 35c; No. 1 feed, 35c; On tario No. 2, 35c; to 35c outside: corn, 56c; 1965; Prés 50c; to 45c; malting barley 55c; Prés 50c; No. 3, 40c; No. 35c; For Montreal we quote: Oata, C. 30c; No. 35c; Value 10c; No. 3, 40c; corn, 55c; to 56c; barley. malting, 55c to 70c; feed, 51c to 50c; buckwheat, 56c.

barley. malting 56c to 70c; feed, ale to 50c; buckwheat, 56c.

MILL FEEDS

How to dispose of their mill feeds is becoming a serious propestion with mill-seed to the feed of t

D. B. TRACY
COBOURG, ONT.

The live stock markets this last week settled down stock markets the last week settled down stock that the reduced prices noted two most with the stock of the reduced prices settled down stock was settled down stock with the stock of the stock was settled down stock with the stock of the stock was settled down stock with the stock was settled down stock was settled down stock with the stock was settled down stock was settled down

greatest sire of the Clydeesdate breed, near ore horse on page 3f. this issue.

—Photo by an editor of Farm and Dairy.
—Photo by an editor of Farm and Dairy.
Fact that wherever poesible the factories are the state of the state

MANOR FARM BULL CALF SOLD of Just as we go to press with this issue of Farm and Dairy a letter has come to hand from Mr. Gordon 8. Gooderham with change of copy for the Manor Farm advertisement. The bull calf, as advertised,

HOLSTEINS

LYNDEN HERD

High Testing Holateins for sale. On the control of S. LEMON, LYNDEN ON

North Star Holsteins AUGITA STEAT ARVISACIONA
Bulls ready for service, from R 0 x
dams, sired by a son of Natove De &c
th. record of 25.21 bis in 7 days, 562
th. record days, and nearly 21 bis in
days eight days eight ere calving—larger
coord in Canada, after calving—larger
Also Females, any age, excepting heile
calves.

caives.
J. W. STEWART. . . LYN. ONT

OXFORD DISTRICT The Holland of North America

Is the place to buy Holsteins of qua The Third annual sale will be held in city of Woodstook on March 25th. Full list of breeders in the Oxford Dis-with post office and station addresses on application to: R. J. KELLY. SECY., TILLSONBURG. ON

Ourvilla Holstein Herd Bulls of serviceable age all sold. If you want them from here we would advise you to buy young. Only two Colantha Sir Abbekirk and from 217 calves left. Both are by Dutchland and 23.06 lbs. 4-year-olds. Grand individual A woulds all the college of the college o and 23.06 lbs. 4 year-one.
viduals 4 months old.
I. AIDLAW BROS. Aylmer. Ont.

Lyndale Holsteins

We are now offering Bull Calves from a month to 7 months old. All are from a ficial record dams and sired by some a of the greatest bulls in Canada.

Brown Bros., Lyn, Ont.

CRACELAND Herd sires, 3 nearest dam HOLSTEINS of his ancestors in his reservoirs in the total transparent of the consecution back have damp to the with receive the white of the transparent of the consecution of the consecu . TAVISTOCK, ONL

LAKEVIEW HOLSTEINS

LAKEVIEW HOLSIEINS
We are now testing some of the
daughters of Count Hengelveld Fran106 Ibs. with first case To 10 ibs. with
106 Ibs. with first case To 50 ibs. with
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CAMPBELLTOWN HOLSTEINS

This week we offer Bull Gaft, born as-Zlat, 1913. A dandy, nearly white in cale Sired by the great young bull, Korabiv Veeman Pontinc, and out of a good daup tor of our old herd bull. Sir Merosa Abbekerk, who now has 9 A. R. O. daup Abbekerk, who now has 9 A. R. O. daup vear-one of them over 255 6 as a time year-one of them over 256 6 as the R. KELLY. TILLSONBURG, OST.

Avondale Stock Farm A. C. HARDY, PROPRIETOR. HERD SIRES

AGENTS We will pay you well to huse in your district for new strengthens to this practical journal. FARM AND DAIRY, Peterboro, Ont.

May 8

H Two R. F. HICK

FOR SA 1 Reg. Ta 1 Berkshi nonth old, pigs 840 00, pigs 840 00, T. J. LOUI

RIVE 9 Young sired by K sister, J necessister of his

R. O. M. and P. J. SALLE Herd

Sires The dams of t for 7 days, off bull from my or carload lot Write, L. H.

BROOKSI A No. 1 B Flora (Korn mos., produ test. Sire son, whose butter in 7 in 7 days; 83,050.00. A) bred from son. For fu B. E. HAGE

Also Bull WM. HIGG MISC

MAXW Has some of in the land. Make your s MAXV STE. ANNE

CHEESEM BOX 191

EGGS FROI Barred Rocks, and Single Cor lay matings, 8 REUBEN BATH

Write f S. PRICE TOP

MONEY

EINS HOLSTEINS HERD

8, 1913

LYNDEN ONL

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Natoye De Ko Natoye De Ko n 7 days, 166 I rly 21 lbs in 1 calving — larges

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Calves from : are from of by some d

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nearest dams er 7 days i ors in be have daugh s. 7 days, and 6-lb. sister. r with grand o him. Write

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ne of the weld Fayne uning from 10 lbs. with ill a few bra that we value, it are sired fona. Come ne of these

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CKVILLE

ro, Ont

ETOR.

Two Holstein Bulls for sale. On am Lulu Glaze, Dam a richly Price. \$65. Alse record dams a two 2-yearox or come and as Fifteen months old, one from a twenty-one-pound cow. Good individuals.

R. F. HICKS. NEWTON BROOK, YORK CO.

FOR SALE 1 Reg. Holstein bull, 3 yrs. old, price \$75.00.

1 Reg. Tamworth boar, 2 yrs. old, \$25.00.

1 Berlishire sow and litter of 5 pigs 1 month old, all good thrifty pigs. Sow and pigs 840 00, on cars here. T. J. LOURY, HIGHLAND GROVE, ONT.

RIVERVIEW HERD

9 Young Bulls, from 2 to 12 months, sired by King Isabella Walker, whose sister, J nearest official vested dams, a sister of his dam, and two sisters of his circ average for the eight 30.44 lbs. from R.O.M. and R.O.P. dams. P. J. SALLEY, . LACTINE RAPIDS, QUE.

Herd KING SEGIS PIETERTJE" Sires "FINDERN KING MAY FAYNE" Bred by Meyrs, Findern, N.J.

The dams of these two sires average over 32 lbs. for 7 days, official test. Get your next young bull from my herd—best by net. One station or carload lots Farm only 40 nots from station. Write, L. H. LPSITT, Straffordyille, Out.

Proprietor, Forest Ridge Holstein

BROOKSIDE OFFERS FOR SALE

A No. 1 Bulul, fit for sorvice. Dam, Flora Korndyke Pietertje, at 1 yr. 9 mos. produced 15 30 hs. butter, R. O. M. Starten, and the son, whose the son is 7 days, saister and dam selling for 33,00,00. Mag. a few young Bull Calves bred from Sara Jewel Hengerveld's son. For full particulars address son. For full particulars address B. E. HAGERMAN, R.M.D., Harold, Ont.



HOLSTEIN BULLS

2 Bulls rising 2 yrs., grand-sons of Pontiac Korndyke, and 3 rising 1 yr. old from Also Bull and Heifer Calves. Females,

WM. HIGGINSON, INKERMAN, ONT.

MISCELLANEOUS MAXWELTON FARM

Has some of the BEST JERSEY CATTLE in the land. Also BERKSHIRE SWINE.

Make your wants known to the Manager,

MAXWELTON FARM STE. ANNE DE BELLEVUE QUE. CHEESEMAKER'S ASSISTANT WANTED

With some experience preferred. Apply, stating wages wanted, to BOX 191 -PICTON

EGGS FROM PARTRIDGE ROCKS

Barred Rocks, Rose Comb Brown Leghorns and Single Comb Reds. Beautiful bred-to-lay matings, \$1.00 per 15. REUBEN BATHO, KENILWORTH, ONT.

Sweet ream

has been sold to Mr. John Anderson at Oxford Hills. Ont. Mr. Gooderham is now entirely sold out of bull caires, and is entirely sold out of bull caires, and is present been sold on the property of the his great herd size. Fig. The caires from his great herd size. Fig. The caires from his press here are possed quick if you want one. The service peak quick if you want one. The service peak quick if you want one \$100.—10 approved cowe only. In the present the present of the present of the first of the present of the present of the first of the present of the present of the present great present of the present of the present of the can't hold the calves."

GRAND HORSE IN PETERBORO
Baron Murray, a three year-old son of
baronis Pricks, in one of the latest and
baronis Pricks, in one of the latest and
the latest and the latest and
the latest and the latest and
ported by Smith and Richard was imported by Smith and Richard was imported by Smith and Richard was interested by the latest and the latest and lat GRAND HORSE IN PETERBORO

Reetettettettett OUR FARMENS Correspondence Invited ONTARIO

ONTARIO

MILIBIPTON CO., ONT.

KINMOUNT, April 2.-Plowing started about the 16th. Then being no rain the land dried very fast.

When the start of th

VER a rage and a hait of advertisements come a few hours too late to get into the too get too the second too late to get into the too the too

HASTINGS CO., ONT.

CHAPMAN, April 39—Spring seeding has begun after the field in most cases are in a good out the field in most cases are in a good out the field in most to all after acreage than usual will work. A larger acreage than usual will be season. As a field of the field of

laborers to keep feet.—I. S. T.

ATR. April 29 - Seeding is in full swing now, but farmed beavy land are complaining of too much havy land are complaining of too much bary land are complaining of too much swing and a seeding to the complaining of too much swing land are complained by the complaining of the complaining the complaining the complaining the complaining to the complaining the complaining to the complaining the complaini

GREY CO., ONT.

WANTED

Write for particulars to:

S. PRICE & SONS, Limited
TORONTO, ONT.

S. PRICE & SONS are a considered to the construction of the constructio

CORN The King of Crops

"Corn will grow in practically every farming section in Canada. Corn provides more roughage to the acre than any other crop. It is easy to grow, easy to keep. is palatable and appetizing. Every Dairyman should be a Corn Raiser."—J. H. Grisdale.

Corn is usually sown from the 15th to the end of May, when the soil is warm and dry. There is therefore plenty of time to order Stone's 2-8-2 or 2-8-6 Fertilizers, which can be applied with the ordinary Grain Seeder, with remarkable results.

Get your supply NOW from

William Stone Sons, Limited

at either Woodstock or Ingersoll, or from any Agent.



Reproduced from a photo of the Great Holstein Bull Pontiac Korndybe photographed by an Editor of Farm and Dairy, with his Premo Film Pack Camera, while on a trip in N. Y. State last summer

Photos Taken by The Editors of Farm and Dairy

Are all made by No. 1 Film Premo Cameras

Postcard Size Cost only \$12.50

These photos are enlarged or reduced to any size required.

Cattle and Horses are readily photographed with one of these inexpensive Cameras.

It will help you wonderfully in making sales to have a photo of the animal to enclose in a letter to a prospective buyer.

Arrange to get one of these low-priced Cameras. You can do all the work yourself, for it's easy to learn how from the full descriptions supplied with each Camera.

Catalogue of Premo Cameras free by mail or at your dealers in your town.

CANADIAN KODAK CO. TORONTO





SILSON MFG. CO. 44 York Street, Guelph, Oat.

A BSORBINE STOPS Spavin, Ring Bon Side Bone of similar

OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS APRIL IST TO ISTR. 1-13 (Continued from page 35) 11m. 4d.; 560.90 lbs. milk, 21.71 lbs. fat, 27 44 lbs. butter.

FRIESIAN COWS A.FRIL IN TO 18TH. 101

FRIESIAN COWS A.FRIL IN TO 18TH. 101

Continued from gage 23)

Line 4d.; 66.09 lbs. milk, 21.71 lbs. fat, 22 d. 18

Line 4d.; 66.09 lbs. milk, 21.71 lbs. fat, 22 d. 18

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Thin and procord, 37 d. 11. 4d. 22 d. 18

Line 18th. 18th.

Bronta, Ont.

A. Bedford's Gem. 17945, 2y. 10m. 64.:
A. Bedford's Gem. 17945, 12y. 10m. 64.
better libe. milk, 12.66 lbs. fat. 16.20 lbs. better libe. milk, 12.66 lbs. fat. 16.20 lbs. better libe. Milk, 12.66 lbs. fat. 16.20 lbs. milk, 25.00 lbs. fat. 34.25 lbs. butter. Order by Gordon S. Gooderham, Bederick, 1995, 1

butier. Owned by J. M. Steves, Steveston, B. C. 17, Canary Queen DeKol End. 1730, 27, 5m. 5d.; 30.548 lbs. milk, 1907 lbs. fat. 1272 lbs. butter. Owned by J. M. Steves, 1272 lbs. butter. Owned by J. M. Steves, 1272 lbs. butter. Owned by J. M. Steves, 1282 lbs. milk, 1973 lbs. fat, 134,6 lbs. 128,70 lbs. milk, 1973 lbs. fat, 134,6 lbs. Thomas, Ont. J. Lady Idalino Veeman, 19326, 17, 11m. Thomas, Ont. J. Lady Idalino Veeman, 19326, 17, 11m. 128, 128 lbs. butter.

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is made in England and is recognized by the leading veterinary surgeons in Great Britain—used in all mounted departments of the British Army-large Cartage Companies-Omnibus Companies-and all owners of horses having heavy work to do or for show or breeding purposes. It is



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May 8

ADVERT An edito Holstein-Fr subject is sideration stock. We Nearly or breeding of derive a o the sales o purposes, in duction of the case of Those wh pure bred a cure as larg such invests intention to gony until size, the la-makes provi a necessity.

So it happ secons of paumber of loss such calv They should for breeding Without so make it ger may wait a to discover to sale.

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Immediately tion stock of be taken to le er become wid animals, bull accumulate an accumulate an come a source pose of this ai ticularly deal vertising of the the widest cirready interest cady interest cady interest councing brief location of the lines or familie dation stock. dation stock. This should be dup by short herd and its precords of damm interesting item will tend to mi new herd know familiarize then the herd and t

The period ear The period can bull calf or two do service in a small announcer quiry it should tailed advertisen particulars related. It should co sential points; the calf, a dividual merits, individual merits
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But if one has able point and co it is in these days furnish a simple letter giving price

HOLSTEINge 35)

nd, 12392, 3y 14-55 lbs fat Monro & Law

lass. 3y. 5m. 19d. at, 21.19 lbs. es, Steveston, y. 0m. 12d. 15.68 lbs. but

y. 10m. 21d.; 9.61 lbs. but. Strafford

. 10m. 5d. bs. butter.

17246, 1y l lbs. fat. Fordon 8

17314, 2y. lbs. fat, M. Steves, 4m. 15d.; 15.25 lbs. Steveston.

17310, 2y. 1bs. fat, £ Steves. 4m. 1d. 13,42 lbs poke, 8t 1y. 11m 12.28 |be

; 1284.50 butter. Ont. 2y. 0m. 11.25 lbs. mas. Ont. 2y. 0m. 2d.; 542 butter. Ont. 1y. 1im. 0.71 lbs. n. Ont. m. 9d.; be. but-be. but-be. but-tm. 13d.; be. but-tm. 5d.;

st half is qual-Record dy Vin-1.56 lbs. ong all

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ADVERTISING PURE BRED STOCK
An editorial in a recent issue of The
Holsted warm legister on the above
subject is worn legister or exercit consideration of every owner
stock. We quote as follows.
Nearly overy person who resorts to the
breeding of pure bred animals expects to
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ADVERTISING PURE BRED STOCK

duction of the milk or its products, as inthe case of dairy cattle.

The case of the cas

Bulls to be Sold

So it happens that practically all pos-sessors of pure breds have at least a number of bulls for sale. The slaughter of such calves is wrong and unprofitable. They should be reared and disposed of

They should be reared and disposed of for breeding purposes.

Without some means are undertaken to make it generally known, the breeder may wait a long time for those interested to discover that he has valuable stock for

Publicity

And while a reputation as a breeder or the possessor of a good herd may in time come to the man who does not adver-tise, it is generally a life time coming, or at best far too slow to satisfy modern

or at best far too suow to satury moments of conditions.

The administrator of one's cetate should The administrator of one's cetate should the construction of many parts, converige the establishment and dispersion of the bride of many individuals, as well as a bride of many individuals, as well as a profession of the construction of the constr

Advertising

their beeks, prompts some suggestions as to the proper course to be pursued.

The proper course to be pursued.

The proper course to be pursued.

Immediately spon acquiring a foundation stock of a upon a course of serious loss. The pursue of serious loss. The pursue a serious of serious loss the pursue of serious loss. The pursue a serious of the pursue a serious of the pursue as serious of the serious loss and the proper a serious deal will be to more particularly deal with the messpaper advertising of the herd.

The serious deal will be to more particularly deal with pursue and the principal the widest circulation among read interested in the breed, a small second the proper serious lines or families represented in the foundation stock.

This should be supplemented or follows only by short times of cossip about the soundation stock.

This should be supplemented or follows only by short times of cossip about the supplemented of a progress, the birth of calves, so up by short times of cossip about the will tend to make the operation of which will tend to make the operation of which will tend to make the operation of the breed and the results obtained.

The period early write Ads.

The

write. Answering Letters But if one has not reached that desirable point and correspondence is opened, it is in these days no longer sufficient to furnish a simple description or a short letter giving price, etc. It is necessary

to a successful effort to most carefully picture your offering to the possible cue tomer and afford him or the control of the to a successful effort to most carefull;

Satisfied Customers

Satisfied Customers

A pleased and satisfied customer is one
of the best pronoters of further trade,
and occasional interest in the results of
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quality as a manifested by a letter of
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full success.

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Hiding Your Light

tamous breeders.

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Printed Matter

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In such cases and in those where the foundation stock is large enough to affoot only enderable surplus for sale, the addition was considerable surplus for sale, the addition was considerable surplus for sale, the addition of the service bulls and principal female, the like found a necessary adjunct the like found a necessary adjunct on a small committee, as a surplus of the service of the serv

Gossip of the Herd

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The paper space having been decided upon about the breeding operations of the principal of the breeding operations of the principal of the breeding operations of the principal of the principa

Following Up

Following Up
Such advertising must not cease at the
end of a month or a season but must be
persistently continued year in and year
out, with frequent change of matter, the
most careful attention to the correspondence and a system of longing up inquiries until it is apparent that a customer
is not to be gained.



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44.152 lbs. Butter in 7 days

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The production of this new world's record cow "Spring Farm Pontiac Lass," No. 106,812, is the more phenomenal because she made this greatest of official records (44 152 lbs. butter in 7 days) in the last 7 days of her 30day test.

In the 30 days she made over 171 lbs. butter. Her MILK AVERAGED 6.2% in butter fat FOR OVER ONE HUNDRED DAYS.

You will thus see that it is very rich blood that backs the slock of my great herd sire, "Prince Hengerveld of the Ponticas."

my great herd zire, "Urince Hengerveid of the Ponticas."

I OFFER FOR SALE one bull calf sired by above bull and out of Mercena of Campbelltown, 23,57] be, butter as a 3-vear-old You can see in my stables the dam, the granddam, the sire, and sired san of this bull calf! He is a great buy at the exceptionally low price I ask for him, only \$150. He is nicely marked, strong, straightant of great depth, rangey and open. He has that bull head like you always want: is very strong in the bone; is well carried out and straight behind. He is a big calf, YOU HAD BETTER COME AT ONCE TO SEE HIM, or write;

Kindly bear in mind that you are invited to vieit the Manor Farm, where the Holsteins will delight you, they having records up to nearly 30 lbs.—one, Lady Vincent, having recently made 29.56 lbs. butter

GORDON S. GOODERHAM

The Manor Farm - Bedford Park, Ont.

(40)



Modern Barns Are Easy To Clean—Easy to Keep Clean If you could line up every cow so the manure would all wagon or shed, or on the pile 30 or 40 teet away from the barn drop, into the outler wage of it on the hadding in the stell—if wouldn't those advantages were all the you?

drop into the gutter, none of it on the bedding in the stall-if you could remove the manure from your barn in half the time, with half the work-wouldn't it be worth real money to you?

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