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There are three kinds of Brantford Roofing. Each exactly suits some special roof-need or climatic condition. One is ASPHALT with a silica sand finish-wears like steel. Another-called Rubber (though it contains no rubber)—has a smooth, rubbery finish. Crystal is surfaced with wear-defying rock-crystal. Three weights in each of two; heavy weight only in the third. Samples of each come to you for asking-and the book comes along.

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## THE FARMER'S ADVOCATE

FOUNDED 18







## of Lightning Protection The Safe, Sure Way

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can insure their safety for a small sum of nearly all country fires. The Dodd System money invested once in your lifetime? controls and prevents lightning.

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absolute ment and positive protection, the only equipped with the Allgning Stanchions, which line up cows of all lengths to the gutter, behind; Automatic Self-Cleaning Mangers, providing a separate compartment for each cow, so that she may feed according to her individual needs; Sure Stop Swinging Post, which prevents the cow from putting her head in the wrong place in entering the stall.

Every farmer who wants increased profits should send this coupon for our New Catalogue. It is free.

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Post Office
NAME
Will you want a litter carrier?
Will you want a litter carrier?
Will you want a hay track?
If so, when?
Do you contemplate remodelling ?
How many cows have you ?

FOUNDED 1866

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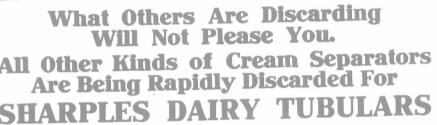


out pushing trash ahead of the knife.

guards.

INTERNATIONAL HARVESTER COMPANY OF AMERICA (Incorporated) USA









Now sit right down, take your pen or pencil-fill out the attached coupon-or a post card if it's handier-and write for the circular which fully describes the conditions of this, the first contest of the kind ever held in Canada.

Every dealer who handles "CANADA" Cement will also be given a supply of these circulars-and you can get one from the dealer in your town, if that seems more convenient than writing for it.

Contest will close November 15th, 1911-all photos and descriptions must be sent in by that date, to be eligible for one of these prizes. Awards will be made as soon as possible thereafter. The decisions will be made by a disinterested committee, the following gentlemen having consented to act for us, as the jury of award: Prof. Peter Gillespie, Lecturer in Theory of Construction, University of Toronto ; Prof. W. H. Day, Professor of Physics, Ontario Agricultural College, Guelph, and Ivan S. Macdonald, Editor of "Construction."

of reinforcing, if any and finally, what the job cost. So that by the time you finished, neighbor Wilson would have a pretty accurate idea of how to go about building the particular piece of work which you described.

built, you would be glad to tell him, wouldn't you? And it

wouldn't take you long, either, would it? And, as a matter of fact, you'd find as much pleasure telling him as he would in

First you would take him over to view the silo or barn

foundation. Then you would start to describe it-its dimensions-the kind of aggregate used-the proportions of cement

used-number of men employed-number of hours' working

time required—method of mixing—kind of forms used—method

listening-isn't that right?

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Now couldn't you do the same for us, with this difference -that you stand a good chance of getting well paid for your time?

In Prize "D" of our contest, open to the farmers of Canada, we offer \$100.00 to the farmer in each Province who will furnish us with the best and most complete description of how any particular piece of concrete work shown by photograph sent in was done. The size of the work described makes no difference. The only important thing to remember is that the work must be done in 1911 and "CANADA" Cement used.

In writing your description, don't be too particular about grammar or spelling or punctuation. Leave that to literary folk. Tell it to us as you would tell it to your neighbor. What we want are the facts, plainly and clearly told.

Sounds simple, doesn't it? And it is simple. And surely Canada Cement Company, Ltd., Montreal

Having decided to compete for one of the prizes, your first step should be to get all the information you can on the subject of Concrete Construction on the Farm. Fortunately, most of the pointers that anyone can possibly need are contained in our wonderfully complete book, entitled "What the Farmer Can Do With Concrete." A large number of Canadian farmers have already sent for and obtained copies of this FREE book. Have you got your copy yet? If not, you'd better send for one to-day. Whether you are a contestant for one of our Please send full prizes or not, you really ought to have this book particulars in your library, for it contains a vast amount of and book. information and hints that are invaluable to Name ..... the farmer.

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Fill in coupon and mail to us.

734 Not -What You Earn But What You Save

is the measure of your success. Small earning power is often more than balanced by a habit of saving. In the struggle for independence the man who saves-even a littleis far ahead of the better-paid man who saves nothing.

#### **Be Independent**

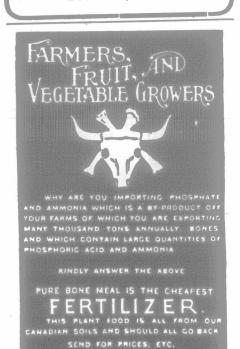
Determine to save a little steadily. It demands far less self-denial than you may imagine. And the accumulation of

### **Compound Interest**

increases your savings more rapidly than perhaps you have thought. You can open an account in this old-established, strong, safe institution with one dollar or more.

Paid-up Capital and Reserve Fund, \$2,050,000.

Ontario Loan and Debenture Co. Dundas St., corner Market Lane, LONDON, ONT.



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## ~~~~~ A CANADIAN SCHOOL FOR BOYS. IIFGE St. Catharines, Ontario. Three separate residences; new, specially built and equipped. 1. Lower School for Boys under fourteen. 2. Dean's House, for Boys of fourteen and fifteen. 3. Upper School, for Advanced Pupils. Gymnasium and Swimming Bath just erected. Fine Hockey Rink, Athletic Fields and Playgrounds unsurpassed. Eighty acres. Mild climate. University scholarships won in 1909 and 1910. Boys prepared for Agricultural College. REV. J. O. MILLER, M. A., D. C. L., PRINCIPAL. ...... The Right of Way In the bowl of the DE LAVAL **CREAM SEPARATOR (** No confusion occurs between the cream and skim-milk currents. **(** There is a guarded channel for each, and yet any dilatory fat particles have full opportunity to join the cream current without disturbance in any way. Each has its full right of way from entrance into, until discharged from the machine. That's The De Laval Separator Co. why the skimming is so perfect. 173-177 Williams St. MONTREAL GET A CATALOG. VANCOUVER-WINNIPEG **A** Dirty Carpet **Or a Clean Painted Floor! WHICH IS BETTER?** You KNOW which YOU would sooner have. You Think what a difference a few dimes' worth of M - L Pure Paint would make about the know which LOOKS the best house. It would make some of and is the easiest to KEEP clean. Better decide now to the wood work look like new-or a worn-bare, shabby-looking floor freshen things up right away with a tin or two of M-L Floor Paint. made spic and span as when you first walked on it with M - L Floor

**EWING'S 41st** Annual Seed Catalogue is the safe guide to crops worth growing. It describes and quotes prices on Vegetable Seeds-Flower Seeds-Bedding Plants-Lawn and Agricultural Grasses and Clover Seeds-Roses and other Shrubs-Field Root Seeds-Ensilage Seed Corn and Field Grains of all kinds-Fruits Trees and Small Fruits-Fertilizers-Insecticides-Lawn and Garden Tools and Implements-Spraying Appliances-Incubators and Poultry Supplies. If you are interested in any of these, a postcard will bring you our Catalogue, promptly, free. WM. EWING & CO., Seedsmen MCGILL STREET, MONTREAL. 14

## THE FARMER'S ADVOCATE.

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Vol. XLVI.

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## EDITORIAL.

Manitoba now follows Saskatchewan's example by inaugurating an alfalfa campaign.

" All I know of Canada is that the best people of my constituency are moving there."-[Hon. Champ. Clark, U. S. Congress.

Last year, the farm fields of Canada produced crops valued at \$507,000,000; but, had all been brought up to the standard of the best, those crops would have represented \$500,000,000 more. By more thorough tillage this spring, will every reader of "The Farmer's Advocate" do his share towards this doubling process?

The lure of wages, observes Dr. Jas. W. Robpublic school. Serving no apprenticeship, he gets into a blind alley, and perhaps drifts into town to drive a delivery wagon or be a messenger boy. At eighteen years, he is too big for his job, and nure floating about like an ark waiting for the graduates on to a street car, and there, ten subsidence of the waters. As a rule, those who chances to one, he sticks.

One new business creates another. There are about 350,000 automobiles in use in the United States, and the risks to life, limb and property from motoring are such that four forms of automobile insurance have developed : First, on aclosses to others; third, collision insurance; and ments—surely 1911 will witness the prosecution count of personal injuries; second, property fourth, fire and theft. Some car-owners carry of a record campaign in Canadian drainage. all four forms of insurance.

Acknowledging a repeat order for lime-sulphur, one of the two companies advertising this material in "The Farmer's Advocate," regrets that it is unable to catch up with any orders dated April 6th and later, adding this encouraging sentence: "The good work that you have been doing towards educating farmers and fruit-growers has made the demand for spray chemicals this year over four times what it was last year, at least so far as we are concerned."

#### LONDON, ONTARIO, APRIL 27, 1911

#### The Spring Deluge.

Saturated soils, swimming fields, and transient torrents, sweeping away good surface soil to enrich some distant river bottom, repeat again the lesson of the tile and surface drain. Nature does not weary in her admonitions. If we did not heed last year, she tells us again in the spring of 1911, and will give us another object-lesson in 1912. Almost invariably, the early-sown grain yields by far the best crops. That is conceded, and yet we postpone putting down the tile drain, thus losing probably eight or ten days in getting upon the land, and bushels galore in the harvesting. In a waterlogged condition, the soil is cold and stiff, frustrating our efforts to prepare a proper seed-bed in which the grain will have a chance to germinate and develop. Another pressing reason for attention to drainage is the increasing practice of spreading manure upon the ertson, takes the fourteen-year-old boy out of the fields in the winter season, in order to save labor and avoid the wastes of barnyard heating and leaching. Even on fairly level fields, it is not reassuring to see the roughage of the stable mamanure where there are natural runways, or on hillsides. It being no uncommon occurrence for a tile drain to pay for itself by the increased crop in one year, surely, with so many other good reasons for doing the work, and adding so much to the comfort of spring operations, and the saving of "wear and tear" to horses and imple-

## Neglected Opportunities.

Federal and Provincial Departments of Agriculture in Canada provide for the enterprising agriculturist many valuable services that should be taken advantage of more generally than they are. All one need do to become acquainted with the opportunities open to him is to read the agricultural papers and the official Departmental reports. Taking the Dominion service first, we have, for example, a chemist at the Central Experimental Farm who will analyze samples of water from farm wells free of charge. The Seed Laboratory will make examination of seeds for purity, and, large immigration of American farmers into our in case of doubt, will make germination tests, as Western Provinces, but numbers of them are lo- well. The Dairy Division of the Dominion Dethe keeping of individual cow records, a service inaugurated by the Agriculturist of the Central Experimental Farm. Any farmer who wishes to have his cows tested for tuberculosis will be supplied through his veterinarian with tuberculin from the Veterinary Director-General's Branch, if the owner will agree to the conditions laid down. Coming to the Provincial Department, we note first that the Ontario and Nova Scotia Agricultural Colleges are sending out, at a quite nominal charge, nitro-culture for the treatment of legumes. The Ontario College has also been developing a staff for the free drainage survey of privately owned farms, the only cost to the owner being travelling expenses, at a cent a mile, and board

in other matters, we practice what we preach. We have obtained from Guelph enough nitro-culture to treat two bushels of alfalfa seed, at a total cost of 50 cents. We have applied to Guelph for a drainage survey of our farm. We are obtaining from the Dairy Commissioner's Branch printed forms for the keeping of milk records. Our grass and clover seed have been purchased after report from Ottawa upon samples obtained and submitted. We are never backward in asking for a bulletin we want, or, if necessary, consulting public servants concerning points in their respective spheres about which we wish information not otherwise obtainable. These services are established to be used. The more widely they are used, the better for Canadian agriculture, and thus, indirectly, for Canadian prosperity in general. No one need feel under any obligation in availing himself of help from such sources. Rather, he may have the consciousness of knowing that, by improving his opportunities as a citizen, he is contributing to the welfare of the whole community. Take cheerfully of the help and information freely on tap.

## Bovine Tuberculosis.

This dread disease is among our cattle. There is no sense in shutting our eyes to this; it is a fact. The evil is increasing, rather than declin-Just how prevalent it is, and what measures should be taken in regard to it, are problems that should be faced and solved. The possible menace to public health from the use of tuberculous beef, or the milk from tuberculous cows, while in some quarters overrated, is not to be ignored, and the prevalence of tuberculosis in hogs is caused almost wholly, if not altogether, by following diseased cattle or by being fed their milk. The question of the future of Canada as a producer of stock cattle is also involved.

Too often it has been the case that an animal suspected of having the disease has been treated like the counterfeit money which the good deacon abhorred, and got rid of as quickly as possible. The application of the tuberculin test to animals pronounced diseased by experts has been known to be resisted on one pretext or another-but really for fear of the financial loss that might ensueuntil death from tuberculosis has supervened. There is some excuse for such conduct, in view

#### No. 970

cating in Western Ontario. A few days ago, two of this class, having thoroughly looked over a farm of 225 acres near London, were prepared to offer \$18,000 for it. They had sold their own property in the States for \$35,000. The owner had, however, some time before concluded a deal in regard to the farm. The lawyer who gave us this information said that these gentlemen would in all likelihood purchase in an adjoining township, and he hoped they would, for they were of a time type.

Hiram Pettit, a brother of Morley Pettit, Proincial Apiarist, O. A. C., Guelph, writing the Belmont (Ont.) Times from his home in Caliornia, where he is engaged in growing oranges and grapes, says: "Do you know that Dor- of the surveyor. formerly engaged in farming) is just as good an Provincial Departments, as well as the Federal pple country as the far-famed apple districts of Department, have considerable staffs of expert younger man, with the knowledge I now have cheerfully answer sensible correspondence, often fruit-growing, I would not be afraid to set out giving information of the most valuable charh apple orchard of 50 acres on the 8th conceson of South Dorchester, and in fifteen years

nake a fortune out of it."

In addition to these forms of assistance, all the Anshington and Oregon ? Well, it is; and if I were teachers and investigators, any of whom will

dilized widely by Canadian farmers. In this, as ing the statement from which the above infer-

of the fact that the owner himself has to bear all the loss, and it will be repeated so long as that is the case.

But is it not time that many of our more wealthy farmers and stockmen should take up this matter individúally. Public spirit shows itself in being ready to sacrifice self-interest for the public good. The International Commission on the Control of Bovine Tuberculosis, whose excellent report can be obtained free from the Veterinary Director-General, Ottawa, say in this report that "The owner's co-operation in this work is a very essential feature of this great task." But they go further, and state that "It is a wellknown fact that any voluntary method of suppression by the herd-owners themselves would bring about better and quicker results than when compulsory measures are enforced upon them." Loyalty is often loudly proclaimed; here is a way in which it can be quietly practiced.

A significant inference can be fairly taken from the report to which we have referred. It is to this effect, that, before the importation of wellbred cattle from Europe, for the purpose of improving the native stock of the country, tuber-Every one of the services mentioned should be culosis among cattle was unknown here. Follow-

## THE FARMER'S ADVOCATE AND HOME MAGAZINE.

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

736

PUBLISHED WEEKLY BY THE WILLIAM WELD COMPANY (LIMITED).

#### JOHN WELD, MANAGER.

Agents for "The Farmer's Advocate and Home Journal," Winnipeg, Man.

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- THE FARMER'S ADVOCATE AND HOME MAGAZINE is published every Thursday.
   It is impartial and independent of all cliques or parties, handsomely illustrated with original engravings, and fur-nishes the most practical, reliable and profitable information for farmers, dairymen, gardeners, stockmen and home-makers, of any publication in Canada.
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ence is taken, and in view of the sources from which infection has come in the past, the report says that, in efforts to detect the cases of tuberculosis that exist to-day upon the farms of the country, attention may first of all be directed toward all herds of pure-bred cattle, whether of beef or dairy type; also herds where improved stock has been used for grading-up purposes "Next in order should come all dairy cattle."

Is it unfair to say, in view of these opinions, that tuberculosis is an indoors disease? The other day the writer called at the city home of a tinue, may be a debatable point. Evidently, deyoung couple, which they bought new about a year

raised as hardy as possible, and should be accustomed to liberal exercise and living in the open.'

## The Power of Spring.

Springtime comes again with uplifting force. It quickens nature and it quickens men. Truly has it been said that the silent forces are the mightiest-unseen, yet all-powerful. The thunderous plunge of Niagara is impressive, but it is nothing to the inscrutable hydro-electric current that lights cities and drives the wheels of mills two hundred miles away. We stand amazed before the storm, and when we talk of farm power we think of the steam traction engine, the windmill, or the gasoline motor; but if we would see real, magnificent force, the eyes must be opened during these spring days, when some mystical energy expands buds into flowers, unlocks the throats of every song-bird, enwraps with garments of green the gray twigs of ten thousand trees, whitens the fruit bushes in every township, drives up the grass on a thousand hills and pasture fields, recarpets the alfalfa plots and the brown areas of winter wheat, and unfolds into living plants, to feed us for another year, the germs of ten million kernels of oats and corn, or helplesslooking garden seeds which, by faith, the trusting housewife commits to a mark in the soil in hope of a speedy resurrection. And Nature does not fail her. Spring is eternal. Life is in that brown husk ; moisture and food are at hand, just waiting the generating warmth of the solar dynamo, 95,000,000 miles away, which makes no noise in lifting up the new world of 1911.

## HORSES.

The keen demand for good young mares, and the noticeable premium in price they command, as compared with geldings of equal weight and quality, indicate that Canadian farmers at last have awakened to the wisdom of keeping the good young mares at home to supplement the farm revenue by breeding a colt or two each year.

#### \* \* \*

All the four horses purchased for "The Farmer's Advocate'' farm are young mares of 1,400 pounds, or near it. With average good fortune, it is hoped to raise two or three foals per annum. Effort may be made to breed a couple of the mares to foal in autumn.

Is the horse business liable to be overdone in the near future? It is rather hard to say. Whether the present range of values will long conmand has been stimulating breeding of late. However, there would still be money for the farmer in breeding the right class of draft horses at somewhat lower prices than good ones now command

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### Should Horses Drink at Will?

We have this spring built a horse stable, and in front of horses' mangers is a long cement trough for watering horses. Horses can drink from stail. The trough has a lid to keep out dirt, which can be raised to let horses drink. There are also doors in front of horses which raise and fasten while feeding horses. Do you think it would be advisable to leave doors that horses may drink at will, or should they be watered at certain times? We all know it is natural for horses to drink after eating, but many condemn this, fearing the water has a tendency to wash feed out of stomach. What is your opinion ? I remember once reading that in Denmark (I believe it is) it is customary to let horses have water while feeding, and it was claimed that broken-winded horses were practically unknown, and the fact was attributed to this. F. H. W.

Ans .- We should not consider it necessary, or even desirable, to have provision for the horses to drink every time they took a notion. These automatic watering devices are usually at-Our own practended with disadvantages. tice is to feed hay first thing, then attend to stables, grooming and harnessing, then water and feed grain. We prefer not to water immediately after feeding grain.

### Preventing Sore Shoulders.

A correspondent of the Breeders' Gazette, as the result of ten years' experience, strongly recommends, for preventing sore shoulders, lining the sweat-pad, or collar that comes next the shoulder, with pure white oil-cloth. Put the smooth part of it next the shoulder, lining the pad or collar all through, and sowing it in around the edges. The collars can be washed off and kept clean.

## LIVE STOCK.

#### Stable Hints.

A card and brush should be kept and used in every cattle stable.

Five minutes will suffice to drive spikes in the walls to hang dung forks on.

#### \* \* \*

The stable will look neater with utensils carefully hung up, time will be saved by having a place for things, and an ugly accident may possibly be avoided.

Regularity in the order, as well as the hour of milking, feeding and watering, is desirable. \* \* \*

#### Comfort pays.

\* \* \*

Harsh words tell in the milk flow or the daily rate of gains.

You know how it feels to lie on a lumpy even hed is apsoft

ago. It is quite luxuriously furnished, and very snug. But the stuffy odor of the place, entirely unnoticed by its owners, of course, was proof that if it had not been quite so snug, the house would have been more healthful. Pity 'tis, but it appears to be true, that intensive breeding, feeding and care, requiring much effort and thought on the part of stockmen, lower the stamina of cattle and render them fit subjects for contracting and disseminating tuberculosis. The lack of ventilation in many dairy stables during March and April is simply deplorable to those who have thought for the health and sensations of the cows. It is more than questionable whether the fear of a lessened milk flow from a cool in-draft of air does not result, in the long run, in a much more serious lessening of production. A section regarding "Sanitation" from the report, may well be quoted entire : "In the

eradication of tuberculosis, it should be kept in mind that, in addition to protecting the animals against exposure to tubercle bacilli, it is desirable to make them as resistant to infection as possible. This can be done by stabling them in clean, disinfected and properly-lighted and ventilated barns, giving them abundant clear water and nutritious food, a sufficient amount of daily exercise in the open air, and attending generally to those conditions which are known to contribute to the health of animals. The daily removal of manure from stables, and water-tight floors and good drainage in stables, are urgently recommended. Young stock, particularly, should be

#### Retention of the Meconeum in Foals.

The question is sometimes asked whether castor oil or linseed oil should be administered to foals that are constipated when about a day to a week One of the best veterinary advisers in old. Canada is emphatic in saying that the common practice of giving purgative medicines in cases of this kind cannot be too highly condemned. What is spoken of as constipation is, in newly-born foals, really the retention of the meconeum. This is a substance which fills the bowels more or less at birth, and is in the form of lumps or balls of a dark, almost black, color, and of about the consistence of putty. Under normal conditions, the foal, shortly after birth, will be noticed evacuating a quantity of these little black lumps, and the evacuation will be repeated at intervals for about twenty-four hours, after which the color and character of the faces change to a yellowish mass of a sticky character. Unfortunately, this normal evacuation does not always take place, In such case, the and the meconeum is retained. proper treatment is not the giving of purgatives. Instead, the nail of the forefinger should be cut short, and it should then be oiled and carefully inserted into the rectum, and all the lumps that can be reached removed. An injection of warm water and linseed oil should then be given, and the operation repeated every few hours until the fieces become yellow, when danger is passed. Tt is good practice to mechanically remove in this way the meconeum in all foals, without waiting for exuptoms of retention.

straw tic preciated by the cow or steer, as well as by yourself. \* \* \*

Littered alleyways spell waste, and bespeak the slovenly farmer.

Do not forget to put a few oats in the calf's feed-box. Calves will eat whole oats about as soon as anything, and perhaps nothing is better for them, especially when the milk supply is short.

Do not commence too early to figure the cost of the calf's daily feed of milk. You may get cheaper gains on cheaper feed, but you will have a cheap, runty calf on which subsequent feeding will not tell as it should. All babies of mammals require milk, and cannot get the start they should without a fair amount of it. It is extreme penny-wisdom to stint a young calf or colt or pig for the sake of a few quarts of milk. Immediate cash return is not everything. Look ahead.

There are a large number of scrawny cows being raised in the cheese sections of Canada for the lack of a little good calf-feeding.

\* \* \*

Do not shrink from the tuberculin test. Welcome it as the sunlight, and utilize discreetly the knowledge it supplies.

\* \* \*

To supplement skim milk in calf-feeding, nothing better than a handful of flax seed has been discovered. It may be simmered to a felly, or merely scalded at feeding time.

APRIL 27, 1911

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#### THE FARMER'S ADVOCATE.

#### Brunswick Stock-breeders' New Convention.

With a view of providing better facilities for the agriculturists of New Brunswick to acquire pure-bred stock, the Provincial Department of Agriculture has decided to inaugurate a series of auction sales, to be held periodically at various placed in the Province, where such stock can be assembled in such numbers and variety as will make it worth the while of farmers to attend with some degree of assurance that they will be able to meet with the class of stock they need. With the view of further assisting in this project, the Government will from time to time make importations of different breeds of stock, which will be offered for sale at these auction sales. first of these sales was held at Fredericton on the 12th inst., when about forty animals, chiefly Shorthorn and Ayrshire cattle, and some draft horses, were offered. Buyers attended in large numbers, and the bidding was spirited, prices ranging from \$190 for cows, down to \$60 for six-months-old calves, and many more could have been sold at satisfactory prices.

Advantage was taken of the presence of so many prominent farmers and stock-breeders in the city to hold a convention to discuss matters pertaining to the industry, and, in response to the invitation of the Commissioner for Agriculture, a large and influential gathering met in one of the committee-rooms of the Legislative Buildings, under the presidency of Lt.-Col. Campbell, of Apohaqui, President of the New Brunswick Farmers' & Dairymen's Association.

W. W. Hubbard, Provincial Secretary for Agriculture, explained that the chief object of calling them together was to get an expression of opinion as to the best means of promoting the live-stock industry in the Province, as, from the statistics of imports of meat and poultry, it would not seem as though the Province had much of a livestock industry. Compared with the other Provinces, New Brunswick made but a poor showing. There was a falling off in horses and sheep in the last ten years, though swine had somewhat in-There had been some little improvement in the later years of the ten, but the Province was not beginning to compare with Ontario, in proportion to population. This was a matter which was capable of being remedied, and he would like an expression of opinion as to the He felt that readiest means of going about it. if the agricultural societies and stock-breeders associations would take the matter up in earnest, some tangible results would accrue.

W. McIntyre, from Gloucester County, thought increased grants to exhibitions would encourage farmers to raise better stock. He did not know any reason why as good stock could not be raised in New Brunswick as in Ontario, in which case Ontario farmers might come to the Province for good animals, instead of New Brunswickers having always to go to Ontario.

Geo. E. Fisher, of Chatham, said that the improvement of stock-raising conditions was the foundation of successful farming. Mixed farming was what counted, and, in order to be successful in it, a farmer must raise stock. New Brunswick was perhaps better suited for dairy farming than anything else, and the Ayrshire stock which would be for sale was ideal for the purpose. could be no doubt that Ontario was the greatest agricultural Province in the Dominion, and there mixed farming was the aim of the farmer. What with dairying and sheep and swine raising, there were splendid opportunities for farmers in New Brunswick, and no Province offered better markets for the farmers' produce.

A. Justican, of Victoria County, thought that much good might be accomplished by exchange of pure-bred bulls among the various agricultural societies. After a bull had been in one district for, say, a couple of years, it would be a good plan to exchange him with another society at a distance, and inbreeding thus be avoided. He also disapproved of killing bulls when they were comparatively young, and said ten years was not too long to keep a good animal in service.

Hon. Dr. Landry, Commissioner of Agriculture, was glad to see so many representative farmers and stock-breeders present, and to hear so many expressions of approval of the Government's pol-He felt that the idea of exchanging stock bulls was a good one, and could be readily carried

breeders in the past; therefore, resolved, that this meeting recommends the Department of Agriculture to arrange for auction sales of such stock, and that this stock be taken from New Brunswick breeders at such times as might be agreed upon, based upon the production figures of the stock, and this offered for sale.

#### Fresh-air Treatment for Tuberculosis in Cattle.

#### Editor "The Farmer's Advocate"

Recently I read in the Technical World that many fine dairy cattle are being tested for tuberculosis, and when found infected they are killed. It occurred to me



## Baroness (imp.) [20270] (23247).

Clydesdale mare; brown; foaled 1907. Imported by Smith & Richardson, Columbus, Ont. Second at Toronto National. First and champion at Ogdensburg, fall of 1910. First and champion at Ontario Winter Fair, Guelph. Second at Ottawa Winter Fair. Sold to W. J. Cox, Peterboro. Sire Cassabianca.

The stock which the Government had imported was as good as was to be procured in Ontario, and, if carefully looked after, could not fail to improve the breed of cattle in New Bruns-He believed the time would soon come when the farmers would be able to put on the market each year a nice selection of stock, such as would meet with a ready sale. He felt like paying the expenses connected with the sale, and putting all the farmers on an equal footing. farmers would make up their minds to keep better stock, even if they only began in a small way, the result was bound to be highly beneficial not only to themselves, but to the Province generally.

It was my duty to go to the range and drive in the cattle as they were needed for butchering, two to four at a time, and I became so used to their actions that when they were coming over a trail across the mountain top I could tell just in what state their lungs would be when the cat-The very best of tle were killed and dressed. tnese steers did not weigh over 600 pounds when ready for the market. All of their flesh was bluish, and their lungs were blue and swelled, and some of them had their lungs grown to their ribs. Some were too poor to kill, but a year after be ing turned onto the range were fat and in good condition. Four-fifths of the cattle killed by the butchers had pleuro-pneumonia, and had had the un of the feeding ground with other cattle.

that an experience

we had in New Zea-

land in the early

sixties might be of

some assistance in

stamping out the

disease, without de-

stroying so many

good beeves. At

the time I speak

of, beef was scarce,

and our supply

came from Aus-

tralia, and nearly

every one of them

was infected with

pleuro - pneumonia.

My parents had

about 300 cattle in

the Wakatip dis-

trict, which was

situated 2,000 feet

above sea level. A

butcher brought up

about 100 head of

infected steers, and

turned them on the

same range as ours.

Eight of his cattle

died within a few

days after, I think

because of the

change of climate.

These eight were

buried along with

thirteen others that

he had shot, owing

to their poor con-dition. The rest,

dition. The rest, with the exception

of nine, which were lost, were butchered

and eaten.

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James A. Telfer, of King's County, who has just moved into the Province from Ontario, said, from what he had seen of the land in New Brunswick, he felt there was no reason whatever why it should not be as good a live-stock Province as The farmers, however, required educating on the subject, and he thought that short courses in judging should be given by competent Another thing he thought was that many of the farmers were not good feeders, and good results could not be expected without good feeding. No matter how good the breed, good feeding was half the battle, particularly in this matter of dairy stock. He advocated a much greater use of alfalfa, which throve very well in the Prov-Asked as to the sheep industry, which is Mr. Telfer's leading line, he said that there was a profitable market in the Province for sheepbreeders, though he would like to see better prices for wool. He believed in feeding lambs well on in the season, rather than killing them very young. Before making up his mind to settle in New Brunswick, he had travelled over several Provinces in search of a location, and he did not think he had made any mistake in settling in this

Province, as the best place for sheep-raising. Col. Campbell approved of the policy of the Government in arranging for periodical sales of pure-bred stock, and he felt that stock-breeders would have some encouragement to persevere in their efforts when they were able to feel that facilities were to be afforded them for disposing of their stock, instead of having to trust to chance to be able to dispose of it privately

Dr. Landry concluded by announcing the proba-bility of a couple of Shorthorn importations in the near future.

never knew of a native animal having the disease The nine that



years later, and helped to butcher them. They were wild as antelope, but dressed but over eight hun-dred pounds. They all showsigns of ed having been diseased, and had been so far gone that one could see where their lungs had been grown to the ribs; and one was so bad that one lung was entirely gone, only a small, hard

were lost I

found two

#### Helping Themselves.

Several other speakers expressed approval of lump remaining, yet these cattle were in healthy the inauguration of periodical sales, and of the condition when killed. policy of the Government in making importations of pure-bred stock, and the following resolution

was unanimously carried: "Whereas, it is desirable to encourage the breeding of pure-bred stock of best quality in the Province of New Brunswick; and, whereas, this business has not proved remunerative to our

There is no doubt in my mind but that the mountain range of the Wakatip district, with plenty of grass, was a sure cure for pleuro-pneu-monia. I believe that if the United States De-nertment instead of killing the sattle mould repartment, instead of killing the cattle, would remove a large herd of diseased cattle to a range in some such country as the head of the Membris

River, in New Mexico, or in the hills to the west of the Pecos River, where they could roam at will in their native elements, with plenty of good grass, it might prove a very instructive experi-It might not do to turn sound cattle in ment. with them at first, but, after the infected ones had recovered from the change in the climate, I do not think they would transmit the disease to the healthy cattle.

If my theory is correct, it is not likely that the calves would have pleuro-pneumonia, unless confined to the close, filthy stables where these diseases originate. My opinion is that, for the welfare of the cattle-owners, sanitary conditions should be strictly enforced, and animals kept clean, with plenty of ventilation, and a certain amount of cubic feet of pure air to each head of We see such men as Bernard McFadden, stock. of Chicago, and Sandow, of London, both consumptives, who are now amongst the strongest men of the times, and they claim that all that cured them was pure air and exercise. If those two things will do that for men, and it acted as it did to my own knowledge in New Zealand, on cattle, would it not be wise to try my suggestion and see if we cannot save some of these valuable dairy and beef cattle that are being destroyed. I believe that many would get better right here in DAVE COLVILLE. Alberta's good climate. Alta.

## Obstructed Milk Flow.

Editor "The Farmer's Advocate" Of the many good things published recently in "The Farmer's Advocate," the seasonable series of letters on the common troubles of the cow at this season has been one of the best, and easily worth to any dairyman, particularly, ten times the subscription price. In fact, I would like to say just here that the paper stands in a class by itself. I have found no other farm paper to compare with it in practical value, arising from the fact, no doubt, that its staff are actually men of the farm, and in constant touch with its real Knowing the needs of the stockman, problems. the orchardist, and others, they are on the alert, and, of course, in a position to secure information of the most helpful sort, and readers can do no better service to one another than to contribute of their experience through its pages. That is why I liked the letters on the spring troubles of the cow, and how to avoid them, so far as pos-But these letters prove once more that sible. the Wise Man of old was right when he declared that in a multitude of counsel there is wisdom. There is hardly any limit to what may happen, and no one has a monopoly of experience. far as I read, none of these writers described an udder trouble just like the one which I noticed The cow was in good health, vigor recently. and condition, and dropped a healthy calf. Though apparently full, the udder and teats showed no sign of caking, nor, for a time, of any inflammation, but the calf could secure only a little milk, and that from one quarter. Handmilking was equally futile. The cow's secretions were quite natural, but she was given a couple of doses of salts, and the udder was fomented with hot water, and rubbed with vaseline, but no milk could be extracted, and the udder became greatly distended. Finally, by the use of milking tubes the veterinary succeeded in puncturing a curtain or growth which he said had formed underneath the gland, effectually preventing the milk from coming down into the teat, and, being so confined, was liable to cause septic poisoning. Drawing off the milk relieved the cow, but satisfactory recovery, as far as milking is concerned, is not looked for. Sometimes, it is said that the use of the tubes, persistent bathing, manipulation, and hand-milking, will bring the cow around for one season, but next spring the trouble will recur. In this case part of the udder caked, and the cow "lost her milk." Usually, owners are advised to dry up cows so affected, and turn them No specific name was given the off for beef. trouble in this case, though it was said not to be an uncommon trouble. It may be that other readers could throw light on its cause, and the advice of professionals as to its possible preven-MILKMAN. tion would be appreciated.

calves to be kept in until after that time, as they get better able to follow the cows, thereby insuring each its share of milk. We use caustic on the calves' horns when they are a week old to prevent their growth, and it may need to be applied twice.

## THE FARM.

#### Fertilizers on Turnips.

Editor "The Farmer's Advocate":

Kindly allow me, through the columns of your valuable paper, to give the results of an experiment I conducted on turnips last season.

Having purchased a small quantity of fertilizers almost each season for the past few years, and many times experimenting with same, I was recommended by a friend to the Potash Syndicate, with whom I might co-operate in an experiment during the season of 1910.

The fertilizers were promised gratis, provided would use them as directed, and keep a strict account of results obtained, and report same to the Potash Syndicate. This I agreed to do.

An acre of ground was chosen, and divided into three plots of one-third acre each. The plots received an equal application of barnyard manure. Plot 1 was unfertilized ; Plot 2 received nitrate of soda, acid phosphate, and muriate of potash; Plot 3 was fertilized with nitrate of soda and acid phosphate. Except in regard to fertilizers, each plot received practically the same treatment. The land was plowed in the fall, and was ready for seeding on 22nd June, about eight or ten days later than the usual time for seeding. The potash and acid phosphate were applied on June 10th; the nitrate of soda was applied on July The crop was harvested on October 29th 15th. The season was not a favorable one and 31st. for turnips in this locality, owing to drouth from August 10th to September 7th, but I consider that 1,038 bushels of turnips of the finest quality would be an excellent yield under favorable circumstances. The actual results are given below

Value Cost of of ferti- increase. lizer.	
13.35	
9.60	23.28

FOUNDED 1866

#### Is Your Water Supply Safe?

Water is undoubtedly the greatest carrier of There is always a definite relation bedisease. tween the death rate in a large city and the purity of its water supply. On the whole, it is safe to predict that those cities having the highest death rates have impure water supplies, while those cities with low death rates are sure to have pure water supplies.

Typhoid fever and intestinal disorders are the diseases most likely to be transmitted by pol-Excrements from typhoid patients luted water. are teening with the bacteria which cause that disease. If, by any means, these excrements infect the water supply, that water, if drunk, will probably cause the disease. Typhoid outbreaks, whether on the farm or in the city, can usually be traced to a water supply which had become infected with sewage from typhoid patients.

There ought to be no question about the purity of the water supply on every farm. Unfortunately, a large number of farm water supplies are not safe, and are probably the cause of disease.

The United States Department of Agriculture, in co-operation with the Minnesota State Board of Health, made an exhaustive investigation of 79 carefully-selected typical farm-water supplies in different parts of Minnesota, with these results: (1) Twenty water supplies were good, and 59 were polluted. This pollution was largely due to careless or ignorant handling. (2) Of the polluted wells, 11 were so located that extreme care could not make them safe; while the others, with proper protection, such as good curbing, tight platform, and protection from surface-wash, could be made safe. (3) During the investigation, it was found that 23 farms showed a record of typhoid fever. The water on 18 of these farms was polluted, and was the probable cause of the disease, while on the other farms the cause of the disease could not be definitely located.

How can you tell whether your water supply is polluted or not? The following kind of well is safe : A deep-driven well, with tight curbing and platform, which is raised above the ground at east six inches to one foot. The ground slopes away from the well in all directions, so that no surface water can enter the pit. The well is located as far as practicable from the privy vault -100 feet. preferably more-and an equal or greater distance from barnyards, cesspools, etc.; and the drainage from these places should be away from, and not toward the well.

The following well is apt to be polluted : A shallow-dug well, curbed with rock or other material, with loose platform, allowing dirt and surface drainage to enter the well; located within a few rods of a privy vault, cesspool or barnyard, with the natural drainage from these places toward the well. Even if the natural drainage were away from the well, under these conditions. there would probably still be seepage from the barnyard, etc., into the well.

Make a careful survey of your water supply, and you can probably tell quite accurately whether it is safe or not. Do not send any samples of water to the Chemist of the Experiment Station, because he cannot make such examinations. However, if you are in doubt as to the purity of your water supply, send him an accurate and complete description of your well, and a rough sketch showing the location and distances between the well and farm buildings, barnyards

### Stables Sucking Calves.

One of our subscribers, T. J. Viveash, being interested in the account of how Geo. T. Nichol reared his calves (having one cow suckle three), which appeared in the issue of March 30th, sent an inquiry to us asking if Mr. Nichol did not have trouble in getting his cows to breed while suckling He had been told that so long as a cow calves. was suckling calves she would not come in The query was forwarded to Mr. Nichol. heat. who answers as follows :

In answer to T. J. Viveash's inquiry whether we have any trouble getting cows in cali which are suckling calves, we find, after ten or twelve years' experience, that it is best to keep the calves stabled till the cows are served, which will usually be before the first of July, as some cows will not come in season when the calves run We also think it is better for the

In in ov 20 pounds 30 pounds 150 pounds pounds pounds per' 120 480applied potash, of soda, osphate, Fertilizer of Unfertiliz Nitrate ( Acid pho Muriate Nitrate A Plot 10141 Plot

The turnips were valued at 12 cents per bushel.

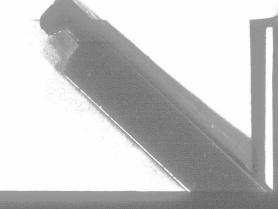
From the above results, we find that the in crease in yield of Plot 3 over Plot 1 was 194 bushels, and the increase of Plot 2 over the unfertilized plot 271 bushels. The increase of Plot 2 over Plot 3 was 77 bushels, due to the application of 150 pounds muriate of potash. THOS. WIGMORE P. E. Island.

cesspools, vaults, etc. By means of arrows indicate the slope of land. On the basis of such information, all possible assistance will be given you.-[Ralph Hoagland, Division of Chemistry and Soils, Minnesota Experiment Station.

#### COMMENT BY FRANK T. SHUTT, DOMINION AGRICULTURAL CHEMIST.

On the whole, the statements in this article are correct. There is ample proof as to the great menace to health of an impure water supply, and, though much publicity has been given in recent years to the danger in using for drinking and domestic purposes water contaminated with excretal matter, it is only too true there is still great apathy throughout the country towards this important question. We have too many shallow wells on the farm homesteads, and these, for the most part, situated dangerously near a source of pollution. Seepage and soakage find their way sooner or later into such wells, and the supply is polluted. It is seldom, indeed, that these wells can be made to yield pure water, and the better plan undoubtedly is to abandon them. One safeguard that is of considerable value is, at the outset, to line the well, say, to a depth of 10 feet, with several inches of good concrete. This insures, if surface-washing is kept out, a certain filtration of the water entering the well-a filtration that ought to have a purifying effect. But if there is no pure source available, as a spring or large lake, no doubt the best well is the driven or bored well, thoroughly protected against the entrance of surface and ground water.

It is impossible to say what may be a safe distance for a well from a barnyard, privy or other source of pollution. Drainage matter in some soils travels great distances, and there are many other factors to be considered before an opinion could be expressed as to the probable purity of the water in a well doubtfully placed.



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#### THE FARMER'S ADVOCATE.

Indeed, the environment of each well must be carefully studied; general statements on this subject are apt to be wide of the truth.

If the well is dangerously near a source of pollution, or there is the slightest doubt about the water, the only satisfactory and conclusive way to ascertain the true condition of affairs is to have an analysis made of the water. Sanitary (chemical) analysis of waters from farm home steads are made in the laboratories of the Experimental l'arm, Ottawa, but it is required that the applicant first obtain a copy of the directions to be followed in the collection and shipment of the This work of water analysis has been sample. carried on since the establishment of the Experimental Farms, and undoubtedly has been productive of much good. Reference to the reports of the Chemical Division will show that a very large number of the waters so forwarded have been found polluted, and many of them exceedingly dangerous. These reports also point out how such waters may disseminate disease in the farmer's family, prove injurious to his stock, and render his dairy products unwholesome and unsafe.

With respect to a recent inquiry regarding the value of the hypochlorite of lime treatment of the water in the water in the well, we think there are practical difficulties which make it a very unsafe and unsatisfactory plan to adopt. If the water were drawn and placed in a vat or tank, which would act as a reservoir, it might be so treated effectively; but the cheapest, the easiest and the most effective safeguard is boiling. This simple method is far superior for the farmer and village householder to any treatment with chemicals. We have advocated it for twenty-five years, and today it stands unequalled as a simple treatment for the destruction of typhoid and allied germs; it must have prevented much disease, and, no doubt, saved many lives. However, my last word is, abandon the polluted well, obtain the very best water that can be procured, and be prepared to spend a good deal of money, if necessary, in the work ; be morally certain that the water is unpolluted, and then protect the source. ing is more insidious in its action than impure water; few things on the farm are so valuable, as important to the health of the farmer, his family and his stock, as an abundance of pure water. It is something worth paying for.

### Surface Treatment for Dust-laying and Road Preservation.

By W. A. McLean, Provincial Engineer of Highways for Ontario.

Dust prevention has long had a recognized place in urban communities of Ontario, the watering-cart in dry summer weather being the remedy commonly applied with moderate success. At best, however, there are intervals when temperature and breeze are too nimble for the water supply, and the man on the watering-cart is deluged with complaints proportionate to the dust that descends on the pedestrians and adjacent lawns. When an adequate service is available, and the driver uses intelligent discretion as to the amount of water applied, the sprinkling wagon is an agreeable means of subduing dust-but very rarely is the right combination of service and intelligence applied to the work, with the result that, as a means of subduing dust, water-sprinkling has not been effective.

The oiling of roads in California, Pennsylvania

terial for the stone composing the road; and when this is removed, the road "unravels," roughens and deteriorates. Present motor traffic in some cases is now demanding dust-laying treatment; and future traffic will, in the writer's opinion. require it upon a considerable mileage of heavily-travelled roads in the Province, as a matter of preserving them from destruction.

Dust-laying treatment may be little more than a palliative by which the dust is prevented from rising, and remains as a cushion coat over the Or treatment may go further, and may stone. provide for a stronger and tougher road surface that will resist wear by bonding and protecting the stone. As palliative treatments may be considered the use of the old sprinkling wagon, of calcium chloride, oil emulsions, and petroleum oils with paraffin base. With the protective treatments may be included the use of asphalt and asphaltic oils, now being so largely tosted in the United States, and the several tar treatments adopted as standard practice in England and Scotland.

Calcium chloride in solution is merely an improved method of water sprinkling. A salt with an affinity for moisture, the principal effect of calcium chloride is to retain the moisture of the atmosphere, thus lessening the necessity of so frequent watering. The effect, however, is temporary, and its use is limited.

#### OILING ROADS.

To oil roads successfully, requires a thorough understanding of the oil used, its constituents. and method of preparation. A petroleum oil is generally employed, but some of these, such as the



surface to avoid splashing. One-half of the road only should be oiled at a time, to prevent incon-Immediately, or venience to users of the road. within a few hours after applying, the surface should be sprinkled lightly with clean, coarse sand or stone chips. Before applying, the road should be swept clean and sprinkled to slightly moisten the surface, but the weather should be dry. If rain approaches, be sure to get the oil covered and partly absorbed by the screenings, otherwise the oil will be splashed out to the roadsides. One-quarter of a gallon of oil to the square yard in each of two applications will last one season, and in some cases more.

Oil emulsions in which alkali or acid chemicals are used to "cut" the oil are more easily applied, but their effect is temporary.

The cost of two applications of asphaltic oil in two applications each of one-quarter gallon per square yard, is given by the chairman of the Massachusetts State Highway Commission, as follows :

	Cents.
Cleaning and sweeping Patching old surface Oil Heating oil Delivering oil Furnishing sand at road Spreading sand Watering	$\begin{array}{c} 0.56 \\ .16 \\ 3.19 \\ .31 \\ .38 \\ .29 \\ 1.65 \\ .73 \\ .12 \\ .29 \end{array}$
Rolling	
	7 00

Total per square yard ..... 7.66

### ASPHALTIC BINDERS.

In American practice, one of the most recent lepartures is the use of heavy asphaltic oil as a road-binder, applied by the penetration process. That is, over the main road foundation is spread a surface coat of 11 or 2-inch stone, about two or three inches in thickness. After being once rolled, the heated asphalt oil, containing about 80 per cent. asphalt, is poured into the interstices Over this is spread a light coat of stone screenings, and the steam roller completes of the stone. consolidation. A paint course of asphaltic oil is then applied, and this is followed by a final dust coat of stone chips well rolled in. By the same coat of stone chips well rolled in. method, lake asphalt, fluxed with oil in the usual manner, is employed in the road.

Lake asphalt fluxed with oil may be heated and mixed with stone, but the mixing process is found too expensive for country roads. The penetration method itself is only suitable for roads of heavy traffic, in which the cost of repair would otherwise be large, because of constant motor or heavy team traffic.

The cost of bituminous pavements in New York State last year was approximately 20 cents per square yard for each inch in depth of the per square yard for each mich in deputies of the penetrated matrix. The stone was usually pene-penetrated matrix. The stone was usually penetrated to a depth of two or three inches. class of treatment was used principally on State road metalled to a width of 18 feet.

#### TARRED ROADS.

The tarring of roads for preservation and dust prevention has become the standard practice in England, and is applied in several ways, which may be classified as (1) tar painting or spraying, (2) tar grouting, or penetration; (3) tar ma-

cadam; (4) tar matrix. The tar in England is coal-gas tar, and is of

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#### INION

icle are great y, and, recent g and th exs still ds this shallow for the urce of ir way pply is wells better ne safethe out-10 feet, his in tain filtration But if ing or driven nst the

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a safe ivy or tter in nere are ore an robable placed. rumor and experiment for some years, but it was and other petroleum re not until 1909 that a serious test was made in Ontario, when a residuum of petroleum, with a paraffin base, was used on the streets of Toronto. Vox populi was at once heard in complaint and objection. "The odor of the oil was offensive, and the oiled mud ruinous to paint, cloth-ing and carpets." But the disagreeable odor But the disagreeable odor passed away in a few days. A small quantity of oiled mud or dust was found no more injurious to clothing and carpets than was a large amount of dry dust. The dust nuisance was remedied to an extent unknown before on macadam and earth roads. Citizens no longer inhaled clouds of dust. Continued experience in 1910 in Toronto, and in other parts of Ontario, has confirmed the use of oil as a success, a measure of comfort and sanitation, in which the benefits outweigh the objec-

A new factor, the motor vehicle, has of recent tionable features. years entered the domain of traffic, and has placed new demands upon the public highway. Ten years ago, traffic on the roads of England had only five per cent. of motor vehicles, while last year 70 per cent. was motor traffic. number of motor vehicles in Ontario is increasing rapidly, farmers are now among the users, and it is evident that the use of the public highways by this new mode of travel and transportation has tremendous possibilities. Already the motor traffic on some of the roads of the Province has brought the dust problem into association with country roads, with attendant discomfort to users of the road, and injury to crops, fruit, lawns and

The scattering of dust by rapid and frequent houses. motor traffic is a serious injury to the road itself, in that the dust is a necessary bonding ma-

#### A Roadman.

California oils, have an asphaltic base, while those of Ontario and Pennsylvania have a paraffin base. Asphalt is a binder, while paraffin is not, and in an asphaltic oil will destroy the binding properties of the latter. While heavy asphaltic oil, free from paraffin, may be used within the body of the road, or sprinkled over the surface, paraffin oils can be used only by the latter method.

Paraffin oil, such as that used in Toronto, may be sprinkled from an ordinary watering-cart, and on country roads during the past season, crude, homemade distributers, attached to common water-wagons, were made from perforated gas pipe with success. The oil should be applied to the road in warm, dry weather. applications early in the season, followed by two or three later, according to the weather, have been found sufficient to keep down the dust, using for the season, on a country road, about 3,500 gallons. About 1,500 gallons per mile should make the first two applications. according to local conditions, but has been about 4 cents a gallon, and one cent for applying.

Asphaltic oils may contain a varying percentage of asphalt, up to about 80 per cent. Great care is needed in putting it on the road, to avoid splashing and inconvenience to traffic. Oils with a high percentage of asphalt have to be heated to apply to the road. Special sprinklers are desirable, with the distributers close to the road

a more uniform quality than that produced in this Tar varies greatly, according to the coal used and process of gas manufacture in which the tar is obtained. This lack of uniformity has, in part, been responsible for much of the inferior tar-macadam roads in Ontario, and for the feeling among engineers that its use is too uncertain a

In general, the tar should be refined by heatquantity. ing, to drive off volatile oils, and other ingredients are added. After refining tar for spraying may have added to it a quantity of linseed oil, to cause it to flow more smoothly. The tar painting or spraying method is a surface treatment, and may be by hand or by machine, the tar being spread over the surface of a macadam road in a thin layer, and a light coating of stone chips or fine gravel rolled in.

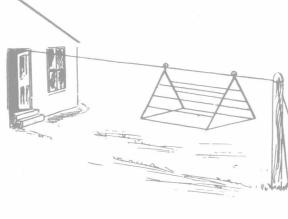
The tar-grouting process is similar to the penetration method of the United States. The tar is heated, fluxed with oil, and is then poured into the interstices of a surface coat of broken When the tarring is finished, the surface is sprinkled with a coat of stone screenings or clean gravel, and is thoroughly rolled; then is completed with a paint course, topped with screenings, and rolled. The cost of a grouted surface of tarred stone in English work is about 12 cents a square yard.

In tar-macadam, the stone and tar are handmixed, both stone and tar being heated. mixture used for this purpose usually contains tar, pitch, and creosote oil. The proportions are about 50 pounds of pitch, 12 gallons of tar, 2 gallons of creosote oil, and one ton of broken stone. The pitch is broken into fragments and

#### Handy Clothes Rack.

Editor "The Farmer's Advocate":

At our home we have a clothes rack which has 120 feet of line, is  $5 \ge 7$  feet, with extension arms. It closes up to be run through into the kitchen, where the washing is all put on, without the women having to go out in the cold when warm after washing. When the clothes are dry,



Clothes Rack. Used by D. F. Armstrong.

the rack is run into the kitchen, the clothes removed, and the rack set aside until wanted again, In setting it up, a line is run through the kitchen and attached to the casing above the door, and extends out into the yard about one hundred feet to a post. This post is about 10 feet above the ground. To bring the line on a level with the top of back kitchen door, a groove is cut in top of door casing to allow the line to clear the door. It is held in position with a wire hook. A No. 9 wire is used, with two pulleys attached to clothes ruck, as shown in cut.

Leeds Co., Ont. D. F. ARMSTRONG.

#### Convenient Water Supply.

A-Well, over which stands an 8-foot windmill, set on a 50-foot steel tower.

B-Tank-house, 12 x 12, 24 feet high. A 60barrel tank, set on platform 18 feet from ground, holds a week's supply of water.

C-Water-box for one yard.

D-Pipe into sheep barn.

E-Partly-covered water-box, with float-valve set to furnish water to two fields.

F--Pipe to pig house. G-Water-box outside horse stable for horses and cattle.

H-Pipe into dwelling, with a tap in cellar, continued to kitchen sink, and carried upward to bathroom, where the elevated large outside tank supplies water by gravitation to the water closet's flush tank.

I-Hydrant in lawn.

K-Water-box, partly covered, having floatvalve attachment, with one end in field and the other open to lane, into which stock from any field on that farm may be given access, so as to

FOUNDED 1866

#### Co-operation in Building Silos.

Five farmers in the neighborhood of Litchfield, Minnesota, co-operated, and purchased building material in large quantities. They united, and aided each other in erecting a stave silo on each of their farms. The following is the cost of material and labor in building one of these, on the farm of Gilbert Jorgenson, who furnished these figures :

The silo is 36 feet in height, and 16 feet in diameter.

116 pieces, 2x6, 30 ft., Washington price	\$111.36
26 pieces, 1x12, 12 feet	10.42
Ripping boards corner to corner for roof	.50
10 3-16-inch hoops, 54 feet	25.00
4 pieces 2x4, 18-ft. rafters	1.34
Other lumber	7.00
Cement for foundation	
Labor in cement	
Carpentry, 101 days, at \$2.25	23.25
Common labor, excavation and raising	7.11
Faint	6.80
Labor for painting (3 coats))	5.00
llardware	1.00

.... \$228.78 Total ... ... ....

This is the actual cost of the silo complete. The real cash outlay did not exceed \$200, as Mr. Jorgenson and boys did most of the carpentry, painting and common labor themselves. Staging was either returned or used on the farm, so no account is made of same, except labor. To have the above silo built by contract to-day would cost about \$275.

From careful study and observation, the writer is of the opinion that a cement-block silo of the same size, with wall six-tenths of an inch thick. complete, can be built for about the same money -possibly cheaper, if the sand is near at hand. Experience has shown that silage is as well preserved in a cement silo as in a brick or wooden The hoops of an ordinary stave silo must silo. be watched and tightened like a dry barrel. It should be kept painted and repaired. We may A cement expect twenty years of service from it. brick silo, once properly erected, reinforced with wire, and plastered to make it air-tight, should stand the lapse of time indefinitely.

Following are some estimates on a hollowblock silo, 16.5 feet in diameter, and 28 feet in height, of cement wall. The blocks had a front facing of 9x36 inches. The lower twelve tiers of blocks are 10 inches in breadth, the next fourteen are 8 inches, and the last twelve are 6-inch blocks. The blocks were homemade, formed in wooden frames lined with sheet-iron. Seven hundred blocks were used. Sand to cement, 1:5; 43 barrels of cement required. To build the silo 6 feet higher, or 34 feet high, to compare with the Jorgenson stave silo in size, would require 150 blocks more, using nine barrels of cement additional. The blocks are laid in rich cement, 1:2 reinforced by No. 8 wire or a double course of barbed wire between the tiers. Possibly 10 barrels more of cement can be used in foundation, floor and plastering, making in round numbers a total of 60 barrels of cement. Last year, cement could be purchased in carload lots at \$1.50 per barrel, or \$90 for the 60 barrels. A mold can be purchased for about \$15. The cost of the roof is the same as in a wooden silo.

A contractor, Melvin Weeks, of Richmond,

ing been heated until quite dry, the tar and stone are mixed and turned over several times, and the mixture is then spread on the road. The material is usually put on in three layers : the bottom layer 3 inches thick, of 21-inch material; the second layer 2 inches thick, of 11-inch material; and the top layer 1 inch thick, of 3-inch material. The last course is dusted over with coarse, clean sand, and is rolled until consolidated. The cost s usually about \$1.00 a square yard, but this is tound too expensive for country roads. The tar-matrix process is one in which a fine grade of gravel or broken stone is mixed with refined tar, and is spread to a depth of  $1\frac{1}{2}$  or 2 inches over an old roadbed or well-rolled stone

put in the tank, the tar is then poured in, and

when these reach boiling point the creosote oil is

added. Constant stirring is necessary, until a

uniform consistency is reached. The stone hav-

foundation. On this is spread a 3-inch layer of 21-inch stone, and this is rolled until the tar matrix is brought to the surface, thoroughly sealing it. This is usually followed by a "paint" course and a dusting of screenings to seal the surface completely. Or, instead of being placed below, the tarred matrix is spread over the new stone, and is rolled down into it. And a third method, the "Gladwell" system, is a combination of the two, an intermediate layer of broken stone being sealed from above and below with the tarred matrix.

#### SPECIAL MATERIALS.

The demand for a road material that will be dustless and durable has caused a large number of patented materials to be placed on the market. Roseate claims are made for many, and, while some are clever and promising compounds, the important test—the time test—is one which has yet to be satisfied by all, for experience is neces-sarily very limited. Glutrin is prepared from a waste of wood-pulp manufacture, a dark-brown liquid, which is diluted with water and sprinkled from an oldinary watering-cart. Tarvia is a preparation or blend of tars designed to meet the need of a standard and uniform grade of refined It has been used on Beverley Street, Totar. ronto in several ways, with a view to testing its Westrumite is said to be an emulsified value. asphalt or asphaltic oil. Rocmac is a liquid which, mixed with powdered limestone, produces, on exposure to the atmosphere, silicate of lime. Several test selections have been laid in the Province, and its action in the road is of an interest-Good results are reported from Enging kind. land and Scotland, but, with many other materials, its permanence has yet to be determined.

In general, the situation at the present time has shown the value of petroleum oil with paraffin base for easy application as a dust palliative. Petroleum oil without paraffin, and with an asphaltic base, can be applied to make a more permanent dust preventive, and, containing a large amount of asphalt, may be used as a protective coat or as a grout. Some grades of lake asphalt, applied by the penetration or grouting process, have a high value in making, at a reasonable cost, strong bituminous roads for heavy country traffic, free from dust, and reducing the cost of maintenance. The use of tar is a promising field in Canada, as in England, and affords an opportunity of being less dependent upon patented ma-

terials, and the larger asphalt and

The quality of stone used in the road has a marked influence upon durability, no matter what binder may be employed. Western Ontario has only limestone, while some parts of Eastern Ontario are better favored with granite and the more durable rocks. Field stone, where used, should be selected to remove inferior and decayed limestone and sandstone. For roads of heavy traffic, much would be accomplished by securing for the wearing surface a three or four-inch coat of trap or good granite, but, at the present time, the cost of securing these would appear to be beyond reach.

#### Silo Experience Wanted.

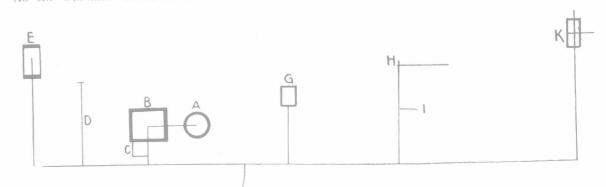
Editor "The Farmer's Advocate":

I would like a little advice from you or some of your readers about a silo. I think we should build one 16 x 40 feet, but would rather have one not so high, as we may in the near future like to fill with our own help and a carrier box, with gasoline engine or electric power. About six neighbors would have an outfit, and change help. If we had a silo 16 feet across, and were feeding, say, thirty head of stock thirty pounds each per day, would we take enough off daily to keep it in good shape, and how long would thirty feet of D. W. CLARK. it last?

Oxford Co., Ont.

Note.-Our observation would lead us to say that 16 feet would be too wide a silo for the size of berd named. What is the experience of readers en i ose points ? Editor.]

get water at will. Mich. who has experience in concrete work, est As the windmill works automatically, turning mates that he can, with the aid of two men, make



Plan of John Campbell's Water System.

inches, and shutting off when tank is filled up, we have had for many years past a constant sup-ply, at little cost and no labor. It is the cheapest outlay, considering results, and the greatest labor-saver we have on our farm. Oiling once a week is the only attention required.

JOHN CAMPBELL Victoria Co., Ont.

#### Pushed to the First Place.

I think a great deal of " The Farmer's Advo I have watched its growth from using and know that intelligence and push have been ent a to the standard it is at the present time. Is best all round farm journal on the American c T. H. FINCH

to the wind when water in tank goes down a few 100 10x32x8 blocks in 10 hours. Figuring labor at \$8 per day, it would cost \$68 to mold blocks. Two men can lay five to eight tiers per day, making the labor cost, about 8 days, at \$5 per day, \$40. To lay a cement floor, and to put on 3-inch cement plastering, \$25. Chute to throw down silage, \$15. Silo doors, \$5. Reinforcing, 300 pounds No. 8 wire or barb wire, \$12. The cost of silo now stands :

('ement \$	
Molding blocks	68.00
Laying blocks, floor, and plastering	65.00
Chute and silo doors	20.00
300 pounds No. 8 wire	12.00
Roof (same as wooden silo) about	20.00

Tot	al					\$2	75.00
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APRIL 27, 1911

items may be reduced. Such a silo will hold 140 or 150 tons of silage. Original cost of storage, less than \$2 per ton. By getting together, buying in carload lots material for silos, of whatever material desired; co-operating in building and filling, and in the purchase of machinery, there can be a saving of dollars and cents which may be needed for the home or other improvements.-[Chas. Nelson.

#### How I Would Manage a 50-acre Farm.

Prof. Dean stated, in an address before the Farmers' Milk Congress, of Pennsylvania, that the great problem confronting the dairy-farm manager to-day was how to increase the profits per cow and per acre. I am going to solve that problem by adopting the soiling system, and doing away almost entirely with the pasturing sys-The pasturing system of farming is, to my mind, the most extravagant system of farming ever invented. Let us see how it works. The stock are turned out in the spring. The pastures are good, and for a time they do well, but they trample and spoil as much as they eat. In a few weeks' time the pastures dry up, the flies become troublesome, the stock lose in weight, the milk flow decreases, and the profits are low. All this may be avoided by adopting the soiling system in summer, keeping the cattle inside in a darkened. well-ventilated barn, cutting and carrying the feed to them.

Thus we will be enabled to make one acre take the place of three or four under the old system; we can save building and maintaining nearly all interior fencing; we can save 40 to 50 per cent. of the crops by preventing the stock trampling and otherwise spoiling them ; we shall get increased flesh and an increased milk flow, owing to the greater comfort of the stock; and last, but not least, we can increase the fertilizer produced on the farm by 300 or 400 per cent.

The baildings must be modern, convenient, well lighted and well ventilated. Good ventilation is absolutely essential, as I intend keeping the stock inside winter and summer, and the best of ventilation will be necessary under those conditions.

As regards stock, I would stock the farm with 24 milch cows, 6 two-year-olds, about the same number of one-year-olds and calves, a pure-bred herd bull. two brood sows, and three horses, one of these being a driver and general-purpose horse. This stock, consisting of, say, 36 head of fullgrown animals, will be kept the year round from the product of 35 acres. The rest of the farm, the product of 35 acres. The rest of the farm, 15 acres, or thereabouts, will be devoted to orchard, garden and grain crops.

This will necessitate the employment of labor. I shall engage the services of an experienced teamster and a boy of about sixteen or more, besides, unfortunately, having to work myself. should aim to have a separate house built for the teamster, and engage a married man, as this is the only method to obtain steady, reliable farm help, and to keep it.

In laying out the work necessary to provide ieed for the 24 cows and other stock, I will start with the autumn. In the fall, I will plow up nine acres and sow to rye and wheat, to provide early spring crops. Only about half of this will be required for feed; the rest will be plowed under. In the spring, as soon as the land is fit, four acres of the rye and wheat will be plowed under, and one acre sowed with barley, 21 bushels to the acre. At intervals of a week, the other three acres will be sown with oats and peas, 3 bushels to the acre, half and half. rye will come in first, and be followed by the wheat, and the barley and oats and peas are for feeding in July. For August feeding, three sowings of one acre each, with corn and sorghum, will be made during May, at intervals of little over a week apart. Then, as the oats and peas over a week apart. Then, as the oats and peas are consumed, the land they occupied will be seeded to barley and millet for the latter half of September and October. As the corn is cut, the land it occupied will be sown with wheat and rye for spring feeding. Thus the summer's fodder is provided for from, at the most, 10 acres for 36 full-grown animals. You will have noticed that I have not so much as mentioned alfalfa, and for this reason : altogether uncertain that there will be a patch of alfalfa of any size on the farm when I go onto it. But, if conditions are favorable, I will seed down 13 acres to alfalfa. Then this crop will take the place of many of the soiling crops mentioned, as it is undoubtedly the best soiling crop grown in Ontario. The 13 acres should provide 35 to 40 tons of the best hay, besides supplying green food in summer. Then, four acres will be devoted to growing root crops, and eight acres to corn for the silo.

### THE FARMER'S ADVOCATE.

If no orchard was on the farm, I would plant out five acres with apple trees, 30 or 40 feet These trees will be well looked after, apart pruned and sprayed as often as necessary to keep them in thrift. This orchard, not being bearing, I will devote to sheep, stocking it with 24 One acre ewes, and fattening their lambs there. and a half I will sow with rape, and the rest I will seed down to grass, although I am well aware that this will be heresy to our horticultural friends. The rape will be fenced off, but a lambcreep will be provided to let the lambs in; the young trees will have to be protected with wire netting. A rough shed will be built, in which the sheep will be fed winter and summer in racks. In summer they will get the same soiling crops as the cattle. A separate compartment will be made for the lambs, in which they will always find a supply of crushed oats, bran and oil cake. The poultry will also be located in the or-

chard. From five to seven acres will be devoted to oats, but it will be necessary to buy annually several hundred dollars' worth of concentrated This will build up the fertility of the feeds. soil, and be a good investment.

The milk will be obtained and cared for in as cleanly a way as possible. It will be separated on the farm, and the cream sent to the creamery. If the water on the farm is above 45° F. in temperature in summer, it will be necessary to put up about 30 tons of ice every year. milk will be weighed, and a composite sample Thus, an acmade up and tested every month. curate record will be made of each cow's performance. The heifers from the best cows only will be kept, and an endeavor made to build up a herd to average 400 pounds butter per year.

One thing I consider absolutely essential on this farm. That is, a tank for holding the liquid manure. I will have one constructed of brick or cement, and allow the drainage from the buildings and the manure pile to flow into it. The liquid will be pumped over the manure pile occasionally, and sprinkled over the alfalfa during By thus providing showery weather in spring. for the storage of this liquid fertilizer, I shall save at least 50 per cent. of the value of the manure produced on the farm-a proportion that goes annually to waste all over Ontario.

In conclusion, I will enumerate three points I consider essential : First, the housing of the cattle in summer, with good ventilation, and feeding them tied in their stalls; second, the sowing each week, during May, June and July, enough ground to last for one week ; and third, the care of the manure produced on the farm.

[Note.-The foregoing article, on managing a 50-acre farm, is the text of an address given by S. H. Hopkins, in a public-speaking contest, at the Ontario Agricultural College. It was awarded first prize. Though not necessarily endorsing his views, we gladly give space for them. What would be the outlook for the future of our coun-try if our young men did not "see visions"? A thousand times better so than that there should be a blind, unreasoning following of old methods. If the calculations contained in the article are warranted by facts, then fifty acres may be made to yield an income easily equal to what the aver-We think, however, that age 100 acres returns. many of the statements may be criticised, and we invite readers who have had experience in soiling to examine the article carefully, and give our readers the benefit of their opinions. The claim that 36 full-grown animals could be fed for the summer from the produce of ten acres, seems How about the health of the rather extreme. animals? Would vitality not be lowered by constant confinement ?-Editor.]

form a center, and with a pencil or scratch awl describe part of a circle to give curves for both blocks, say 7 inches for thickness of first block. Now, shorten the string seven inches, and draw another line, which will represent the inside of outer block. Then, if two-inch space be wanted, shorten the string two inches and draw a line for the longest radius of the inside block, and then another line for the inside radius of the inner From these lines, block out the patterns block. to suit the rotary machine, and screw them in place.

The block to represent the space is left a little thinner at the upper side (which will be the lower side when the blocks are turned out), which makes it easier pulled than if it were of equal thickness throughout. The bend to represent the hollows on the upper edge of the block is cut to the proper curve, having two branches at one quarter of the distance from each end, the branches pointing to the block representing the air space. branches are to place the tie wires in. The hollow in block is to place cement, with a wire imbedded every three or four tiers to keep silo from splitting.

A bead of 1; inches is placed in the mould for ends of blocks, thus leaving an inch and a quarter hole where ends of two blocks are placed together. This is to be filled with cement.

I am opposed to such an amount of plaster being put between the courses as we see in bricklaying, for the strength of the joint is only the strength of the mortar between, and what we want in a silo is strength and air-tightness. This is got by neatly-fitting blocks resting upon each other, or with only watery cement blown between, and any handy man can lay such a wall as well as a mason. WM. WELSH.

Bruce Co., Ont.

## Curing and Keeping Pork.

If your staff know of any method of keeping bacon and hams (after they are pickle-cured) through the summer, I wish you would publish it. We have tried packing them in different mixtures, and sowing them up in good cotton bags before any flies came, but when we cut into the bone, crawlers of some description will always be found W. M. LEA. at work.

Our correspondent may be mistaken in thinking that he had packed his pork away before flies came. They come very early some seasons, and, setting a good example to all, get to work without delay.

Having the hams and bacon sewed up in cotton bags is by no means a sufficient protection. The mother fly easily pierces the cotton and deposits her eggs on the meat. Those in the trade exercise much more care than that. the pieces in a thick paper, made on purpose (several thicknesses of ordinary newspaper should be equally good), and then put them into cotton bags and hang up, afterwards brushing all over the bags a mixture of glue, water and yellow ochre

While on this subject, the following method of treating pork, which, though not exactly new, perhaps, is certainly excellent, and may be of interest. This recipe was kindly sent in by a lady on request of one member of our staff who had got some meals at her home nearly four years ago. He never forgot the excellence of the fried pork which was served up at breakfast and din-ner, and contends to this day that it was superior to any pork he ever tasted, either fresh or cured. Some of his friends insinuate that it was because he was extra hungry that the flavor seemed so superior, but this he stoutly denies. " I take the side meat and shoulders, and rub them well with salt and brown sugar, about onequarter pound sugar to one pound salt. I then pack the meat in a barrel or on a board, and let it stay three or four days. Then I take it out, scrape off all the salt that is left on the outside, take off the rind, and slice and fry just like you would for the table, only do not cook it as much as you would if you were going to eat it. have large stone crocks or lard pails, and as soon as it is fried I pack it in these, and pour the fat that fries out of the meat over it. When I get a pail or crock full, I place a plate on top to When it gets keep the meat down in the fat. cold, run lard over the top of the pail, thick cnough to keep the air from the meat (about one I keep mine upstairs. It should be kept where it is dry, or it will mildew. When I begin to use a pail, I bring it down to the pantry, where it will keep while you are using it through the hottest weather. I remove the lard from the top, take out what I want for dinner, put it in the frying pan, cook it a little more, and it is If you want to stop using pork ready for use. for a week or so, just run some lard or fryings over the top, and it will be all right.

est make

> The farm team in summer will go out in the morning, and cut sufficient feed with the mower to last two days. This will be brought home and spread on the barn floor. The cattle will be ied five times a day, and being each iseding the mangers will be cleaned out thoroughly. A cow will hunger in the midst of plenty, sooner than eat food that she has breathed on for a time.

## Double Wall for Silo.

Editor "The Farmer's Advocate ":

Many questions are asked through your valuable magazine regarding best silos, and the best kind of walls to keep out winter's cold or summer's heat. I give you a description of what I consider the best wall for silos.

By all means, have an air space, as that is one of the best non-conductors. block may sound well enough, but does not make a hollow wall, as the walls are joined by a solid block of cement as great as the space left, and it is, therefore, not a hollow wall.

Two walls can be built just as easily, having space of two or more inches between, and being tied together by galvanized wire. With a rotary cement-block machine, the outer and the inner blocks can be made at the same time, so that the two blocks are as quickly made as one hollow More than this, with a properly constructed rotary machine, a very fine face may be block. put on the outer block, by sifting fine sand and cement moistened, thus rendering the block pracically waterproof, which is a very great desideraum for silo, barn foundation or house.

My process of making the blocks is : First, find the curve required. This may be easily done by taking a string one-half the length of the diameter of intended silo, fastening one end to

" In preparing the meat, if three or four frying pans are put on at once, you can fry a lot in a day. We think it a good way to keep meat. "MRS. ISAAC BAKER."

Middlesex Co., Ont.

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#### Government Should Start the Work.

Editor "The Farmer's Advocate":

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I have read with much interest the letter of Richard Hampson, re drainage, in your issue of April 13th, and wish to express my entire accord with the views he expresses. I cannot see any chance of much being accomplished unless it is first taken in hand by the Department of Agriculture, and given a start. There are two main reasons for this. One is pointed out very clearly by Mr. Hampson : it is absolutely impossible for us to get the work done without a ditching machine, and private enterprise will not take hold until there is assurance of plenty of work ahead. The other reason is that our farmers, as a whole, do not realize the enormous advantage of a thorough system of underdrainage. It is impossible that they should realize it, because, outside of a few who have farmed in the Old Countries, not one in a hundred has ever seen a thoroughlydrained farm. Everyone appreciates the necessity for and the advantages of draining what we call wet land and low spots, but only those who have seen it can understand what underdraining would do for a great deal of land that is con-sidered fairly dry. This is largely the reason why the Government should take it in hand first. Let them start with half a dozen machines, distributed over the Province, and commence, not on the wettest farms they can find, but on some considered fairly dry, whose owners are willing to have a complete job done. If possible, select farms where some record has been kept of previous yields, and that are conveniently located, so that they could be used for a kind of demonstration There would then be some definite results farms. to talk about, and I venture to say that it would be only a very short time until there will be such a demand for these machines that the Government would be able to step out and leave it entirely to The cost would, in the end, private enterprise. be only trifling, as the work should be paid for at same rate as if done by a privately-owned machine. The only loss would be in having at first to cover a good deal of territory to get work. In view of the enormous benefits to be derived from drainage, I do not think the cost should be considered. This would, however, be considerably reduced if the Dominion Government would put ditching machines on the free list. What do other readers think of the scheme

ALFRED HUTCHINSON

Wellington Co., Ont.

#### Egg Eating.

POULTRY.

1. Kindly tell me what causes hens to eat their eggs and how to stop them?

They are fed oats and buckwheat morning and evening, in the proportions of one part buckwheat to four parts of oats, and a mash of ground oats and vegetable scraps at noon, and have skim milk and water to drink, and plenty of exercise.

2. I also have a number of geese, which 'get out every day, and are fed oats and buckwheat in the same proportion as the hens, and are eating their eggs in the same way. I would like to know how to prevent them. L. W.



Cheap Fresh-air Poultry House in British Columbia.

begun to thaw, from which oozes liquid which is peculiarly palatable to fowls, particularly if they have not been getting any meat food. Many flocks are not supplied with lime in winter, and a craving for that exists, which causes the shell to be eaten greedily. A start once made, the rest (even to the watching for eggs to be laid), follows naturally. No measures short of killing the egg-eating birds may avail to stop the trouble. However, other means are worth trying. Feed lime in some form, and meat, also. Feed the flock away from where the nests are. Darken the nests. See article by W. E. Williams in April 6th issue, in which sulphur is recommended as a curative for feather-eating. It might be well to try it for egg-eating also.

2. In regard to egg-eating by geese, we would suggest that you exercise your ingenuity, making use of hints given above, and if you succeed in getting habit overcome, let us know how you did it. If any readers have experience in this matter, we would esteem it a favor if they would, through us, give our readers in general the benefit of it.

## Trap-nests, or Poultry Pedigree.

t Editor "The Farmer's Advocate":

Heredity, we are told in one dictionary, is "that tendency which there is in each animal or

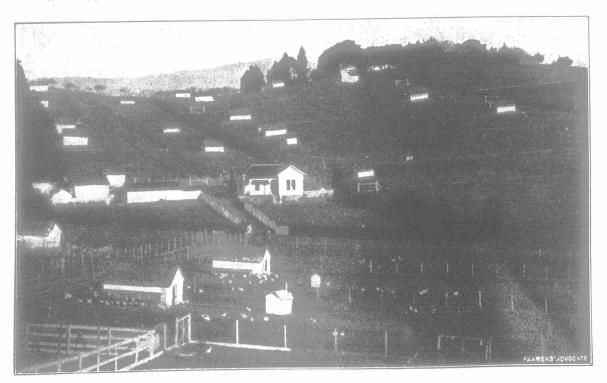
begun to thaw, from which oozes liquid which is peculiarly palatable to fowls, particularly if they have not been getting any meat food. Many flocks are not supplied with lime in winter, and a craving for that exists, which causes the shell to be eaten greedily. A start once made, the rest (over to the watching for eggs to be laid),

> The laws of inheritance are being sought after more and more every day. Even though slowly, they, like those of electricity, are coming into man's hand to increase the world's productiveness. To carry the similarity still further, the blood streams of heredity are awaiting the breeder as the multitudinous waterfalls do the electrical engineer. Burbank's name thrills the mind of the student of plant life with the same enthusiasm as comes to that of the student of electricity when Edison's is mentioned. However, to those of us who are neither Burbanks nor Edisons, some little spot worthy of investigation may be found within our reach, and, to do our part bravely, we must "at it," even if the sower's hands do not always partake of the harvest.

To the earnest poultryman, this "prepotency in transmitting their likeness" is a particularly rich field for investigation. No mere poultrykeeper can with certainty say this or that hen is a good layer, and it is just for that reason that he never really becomes anything else than a poultry-keeper. The up-to-date poultryman, howis able to identify the egg as well as the hen which laid it, and would no more think of depending on the hit-or-miss system of breeding than the down-to-date dairyman would think of adding to his herd without the assistance of the Babcock test. The dairy and poultry industries are peculiarly related, in that it is the daily output of our living factory that goes to pay the dividend after the yearly summing up, and only everlasting attention to details makes the success. Even an annual classing with the sheep-breeders is sufficient to make a fairly even clip. The buyers do not fail to recognize the fact that the intelligent owner has been weeding out the poor ones, and not only gives him the preference, but also a better price than his less painstaking neighbor. The same may be said of the other branches of the great farming industry. We propose, in this article, to say something about the trap-nest and its uses to the poultryinan. How long trap-nests have been used, it is, of course, impossible to state definitely. Suffice it to say that fifteen years ago trap-nesting must have been in its infancy. At that time there was considerable said and written about trap-nests, and some twenty-odd patents have been taken out for contrivances of various sorts, the chief aim of each being the identification of the hen that laid the egg. The really good trap-nests can be counted on the fingers of one hand. Although the trap-nest has been in use for these eighteen years or more, it is surprising to find how few there are amongst poultry-keepers who understand the working of a trap-nest, let alone the use of it. Some months ago, in conversation with the secretary of a poultry association which even has an annual show, we happened to mention trap-nests. He admitted he had never seen one. Upon further inquiry, we found there

Ans.-1. Egg-eating, when practiced for a considerable time, becomes a vice—a habit which is hard to break up. It may be begun by a hen discovering an egg that has been frozen and has

plant to resemble its parents in all essential characters." By another authority it is more concisely stated as "the transmission of parental characteristics to the offspring "—the term offspring not being by any means, limited to the first generation. The latter we much prefer, for, as



A Well-kept Poultry Plant and Attractive Surroundings.

was not even one active member of the association to whom a trap-nest was anything but new. This, we take it, is our excuse for this article.

A trap-nest must be so constructed as to automatically close a door which confines the bird until she is released by the poultryman. To the leg of each bird is attached a numbered band, and as she is released her number is taken and recorded upon a properly propared sheet. Each sheet will represent a month's work in that pen. Having the sheets ruled both vertically and horizontally gives a space for the date, as well as the number of the hen.

A trap-nest must be compact and inexpensive ; an orange box makes an excellent nest. It must be reliable, so that one hen, and one hen alone, can be present at a time. This does away with crowding and quarrelling, thus lessening the danger of breaking the egg in the nest. A broken egg means the first lesson in the bad habit of en egg eating. The trap-nest detects the egg-eater at once. The nest must be convenient and simple. With a good trap-nest, even a child can release the hen, record the number, and reset the nest, in five seconds. Another requisite of a good nest is that it must be inviting to the hen that wants to lay, and unattractive to the hen that is simply We find a two-roomed nest, with a darkened laying compartment, to be the best. curious. The door is made of inch-mesh netting, so as to provide light in the waiting-room for lady hen, where, if the attendant is not too long in coming, she patiently awaits her release.

Darwin states, as his first law of inheritance, that, "There is a tendency in every character new and old, to be transmitted by seminal and bud germination, though often counteracted by various known and unknown laws." It is generally believed by observing breeders that the longer any character has been transmitted by a breed, the more fully it will continue to be transmitted. This is, of course, taking it for granted that all things are equal in each succeeding generation. In the poultry world, one who thinks can see how impossible it is, without trap-nests, to get any reliable data from which a definite statement can be made that this or that hen is, or is not, a phenomenal layer. This "character," to be made use of, must be definitely recorded. Her offspring must be observed for this "character." poultryman does not need to wait with fear and trembling to find whether his mating "nicked." He knows that, according to Galton's law, as a rule, the two parents have contributed to their offspring's "character" one-half between them, or one-fourth each; the grandparents one-fourth between them, or one-sixteenth each; the eight great-grandparents one-eighth between them, or one sixty-fourth each, the remainder being contributed by remote ancestors ; so that, no matter which form of inheritance is most predominant, the continuous, resembling father and mother, the interrupted, resembling grandparents, or the collateral, resembling uncles and aunts, he has in that offspring's pedigree the assurance of results. Of course, we do not wish it understood that the breeder can expect that every pullet mothered by a 200-egger will also be a 200-egger. Getting a good egg yield is not only a problem of breeding, Birds that have been but also one of feeding. bred for prolific egg production, when properly fed, will undoubtedly produce more eggs than birds which have not come from a heavy laying strain, although in each case the food and care may have been the same. are many details influencing the problem, and that it is only by indefatigable care and attention e poultryman's results may be satisfactory to himself. A change in the climate, in the feeding ration, in the care, may be so profound as to cause a set of characters, as heavy egg production, to diminish or disappear, and the offspring may prove indifferent layers. Length of inheritance and care in fixing character does not counterbalance poor care or feeding. secured from a breeder requires the same care and attention that he gives to secure the like results. We remember a setting of eggs we sold to a farm-er a few seasons ago. He placed them under a hen so lousy she died attempting maternity. A second hen did not prove such an easy victim of The poor chicks were assaulted on their birth by such an army of vermin that half succumbed. After a few months' struggle with disease, vermin, and all the ills of a filthy surrounding a chick is heir to, the results of that setting of eggs was indeed a sorry sight. Pedigreed stock on that man's farm was surely

carded as a cull, and fit only for the market basket.

With the trap-nest, the attendant keeps in touch with her condition, and is able to tell when, from improper feeding or housing, or from any other of the hundred phases of her surroundings, when the bird under observation is not in her prime and proper laying condition. The remedy is to suit the evil. She may be too fat to lay a fertile egg, or her infertility may be an individual characteristic that the pedigree tray of the in-Some years ago we observed cubator reveals. such a one of really exhibition quality. Thirty As an experisuccessive eggs proved infertile. ment, she was placed in a pen as the single member of the harem of a rather vigorous cockerelher former supposed alliance had been with a Fifteen eggs were tested in the incock bird. cubator, with the same result as before. In our yards, such a period of infertility had condemned her long before the experiment was finished. It was as interesting as disappointing, and we came to the conclusion that she never had laid a fertile egg-an individual characteristic.

Uniformity of product is another object to be obtained by the poultryman from his trap-nest. A breeder catering to the wants of his market is the man who can and does command the fancy The quicker the hen that habitually lays prices. a white egg, when the long price is paid for a brown one, is found out and culled, the quicker the poultryman obtains his high price. The same is to be said of small or mis-shaped eggs, and these occasionally are laid by hens apparently the most healthy and vigorous. These birds, of course, are culls. It is surprising how long the size and color of a certain hen's egg will remain a characteristic. An observing attendant can, in quite a number of instances, tell to which hen a certain egg belongs. However, were a man to depend entirely on shape and color, he would eliminate accuracy as a factor in his work, and, of course, this accuracy is the essential.

The matter of identifying the individual egg from the individual hen is really of the utmost importance, not only, as we have said before, in establishing a record of that hen's performance, but also in the pedigree work of the breeding sea-Each egg is dated and numbered with the hen's number, and the offspring toe-marked from the pedigree tray of the incubator, so that at any time in that chick's existence the poultryman can in a moment give its ancestry by looking up his No point or combination of points in the "Standard of Perfection" is equal to this in importance or satisfaction to the utility breeder.

We are told by those who ought to know that the average yearly egg yield throughout the coun-They include in try is about 120 eggs per hen. these statistics the scrub hen of various color, so common, we are sorry to say, in the yards of farms which surely deserve better occupants. The age, breed, or even the number, is frequently unknown, so that we think there can be but little accuracy when number of eggs is the item to be Assuming that 125 eggs is the average, look what a tremendous addition even an increase of one egg per hen would mean. are also told that we have 25,000,000 hens in Canada; 25,000,000 eggs, at 18 cents per dozen,

would mean some money. We hear someone say, "Who can afford all this time and trouble, such as is necessary to look after a battery of trap-nests ?" No one has ever ble to keep a daily record of his individual fowls and their eggs, or, in fact, do anything worth doing, without devoting more time to it than would be necessary if such work were not done; that is self-evident. However, how often do we find it that the man who complains most loudly of lack of time for anything is the man whose record of daily work is least systematically arranged. To the poultryman with such an excuse as lack of time, we say, look over your work carefully, and we doubt not but that you will find many leaks by which even far more time is wasted than would be necessary to do things not only systematically, but in such a way as will be of lasting satisfaction. Such a system in the poultry yard eliminates the haphazard, and graces a man's work with that scientific accuracy which alone can be of lasting benefit to himself or his J. A. BUTLER, M. D. fellow man. Durham Co., Ont. [Note-While believing in the use of the trap nest system by breeders, we would point out that breeding for production is an even more complicated matter than herein explained, as the apparently successful, but really quite largely unsuccessful efforts of the late Prof. Gowell, of Maine, went to indicate. It is hard to advance beyond a moderate point of success. Nature rebels. It seems to us that the foundation of success must lie in special attention to constitution and stamina.-Editor.]

## THE DAIRY.

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#### Replenishing the Dairy Herd. Editor "The Farmer's Advocate":

Cursory observation suffices to demonstrate the fact that but few dairy farmers are replenishing their herds with young stock of their own hreeding and rearing. To follow the bidding at any public sale of dairy cattle impresses one with the fact that the buyers apparently need and must have these cows, while the sale and bidding develops into a melee, with prices soaring beyond the actual value of the animals.

This is surely evidence that the buyers are not providing sufficient young things annually to fill the places made vacant by the removal of the older animals. In every herd there are always some members to be moved out each year, and the point I would make is that these should be replaced by young animals of higher merit that have been reared on the farm.

Aside from the fact that this is the only way improvement will be effected in the quality of our dairy stock, and is the only hope we need entertain of obtaining cows better than those owned heretofore, this system is economical and highly profitable. Exorbitant prices are being paid, with no knowledge of what the animals are really worth. Milk records, which are the only true indication of individual worth, have not been kept, the buyers taking merely the work of the herd in general. Still, buyers are paying ninety dollars and upwards for cows that merely look well, not knowing whether they have ever milked well or not. While we are not sure of every heifer reared from the herd making good on coming into milk, still, knowing their dams, we may for a semblance to them in the daughters; and if the heifer has been sired by a better sire than her dam, it should at least make as good a cow, if not better, according to the laws of breed-

In this work of improvement and replenishment ing. of our herds by breeding, the fundamental prin-ciples are : First, the selection of our best dams; and, secondly, a superior sire from one of the dairy breeds.

In choosing the breed from which to draft our sires, we should select the one that best fulfils the demands our conditions call for; and, this decided, we should continue assiduously in the use of pure-bred sires of this particular breed. Following this line-breeding, we are at each cross more fully establishing those breed characteristics and qualifications that commended the breed to our liking. If we are using in each successive sire one of superior breeding to his predecessor, each year's heifers will be of higher merit than those of the year before, and there will be more of the breed in our herd. While it would not be possible to ever attain to animals of pure breeding, we could, in only four crosses, have a progeny with only one-sixteenth of other than pure blood, and such cows as are bound to excel in milk production, besides being an adjunct to the farm that would be a credit to its owner, and a source of profit and satisfaction to him.

What appeals to the fancy of any lover of live

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A point in favor of the trap-nest which, to our out of its place. mind, cannot be too strongly brought out, is the acquaintance, or even actual friendship, that is developed between the individual members of the flock and the attendant. His constant, gentle handling makes her tame and without fear. This characteristic tends greatly to increase her usefulness. A tame hen, like a quiet cow, well rewards the atten-Her utmost capacity seems to be tion given her. Her utmost capacity is drawn out. We have been trap-nesting for six drawn out. years, and have not seen a single instance where a wild, highly nervous hen has anywhere approached the 200 mark. If, after her first month in the trap-nest, a pullet does not quiet down, unless she gives promise as a show bird, she is dis-

The other day we turned a flock of our fowls into an acre field of currant bushes which had been heavily mulched with barnyard manure. a few days the fowls reduced manure to the fineness of dirt, and this field will be in the best possible condition to produce a bumper crop of fruit. -[Reliable Poultry Journal.

stock more strongly than uniformity of size, form, The motley throngs of dairy color, and worth? cattle to be seen in our pastures so often, testify very clearly of their probable breeding, and in many instances the productive capacities of these individuals are as widely different as their color markings.

Another fundamental principle in this work of progressive breeding is the selection of our dams from which to increase our herd. In this work we are enabled, by a system of weighing and testing the milk regularly, to ascertain definitely the comparative values of each animal as a milk and butter-fat producer.

While many owners conclude that they know their cows well enough not to necessitate this extra work, I am convinced that there is nothing so misleading as such judgment, arrived at without the aid of system. With our best cows selected in this way for our first cross with a superior sire, we should continue in the same way, always selecting from our best as the standard keeps rising higher and higher.

In this way most excellent families of grade cows may be developed, as our breeders of purebred stock develop their families or strains of With proper rearing of the calves, pure-breds. better results are bound to be had than when the practice is pursued of buying just when needed, where most convenient, and at an exorbitant price, in the heat and excitement of a public sale.

Against the argument that it costs too much to rear calves profitably, it may be said, that cows (really good ones, of proven worth) were never in such demand as at the present time, which surely means that such cows are hereafter going to cost still more than at present.

With milk at about 80 cents per cwt., and with straight young cows showing some breeding realizing, at three and four years old, ninety dollars and upwards, sufficient of this milk could have been used at a greater profit in giving a bunch of nice heifer calves a start for the first year. Indeed, some of our most live dairy farmers are considering whether an actual business could not be followed profitably, of rearing for market choice young dairy cows.

If we would have better cows in the most profitable way, our wisest course is to breed and rear them along the lines I have outlined, viz., selecting a breed from which to obtain the purebred sire as each its needed, mating such sire to our best cows, and then properly rear the young calves thus obtained into cows to displace the older ones. C. HAMILTON.

Dundas Co., Ont.

### The Trend of Our Dairy Trade.

Editor "The Farmer's Advocate":

In view of the reciprocity agreement now pending between Canada and the United States, to which the eyes of the commercial world have been turned during the past two months, it might be well to look at one little item of trade between Canada and the United States which has developed during the past eighteen months or so, to show which way our trade winds blow just as soon as we find it profitable to do business with our neighbors to the south.

Our dairy business has been held up for the admiration of all Canada for the past decade or two, and it is generally supposed that Great Britain takes practically all our surplus dairy products. This has undoubtedly been true up to within the past two or three years, but a change seems to be taking place, as our trade figures unnistakably show.

Great Britain is our principal buyer of cheese, and a few years ago took practically all our surplus butter, but our butter exports have been declining since 1905, and last year's exports to Britain were down to a few thousand boxes. A decrease in exports from over 500,000 boxes to less than 40,000 boxes, in five years, looks, on the surface, as if our butter industry was declining very rapidly. The facts, however, are quite the reverse, and it is interesting to find out where the butter is going to if it does not cross the Atlantic. A few years ago our Northwest was sending large quantities to the seaboard, but now Eastern butter is going out there to supply our newcomers, and the demand must increase in that direction. We have, however, another factor to reckon with, even if this trade agreement does not pass, in the shape of a stream of cream, which started flowing across into the Eastern States in August, 1909. Before the Payne-Aldrich tariff came into force, the duty on cream was 20 cents per gallon, and the duty on butter was 5 cents per pound. Under the Payne-Aldrich tariff bill, cream was lowered to 5 cents per gallon, and cheese were raised to 6 cents per butter and As soon as this bill became law, some pound. enterprising Americans down in Vermont began looking across the St. Lawrence for cream, and one creamery proprietor in Quebec made the venture by shipping over 1,650 gallons in August, 1909. It paid better than making it into butter at home, and the next month the shipments were 12,160 gallons. Other factories soon began to take a hand in this enterprise, and the shipments increased rapidly month by month, until, in October, 1910, 327,064 gallons were shipped across in that month, valued at \$309,919; and up to January 1st, 1911, the total value of the cream exported in eighteen months was \$1,902,042. Notwithstanding the duty of 6 cents per pound on butter and cheese, Canada shipped, for eight months, ending Nov. 30th, 1910, butter \$85,610, cheese \$9,407, and other dairy products, making a total of \$1,611,645. This all goes to show the trend of trade where the barriers are not so high as to be absolutely prohibitive, and what would it be if the flood gates were pulled out altogether ? Wisconsin and Minnesota might send some butter to our Northwest cities, but the natural market for Ontario and Quebec would be the large consuming centers of the Eastern States. Why should our perish-able products be compelled to travel thousands of miles to find a market, when we have a market at our dcors which is ready to take ever-increasing quantities ? Canadians want the market which is going to pay the most for what we have We want the British market for some things, but we want other markets as well; and if those who are shouting, "Let well enough alone" would only be consistent, they must admit that a growing country like Canada simply can't "let well enough alone," if she is to keep up her splendid record, and keep pace with other J. STONEHOUSE. nations.

THE FARMER'S ADVOCATE.

## GARDEN & ORCHARD.

#### Flea-beetles.

From address by L. Cæsar, at the Ontario Vegetablegrowers' Convention.

These are tiny little beetles, usually not more than one-tenth of an inch long. Most of them are black, but some are a dusky green, and others are marked with yellow, red and other colors. They get their name from their habit of leaping away like fleas when disturbed. Probably the most troublesome of all is the striped turnip fleabeetle (Pbyllotreta vittata). This insect is black, with a wavy band of pale yellow running down each wing-cover. It attacks almost all kinds of plants belonging to the order Cruciferæ, such as turnips, radishes, cabbage and cauliflower, and I have seen it this year very abundant on some

The Turnip Flea-beetle and larva-greatly enlarged.

The potato flea-beetle kinds of wild mustard. (Epitrix cucumeris) is another troublesome fleabeetle. It attacks potatoes, tomatoes, and some-The insect is very small and times cucumbers. black, and eats tiny holes in the leaves, sometimes affecting them so severely that they die. Blight gets a chance to enter through the injured There are several other kinds besides those parts. mentioned that attack various kinds of vegetables. Most of the damage from flea-beetles is done early in the spring, just after the plants have been set out, or the seedlings have appeared above ground. In such cases it required very prompt measures to prevent the destruction of the whole crop if the beetles are numerous.

#### REMEDIES.

(1) Late Planting.—From what has been said above, one might hope that the beetles would soon slacken off, lay their eggs, and either disappear or not attack so voraciously plants that were sown late in the spring. This is usually the case, and in most seasons turnips can be sown with comparative safety after June 20th, as can also many other plants.

(2) Poisoned Bordeaux Mixture.-In many cases the beetles can either be destroyed or driven away by spraying the plants as soon as they appear with Bordeaux mixture, to every barrel of which three or four pounds of arsenate of lead has been This will have to be repeated about added. every third day until the plants get once well can be discontinued. On account tarted, when it of the smooth surface of cabbage and some other plants, it is well to add a sticker to the Bor-This is made as follows : Boil together deaux. 2 pounds resin and 1 pound sal. soda in 1 gallon of water in an iron pot in the open until a clear brown liquid is formed. This will usually take from one to one and a half hours. Add the above amount to every forty-gallon barrel of the poisoned Bordeaux. Many other remedies have been advocated for the destruction of flea-beetles, but poisoned Bordeaux has given the most satisfactory results.

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and are certainly very difficult to combat success fully. The chief damage is done in spring to the young plants just after they appear and when they are least able to withstand an attack. A t. this season the adult beetles, which winter in the ground or under any good protection, are very hungry, and during one or two weeks feed very voraciously. At the end of that time mating begins, and they become less destructive and more particular about what they eat, often refusing to touch plants with foreign substances on them. The yellow eggs are laid in the soil near or around the roots, and if the earth is damp, the young larvæ feed on the roots, vines or fruit that may happen to be near them. The new adults that appear later in the season also feed ravenously upon the vines and the fruit.

#### MEANS OF CONTROL.

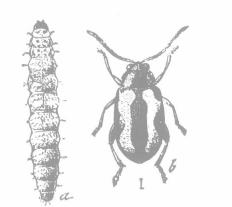
(1) Trap Crops and Spraying.-It has been found that the beetles prefer squashes to other kinds of cucurbits, hence, before sowing the cucumbers or the regular crop, a considerable number of squashes should be sown around the outside of the plantation to attract the beetles. As soon as they appear, they should be heavily sprayed every few days with arsenate of lead, 3 or 4 pounds to 40 gallons of water. When the cucumhers or regular crop comes up, spray it with Bordeaux mixture and arsenate of lead of the above strength, repeating the spray several times until after the vines have begun to run. The Bordeaux is added chiefly as a repellant, since the beetles, after the first week or so, usually refuse to eat plants covered with it. Bordeaux also helps to keep off the mildew and gives vigor to the plants. Later in the year, squashes should be planted and left to attract the greedy new adults. These can then also be sprayed with the arsenate of lead, and many of the beetles will be destroyed.

(2) Burning Refuse in Autumn.—Advantage should be taken of the habit of the beetles late in the fall to congregate in great numbers on old cucurbit fruits and vines, especially where these are gathered into heaps. I have seen the beetles in thousands in such places on frosty mornings. If, then, the refuse be gathered into heaps after the picking season, on some frosty morning, and a covering of straw is thrown over them and set on fire, countless numbers of the beetles would be destroyed, and the number left for the next season thus greatly lessened.

(3) Coverings.-A very satisfactory method of protecting young plants in the spring, on a small scale, is to cover them. For this purpose, cut a barrel hoop in two, so as to form two semicircles. Then place one of these over the other, and at right angles to it, and insert the ends of both in the ground. Two bent wires will, of course, do instead of hoops. The frame thus made should be covered over with gauze or some such material and a little earth thrown up around the edge so that no beetles can get under. must be put on the plants before the beetles get any chance to attack them, and can be left on until the plants are too large for such limited This affords a complete protection, but space. is hardly practicable on a very extensive scale.

#### Humus and Potatoes.

From Reprint in Ontario Vegetable-growers' Report.

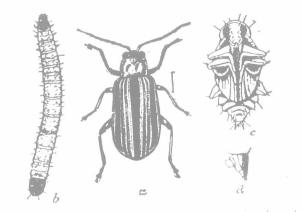


Ontario Co., Ont.

#### Striped Cucumber Beetles

#### (Diabrotica Vittata).,

Every grower of cucumbers, squashes, pumpkins or melons is familiar with the small beetles, about one-fourth of an inch long, with alternate yellow and black longitudinal stripes on their wing covers. They are often very destructive,



Striped Cucumber Beetle-grub and pupa-meet entered

The control of moisture in land to be planted in potatoes is of great importance, and cannot be secured by drainage alone, as it is largely a matter of the humus content of the soil. One hundred pounds of clean, dry sand will take twenty-two pounds of water to saturate it; 100 pounds of our ordinary clay loam soil, perfectly dry, will take 56 pounds of water before it will become saturated, while 100 pounds of perfectly dry leaf mold soil will take 196 pounds of water to saturate it, or nearly nine times as much as it takes to saturate an equal number of pounds of sand, and three and a half as much more as it takes to saturate our ordinary clay loam soil. With a soil deficient in humus, no amount of cultivation or commercial fertilizer in a dry season can make it produce a paying crop of potatoes, while a soil filled with humus can be made, by cultivation, to produce a paying crop even in a season of practically no rain. A clay loam soil filled with humus can be worked much more quickly after a heavy rain than the same soil which is deficient in it, and the capacity of the humus-filled soil to hold moisture is so much greater that, with intelligent shallow cultivation, a good crop is practically assured.

The control of moisture is not the only advantage of having a soil filled with humus. The rock-formed soils of the eastern portion of our country are filled with mineral plant food. It is claimed by leading scientific men that the top eight inches of heaviest foams contain potash enough to raise maximum crops from 200 to 400 years, and phosphoric acid from 150 to 300 years, but they are locked up in an insoluble form—a wise provision, indeed, to prevent man leaving the face of nature a barren waste. Fill a soil with humus, which is decaying organic matter, and the acids formed in this process help to break down and set free some of this locked-



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THE FARMER'S ADVOCATE.

up plant food. The second eight inches contain as much, or even more, mineral plant food than the first. The productiveness of our soils depends more largely upon their humus content than upon any other one thing, and one of the first objects of the potato-grower should be to fill his soil with this decaying vegetable matter.

# THE FARM BULLETIN.

#### P. E. Island.

A late spring here; the 13th of April, and navigation not open yet; snow is all gone, but bays and rivers are still solid, and fit to travel on. This date last year the land was pretty well dried up. It looks now as if the new clover had wintered well, as there has not been much thawing and freezing to throw it out; but it is not past all danger yet. Fodder is plentiful, and all kinds of stock are in splendid condition.

The dairy companies are getting fitted up for business; makers are all engaged, and contracts for milk-drawing are let. Pasteurizing of whey will be more general this year, as it has given patrons the best of satisfaction when properly done previously. We look for a prosperous season at the dairy stations, on account of feed being plenty and the milking stock beginning business in such fine condition. Cream shipments to Boston from here are likely to increase this season, but most of the milk will, as heretofore, be made into cheese.

The Government here propose to spend \$6,000 in importing pure-bred Ayrshire cattle, to be sold at auction to the farmers. This is supposed to be for the encouragement of the dairy business. Some farmers think that it would be better to invest in Holsteins, as there are herds of this breed here now that are giving grand results in the dairy, and many of them on record as great We have some splendid foundation producers. tock in Holsteins here in the herds of Walter M. Lea, Fred Clark, Gavin Harding, Melbourne Laird, and others. Holsteins are becoming very popular here, being heavy producers, large in size, and having good teats. The Ayrshires are not so popular, nor will be, till their breeders get them back to the old utility type, and give us less It is to be hoped that, style and larger teats. if our Government make an importation of Ayrshires, they select the useful type that will be popular with the dairymen.

We notice that farmers are paying much more attention to cleaning their seed this spring. Separators for that purpose are being used more extensively. Farmers are learning that good plump, sound seed will pay a big profit over the ordinary kind. More farmers are using formalin to treat seed for smut, as those who have used it report excellent results.

Markets are not quite so good here as last Pork is worth 7%c. dead weight, about 3c less than this time last year. Beef is about the same. Easter cattle sold for \$6.50, live weight, but good butcher's stock would not bring now more than \$5.75. Oats are worth 38c.; eggs are 15c.; horses are up to the top notch, and are being bought up for export; heavy ones, from Potatoes are worth about 50c., but the crop last year was so small that there are to \$250. The appointment of J. H. Grisdale as Director very few to export. of Experimental Farms gives good satisfaction here. He will make algood successor to carry on the work so well inaugurated and ably carried out by Dr. Saunders. The new Director being a practical agriculturist, along with his scientific training with dd to be provident to be a training, will add to his qualifications. He is personally well known to many of our foremost stockmen and farmers, and, on behalf of them, we tender hin: our congratulations on his appointment.

## The Sayings and Doings of "Donald Ban. \*\*

#### By Peter McArthur.

Donald Ban stopped on the doorstep to shake the water from his felt hat and his overcoat, and to stamp the mud from his boots. The door opened at once.

"Come in out of the rain, you foolish man. Come in and get on dry clothes, and drink a hot cup of tea. What possessed you to go to the post office on a day like this?

The old man sighed contentedly as his wife hurried him into the bedroom and made him change his clothes, while she scolded him as he deserved. Finally, when he was sitting before the kitchen stove sipping the hot tea, he undertook to face the storm.

"Why did I go to the post office in the rain?" he asked rhetorically. "I went because I am a slave to the newspaper habit. I must have my paper every day now, just as much as a smoker must have his pipe. It's awful, Janet. I know it is the ruination of me, but I can't help it. have tried to break myself of it, but it's no

He sipped his tea with enjoyment.

"Every day I have to get my little pinch of editorial and nip of foreign news and dose of politics, or my nerves will be all on edge. l could get over it, but I am afraid I am too old now. 1 must have my paper every day, and when I get too old to go for it, I am afraid you will have to get the rural delivery for me, John. Grandpa !" came a little voice at his side.

Donald Ban put down his cup and saucer and picked up his tow-headed grandson.

"Well, well ! If I didn't forget all about your candy

The little face suddenly grew very long.

"I mean I forgot to give it to you, not that I forgot to buy it," and he went into the bed-room to get the little bag of hard-tack. "There you are !

Thank you, grandpa."

"That's the way I like to hear a boy talk. Ah ha! I thought you would find that your granny has a sweet tooth." The little boy passed the candies around, and John laid aside the agricultural report he was studying to munch a bull's-eye and join in the conversation.

" Is there any sign of it clearing up "Clearing up? With that east wind blowing? We are in for a spell of wet weather of the kind I remember hearing about when a boy. We were having a very wet spring, and one of the elders asked the minister to pray for dry weather. I will not,' snapped the minister, 'until the yind stops blowing from the east. There's no wind stops blowing from the east. use praying for fair weather until the wind

The rain lashed against the roof and windows, changes. and, in spite of everything, something of the cheerlessness that prevailed outdoors found its

way into the house. I suppose this rain will do a lot of good," grumbled John, "but I wish it hadn't come un-til at least part of the seeding was over."

"Oh, well, there's no use grumbling. I suppose a storm like this has its good side to it, if it were not too wet for one to go out to hunt for it," said his father. "I found two new leaks in the roof of the stable to-day, and when I was ing along the road, I noticed that the tile drain in the back field is stopped up. of the uses of a storm is to shew us some of the things that need putting in order as soon as the weather dries up. That reminds me that there is one thing that you had better get advice from some of the experts about. The council had the main roads gone over with a scraper or drag, as they call it, and, though it seemed to do a lot of good at first, the roads were worse than ever to-day. They had scraped the mud from the sides of the road to the center, and in that way they put a few inches of clay on top of the gravel. the split-log drag is certainly a great thing for mud roads, but I think the gravel should be handled in a different way.' "I'll not have much trouble getting you the expert instructions on that," said John, as he went to the book-case and pulled out a blue book. After turning over the pages, he finally read from the regulations of the Public Works Department, with respect to Highways Where roads have heretofore had gravel or broken stone placed on them, they should be reconstructed or repaired by cutting off shoulders with a grader, and adding a sufficient amount of gravel or broken stone to fill ruts, depressions, and properly crowned, to make a road sufficiently strong to accommodate the travel. The sod and solving to accommodate the traver. The solutand solving to accommodate the traver. The solutand drawn to the center. See that old gravel and old stone roadbeds are not injured by being covered with earth from the sides." "That's plain enough, isn't it ?" "Of course it's plain enough; almost as plain as the mud that is on the gravel roads to-Why don't the council pay attention when they have instructions like that given to them ?''

"Perhaps they are opposed to book roadmaking just the same as most of them are to book farming," said John, with a smile.

"Humph !" said Donald Ban, " if you get along well with your book-farming this year, I'll see some of the folks and have you put in the council next year, so that you can give scientific attention to the roads too.'

Before they had time to follow the argument further, and indulge in the dangerous pastime of having a dispute on a wet day, when people's tempers are always at their worst, there was an interruption.

"Grandpa," piped a little voice from the window, " where does the rain come from ?"

" From the clouds, laddie, and the clouds come from the lakes and the oceans, where the sun draws up the water.'

" Oh !" said the little boy.

" Is that a sample lecture ?" asked John, remembering what his father had said some time ago about having a college that would be conducted according to the questioning of the child.

Not exactly. That is the kind of answer I give in self-defence. When he asks me a question, if I do nothing more than answer it, he is always ready with another, and keeps it up till I have to confess that I do not know. When I answer more than he asks, I give him something else to think about, and then he leaves me alone for a while. When we were working in the garden the other day, he cornered me a dozen times. For one thing, he wanted to know why the water ran out of a puddle in the little ditch I made for

"And I suppose you explained the law of gravity to him?

"How could I explain to him what I don't understand myself, and, if the papers are to be believed, the college professors don't understand it very well themselves. I see that a big professor in the States is saying now that, instead of being drawn towards the earth when they fall, things are pushed towards it. But that is neither I couldn't explain it to him here nor there. I couldn't explain it to him either way. Then he got asking me questions about the sun, and I tried to tell him that the instead of the sun goearth goes around the sun, instead of the sun going around the earth, and I got myself so mixed up I didn't know what I was talking about. Though I have been hearing that all my life, I don't understand it, and I don't think many other people do either. We know that the earth is round, or people couldn't travel around it, but why it doesn't fall off into space is what beats

"Then the college hasn't been much of a sucme. cess, has it ?"

"Indeed it has. The questions the little boy asked me made me understand how little I know about anything. I may know a few things, like 'A change of pasture makes fat calves,' and things like that, but that is all. We need the questions of children to make us understand what a mystery life is, and how mysterious everything in the world is. Because we know enough to plant seed and reap the harvest, we sometimes get to thinking that we know a lot, when the truth is that we know nothing of the things that

are worth knowing. "Grandpa," came the little voice again, "what makes the cabbage in this box grow ?" He was examining a box in which cabbage plants were being started. "You had better ask your Uncle John. has been to college, and he ought to know." But John was too wise to undertake the task. Instead, he got the little fellow's mind off the subject by teaching him how to "ride a cock-horse to Banbury cross." Then he got out his iscklarife, and proceeded to put in the root of the jackknife, and proceeded to put in the rest of the afternoon making a kite for his nephew, while Donald Ban read the newspaper.

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## Nova Scotia Notes.

The Maritime Horse Show, which was held in the Winter Fair Building, Amherst, N. S., was a splendid success. The display of carriage and saddle horses was the outstanding feature of the show, though the Clydesdales and their grades were both numerous and of high quality. Several sales were made.

Prices of most kinds of farm products are high, especially good horses and dairy cows. Hay, which is one of the chief market crops here, is very low; practically no sale, and large quanti-ties will be summered over. Potatoes are very high, and are being imported from Prince Edward Island.

April has been fine and cool, and, as we had very little snow and a steady, cold winter, there is a lot of frost in the ground yet.

A dozen or so Institute meetings have been held in different parts of the country during the last two weeks, and have been fairly well at-tended.

Cumberland Co., N. S.

#### Canadian Beet Sugar.

The reports for the three beet-sugar factories in Canada for the year 1910 show that the total product of beets grown and manufactured into sugar was 67,373 tons. The area planted was 9,350 acres, but, owing to drouth in Alberta, this area was reduced by 1,700 acres, and the yield per acre was 8.80 tons. The price paid to growers was \$383,565, being an average of \$5.69 per ton. At the Raymond factory it was \$5; at Wallaceburg, \$5.70, and at Berlin, \$5.85, per ton. The sugar content at Berlin was 16.89 per cent.; at Wallaceburg, 15.6 per cent., and at Raymond, 15 per cent.; but the actual yield of granulated sugar at the mills was about 2 per cent. less. Berlin factory gave a sugar product of 5,198,175 pounds; Wallaceburg, 11,348,052 pounds, and Raymond, 1,202,000 pounds, which is a total of 17,748,227 pounds, or 8,874 tons. The value of the crop to farmers per acre was \$52.64 at Berlin, \$51.30 at Wallaceburg, and \$34.50 at Raymond.

## Making the Dark Side the Brightest.

#### By Jack Miner, Essex Co., Ont.

As I was educated for ditching and cutting cordwood, I will ask the readers of "The Farmer's Advocate" to please make due allowance, while I endeavor to give the farmers' boys a little encouragement (founded on experience only) in regard to the above-mentioned subject. About one year ago, some of the readers of "The Farmer's Advocate" will remember that an account was given of a wild duck migrating from my place, and a few weeks later being shot in Anderson, S. C., and that the aluminum band containing my address, taken from its leg, was again in my possession. The publication of this story caused a number of boys to write to me, and I promised to give them a wholesale answer in this journal.

Well, the first pet I can remember having was I was, of course, very anxious a young blue jay. that he should live, so I filled him to the top with fish-worms. The next morning the blue was there, but the jay was gone. The next I have any recollection of was when father took our pet opossum by the handle and wound it around the corner of the old stable, to settle a quarrel which arose between my brother and myself over its I remember we started one spring ownership. with a pair of white rabbits, and when fall came we had every box on the premises full. Even father's old wagon box was turned upside down, with a snarl of rabbits under it; and when he used the box, our troubles were many. As we knew how to set traps around the rabbits' pens, I am strongly of the opinion that some of the neighbors' cats haven't got home yet.

How well do I recollect seeing the wild geese and hearing their "Honk, honk," as we strained our young eyes to see them "way up there," and very often had to look twice before seeing them on their migrating trips as they passed in spring and fall over the good old State of Ohio. And oh ! how I used to stand with clenched hands and wish I were a man, so I could follow them somewhere and secure one.

In April, 1878, the family having moved, I was liberated in this dear old Province of Ontario (a sportsman's Paradise), there being twenty acres chopped down, but not logged up; a small new log-house, not chinked; father mother, and ten healthy children, five boys, and five that were not; as happy as rich people. In fact, we were rich, and didn't know it. Now, boys, the fun began. All kinds of game, and such a variety of pets as we had-squirrels, coons, foxes, crows and ravens. And I even got a nest of young henhawks, and kept them until father found it out. You know, in those days there was one day in the week that we did not work, and we made every minute count; and, although we had miles and miles of woods to rove through night and day, yet my ambition was a little higher. So I secured a pair of tree-climbers, and then there was no tree high enough for Mrs. Crow or Mrs. Hawk to raise their young so as to be out of my reach.

Well do I remember shooting my first deer, and how I burglarized the top shelf of the pantry to get one of mother's pewter spoons. The spoon had a great handle to its history, being handed from somewhere this side of Noah. down the ancient look, melted nounded it to remove and ran seven small balls, while my unsuspicious mother was looking at the operation of melting By daylight the snow had ceased and moulding. falling, and I put the seven balls in the thumbhand barrel of the old shotgun, and started on my first deer hunt, and by noon I was back with a fine deer, and if I had had a melted spoon in the other barrel, I surely would have killed two. Now, it is hard to break away from the memory of sweet boyhood days, and slip over twentyfive years of time. However, I must; but, before doing so, boys, let me call your attention to your present responsibility. It may be that you have two or three younger brothers. If so, remember that you have probably more influence over them than your father has. They will tell

you things that father never hears. These boys love you best of all. They think you can do even more than father; and so you can, with them, in certain ways. Such being the case, they are the best chums for you on earth. Then, why do you constantly want to be with others, and leave them behind to associate with some worthless lads who would only laugh at their disgrace or downfall? It may be they are going to the city on some excursion, and they are fifteen or eighteen years of age, and you are twenty-one. How can you stand it to see your innocent, rosycheeked brothers run their chances with that bad, worthless young man as their leader? You know him well; you have heard his conversation and garbage stories at the threshing bees, etc. there is a comparison still worse. He is a married man, with poor little children, and a broken-This hearted wife, all suffering from his ways. inhuman brute seems to delight in befouling the minds of young fellows.



With one of my pets in the back yard on a bright morning in March.

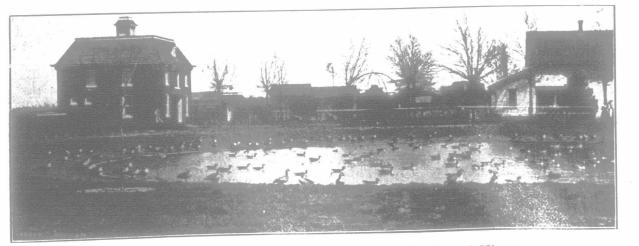
A word now to you younger boys. Why not go along with your big brother ? I know his ways will seem strange to you at times, and you will wonder often why he acted so; yet in time you will understand. We know now, since that boy got drowned, just why mother did not allow us to go to the lake and dive off the dock. Yes. it took time to explain her loving ways. Mv brother Ted was the dearest of all mankind to me, he loved me more than he did life, but his actions were strange to me sometimes, he being Later on in life, I had no four years older. sooner started keeping house that he even left his own parents and came and lived with me. Nine years rolled by, and the evening of October 7th, 1897, found us both standing with aching hearts over the form of my only little girl, watch-Boys, this ing her pass into everlasting glory. was hard on me. I had never stood face to face Father, mother, and ten chilwith death before. dren, the youngest now twenty years old, and not a break; and to see my four-year-old darling go from me seemed unbearable. Just then Ted came around on my side of the bed, put his strong arms around my neck, and his hand on my opposite shoulder, and there we stood, two men as strong as horses, yet helpless, and between his sobs he said, "Don't cry, Jack. Jack, there is no one depending upon me in this world, and if I could take her place I would willingly do so, and you could have your little girl. Well, boys, for about fifteen years I felt that I had no time to care for pets, as I had my hands full in making the dark side of life the brightest financially. But, for the past eight or ten years, I have again had some nice pets, and, in order to give you the advantages of my experience, I will offer a few suggestions-not for you to start where I left off, because that time

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hasn't come, but so that there will be no handicap from now on.

I have no four-footed pets now, but quite a variety of birds-golden, silver, and English pheasants, wood ducks, gray ducks, black ducks, pintails and mandarin ducks, and thirteen, wild geese (pets), and hundreds of pet wild geese that don't belong to me. Now, five years ago, just west of my house, was a piece of ground that was a sore-eye to the neighborhood. Wie had left quite a cavity where we had taken the clay out, and all kinds of noxious weeds grew there, and snakes were about the only living things that existed. When a person called to see me, I was always ashamed of this snake harbor, and when I would think of my new home (that I am still planning), I would always figure on having my rooms on the east side, so the morning sum would shine in, and I also planned the breakfast-room on the sunny side. These photographs, numbers 1 and 2, will show you which side I will have my breakfast-room on now. Wild water-fowl swimming and quacking; wild geese honking; pheasants crowing and strutting over the lawn. showing their plumage of so many gorgeous colors; and when I open the door in the morning they will all salute me in some voice or other, as much as to say "Good morning !"

I tell you, boys, it makes the dark side so bright that I would be perfectly willing to stay here longer than it will take my poor mother to find her great-grandmother's pewter spoon. Now, it may be that there is some basin or slough on your home farm. Father may have bought the land a little cheap on that account. If so, you have a pleasure-ground that will afford you a great variety of sport, and very little work. It will be the spot that will attract more attention than any other place in the neighborhood. During dry weather, scrape about one-quarter of an acre for a skating-rink, then lay a drain to some spring; plant a row of spruce trees about ten feet apart around it, far enough back to grow well; and put a fence around it to keep stock out. The fence can be fastened to the spruce trees in about ten years, then the cover will soon be O. K. for game. Feed the ducks in the spring, and don't allow any shooting near. Ducks will soon get tame, and will nest there, and one flock will bring another. Feed wild geese away back where they are most likely to alight. Keep the dog away from them. Never walk straight at them; never stand and look at them. After they have got tamed down, call to them when they fly by and around you, and they will soon know your voice. Then you can move their feed, and they will follow you. Never try to drive them, and when you feel that you want to shoot them, never, never, shoot into the whole flock, but catch a small bunch alone when the others are away. Pop the ones that are there, and never shoot at them when over thirty-five yards Always approach them with the wind away. They will rise against the wind, in your face. and give you their backs to shoot at. Never shoot at a goose's breast. Never shoot at them before sunrise or after sunset, as a wounded goose will sometimes fly a mile, and you can get him if you see him go down. Always shoot to kill, and not to scare. A dead wild goose tells no tales. Keep your head on top of your backbone, and be very careful with your gun, and obey the one man that has charge of you young shooters.



Miner's Pond, April, 1910. Showing Increased Number of Migrant.

There is nothing much nicer than about twentyfive good fat wild geese every season, distributed throughout the neighborhood.

Boys, the poorest management I know of on earth is carried on by some men who call themselves sportsmen, shooting every bird in existence, and then wondering why they are not more plentiful the next fall. Think of shooting at wild geese and ducks entirely out of range, and, as soon as they alight, sending a ball screaming down the field (no possible chance of hitting one) just to scare them away, apparently afraid they will get a kernel of corn, and then expect them to come back. Say, if you went to a strange hotel, and before you had time to enter, someone dashed a dipper of hot water in your face, would you turn around and go back in? Not if you had been scalded as many times as some of these geese have been shot. The most of them we get have different-sized shot in them.

I have stocked this township fairly well with English pheasants, breeding them in captivity, and then liberating the young. These birds are like domestic fowls. One cock is enough for ten or fifteen hens. Yet men will shoot the hens, when either a deaf or a blind man can tell them apart. Boys, here is a good guide to success. Go exactly contrary to the majority of sportsmen, then you are on the right track, and, by helping the other fellow, you will secure help yourself.

A word now on the feed for young birds. When I was a boy, I fed fish-worms, corn, etc. Now, that is the proper thing to kill them with. But the best feed for birdlings is custard, one cup of milk to one egg (no sugar). A bad boy went past my place two years ago with a .22 rifle. The next day I chanced to look at the robin's nest in the spruce tree near my house, and one of the young robins was dead, and the other two just alive. They were not over one week old. APRIL 27, 1911

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#### THE FARMER'S ADVOCATE.

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but their stepmother, Jack Miner, took them in, and in less than two weeks they were hopping after me and the custard pail. It was laughable to see them flying after me. They were the to see them hy mg when the they were the sweetest pets of all; they stayed until October, and then they disappeared. A few days after 1 found them, I also found the old birds dead, with a bullet-hole in each one. I have seen thirteen full-grown quail fly into Mrs. Miner's apron for a little custard. Try it, boys. Be sure and never overfeed. If you will darken the nest where the old hen is hatching-ducks, pheasants, goslings, quail, etc-untif young are perfectly dry, she will not likely peck them. In raising wild birds with a hen, always pen young in with her for three or four days; then they will not leave her. Kill all lice on her while she is sitting. To those who have been inquiring about quail, I may say that I have none of my own, but I am feeding about one hundred in my woods. And the laws will not allow me to even catch you one out of season (this is a good law). Next November I

will try to get a few. Now, just a word of explanation re the photo-Now, just a word of explanation re the photo-graphs. In April, 1908, eleven wild geese joined mine. After feeding and petting them for about three weeks, we shot five, succeeding in killing the two leaders. The next day the six came back, and soon got quite tame, and came to the pond near the house. I got volumes of advice as to how to kill them. On May 15th they left for the north, and in March, 1909, thirty-two came back, and on April 9th photograph No. 1 was secured. This photograph has the thirty-two wild and my thirteen tame ones, which is the whole flock. On April 10th we shot ten, and later on, two disappeared. twenty lined up, honked farewell, and went north on May 1st. March 4th, 1910, they started coming back again, and in less than two weeks there were about three hundred here. We shot thirty-six, and on April 15th about sixty left for the north; and on the following day, April 16th, photograph No. 2 was taken. So, if you will add about 100 to those shown in photograph No. 2, you will have about the number that the twenty brought back. Oh, by the way, boys, if you have a business that will give one-half the protection that good, sensible game protection will, and if you want a pardner, I am your huckleberry.

Now, I am going to wait and see if the editor If he does, I will tell you in the near future just how I am caring for the quail in my woods, and how you can have them in almost any part of Ontario, providing you will go to just a day or two's trouble. I said "trouble, but I mean pleasure.

Before I ring off, let me say one word to any boy that may feel that he is poor, and his chances are not equal to the other fellow's. I say, stop right where you are, and make that dark side of life the brightest. Remember, the best men this world ever knew were born barefooted. Let the world know you have a backbone right between your shoulders, and that you can look all men in the face. Don't forget this fact : roses will bloom and be just as fragrant for you as they will for our king, providing you will do your part. Remember, I am talking to live boys; advice is no good to dead ones. Success, you know, does not mean a big pile of dollars, piled up to deed ! If there is any boy that should have sym-pathy, it is the one who has too much money. Success means this : Is the world more cheerful, brighter and better through your existence? If not you are a disappointment to the Almighty. not, you are a disappointment to the Almighty.

of competent men to judge the seeds and give more satisfactory. addresses. There was a marked improvement in and in connection with it as pleasant as possible. all lines of seeds, especially in seed oats. The people were surprised to see so many entries and such handsome specimens in the potato section, as potatoes were scarce during the winter months.

Addresses were made by C. F. Alward, of King's County, New Brunswick, who took a course in Ontario Agricultural College, and S. A. Moore, of the Agricultural College, Truro, N They complimented the farmers present on their grand showing and success. Farmers' sons are taking a great interest in the annual fair and exhibitions, which will help to popularize the farm Mention must be made of Rod. with them. Chisholm, Lower South River, in winning three firsts and one second prize-very good for a first attempt. The silver cup, donated by James Broadfoot, West River, for the best exhibit of White Russian wheat and Banner oats, won in 1910 by Taylor Bros., Willowdale Farm, was this time taken by Ronald Chisholm, Briley Brook

J. H. McC

"The height of my ambition and sweet boyhood days fading, fading away."

### The Boy, the Father, and the Farm.

"Subscriber," who has lived all his life on the farm, and also, by observation, knows whereof he speaks, writes "The Farmer's Advocate" on the perennial topic, "Why do Boys Leave the Farm." He calls particular attention to cases of young men, probably of age and married, with young children coming on, and yet not even receiving a stated wage or knowing what may come to them upon the father's decease, confessedly an unsatis-factory state of affairs. He concludes his letter

Department of Agriculture in meeting the expense death; it's cheaper than finding out after, and Associate and work with the boys as much as you Do not put all the dog work on the boys, and never forget to impress it upon their minds what a snap they have, compared with what you had at their age. No wonder boys leave the farm. Allow them to do part of the time the work they enjoy. Whatever kind of stock they like best, if you can afford to have it, get it, and allow them to attend to it. Give them the best farm implements you can afford to work with; it will discourage any boy to be obliged to work with cobbled-up rigging, and the hired man have Encourage them by being youra good outfit. self tidy, but don't work night and day. them to value stock and produce, buy and sell. Give them the best practical education for their Do not neglect making your will or having it made while in health, and change as often and whenever you think advisable, but do not load lorgeing for your can to pay in ad business you can. do not load legacies for your son to pay, in addition to your debts, he will not have courage to Always supply the best farm literature you can afford. Read it youself, and discuss with the boys. And if they have any fancy at all for farm life, I do not think they will likely leave the farm.

## A Walk in Spring.

I took a walk along a country road one day in spring. Some men affect to despise this means of locomotion. I am sorry for them. But, with all due respect for their opinions, I would like, right here, to prevent any misunderstanding, to express the opinion that, with all man's inventive genius, he has never yet been able to devise a means of locomotion at once so enjoyable, so instructive, so practicable, safe and healthful as the means every normal man possesses, without any exercise of his inventive genius.

Not everyone can possess a horse and rig. A still smaller number can possess an automobile, and, besides the risks to life and property, the automobile rider cares not for the beauties of nature around him, but only for the rate at which he is leaving the miles behind him. Likewise, the bike-rider, hump-backed and red-faced, sees naught but the dusty road before him, and thinks of little but his rate of speed. The train must follow certain prescribed limits in its course, which is true, though in a lesser degree, of the methods of travel already mentioned, and the objection to speed and lack of time and opportunity for any meditative communion with nature applies also to it. Even flying aloft as a bird, though the exhilaration of speeding on the wings of the wind may be experienced, is not to be compared for safety and practicability and real enjoy-

inent with the ages-old plebian pedestrian method. So I walked. The sun was shining brightly from a clear, blue sky. A gentle zephyr fanned the cheek and made mournful music in the tops of the cheek and made mourning music in the tops of the pines. Here and there, on some northern ex-posure, a patch of snow, soiled almost beyond recognition, still lingered, but giving of itself steadily to form a little stream that trickled away to join some larger torrent, and so be home on and on to join the mighty ocean's limitborne on and on to join the mighty ocean's limit-less, rolling tides. The grass in the fields was springing up through their matting of decaying vegetation, and showing a pure and undefiled greenness, promise of rich pastures in June. A

little violet peeped out from a corner of the fence. The leaves on the trees were just budding out. All things were joyous and glad, in keeping with



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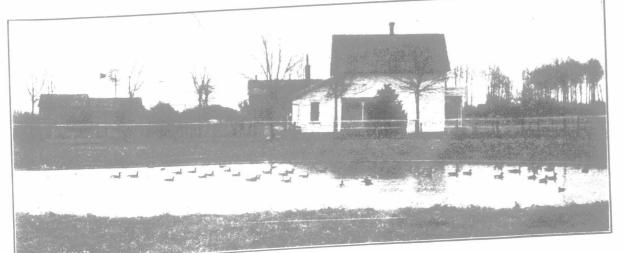
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## Antigonish Fair.

The sixth annual fair for the County of Antigonish, N. S., in March, was largely attended. The fairs are held under direction of the Farmers' Association for the County of Antigonish. The Association is assisted by the Provincial Department of Agriculture in providing the prizemoney, and by the Seed Branch of the Dominion

for your boys, if you desire them to have the same in you. Keep your promises with them, and encourage by taking them into your confidence, and give them some share or interest in the farm or stock as early as possible, and do not wait until they are old men before they can claim anything as their own. Do not keep your family in ignorance of your financial standing. If you have debts, mention them, and acquaint them of many of the little details of your business before your



Miner's Pond, April, 1909

the spirit of springtime. A ground-hog came out, blinking in the sun, sat up on his haunches, took a look at the passerby, then, with a wild whistle of delight, disappeared again. A song-sparrow was perched on a hazel-bush, pouring forth strain of melody with a veritable abandon of delight. A red squirrel came dashing along the fence, as though the existence of a whole kingdom depended on his reaching his destination in the shortest possible He noticed a great biped standing watching him, and with an indignant chuckle turned and dashed up the side of a tree, as though in mortal terror of his life. He didn't go far. Stopping on one of the lowest branches, he proceeded to express his opinion of the intruder in most vigorous and expressive squirrel language. So expressive was his language, in fact, that I will not run the risk of shocking my readers' sense of propriety by repeating A very embodiment of concentrated energy and bottled fury he appeared to be as he stamped and fumed around there, just as though it was only by the exercise of the greatest self-control he could restrain himself from coming right down and engaging in mortal combat with his enemy. But, like many another creature, his

greatest terror is his tongue. I passed leisurely along, which is the proper way to walk along a country road. Dally, loiter, poke along, use any term you like, so long as it expresses delayed and loving motion. When you have found the word to your liking, suit your action to the word. If your business requires

### haste, let me advise you to use some other means Reciprocity Gives Better Markets. Editor "The Farmer's Advocate":

of locomotion.

I came to a stream, leading to a little lake nestling like a pearl in all its loveliness among the hills. I am not bound to follow any prescribed course, so I will turn aside and follow this stream. Its gentle ripple over the stones is music to my ear, sweeter and more soothing than the most melodious man-made music. I saw the little fish disporting themselves among the pebbles, their glistening sides flashing back the rays From among the reeds surrounding of the sun. the lake a bittern rose with a hoarse croak, dragging its long legs after it, and slowly tucking them up among its feathers. A flock of ducks, sailing peacefully on the lake, spied the intruder, and in a moment were away on the wings of the They need not fear. I have no malicious A muskrat came intent against their lives. peacefully swimming around a little promontory, and climbed on to the top of his dome-like home, blinked, sat down, scratched himself, looked around, when his sharp, bead-like eyes spied the stranger trying to keep himself hidden. The next I heard was a splash in the water, and saw a ripple where this shyest of creatures had disappeared.

I stood and gazed long at the surface of that lake, so calm, so inscrutable, giving no indication of the multitudinous life below, with its many problems and mysteries. I would fain fathom its depths and mysteries, but there are many worlds of life and interest beyond this that I experience.

So the day wore on. I wandered through woods, across fields, by streams, up hill and down dale, without let or hindrance. The sun was sinking low in the west as I climbed the eastern side of a hill. When I gained the top there burst upon my vision a scene that has been, and will continue to be, while time shall last, the ideal and despair of painters, poets and artists of every description. The sun had run another day's course, and was slowly sinking, a magnificent ball of fire below the distant horizon. With Bishop Quayle, I would say: "I resent people running mad over carnivals and slighting the pageants of the morning and evening, worth a pilgrimage about our world to catch sight of once. A sunset in a decade ! How thronged the way would be that led to its mountain; one in a week, who watches? The great pathos of our lives is that we have eyes, but see not; we have ears, but hear not.

When "Old Sol" had sunk to rest, I turned my steps homewards. I have had a good day. It has not been wasted. J. D. TAYLOR. Waterloo Co., Ont.

#### New Jersey Record.

Brampton Lady George, bred and owned by B. H. Bull & Son, Brampton, Ont., on February 7th, 1911, completed a world's record for a Jersey heifer under 2 years and 6 months at commencement of yearly authenticated test. On February 8th, 1910, when two years and sixty-six days old, she dropped her first calf, and for 365 days her milk was weighed in accordance with the rules of the Canadian Record of Performance, the test being authenticated by the Record officers, her total record for the yearly period being 11,004.75 pounds milk, which yielded 536.045 pounds of butter. She dropped her second calf March 3rd, 1911, less than thirty days after comletion of the test. In the Winter Fair test, at Guelph and Ottawa, she averaged 28.9 pounds milk per day for the three days of the test, the former being in December, the latter in January, when within 60 days of calving. Considering that Brampton Lady George had calved two weeks before being entered for test, that she was travelled to Toronto Exhibition, and the two hard winter trips, and that for eight out of the twelve months she carried a calf, hers is an exceedingly creditable record.

There has been so much discussion of the reciprocity question of late that the average man is getting tired of it, and what is wanted now is, not more discussion, but action on the part of the respective Governments to bring the pact into existence and give it a try-out. There are, however, "interests" that think they may get hurt-if not now, later-and would like to stave off any change, and would "let well enough alone." But these same interests were but a

short time ago crying out for more protectiona greater power to " bleed " the many, and make fortunes for a few. These "interests" know how to keep up their side of the question by the aid of some "smart Alecks" employed to do the talking for them. They would even try to make farmers believe that this lowering of the bars, giving us free entry to another market for our produce, will be an injury, rather than of general benefit. One thing is very certain : if there had not been a strong demand from the consuming public over the line that the tariff wall should be knocked down, so that they may obtain Canadian food products, there would not have been such an agreement made; at least, one so favorable to the Canadian manufacturers. No administration in the States would have proposed such a pact a few years ago. To obtain reciprocity, only a few years ago, would have necessitated fixing the tariff much lower on manufactured articles, as well as on food products. That would undoubtedly have been still more in the interest of farmers. Farmers have obtained such small favors from our legislators that we may consider it well that we get half a loaf. Much of the trouble is caused by the interested parties because they think that once the wedge is entered, the hammering will continue, until the whole wall is knocked down. There is no doubt whatever that there has been a shortening of the food supply in the American Republic, and there is also no doubt that the consumption is increasing much faster than the production of foods. Such being the case, Canada stands to get a present benefit and a growing market for farm produce, and what we should produce are those crops best suited to our climate and soil, leaving to more southern districts to produce what is more suited to their climate and soil. Then all are working with nature, and such will need to be done, if the teeming millions of the world are to be fed.

About the only one deserving of pity in this He has had to deal is the American farmer. carry the tariff burdens, and has been told, just as our farmers are being told, that building up the cities will make a great demand for his products; and now, just as he sees the plum ready for his picking, the consumers demand that the tariff against foods be lowered, and thus he gets no protection. Hitherto he has not benefited, though compelled to bear tariff burdens. Farmers can get no benefit from tariffs. When they produce more than their country requires, the foreign market fixes the price. When consumption stops exports, and prices get higher, the ers demand the lowering of the tariff. No nation will stand for long a tariff that increases the price of food. So that farmers need not be deluded that they are going to receive a future benefit by bearing present burdens. Talking about burdens, it would seem that other interests consider it but natural to place the burdens all on the farmer. There are the meat-packers, for instance; they seem to think that prices for stock will go higher, and they will not be able to operate, or at a less profit. That is cooly asking the farmers to take less for their stock, in order that the packers may continue to make a few more millions. And so it is in other lines. There are people who seem to think it nothing but right that farmers should bear all the burdens, work hard, live poorly, and take less for their produce, in order that a few may ride in their automobiles, winter with the birds in the south, and fling away a few thousands in Europe each summer. Verily, they think "a sucker is born every minute." To those who are acquainted with real agricultural conditions, this cry. "leave well enough alone." does not appeal. Our rural population has been decreasing, instead of increasing. With time, the land requires more labor to work it properly, but such is not being done, because there has not been enough profit to pay the necessary ware, and we have loss of fertility and a increase of weeds, that is much worse. only in the Western Provinces that farmers "" mining " their land; it has been praccars all over Canada, until much of "worked out. The same thing has ng on all over this continent to a greater There must be a change. We there wir food too cheaply, and, in FOUNDED 1866

order to do so, the farmer has been taking too much fertility from the soil and not putting back enough. There must be much more labor put on the farms, if deterioration is not to continue, and more stock must be kept. That means more work and more money must be spent upon the The only way more money can be spent crops. by the farmers for labor, etc., is that they must get better prices, as no one will contend that farmers are making too much. To get better prices, farmers need free entry into the nearest and best market. By reciprocity, we lose no market, but we gain another good one. GEO. RICE. Oxford Co., Ont.

#### Oxford County Graft Case.

At the St. Thomas (Ont.) spring assizes, M T. Buchanan, formerly warden of Oxford County. pleaded guilty to three indictments brought in by the grand jury. The first was for receiving two commissions of \$480 and \$260 from the Sawyer-Massey Co., on machinery sold the county council. The second was for inducing the county to purchase the Ingersoll and North Oxford road for \$2,000, far in advance of its value, by misrepresentation, he being the owner of the road. The third was for accepting a commission of \$340 from an agent of the J. I. Case Company for road rollers and other machinery purchased by the county. Counsel for prisoner announced that he would make full restitution to the county of all sums unlawfully received, and appealed for The crown council intimated that there leniency. was a willingness on the part of the county officials to accept the settlement. Chief Justice Middleton, in pronouncing sentence, enlarged upon the serious nature of the crimes, and said had a jury found him guilty he would have been compelled to sentence him to five years' imprisonment, without the option of a fine. In view of his age and other considerations, he allowed him to go on suspended sentence. The outcome of the case will be a severe warning against " graft " in municipal affairs.

#### Coltart vs. Winnipeg Exhibition.

Judgment has been given at Winnipeg by Justice Prendergast in what is regarded by ex hibition managers as a test case. The plaintiff, Coltart, of Beulah, Man., in 1909 made an ex-hibit of Japanese spaniels at the Winnipeg Industrial Exhibition dog show, where they unfortu-nately contracted distemper, from which, subsequently, 24 died and 3 were permanently injured. Damages were claimed at \$2,525, and \$200 for medical and nursing expenses, on the ground of negligence on the part of the exhibition authorities, who claimed, however, that plaintiff accepted the conditions laid down in the rules and regulations of the show. In concluding his lengthy review of the evidence, the justice held that the defendants had exercised the reasonable care that they were bound to use, and dismissed the action Dr. Bell, the general manager and with costs. secretary of the exhibition, is of the opinion that had a case like this gone against the association, all shows with which are associated stock, poultry, dogs, etc., would be greatly handicapped, and, in fact, boards of directors made liable for damages due to diseases breaking out, over which they had no control

#### Cow Ties and Mangers-A Correction.

J. H. Grisdale, Director Dominion Experimental Farms, calls attention to an error in an article of his, headed " Cow Ties and Mangers," published in " The Farmer's Advocate " of March 23rd. That portion having reference to type " C " manger which read. " The coment manger, with the front or division between the feed passage and the manger. from 2 to 3 inches above "The cement manger, with the front or division between the feed passage in the manger, from 2 feet to 30 inches above the stand of the said passage."

We are pleased to exome the long suffering printers, at whose door it was actionary to lay such slips, by stating that the transformation was reproduced verbatim as to sibly Prof. Grisdale's stenogram

About 1,800 persons have av accomment Annuities Act. a paid into the fund.

#### New Superintendent B. C. Experimental Farm.

P. H. Moore, a native of Nova Scotia, and graduate of the Ontario Agricultural College, has been appointed superintendent of the Dominion Branch Experimental Farm at Agassiz, B. C, to succeed Thos. Sharpe. At the first of April, this year, Mr. Moore finished a year's service with the Provincial Department of Agriculture as Dairy Commissioner. Wishing to get back to the land. he accepted the position offered at Agassiz, and is planning an energetic course of procedure, with increased attention to live stock. The farm is being put under a four-course rotation, and an inexpensive though modern cow stable is being built. A small, up-to-date dairy will also be crected, and a herd of 40 or 50 good grade Holstein cows put in. A first-class bull will be used. and the herd bred up graduall petting the whole thing on a farmer's basis. Mr. Moore combines with experience and native capacity the enterprise and enthusiasm of youth, and should accomplish good work in the interests of British Columbia agriculture.

#### Foot and Mouth Embargo Removed.

Official advice from Dr. J. G. Rutherford, Dominion Veterinary Director-General, states that the restrictions imposed upon the issuing of permits for the importation into Canada of cattle. sheep, other ruminants and swine from Great Britain, by reason of the existence of foot-andmouth disease in that country, have now been reAPRIL 27, 1911

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## A Home of Their Own.

Editor " The Farmer's Advocate " :

Reading "Farmer's Son's" letter, in your issue of March 16th, recalls by-gone memories of my long-lost youth, when I, too, was not enamoured with farm life. I longed for a life of more change and excitement, where I would have a chance of winning distinction. I think that my father read my thoughts, for, though I had not complained, one day he spoke to me on the subject. He said : "Fred, I want you to be a farmer. You are my oldest boy, and should anything happen me, who but you could take my place and care for mother and the rest ?" These words made a deep impression on my mind. They awoke in me a consciousness that a great responsibility rested upon me, and that I ought to be prepared to take it up; and though at times afterwards the old longings would return, I had gotten a view of the nobility of the life that lay before me, and I entered more heartily into all farm operations. It was about this time that the Canada Farmer was first published (at The Globe office, I believe). My father was one of the early subscribers, every issue of which I read It taught me that with increasing interest. farming was a science, and that it provided a field wide and deep enough to engage the best It was then that I learned the most valuable lesson of my life, viz., that it is a low aim minds. to live for wealth; that health, contentment and domestic joy; that to be honorable and useful and beloved-these things all are as far above mere wealth as Heaven is above earth, and are the only things worth striving for. I had now found the key to happiness, and year by year fresh sources of joy were opened up for me. Many years have passed since then, and I have tasted all the disagreeable things in connection with farm life, and I can truthfully \$ay that, could I begim life again, I would choose to be a farmer. It is quite true that there is more money in almost any other calling, yet it is no less true that farmers as a class are the most substantial and The man with a well-tilled farm and substantial building is a king, upon whom all the forces of Nature wait. The woods, the hills and secure. forces of Nature wait. valleys are the boundaries of his kingdom, all the charms of Nature which the city man longs for are his to enjoy in the fullest measure.

The healthy mind does not crave excitement, but rather delights in opportunities for contemplation. Someone has said that three things are necessary for a happy life, viz., "Something to live for, something to hope for, and something to love." There is wisdom in this saying. We cannot see a better calling than farming to pro-There are many causes why mote these things. young people leave the farm, but we consider the chief one to be the natural desire to have a home To the majority of farmer's sons of their own. Nature this attainment seems a long way off. pleads, and will take no denial, hence the tie to the farm is broken, and some trade or occupation is chosen where a good wage is paid, a home is set up, and "Two lives are made fast in one with golden case." They have entered the gateway to a happy life, and they have no regrets We consider that farmers enerally are remiss in their duty to their sons over the step taken.

Should the reciprocity treaty come into effect, it will give a wonderful uplift to agriculture. The widening of our markets will assure us a demand for all that we can possibly raise. This will remove the fear, long felt, of glutting the market—a fear which has been a hin-

THE FARMER'S ADVOCATE.

drance to progress for several years. In conclusion, we would say to the many boys who read "The Farmer's Advocate," don't leave the farm to be a servant to someone else; be your own master, and get all the profit of your labor. Remember, on a farm you own a business; when working for someone else, you own nothing. No work, no wages; and if misfortune befall you, you will find the world cold and unsympathetic, and you will be pushed aside by stronger and abler men. A farmer is always sure of a good living, of enjoying the company of his family, of living in the sunshine and open air. These things have much to do in promoting F. FOYSTON. a long, happy life.

#### Simcoe Co., Ont.

## Square Pegs in Round Holes.

Editor "The Farmer's Advocate":

Something of a discussion is going on in the columns of your paper on the subject of "Farming vs. Railroading," and the weight of opinion seems to be on the side of the defenders of the farm. Of course, the case is actually one of "The Farm vs. Any Other Reasonably Rewarded Occupation," as railroading can of necessity afford employment to but a comparatively small proportion of the young men who leave the farm. But the case, as it appears to me, is just this : in the first place, some of the boys of the family have to leave the farm. Say, on an average, that there are three boys in each farmer's family in our country. Two of these must of necessity seek some other occupation, as it isn't likely that the farm will support a greater number of individuals in the next generation than it did in

this But, in the next place, we have to deal with the boy who might stay on the farm, but who doesn't want to. The remedy is not far off. Let him go. If he is not as well fitted for another occupation as he is for farming, he will soon find it out, and will likely return to the farm of his own accord, and his chance of making a success along agricultural lines will be much better than if he were working in a discontented frame of mind, as he would be had he not seen something of the world, and found out the comparative merits of the different callings of mankind. Should it so happen that this individual should find a trade or profession to his liking other than farming, isn't it better to make even a good lawyer or preacher out of him than a poor farmer. Our country gains no strength from men who are not a success in their particular line of business.

We all know cases of men who would have made first-class carpenters or machinists, who are not serving any useful purpose on the farm, unless it be to stand for an example to other farmers in the line of how "not to do it.

I have seen men who I honestly believe would have made first-class agricultural college professors, or even editors of some agricultural papers, who were working out a miserable existence on a run-down farm, simply because, while they were long on theory, they were short on the qualities that go to make the practical farmer. no use putting a square peg into a round hole, even if that hole is the farm.

wick is privately owned, and nearly all the rest covered by licenses which have several years to run, this legislation will not materially affect the export of pulpwood from that Province for some time.

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What the trade agreement now before the country does provide is that wood pulp, newsprint paper and other paper, and paper-board, manufactured from mechanical wood pulp or from chemical wood pulp, if valued at four cents per pound or less, shall be admitted to the United States free of duty, on the condition precedent, that no export duty, export license fee, or export charge of any kind, or any prohibition or restriction in any way of the exportation, shall have been imposed upon such paper-board or wood pulp, or the wood used in their manufacture. Where such restriction has been imposed, a duty is charged by the United States.

Should the trade agreement be adopted, it appears that the situation will be this : Canadian Governments will prevent the exportation of pulpwood from all lands excepting a very small area in Ontario, 8,000,000 acres in Quebec, one-half of New Brunswick, and all of Nova Scotia. United States will charge the customary duty on all wood pulp and paper, except that valued at four cents a pound or less, which originates on the lands specified above, and which is consequently allowed to enter free of duty. As before, all pulpwood will enter the United States free of H. R. MacMILLAN. duty.

## Encourage the Boys to Marry.

#### Editor "The Farmer's Advocate":

One reason why the boys leave the farm is because they are discontented. They want a chance to save money, and many of them don't get any to save or spend. They are supplied with board and clothing, and that is about all. Their fathers seem to imagine that is all they require. They intend to leave them something when they die, but they want to hold on to their money or property as long as they can. But the boys want something now. They would like to bank some money every year. Every ambitious boy wants (or should want) to save money. Who can blame him for that? If their fathers would give them a chance, they would likely remain at home, instead of going out West.

Another reason is that many fathers are too bossy. They act as though they "knew it all," and their sons knew next to nothing. Now, boys don't like to be treated thus; it makes them discontented. When a boy arrives at years of maturity, he ought to be capable of managing the I have in mind a farmer who has given his son the reins, and lets him use farm work. his own judgment in everything pertaining to the management of the farm, stock, etc. One of the son's sisters told a friend that they were saving far more money since her brother had taken charge than they did before. The father is a slow, easy-going man; the son is ambitious, and believes in up-to-date methods and go-aheadativeness. He carries off prizes at the exhibition every year. His parents are justly proud of him. After his parents die and his sisters marry, he will probably take unto himself a wife. The large majority of parents seem to expect too much of their children. They haven't enough patience with them. Scolding and fault-finding only discourages them, and they leave the home never to return again. We would strongly ad-vise farmers to try the magic power of love and praise. Of course, children will sometimes happen to forget something or make a mistake, but, remember, we do so ourselves. Don't expect them to work for nothing. Give them something of their own, and when they try to do their best, give them a few words of praise. It will do them so much good. Perhaps your boy wants to get married. That is only natural. His father married, and how can you blame the boy. You may think that he doesn't need a wife, but, you know, opinions differ. Let the boy marry if he wants There are too many old bachelors. are afraid that the women will fight or disagree, divide the house. Won't that be a good arrangement? Let him share in the farm now; don't keep him waiting. Surely that will be better than letting your son leave home. No, you cannot af-ford to lose your honest, industrious boy. No hireling will ever fill his place, you may be sure of that. In this Province, competent hired help is very hard to obtain, and boys appear to be scarce in the country. There are quite a number of bachelors and maiden ladies who never intend There are fewer marriages than in former years. As a general rule, the girls are fond of style and fashion, and many of the working men think they cannot afford to marry until they have a good bank account. When farmers deal justly with their boys, and give them wages, so that they can save money, they will find that is about the only way to keep boys (who are worth keeping) on the farm. Prince Edward Island.

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They too often as stock they have raised, with much care and expense, and hence have a right to their service. This is a wrong idea, and contrary to reason and Scriptures, which teach that parents should live for their children, and not the children for the

As Dugald says, in a recent issue of "The Farmer's Advocate," young men are shy to speak of these things to a parent. A wise and manly father should frankly discuss this subject with his sons, and should let them know that their well-being is his first thought. We guarantee, if this is done, the boys, in the majority of cases, will enter cheerfully into all farm work, and the time will pass pleasantly by. Farmers, is a class, while possessing valuable property, to not have much ready money, and it requires money to start a boy on a farm, hence the task seems hopeless, and boys are often encouraged to Try something else. Where there are only one or two boys in a family, they should be given a moneyed interest in the farm at the age of twenty. By adopting a system of intensive farming, the ordinary farm income may be doubled. Where there are many boys, they may be put on rented farms, on a small capital; or, if they are boys of the right stamp, they can easily get a good farm to work on shares. There are many who would be very glad and would prefer to let their farms on shares, rather than rent them. In short, there are openings everywhere for farmers' sons who have push, intelligence and ability. Without these qualities, they will not succeed in any calling One thirs in term close that is any calling. One thing is very clear-that is, that farming is going to be more and more profitable, more interesting, and less laborious. Farm values and rentals will increase as prices of food-

## The Pulpwood Question.

## Editor "The Farmer's Advocate":

On page 673 of your issue of April 13th you inform a correspondent who asks "To what extent and from what lands pulpwood is to be allowed free into the United States by the new reciprocity trade agreement?" that, "By a provision of the trade agreement pulpwood was to be allowed free into the United States at such time as the Provinces remove all export restrictions

There is evidently some misunderstanding here. upon it. There is no import duty or other restriction upon pulpwood entering the United States, and has not been for some time. The Governments of British Columbia, Ontario, Quebec, and the Federal Government administering Federal lands, have, however, enacted legislation that all timber cut on Government-owned lands under their jurisdiction shall be manufactured in Canada. This prevents the exportation of pulpwood (which is unmanufactured wood) from practically all timber lands in British Columbia, Alberta, Saskatchewan, Manitoba and Ontario, where there is a very small acreage of privately owned timber lands, and from all but about 8,000,000 acres in Quebec. During April there has been passed a law in New Brunswick preventing the export of pulpwood from all public lards for which the licenses may be issued or renewed hereafter. As the half of New Bruns-

## THE CANADIAN BANK **OF COMMERCE**

ESTABLISHED 1867.

Capital paid-up, \$10,000,000. Rest, \$7,000,000.

750

The Canadian Bank of Commerce extends to farmers every facility for the transaction of their banking business, including the discount or collection of sales notes. Blank sales notes are supplied free of charge on application.

Accounts may be opened at any branch of The Canadian Bank of Commerce to be operated by mail, and will receive the same careful attention as is given to all other departments of the Bank's business. Money may be deposited or withdrawn in this way as satisfactorily as by a personal visit to the Bank.

## MARKETS

#### Toronto.

#### LIVE STOCK.

At West Toronto, on Mohday, April 24, receipts numbered 72 carloads, comprising 1,667 cattle, 156 hogs, 74 sheep, 82 calves, 6 horses. Quality of cattle good. Export cattle sold at \$5.70 to \$6.60; prime picked butchers', \$5.80 to \$5.95; good loads, \$5.60 to \$5.80; medium, \$5.20 to \$5.45; common, \$4.80 to \$5.15; cows. \$3.50 to \$5.10; bulls, \$4 to \$5; milkers, \$40 to \$70; calves, \$3 to \$5.50 per cwt. Sheep-Ewes, \$4.23 to \$5.25; rams, \$3.50 to \$4. Hogs, \$6.50 for selects, fed and watered at the market, and \$6.20 to \$6.25 f. o. b. cars at country points.

#### REVIEW OF LAST WEEK'S MARKETS

The total receipts of live stock at the City and Union Stock-yards for the past week were as follows :

	City.	Union.	Total.
Cars	182	145	327
Cattle	2,105	1,881	3,986
Hogs	5,422	2,158	7,580
Sheep	1,188	2,301	3,489
Calves	655	162	817
Horses	22	103	125

The total receipts at the two yards for the corresponding week of 1910 were as follows:

		City.	Union.	Tota
Car	`S	199	170	36
Cat	tle	2,969	3,246	6,21
Hog	38	3,789	1,633	5,42
She	ер	229	66	29
	ves		312	1,51

sheep and lambs, and 61 horses, in com-

parison with the corresponding week of

It will be seen by the above figures that

receipts for the week were light, which

caused prices to be firm, at the quota-

tions given for Monday's market at the

Union yards. Had there been seventy-five

loads at the Union yards at the begin-

ning of the week, prices, instead of re-

maining steady, would certainly have de-

Exporters.-The demand for exporters

was not nearly as latter as for the pre-vious week. About 200 story all told

were bought, at \$5.70 to \$

13 cattle were bought at it

London market wás not qui

those bought for Liverpo

\$5.77 per cwt. Bulls sold at

Butchers' .- Prime picked lots

\$5.85 to \$6; loads of good, \$5.

\$5.80; medium, \$5.25 to \$5.40; con

\$4.90 to \$5.15; cows, \$3.50 to \$5

Milkers and Springers.-There was

better class of milkers and springers on

sale than for the past month or six

weeks, and about a dozen reached the othy

The average price for ste

to \$5.25 per cwt.

bulls, \$4.50 to \$5.25.

Horses

1910.

clined.

\$40 to \$60 each.

Veal Calves .- Receipts were liberal, and prices easier than in many months. Wesley Dunn, the chief operator in sheep, lambs and calves, reported that \$5 per cwt. was the average of his purchases, while the range of prices paid was from \$3 to \$7 per cwt.

Sheep and Lambs .- The receipts of Ontario sheep and lambs were light, but the supply from Uncle Sam was more than enough to make up the deficiency of Ontario shipments. The quality of American lambs was good, and just what the Toronto butchers were looking for; that is, lambs weighing from 85 to 115 lbs. More than that, they were all wethers, and the sooner the Ontario farmers follow the American farmer's example in this respect, the better it will be for them financially. The American shippers have simply captured the Toronto markets for the present, after paying duty and transportation even from Chicago. Yearling lambs are worth from \$6.50 to \$7, few selling at the latter price, the bulk going at \$6.65 to \$6.85; ewes, \$4.50 to \$5; rams, \$4 to \$4.50 per cwt. Spring lambs, \$3 to \$7 each.

Hogs .- Receipts of hogs were fairly liberal. Prices were unchanged, at \$6.50 for selects, fed and watered at the market, and \$6.20 to drovers, for hogs f. o. b. cars at country points.

#### BREADSTUFFS.

Wheat .- No. 2 red, white or mixed, 82c. to '83c., outside points; Manitoba No. 1 northern, 97c.; No. 2 northern, 941c.; No. 3 northern, 921c., outside points. Rye-No. 2, 66c. to 68c., outside. Peas-No. 2, 80c. to 81c., outside. Buckwheat-48c. to 49c., outside. Barley-For malting, 67c. to 68c.; for feed, 50c. to 57c., outside. Oats-Canadian Western No. 2, 371c.; No. 3, 361c., lake ports; Ontario No. 2, 33c. to 34c.; No. 3, 32c. to 33c., outside. Corn-American new No. 2 yellow, 57c., track, Toronto. Flour-Ninetyper-cent winter-wheat Ontarlo patents, \$3.20 to \$3.25, seaboard. Manitoba flour-Prices at Toronto: First patents, \$5.40; second patents, \$4.90; strong bakers', \$4.70.

#### HAY AND MILLFEED.

Hay.-Baled, in car lots, on track, Toronto, No. 1, \$12; No. 2, \$8.50 to \$10.50.

Straw.-Baled, in car lots, track, Toronto, \$6 to \$6.50.

Bran.-Manitoba bran, \$21 per ton; shorts, \$23; Ontario bran, \$22, in bags; shorts, \$24, car lots, track, Toronto.

#### HIDES AND SKINS.

E. T. Carter & Co., 85 East Front street, have been paying the following No. 1 inspected steers and cows, prices: 91c.; No. 2 inspected steers and cows, 81c.; No. 3 inspected steers, cows and bulls, 71c.; country hides, cured, 81c. to

\$13.75; alfalfa No. 2, per bushel, \$12.25.

FRUITS AND VEGETABLES. Apples are scarce. Choice table Spies are worth \$6 to \$7.30 per barrel; No. 2 Spies, \$5.30 to \$6; No. 1 Greenings, \$5; No. 2 Greenings, \$4.50; Ben Davis, \$4 to \$4.50, and even \$5; carrots, 45c. per bag; cabbage, 30c. to 50c. per dozen; strawberries (American, Tennessee), 30c. per quart boxes.

#### Montreal.

Live Stock .- On the local market last week the price of cattle showed a de-The offerings were larger than cline. might have been expected immediately following Easter, and the quality naturally showed a slight falling off. The butchers were fairly well supplied, consequently were not eager buyers. Choice steers sold at 61c.; fine, at 6c.; good, at 51c. to 6c.; medium, 5c. to 51c., and common down to 31/2c., the lowest price being for a low grade of cows. Choice cows brought as high as 5%c. The offerings on small meats were light, and the demand, on the whole, was dull. Some fine calves brought \$10 each, while spring lambs brought all the way from \$3 to \$6 each. The supply of hogs was light, but as there was very little demand, the tone of the market was not at all strong, in fact, a decline of a quarter of a cent was noted, and sales were made at 6%c. per lb., weighed off cars.

Horses .- Dealers report difficulty in getting sufficient. While the demand is not very active, no horses are left in the stables. Prices firm. Heavy draft horses, 1,500 to 1,700 lbs., \$300 to \$350 each; light draft, 1,400 to 1,500 lbs., \$225 to \$300 each; light horses, 1,000 to 1,100 lbs., \$100 to \$200 each; inferior, broken-down animals, \$50 to \$100 each, and choicest carriage and saddle animals, \$350 to \$500 each.

Dressed Hogs .- Fresh - killed, abattoirdressed hogs sold at 91c. per lb.

Potatoes .- Ontario and Quebec stock cost \$1.05 to \$1.10 per 90 lbs., carloads, on track, Montreal. Prices in a small way, delivered to store, \$1.25 to \$1.30.

Maple Products .- Wine-gallon tins said to be selling at 75c. to 80c., while in wood quotations are about 7c. to 8c. per lb., and Sc. to 10c. in tins. Sugar very scarce, but dealers seem determined not to pay more than 11c. to 111c. per lb. for it.

Eggs.-The market last week showed little change. Dealers are paying 15c. in the west, and 16c. in the east, but are trying hard to buy at less. Straightgathered eggs were sold to grocers at 18c. to 19c., and selected large stock could be had at about 21c.

Butter .- Dealers claimed to be buying at around 221c. for fresh-made creamery, at country points. This was selling here to grocers at 234c. to 24c., according to

FOUNDED 1866

\$70 mark, while the balance sold at from No. 2, \$6.75; alfalfa, No. 1, per bushel, 9c. and 10c. per lb., according to quality. Lamb skins, 90c. each. Horse hides, \$1.75 and \$2.50 each. Tallow, 61c. to 7c. per lb. for rendered, and 11c. to 4c. for rough.

#### Chicago.

Cattle.-Beeves, \$5.15 to \$6.60; Texas steers, \$4.60 to \$5.60; Western steers. \$4.80 to \$5.75; stockers and feeders, \$4 to \$5.70; cows and heifers, \$2.65 to \$5.75; calves, \$4.75 to \$6.50.

Hogs.-Light, \$5.95 to \$6.35; mixed, \$5.85 to \$6.30; heavy, \$5.70 to \$6.20; rough, \$5.70 to \$5.90; good to choice hogs, \$5.90 to \$6.20; pigs, \$5.90 to \$6.25; bulk of sales, \$6.10 to \$6.25.

Sheep and Lambs.-Native, \$3 to \$4.70; Western, \$3.15 to \$4.70; yearlings, \$4.30 to \$5.25; lambs, native, \$4.50 to \$6.25; Western, \$4.75 to \$6.25.

#### Buffalo.

Cattle.-Prime steers, \$6.25 to \$6.40; butcher grades, \$3 to \$5.

Veals.-\$6 to \$7. Hogs .- Heavy, \$6.25 to \$6.40; mixed, \$6.40 to \$6.50; Yorkers, \$6.55 to \$6.65; pigs, \$6.60 to \$6.65; roughs, \$5.40 to \$5.60; stags, \$4 to \$4.75; dairies, \$6.25 to \$6.65.

Sheep and Lambs.-Wool lambs, \$6.25 to \$6.50; clipped lambs, handy, \$5 to \$5.60; heavy, \$4.65 to \$4.75; yearlings, \$4.50 to \$4.75; wethers, \$4 to \$4.15; ewes, \$3.50 to \$3.75; sheep, mixed, \$1.50 to \$3.85.

## British Cattle Markets.

Liverpool.-States and Canadian steers, 131c. to 131c. per pound. Wool lambs, 17c., and clipped lambs, 141c. per pound; wothers (clipped), from 111c. to 12c. per pound.

#### GOSSIP.

Hackney brood mares, and fillies broken to ride or drive, are advertised for sale by James Cochrane, Hillhurst Farm, Lennoxville, Que. The breeding and quality of these should prove attractive, as we are assured the prices are.

SALE DATES CLAIMED. April 27th.-In Toronto; T. H. Hassard, Markham, Ont.; imported ponies.

May 23rd.-W. F. Elliot, Coleman, Ont.; Holsteins and Clydesdales.

May 24th .- Dr. D. McEachran, Ormstown, Que.; imported Clydesdales.

It affords me great pleasure to renew my subscription to "The Farmer's Advocate," as I could not very well get along without a paper containing such a wide scope of useful information. Am having a very successful season with my Cotswold sheep; seventeen lambs dropped from nine ewes sixteen alive, and large, vigorous lambs, pairs weighing up to 32 lbs. when dropped.-J. A. Caldwell, Simcoe Co., Ont.

PERSONAL PROPERTY AND A REAL PROPERTY.
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Horses	2	62	64 8	₽c.; g
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of 42 cars, 2,229 but an increase	2,158	hogs,	3,194 6:	łc.

reen, 8c. to 81c.; call skins, 11c. c.; sheep skins, \$1.05 to \$1.35; hides, No. 1, \$3; horse hair, per c.; tallow, No. 1, per lb., 51c. to

#### COUNTRY PRODUCE.

Butter .- Receipts large, with prospects of a decline in prices. Creamery pound rolls, 26c. to 29c., with Locust Hill at 31c.; creamery solids, 24c. to 25c.; separator dairy, 22c. to 24c.; store lots, 17c. to 19c.

Eggs.-Receipts very large, with prices easy, at 17c. to 18c

Cheese.-Large are quoted at 131c., and twins. 14c.

Honey .- Prices nominal. Extracted, 10c. to 11c.; combs, per dozen sections, \$2.50. Beans.-Hand - picked, in broken lots, \$1.85; car lots, at country points, are quoted at \$1.50 to \$1.60.

Potatoes .-- Car lots of Ontarios, 85c. per bag, track, Toronto; New Brunswick Jawares, 95.

Poultry -- Scarcely enough fresh lots forward to make a market. Turthe to 27ch yearling chickens, 18c.

#### SETTO MARKET.

Seed Company re-. at which red to the trade: alsike No. over No. 10; tim-

quality. It was claimed that Septembermade creamery might be had at 22c. Cheese .- Market steady. New, colored

cheese, 11%c. to 12c. per lb. Grain.-The market was stronger all round on oats. No. 2 Canadian Western oats were quoted at 38%c. to 39c. per bushel, car lots, store; No. 1 extra feed, 384c. to 381c.; No. 3 Canadian Western, 37%c. to 38c.; No. 2 local wheat, 36c. to 361c.; No. 1 a cent under, and No. 4 yet a cent under; No. 3 American yellow corn, 59c. to 591c. per bushel.

Flour.-Manitoba flour steady, at \$5.30 per barrel, in bags, for first patents; \$4.80 for seconds, and \$4.60 for strong bakers. Ontario patents unchanged, at \$4.50 per barrel, straight rollers being \$4 to \$4.25.

Millfeed.-Market steady, at \$21 to \$23 per ton for Manitoba bran, in bags, and \$23 up to \$25 for shorts; Ontario bran, \$22 to \$23; middlings, \$24 to \$25; pure grain mouille, \$30; mixed mouille, \$25

Hay .- Prices continued unchanged. Dealers quote No. 1 baled hay, \$10 to \$10.50, carloads, track, Montreal; No. 2 extra, \$9 to \$9.50 per ton; No. 2, \$8 to \$8.50. Clover mixed, \$7 to \$7.50; pure clover, \$6 to \$6.50 per ton.

Seeds .-- Timothy seed scarce and dear. Prices per 100 lbs., in bag lots, Montreal: Timothy seed, \$14 to \$16; medium red clover, \$15 to \$20; Mammoth red clover, \$18.50 to \$20.50; alsike, \$18 to \$23. Hides .- Calf skins, 13c. per lb. for No. fimothy 2. and 15c, for No. 1. Beef hides, Sc.,

#### TRADE TOPIC.

J. T. Stuart & Co., stock brokers, Traders Bank Building, Toronto, Ont., are one of the firms that realize the potentialities for investment businesses among farmers. They put out a very attractive booklet, describing how simply securities may be bought and sold on margin. If interested, write, mentioning this paper.

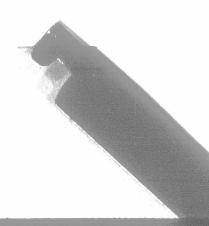
#### REMEMBERING THE SABBATH.

The reverence for the Sabbath in Scotland sometimes takes a form one would hardly have anticipated.

An old Highland man once explained to an English tourist :

"They're a God-fearing set o' folks here, sir, 'deed they are, and I'll give ye an instance o't. Last Sabbath, just as the kirk was skalin', there was a drover chap frae Dumfries along the road, whistlin' and lookin' as happy as if it was ta middle o' ta week. Weel, sir, our laads is a God-fearing set o' lads, and they

"So you don't guide hunting parties any more?" asked the stranger. "Nope," said the guide. "Got tired of being mistook for a deer." "How do you earn your living now?" "Guide fishin' parties. So far, nobody ain't mistook me fer a fish."



APRIL 27, 1911

Little Trips Among Em-

inent Writers.

William Dean Howells.

uality hides. 1c. to to 4c.

1860

Texas steers. rs, \$4 5 to

\$6.20; 90 to \$4.70; \$4.30 \$6.25;

\$6.40;

hothouse.

his name upon the title-page.

Swedenborgian in creed.

mixed,

\$6.65; 40 to \$6.25 \$6.25 \$5 to rlings, \$4.15; \$1.50

ets. steers, lambs, pound; 2c. per

broken or sale n, Lenquality as we

assard, , Ont.;

stown,

renew Advoalong a wide having Cotsed from vigor

much; he is not impressionistic enough; he is too photographic. When one thinks of those who have Again, he dwells too intensely on trifles, as in "Fennel and Rue," in bridged over the gap lying between the group of American men of letters which the reader can scarce but feel that here, truly, are many words who died out with Holmes, and the present, one inevitably thinks of William Dean Howells. Mark Twain about nothing; or he permits his characters to indulge in a sort of and Walt Whitman were not of that introspectiveness that magnifies, a ilk, nor Joaquin Miller; they were kind of infernal juggle of the morbid conscience," as did Dr. Faulkner in "A Shadow of a Dream." Everynot academic; their claim to eminence rests upon bases which owed little or nothing, comparatively, to where, however, there is a pervading the schools, a native strength and cleverness; everywhere an exceeding fearlessness, and a genius for thought delicacy and fineness of taste; often and expression, developed under far there are touches of a dainty and different, far cruder, if, perhaps, more wholly charming humor. As one reads on, too, one descries, here and powerful influences. So be it. The crisp, wild apple, the clambering there, evidences that the writer is grape of the woods have their own becoming occupied more and more savor and their own lovers, as have with the serious problems of life. One the trellis-trained peaches of the perceives that he is perplexed and troubled by the wrongs of the world, the injustices and incongruities that Of nearer kin to Longfellow, Lowell and Holmes, then, is William Dean all who think must see, the mysteries Howells (Hon. D. Litt., Oxon), who, of the conflict between labor and from the most classic ground in capital, the pity of it that so many America, Boston, still sends forth men and women must struggle and die without ever having "had a from time to time essays and books which are sufficiently recommended by chance." And then, if one is conversant with the theories and judg-Dr. Howells was born at Martin's ments of the eminent men of the past who have striven to turn the Ferry, Ohio, March 1st, 1837, the son of a printer and journalist, of social disorder into better channels, one begins to see the influence of Welsh Quaker descent, though a Swedenborgian in creed. During his More, of Ruskin, of William Morris, boyhood the future novelist and esand Count Tolstoi; and so one is not surprised to find that at last Dr. sayist had very little schooling. At eleven he began to work as com-Howells launches forth into a dream positor under his father, but he was, as he says, "self-taught," and later in life he overtook the academic of a Utopia of his own, first attacking existing conditions in "A Trav-eller from Altruria," then outlining others more millenial in "Through training he had missed, making out

the Eye of the Needle." To many, these books of Socialistic (quite " Christian Socialist ") flavor will appeal most; yet others will be attracted by the lighter novels, with their intensive descriptions, contra-dictory women, and men of fine conscience and sometimes ultra-gentlemanly nerves; but there will still remain a goodly number of volumes that will be regarded by many as the cream of Dr. Howells' writings, his delightful books of essays and travel, two volumes on "Venetian Life," "Tuscan Cities," "Modern Italian Poets," "Criticism and Fic-" Impressions and Experition," "Impressions and Experi-ences," "Literary Friends and Ac-quaintances," "Letters Home," "Heroines of Fiction," "Literature and Life," "Certain Delightful Eng-lich Toward " "My Mark Towain" lish Towns," " My Mark Twain." Whatever one's preference, one must feel that William Dean Howells has tried not to live in vain. tried to turn the ideals of the people of this continent to higher things. "They " (Americans), he says, " are purely commercial, and the thing that cannot be bought and sold has logically no place in their life." With the few others among preachers, artists, writers, musicians and humanitarians generally, who have seen the vision of things which, without money value, are yet worth while. he has attempted to stem the tide of a gross commercialism. As we look at these men, they seem to us like a few solitary piles, sturdily, vet futilely standing in the way of an overwhelming flood. One wonders if, in some far future age, their lives will bear fruit, or whether the flood will, of sheer self-disgust, turn voluntarily from the high-tide and ebb back to samer, and simpler, and sweeter things. But one cannot foresee, one cannot foretell. May we close by a short quotation

Sometimes in these novels Dr. from an eminent critic. On the pub-Howells misses the true artistic lication of "Delightful English touch by the mere fault of telling too much; he is not impressionistic New York Times: "Mr. Howells' earlier reputation has given him just place in the forefront of literature of our country, but now must come the conviction that he stands very near to the best in any country. His kinship to Henry James, to Walter Pater, is unmistakable in the rich unfolding of his art, the absolute re-pose of style, which is the highest art, and which bears so subtle a relation to the deeply psychological mind." Yet, is it not just possible that

the influence of Dr. Howell's social ideals may live when his style, his art, and his psychological studies have been well-nigh forgotten?

#### On Dress.

[From "Through the Eye of the Needle," by William Dean Howells. Mrs. Homos writes to a friend in New

York, from Altruria.]

Of course, there was the greatest curiosity to know what Aristides' wife looked like, as well as sounded like; he had written out about our engagement before I broke it; and my clothes were of as much interest as myself, or more. You know, I had purposely left my latest Paris things behind, so as to come as simply as possible to the simple life of Altruria, but still with my big leg-of-mutton sleeves, and my picture-hat, and my pinched waist, I felt perfectly grotesque, and I have no doubt I looked it. They had never seen a lady from the capitalistic world before, but only now and then a whaling-captain's wife who had come ashore; and I knew they were burning to examine my smart clothes down to the last button and bit of braid. I had on the short skirts of last year, and I could feel ten thousand eyes fastened on my high-heeled boots, which, you know, I never went to extremes in. I confess my face burned a little, to realize what a scarecrow I must look, when I glanced around at those Altrurian spoke particularly about life in Palestine glanced around at those Artitutian spoke particularly about me in relecting women, whose pretty, classic fash-ions made the whole place like a field of lilacs and irises, and knew that they were as comfortable as they were beautiful. Do you remember some of the descriptions of the undergraduate maidens in the "Princess "-I know you had it at school where they are sitting in the palace The effect was halls together ? something like that. You may be sure that I got out of my things as soon as I could borrow an Altrurian costume, and now my Paris confections are already hung up for monuments, as Richard III. says, in the Capitalistic Museum, where people from the outlying regions may come and study them as object-lessons in what not to wear. You may think this was rather hard on me, and at first it did seem pretty intimate, having my things in a long glass case, and it gave me a shock to see them, as if it had been my ghost, whenever I passed them. But the fact is I was more ashamed than hurt-they were so ugly and stupid and useless. could have borne my Paris dress and my picture-hat if it had not been for those ridiculous high-heeled, pointedtoe shoes, which the Curators had stood at the bottom of the skirts. They looked the most frantic things you can imagine, and the mere sight of them made my poor feet ache in now; when once you have put on sides, she seemed to make such a pretence

sandals, you say good-bye and goodriddance to shoes. In a single month my feet have grown almost a tenth as large again as they were, and my friends here encourage me to believe that they will yet measure nearly the classic size, though, as you know, I am not in my first youth, and can't expect them to do miracles.

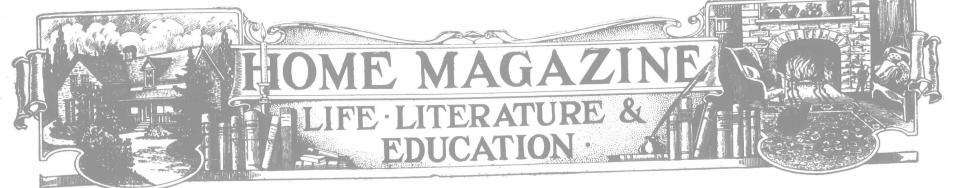
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. The shopping here is not so enslaving as it is with us-I mean, with you-because the fashions do not change, and you get things only when you need them, not when you want them, or when other people think you do. The costume was fixed long ago, when the Altrurian era began, by a commission of artists, and it would be considered very bad form, as well as bad morals, to try changing it in the least. People are allowed to choose their own colors, but if one goes very wrong, or so far wrong as to offend the pub-lic taste, she is gently admonished by the local art commission; if she insists, they let her have her own way, but she seldom wants it when she knows that people think her a fright. Of course, the costume is modified somewhat for the age and shape of the wearer, but this is not so often as you might think. There are no very lean or very stout people, though there are old and young, just as there are with us. But the Altrurians keep young very much longer than capitalistic peoples do, and the life of work keeps down their weight. You know, I used to incline a little to over-plumpness. I have lost at least twenty-five pounds from working outdoors, and travelling so much, and living very, very simply.

# Hope's Quiet Hour.

### Oriental Customs.

Yesterday I had the pleasure of hearing a Christian Jewess talk about the customs of the dwellers in the East. She



THE FARMER'S ADVOCATE.

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parties Nope," ng misu earn n' parook me the purely literary life, contributing to the New York Tribune, Times, and Nation, and filling the position of editor of the Atlantic Monthly during 1872-1881.

to attend Yale and Harvard, and

finally graduating with the degree of

At twenty-one he made his first effort in journalism, and a "Life of Abraham Lincoln," written in 1860,

won for him the post of American

Consul at Venice. At the end of

his term there he plunged again into

At the age of thirty-four he published his first novel, "Their Wedding Journey," which became at once popular, not so much, perhaps, because of its eloquence of language and literary style as because of its very local interest; everyone in Eastern America was ready to read so faithful a description of a trip from Boston to New York, thence to Niagara, and by St. Lawrence to Quebec, undertaken under such interesting circumstances as was that of Basil The next voland Mrs. March. . . The next vor ume, "A Chance Acquaintance," which is rather more cleverly evolved,

covers the same ground. In rapid succession-for Dr. Howells has ever been one of the most prolific of writers—appeared "A Foregone Conclusion," "A Counter-feit Presentiment," "The Lady of feit Presentiment," "The Lady of the Aroostook," "The Undiscovered Country," "Dr. Breen's Practice," A Woman's Reason," "The Rise of Silas Lapham "-in which appears some of Dr. Howell's best work, Jazard of New Fortunes "-in which Basil March and his wife are carried Basil March and his wife are brough an interesting journalistic chrough an interestion, "An in-enterprise in New York, "An in-dian Summer," "Annie Kilburn," Dian Summer," "An Open-Rogered Diagonal Chance," "An Open-"The World of Chance," " An Open-eved Conspiracy," "The Ragged Lady," "Their Silver Wedding Jour-ney," "The Quality of Mercy," and thers.

people are exactly the same as they were two or three thousand years ago-or even longer. I will try to remember some of the interesting things I learned, so that you also may have a chance to know about them. I will not try to repeat the exact words of Miss Ben-Oliel, but will picture things as she showed them

to us. Four men, supposed to be blind and dressed to represent the part, walked carefully along. The first-an old man with long experience of blindness-groped his way. The next walked more confidently, with his hands on the shoulders of the leader. Behind him came another Then the leader stumbled and another. and fell, and all four tumbled in a heap on the platform. Blind men in Eastern countries often walk like this, so our Lord was using a familiar scene to illustrate his spiritual teaching when He said that "blind leaders of the blind" were unsafe guides.

There has been considerable discussion about the character of Jael, the woman who stole to the side of Sisera as he lay asleep in her tent, and killed him by driving the tent-peg into his temples. It seems to us to have been an act of treachery, utterly foreign to our ideas of desert hospitality; and yet Deborah, the prophetess, said that Jael should be blessed "above women in the tent." Beof welcoming the weary general, for when he asked only for water, she gave him milk. But a knowledge of Arab ways throws considerable light on the matter. Sisera came to Jael's tent-the tent of a woman. That was a crime which was punishable by death, as he very well knew. He asked for water, and if Jael had given it to him, she would have bound herself in a covenant of friendship, so that she could not have killed him. She avoided the "water covenant," and offered sour milk or buttermilk, which has a marvellous power of making people sleep. Then she took a strong, sharpened wooden stake, used for a tent-peg, and the stone mallet which looked almost heavy enough to kill an ox, and, with marvellous daring, struck the blow which destroyed a hated foe. If the men of her own people had found Sisera in her tent, they would have killed him and her too. It was probably as much an act of self - defence as the killing of a sleeping lion; and she was a "woman in the tent," not a Christian. We, who have Christ for our Guide, have a far higher ideal of the treatment of an enemy, and can never be judged by the same standard as Jael.

If a man of the desert is chased by enemies, and is trying to reach sanctuary, he may find it impossible to reach the holy place where he will be safe from pursuit. Then he may call loudly the name of some great chieftain, demanding his protection. If the chief is within reach, he is bound to call his men to his side and hurry out to the defence of the man who had implored his aid. If he hears afterwards that the man has called on him, even at the point of death, he is bound to avenge him, even though the dead man may have had no claim on him-for the honor of his own great name. This explains many Scriptural references to the Great Name of God.

"Some trust in chariots, and some in horses: but we will remember the Name of the LORD our God." If the name of an Arab chief could save one who called on him in time of danger, how safe we must be when we call on the Name that is above every name, "for there is none other name under heaven given among men, whereby we must be saved." To call on the name of an Arab chief is to make him a strong friend, even though he might be an enemy before. So God said that Israel would deal very treacherously with Him, but "For My Name's sake will I defer Mine anger."-Isa. 48: 9. Though His people were rebellious and disobedient, yet He saved them. Why? He says: "I wrought for My Name's sake, that it should not be polluted before the hea-

The desert tribes have three covenantsthe covenant of water, the covenant of bread and the covenant of blood. One who drinks water with another is his friend for a short time, to eat bread with ther will bind you in a friendship lasting about forty years, but the blood covenant is the strongest pledge of fellowship possible. No wonder the Samaritan woman was amazed to hear a Jew ask her for a drink of water. There was a condition of perpetual hatred existing between Jews and Samaritans; yet this Man was offering her His friendship, although He knew her degraded character as well as her race. God linked the Israelites in a bond of friendship with Himself by all three covenants. In the Court of the Tabernacle was the laver for cleansing, offering the covenant of water. In the Holy Place was the table of shewbread, whereby they were drawn into still closer fellowship with Jehovah. In the Holy of Holies the blood was sprinkled once a year, as a token that His love for His people was so strong that nothing could destroy it. So also in the Christian Church we are linked to God in the water covenant of Baptism; and then drawn close to His Heart as we partake of the Bread which came down from heaven for the life of the world, and drink of the cop which the King Himself offers to each, saying "Drink ye all of it; for this is My blood of the covenant."-S. Matt. vvvi: 28 R.V. One who eats a meal with anot entered into such a holy bond of to ship that he is in honor bound none of his secrets. They are ' and must show perfect confidence in other. This throws light on that w derful story of Abraham's hospitality to strangers, when he "entertained angels

## THE FARMER'S ADVOCATE.

After the three mysterious unawares." strangers had eaten of the choicest food of her love for him. Over all was a he could offer, the LORD said, "Shall I hide from Abraham that thing which I do." So, also, when the Risen Lord was walking with two disciples to Emmaus. He hid His identity from them. But, when He was eating with them in their home, as soon as he had broken the bread and given it to them, their eyes were opened and they knew Him. Their Friend could not eat with them and withhold His confidence. Then, when He provided breakfast for seven weary fishermen on the shore one morning, He revealed to one of them the manner of His death. Is it strange that in "the breaking of the Bread'' we find God ready to manifest Himself to His friends?

When Judas was meditating treachery against his Master, a token of tenderest fellowship was given to him, to win him back to loyalty. When the Lord dipped the sop and put it between the lips of the false apostle, He was calling him "Friend" in the most solemn and sacred way. How could Judas go out after that and complete his terrible covenant with Satan? No wonder St. Paul says: "Ye cannot drink the cup of the Lord, and the cup of devils; ye cannot be partakers of the Lord's table, and of the table of devils."

jewel which she wore over her heart spoke veil-also the gift of the bridegroomwhich shut out all others. He only had the right to lift it. The bride had thought about the bridegroom constantly and had heard much of him. She loved him, though she had not yet seen him. So also the Church learns to love Christ while she is busy adorning herself with the gifts He sends to her through the Holy Spirit-the manifold gifts of grace. She prizes the gifts for their great value, and also because they are love tokens from the Bridegroom who is still invisi-She thinks of Him and speaks of ble. Him, listens to His voice, serves Him, and goes where He bids her, and deep in her heart is a growing love for the One who is altogether lovely. Because He is without spot of sin, she is always hungering and thirsting after righteousness. She knows that when at last the cry is heard : "Behold, the Bridegroom cometh!" He wants to "present her to Himself a glorious Church, not having spot, or wrinkle, or any such thing."

We are members of the Church, the Bride of Christ. Is He pleased with the way we are preparing for His coming? we joyously conscious that He is ith us always, though unseen? We ought to be able to say :



I heard a talk on birds a couple of weeks ago, given by a man who knows a great deal about them, and who loves them so much that in summer mornings he often starts out at four o'clock in the morning to listen to them, and see what they are about. He usually goes on his bicycle, carrying a field-glass to watch them through, and he has learned to sit so still out in the fields and woods that the birds lose all fear of him, and come quite close, so that he can observe their actions and coloring with very little trouble. There are trees opposite the dining-room window of his house, too. and here he keeps scraps of suct and other food that birds like, hanging, so that all the year round, even in winter, he has feathered visitors every day.

I wish you could have been with me to hear his talk about it all,-but then there would scarcely have been room for us all in the big hall, would there? I am sure you would have gone out feeling that you loved the birds more than ever before, and that you must more than ever before try to encourage and protect them.

Of course, you and I know that birds are about the most useful friends the farmers have, and that if all the birds were killed, our war against insects would be twice as hard. Nearly all birds eat insects, and so help to keep the troublesome pests down. But there are other reasons besides this for our protecting them.

Have you ever thought what a dull, cheerless old world this would be if there were no birds to sing to us?-no bright, quick wings to flash in and out among the trees?-no interesting little nests cuddled in the grass, or swinging from the trees ?

And then our very sympathy for the birds in their hard life should teach us to love and care for them more:-this brings me to what the man of whom I have been telling you said. He told us especially of the long, tiresome journey the little things have in coming to us every year, and in going away from us in the fall again. It is no Pullmancoach journey they have. Think of iteach two little wings beating their way over hundreds of miles, sometimes thousands (always at night, as the birds feed and rest during the day), beset by dangers of storms, and cruel men and boys with guns, and cats, and large birds of prey, and, worst of all, the network of telephone and other wires against which so many little travellers fly and are killed ! What a longing there must be in the little hearts which keeps them going on, on in the face of everything, until they finally find peace in the old nestingplace, perhaps in your orchard, or your woods, or beside your window ! How do they find their way so well ?- for it has been proven many times that, if they escape the dangers on all sides, they really to come back to the same old nesting-



#### The Hepatica.

Judas only received the outward sign, shutting his heart against the inward grace.

Women of the desert, unlike most Oriental women, have the right to say "No" if a man makes an offer of marriage. So we find that when the servant of Abraham wanted Rebekah for a wife for his master's son, her brother and mother said unto her: "Wilt thou go with this man?" And she said, "I will

When a man is walking at night, he holds a dim lantern which only reveals the road close to his feet. He can see to take the next step, but that is all. Is not that enough ? We never have to take more than one step at a time, and if we know our duty to-day, we can trust God to make to-morrow's duty clear when we come to it. So we always find the truth of the Psalmist's great saying : Thy word is a lamp unto my feet, and

More Proposed on the way a solution with jewels, the gift to fore he came to her. der significance. minder her that

the nose-ring was a reon to him, and conds, the

Through each labor, like a thread of gold,

woven the sweet consciousness of Thee.'

DORA FARNCOMB.

## The Beaver Circle.

#### Senior Beavers.

For all contributors between the ages of ten and sixteen, inclusive, who are in Fourth Book, Continuation Classes or who have left school; also for those of ten years who have passed the Third

Dear Beavers .- Although there are still about thirty or forty letters on hand, I feel that I must crowd them out for yet another week, because I want to talk to you all for a little while myself.

At this time of the year, I suppose nearly all of you are more or less interested in birds-the dear little fellows that come flying along, hopping about, and calling to us all, "Cheer up ! Cheer up ! Spring is here ! Don't you be a lazy lie-a-bed these fine spring mornings. Get up and see how fine everything is out-ofthe must doors." - Don't you imagine they sing something like that sometimes?

place, year after year.

Birds seem very happy, yet our lecturer told us that out of every nest of young birds, only about one lives to come back as an old, grown-up bird. Something cruel happens to all the rest. Indeed, the whole life of a bird is filled with fear. He knows he has enemies on every side, and so he keeps watching about with his bright little eyes all the time, turning his little head even while he is feeding, to see if anything has designs on his life. Now, don't you think we should not add to his fear, but that we should try to let him understand that we, at least, will never hurt him ?

Most of our Eastern birds, the lecturer told us, come up from South America, or the West Indies, in the spring. They use the West Indies as stepping-stones, then cross the Strait to Florida, thence spreading out over the United States and on up here into Canada.

It seems strange that the United States Government does not pass a law prohibiting the slaughter of them in the Southern States, where, it is said, thousands of robins and meadowlarks fall every year before the guns of wickedly thoughtless pot-hunters, while the more brilliantlycolored ones are murdered for millinery purposes. Twenty or more years ago, the red soldier bird was not at all rare in Canada; now one is scarcely ever seen, all because foolish women chose to think that little dead bodies of birds improved their hats !

You will be glad to know, however,

#### 1866

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## APRIL 27, 1911

for the protection of our little friends. In New York State, and I believe in some of the other States, heavy fines are imof the other state, and be bodies little on the green side—and let robin in Belgium and Germany studying the or wings of song-birds or using them on live hats.

The Audubon Society, named for Audubon, the great American bird-student, is also being extended in all parts of the world, and a National Association of Audubon Societies has been formed, which will hold conventions, and form plans for uniform protection of birds throughout the world.

May I quote you a passage from New York Independent about this work ? It was written for grown-up folk, but I think the great majority of you will be but it seems fitting to-day.] able to understand it all right :

#### PROTECTION OF BIRDS.

"The National Association of Audubon Societies will present to the Ornithological -Congress, to be held in Berlin on May 30, a plan for uniform protection of birds throughout the world against that heartless army of poachers that supply our millinery markets. Accordingly, an agreement is undertaken between the United States and Canada and Mexico, to protect the migratory birds of this continent. It seems that our robins, during their passage across Tennessee and Kentucky, are shot by the wholesale. The slaughter is so great that the birds are peddled at ten cents a dozen. It needs an alliance of the States, as well as State laws; and the international undertaking is rational. Recently, ten tons of the feathers of valuable Pacific species, with the skins and wings of over two hundred and fifty thousand birds, have been recovered by one of our revenue cutters from Japanese poachers. The value of the birds destroyed can hardly be estimated in figures, although it is calculated to be at least a million dollars. William Dutcher, President of the National Audubon Societies, reports that the bird of paradise is very close to extinction. This kind of work calls for an international co-operation, and it should be easily secured. Our migratory birds should be protected to the limit of law in their passage to and from their nesting homes. It would probably help somewhat to divert sentiment from war and war preparations if we entered more fully into industrial measures of cooperation, such as are proposed. Migratory birds of the very highest value to agriculture are being so rapidly thinned as to cause alarm to the Northern farmer. This matter does not affect our crops only, but as most of these birds do more or less scavengering, their destruction means increased disease and pestilence."

Now, I suppose you will want to know what YOU can do personally, to help the birds.

\* \* \* \*

First of all, can you not form little "Protection of Birds and

## THE FARMER'S ADVOCATE.

furnish food for both summer and winter excuse me if I have made any mistakes. birds.

#### \* \* \* \*

By the way, how many of you have found hepaticas this spring?

#### The Letter Box.

#### A Young Bird-lover.

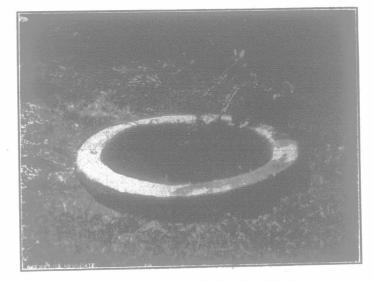
[This letter was received in February,

that steps are being taken in some places birds may cat a few of the cherries, they tens, but as we have a big dog, my make up for it by eating insect pests all mother will not allow me to keep a cat. the year long. Pick your cherries early- I am still visiting a school close by here, they preserve quite as well if gathered a but for the four last years I have been away languages there, so I am afraid my Eng-Also, plant sunflowers and millet, which lish is not very good, and hope you will MURIEL PIENS (age 12).

North Finchley, London, Eng.

Won't you please write us a letter about Belgium or Germany, Muriel?

Dear Puck and Beavers,-I live on Point Pelee. It is the farthest point south on the mainland of Canada. The Indians used to live here, and their bones are found in great numbers. There are many birds that come in the summer, and some



#### Cement Drinking Basin for Birds.

Almost any boy could make a basin like this, with graduated floor, down which the birds can walk to drink. Owing to the danger from cats, however, drinking basins are better placed on posts.

Dear Puck and Beavers,-I have written stay in the winter. The different kinds twice before, so I thought I would write again. My father has taken "The Farmer's Advocate'' for over two years, and thinks it such a nice paper. I like this little corner very much. Don't you think it is nice to have the birds around you ? I do; and there is a flock of snow birds of good. I hope some of the Beavers beauty, the violet, Mayflower, lilies, colaround here just now, and they do a lot

of species found are about two hundred in number. The Point is very beautiful in both sum-mer and winter. The cedars, pine and

junipers, are very green now. In the spring, the walnut, hickory, hackberry, elm and oak, come out in green leaves. The flowers are also very pretty; the spring



causing it, but as I could not see anything, I carried the piece of earth to the light, but I could not see anything. I know it was not the light shining through a crevice, for I could move it. The next time I come across one, I will keep it and examine it closely. Would you try and find out what it is and let me know, as I like to study nature. I know this is almost too long already, so I will close DAVID BROWN no₩.

#### (Age 12, Book IV.).

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The light was probably caused by a sort of phosphorescent substance, generated by decaying vegetable matter, and similar to the "punk" of damp, rotting logs, which is often seen to glow with a pale green light after dark,

Dear Puck and Beavers,-This is my first letter to the Circle. Mr. Stockdale takes "The Farmer's Advocate." I am an orphan who came out from England four years ago. My mother and father are both dead, so I live with Mr. and Mrs. Stockdale. I hope to see this in print. We had four cats; one ran away and didn't come back, so we only have three. For pets I have four calves; their names are Beauty and Rose, and Daisy and Spot. I have a pet dog; his name is Pup; he is a playful dog. We have three horses; their names are Queen, Lady, and Frank. We have about forty cows. I. am in the Fourth Book. We have a big orchard; lots of apple trees. OLIVE SMITH.

Bridgeburg P. O., Ont.

You are very welcome to our Circle, little English girl.

#### Beaver Circle Notes.

Marion McNair, Birr, Ont., tells us that her school has a library of 50 books. concert was held to get money to add to the books. Gordon Barnes, Alvinston, Ont., writes of a library of 70 books.

Mamie Munro (age 10), Winchester Springs, Ont., would like Maenard Grey or Alvaretta Killough to correspond with her. Madeleine Driscoll (age 11), Brinston, Ont., would also like correspondents. Dell Ramsay (age 12), Hyde Park, has made a very good choice of books. Her favorites are, "The Biography of a Silver Fox," "Black Beauty," "Beautiful Joe,"

and "Tom Brown's Schooldays." Have you found any hepaticas yet. Don't pluck too many. Leave plenty to seed for next year's plants.

### Hospital Nursing at Home

By Elizabeth Robinson Scovil, Graduate of the Massachusetts General Hospital, Boston.

NURSING THE SICK CHILD.

In the case of serious illness, when it is impossible to procure the services of a trained nurse, the care of the child falls upon the friends at home. The hospital nurse has been taught the easiest

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Societies for the Kindness to Animals" in your own schools? You could elect President, Vice-President, and Secretary, among your school-mates, and hold regular meetings once or twice a month, at which recitations, readings and compositions about birds and animals could be read. If you do this, and wish to subscribe to a little paper wholly given up to this work, I can give you the address.

\* \* \* \*

Again, can you not coax the birds to nest about your homes and schools, by putting up little bird-boxes (always facing south or west, if possible), by scattering crumbs on bare places when food is scarce, and putting up shallow drinkingpans on posts. You can keep cats from getting up trees or posts to nests or drinking-pans, by nailing a broad sheet of tin at some distance below, so that, although the cat may get up to the tin, it simply can't get past it. (See what Mr. Saunders says about bird-boxes, page .001, April 6th issue.)

You can coax the birds about, too, by anging bits of string and cotton rag on ranches, and by planting wild cherries, arberry, Juneberry, elderberry, mulberry rees, etc., about your orchard fences. he birds love the fruit of these trees. and will leave the large, cultivated fruits. my time to go to them.

about it. Remember that, although the much, and especially the dear little kit-

#### A Wren House.

Note the hole just large enough for a wren to enter. This box was put up in a city back yard. Just two days later the wrens found it.

will close now, hoping to see this in

CLARENCE T. FITZ RANDOLPH print. (Age 10, Book IV.).

Bridgetown, N. S.

Dear Puck,-This is the first letter that I am writing to you, and I hope you will Even if, however, a few robins and publish it. I have a brother in Canada, cherry birds should go into your good and he likes it immensely. We get your herry trees this year, don't get excited newspaper from him. I like cats very

will write to this little Circle more. I umbine, and lady's-slipper, are found here. I live just across from the school, and

am in the Fourth Book. WINNIE TILDEN (age 12, Book IV.).

Dear Puck,--This is my first letter to your Circle. I live on a farm, and my father is a stock-breeder. I have written to ask you a question to which I would like to have an answer. The other night as I was in our root-cellar, I came upon a tiny light among the earth. I got down and looked for something that was

and best way to do certain things for the sick.

Anyone can learn enough of the art of nursing-which Florence Nightingale called "one of the fine arts"-to add very greatly to the comfort of the patient, even if she is unable to take a hospital course.

It is hoped in these papers to give a few plain directions which will add to the comfort of the patient, and lighten the labors of the nurse.

#### THE CHILD IN BED.

In a severe case of measles, mumps, or scarlet fever, chilling the body is especially to be avoided, and yet the clothing must be changed, baths given, and many other things done without the exposure which might be fatal.

It is not necessary to move a child from one bed to another to change the sheets in which he is lying, nor to uncover him to exchange his soiled nightgown for a clean one.

A sponge bath can be given in bed without exposing an inch of the surface of the body to the air.

Cotton clothing to be used about a sick-bed should always be aired and warmed before using. If necessary, it can be wrapped in a blanket to retain the warmth while it is being brought to the bedside.

#### CHANGING THE SHEETS.

When putting on a fresh sheet, first

move the pillow to one side of the bed, and lift the child over to that side of the bed. Loosen the under sheet all round and push it towards the child, leaving one-half the mattress clear. Roll the clean sheet sideways for half its width and lay it on the cleared space, with the rolled part towards the child. Tuck the free side under the side of the mattress, making it smooth. Lift the child over the roll and the folds of the soiled sheet on to the clean sheet. Go around the other side of the bed, pull off the soiled sheet, unroll the fresh one, and tuck it firmly under the mattress at the side, foot and head.

The upper bedclothes must be kept wrapped round the child during the process.

To change the top sheet, straighten the clothes, remove the spread and lay the clean sheet over the upper blanket. If the child is old enough, and not too ill, it will amuse him to hold the upper edge while you work. Otherwise, pin it to the pillow on each side the child. Standing at the foot of the bed, draw out the blanket and lay it on top of the clean sheet. If there is a second blanket, do the same with it. Lastly, draw out the soiled top sheet, unpin the clean one from the pillow, and tuck it under the foot of the mattress.

Unless a child is very restless, it is best not to tuck the upper bedclothes in at the sides.

If properly done, both sheets have been changed without the patient having been exposed in the least.

TO CHANGE THE MATTRESS.

Sometimes it is necessary to turn the mattress, or to replace it with a fresh one. If the child is too ill to be moved from the bed, procure two long, stout sticks, fold the upper bedclothes towards him, keeping him covered. Loosen the under sheet, and roll each side around one of the sticks, forming a kind of litter. One person standing at the head of the bed, and another at the foot, can lift the patient in this litter by taking hold of the ends of the sticks, and hold him suspended comfortably while a third person turns the mattress, or changes it for another, if necessary. The under sheet is easily arranged again when he is laid down

#### TO PROTECT THE BED.

14

A square of rubber cloth, stork sheeting, or even white table oilcloth, can be placed in a sheet folded lengthwise, laid across the middle of the bed tucked firmly under the mattress on each side. This draw sheet, as it is called, can be easily rolled up and changed without disturbing the under sheet.

To do it, the child is moved to one side of the bed, and the fresh draw sheet rolled and laid on the cleared space, as already described.

If the child is very ill, or for any reason cannot easily be moved, it is best to open the nightdress all the way down the front, and put it on with the opening towards the back, like a child's apron. It is always troublesome to change an undershirt, which is sure to be more or less close fitting. A little flannel, or flannelette, jacket can be worn instead, and, in case of necessity, can be put on,

hind. As a sick child takes cold easily, he should not be allowed to sit up in bed without some extra protection. A little shawl pinned under the chin and across the chest, or a jacket with large, loose sleeves, easily slipped on and off, will prevent a chill.

like the nightdress, with the opening be-

#### "The Farmer's Advocate" Fashions.

5694 Sun Bonnets in Two Styles,

Women's Misses'

and Children's.



6334 Sun Bonnet and Lingerie Hat. Womens', Misses', and Children's.



## The Ingle Nook.

[Rules for correspondents in this and other Departments: (1) Kindly write on one side of paper only. (2) Always send name and ad-dress with communications. If pen-name is also dress with communications. If pen-name is also given, the real name will not be published. (3) When enclosing a letter to be forwarded to given, anyone, place it in stamped envelope ready to be sent on. (4) Allow one month, in this department, for answers to questions to appear.]

#### Garden Affairs-Warble

Taking it for granted that all "The Farmer's Advocate'' women are interested in either the making or directing the making, of a garden, it occurred to me that perhaps some of my experience and methods might be of use to someone else, and that telling them might inspire someone else to write something to "The Farmer's Advocate' that would be of use to me.

To begin with, my garden is always alongside the mangel or potato patch, in rows of the same length, for the sake of convenience in scuffling. I find that my vines do just as well in the long row as in hills, and scuffling gives plenty of fine, loose earth to draw up around them. Just here, I will give my method of getting rid of striped beetle. I have used this remedy successfully for years, and have known it to banish that other frisky beetle, whose chief characteristics are length of legs and strength of odor. Take potato peelings, enough to half-fill a pail, fill up with water and let stand till it ferments-let it bubble up wellthen half-fill the watering can with this potato water, fill up with clear water, and sprinkle the vines in the evening. I don't know whether this acts also as a fertilizer, but I know the vines have a much more thrifty appearance after a few applications. Care must be taken not to have this mixture too strong. I have been told it will also banish insect pests from roses.

Last year, I had quite an experience with my tomatoes. Through various causes, I lost most of my finest early plants, and had to replace them with Dwarf Champion plants about five or six inches high. Dry weather came on, and, though I hoed faithfully, those plants did not seem to intend making another leaf. I was quite discouraged, and told the good-man of the house that he might scuffle them up and put something else in that would grow; but he didn't see it quite that way. Instead of throwing them out, he scuffled between the rows, early every morning, for over a week (he is very fond of tomatoes, by the way), and those plants just grew like

#### FOUNDED 1866

would try my method of prevention and write results to "The Farmer's Advocate." I take a pail of salt, and add enough water to make it barely drip. Rub the backs of the cows and young cattle with this wet salt once a week (or oftener, if it rains), during the time the warble fly gets in his work, and let us know how it works for you. We have used it for years, and have scarcely a grub to kill. I think I saw this remedy, first, a long time ago, in "The Farmer's Advocate," but people seem to have forgotten it, though, like the potato water for beetles. it has several recommendations-it is easily obtained, easily applied, is cheap A. M. B. and effective. Middlesex Co., Ont.

Very many thanks, A. M. B., for your most useful letter. Thanks also to "A Busy Mother," and all others who be-

lieve in "passing a good thing on."

#### Crack-filler.

Will someone please give me a recipe for a crack-filler for an old floor? The boards in some of my floors have become shrunken, and the result is that there are large cracks. I have tried filling them with putty and then painting them, but I find that the putty comes out in a few A SUBSCRIBER. months.

Method 1 .- Put any quantity of fine sawdust, of the same kind of wood as the floor, if possible, into an earthen pan and pour boiling water on it. Stir well and let remain for a week, stirring occasionally. Next boil it for some time, until it becomes somewhat of the consistency of pulp. Now, put it in a coarse cloth and squeeze the moisture from it, and keep for use. When wanted, mix some of it with enough thin glue to make it into a paste, and press well into the cracks. Method 2.-Soak newspapers in paste made of 1 lb. flour, 3 quarts water, 1 tablespoon alum boiled thick. Add shredded newspapers until the mixture is about like putty, press into the cracks. let dry thoroughly, then paint the floor.

#### How to Make a Dress.

This question has been asked by several. In reply, would say that the very best plan is to watch the fashion patterns, or to buy a good fashion paper and select from it. It is well, always, to choose rather simple designs. One does not tire of them so quickly, and they do not  $\operatorname{go}$ out of fashion as soon as the more elaborate or extreme ones.

#### Cake Fillings, etc.

Dear Dame Durden,-We have taken "The Farmer's Advocate" for a number of years, and I think it a very valuable paper. Would you kindly answer the following questions

Pads may be made of several thicknesses of newspaper, with a layer of cotton waste, or any soft, absorbent material on top, and covered with cheese cloth, or old cotton. These can be burned, and save much washing.

#### CHANGING THE NIGHTDRESS.

To change the nightdress without uncovering the child, the bedclothes must be arranged to cover the chest up to the chin. Putting her hands under the clothes, the mother draws the nightdress well up under the arms, so that the child lies upon as little of it as possible. Unbuttoning it, she draws the arm nearest to her out of the sleeve, and, raising the child's shoulder from the bed, slips "the nightdress up over the shoulder and head. It is then easily drawn off the other arm.

The clean nightdress should be in readiness close at hand, warmed and aired.

One arm is put into a sheeve, the nightdress slipped over the head, the other arm put in its sleeve, and the child as aread a little to permit the fresh garment to b drawn down smoothly under him. must not be the slightest exposure is done under the bed-covering.

### SECURING THE BEDCLOTH

If the child is restless, and throws the upper coverings, a broad tape, strap of any material, may be fastened to the clothes on each side, when they are turned over and tied behind the head of the bed.

large safety pins may be used to pin measurement, a to the mattress in the same place. at least ten days

#### 6939 Shirt Waist or Blouse. 84 to 42 bust.



everything, and in the fall had bushels of fruit on them. A large proportion of the fruit ripened in the field, and we put the green tomatoes in an old spent hotbed, where, well covered, they kept ripening until cold weather.

I should like to say a word in favor of a vegetable that isn't much grown in my neighborhood-kohlrabi. We find it very nice for a change when the family is growing tired of radishes and lettuce and cress. It can be cooked in several different ways, and I think that everyone who likes turnip or cauliflower will like it.

I notice that a number of people like to plant peas at intervals to secure a succession. Now, I like to put different kinds in at the same time, so that I can see how my ground is filled, and the scuffler can have a chance to keep the ground nice. I find that Alaska, Nott's Excelsior and Telephone, give a good succession, and can be planted at the same time.

I have another habit in making my garden that people may smile at, but smiles will not bother me, nor break me of it In putting in my radish seed, I plant some gladioli bulbs near. They may as well occupy the ground when the radishes cool. are pulled, and they give such fine spikes of bloom to cut for the house. I have no room near the house for them, and I must have a few flowers.

In conclusion, there is another matter I should like to write a few words about, cake. (2) Maple Filling-Beat white of although it has nothing to do with gardening-and that is the warble. While the men are hunting a way to get rid of the grub, I wish some of the women folk - Put 6 tablespoons grated chocolate and 6

1. How should girls, fourteen and six teen years of age, wear their hair?

2. How can photos be cleaned, which have been soiled by baby fingers?

3. How can little white insects on house plants be destroyed?

4. Can you give a good recipe for cake filling ? VIVIAN.

Wellington Co., Ont.

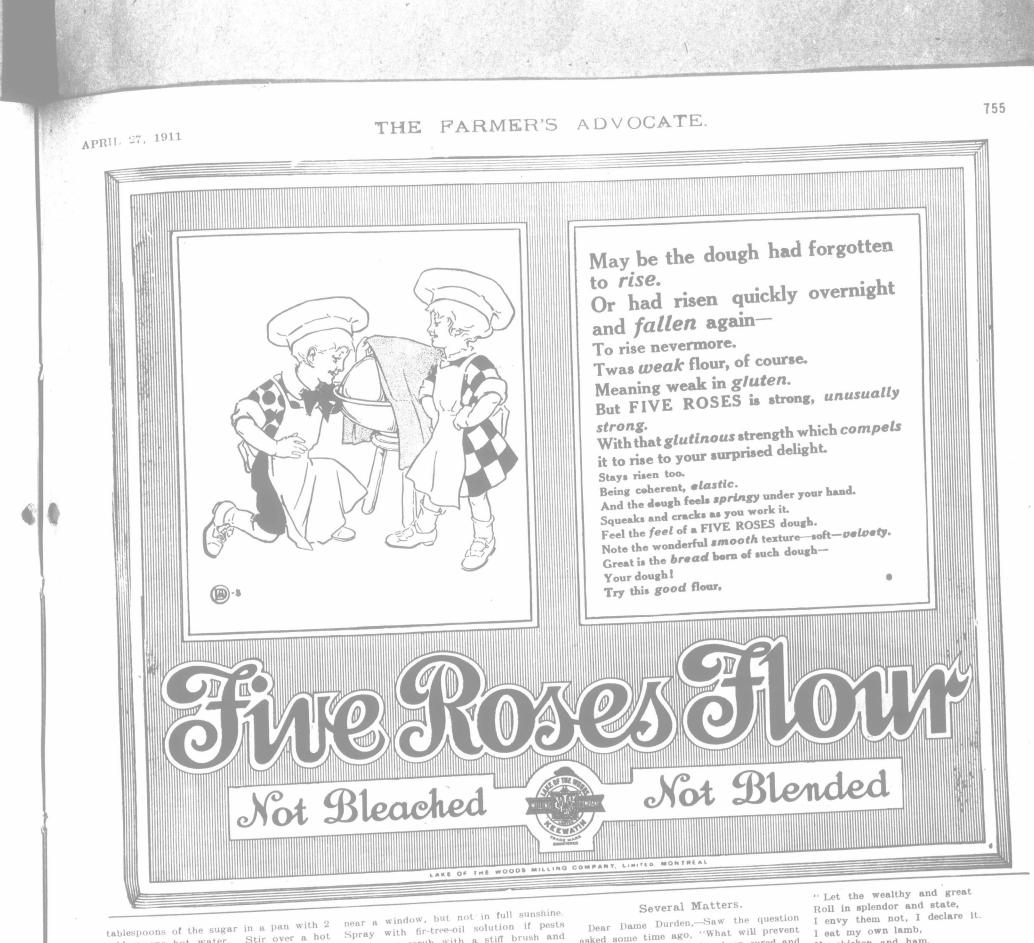
Ans.-1. This question was answered recently.

2. Try cleaning the photographs with bread crusts, rubbing the surface lightly, or with Fullen's earth, used dry. Sometimes spots may be removed by washing carefully with a soft rag, dampened in clear water.

3. Spray your plants with tobacco water, or with the following, which Ebon Rexford calls an "ideal insecticide": Shave ¿ lb. Ivory soap in thin slices, pour water over, and set on the stove to dissolve. When liquified, add 5 gallons water, and apply to the plants by spraying, or dipping with plant inverted. Mealy - bug. which looks like tiny tufts of cotton batting, may be destroyed by syringing with fir-tree-oil soap solution, 2 ounces soap to 2 gallons hot water. Apply when

4. Cake Filling.-(1) Sour Cream Filling-To 1 pint slightly sour cream, add pint sugar and the same of walnut meats. Boil for 15 minutes, remove from fire, and, when partly cool, spread on 1 egg with grated maple sugar, and add 1 teaspoon melted butter. (3) Chocolate Filling-Use 11 cups powdered sugar





1 cup granulated sugar and the white of an egg well beaten. Beat all together until light and fuffy. (3) Caramel Fill-ing-14 cups brown sugar 1 cup milk 1. Letersian Borbonian on "Fan Balm" in cups brown sugar, 1 cup milk, 1 scant tablespoon butter, vanilla to flavor. Place the milk, butter and sugar on the fire in a double-boiler, and cook until thick. Take from the fire and beat hard until stiff, then add the vanilla. (6) Fig Filling-1 lb. boiled figs chopped fine, 1 cup sugar, and 1 cup water. Boil together until smooth and thick.

tablespoons hot water. Stir over a hot Spray with fir-tree-oil solution if pests fire. Add the whites of 2 eggs beaten appear, or scrub with a stiff brush and stiff and the rest of the sugar. Beat strong soapsuds. If the yellowing of the well, and flavor with vanilla. (4) Apple foliage shows that something is the mat-Filling-Grate one large sour apple, add ter, but no insects can be found, it is

Latanica Borbonica, or "Fan Palm," is it? one of the easiest to grow. The Kentias come next, for the house. For lawn or veranda decoration, the Phœnix palm is best, as it stands sun and wind better than the other varieties.

Dear Dame Durden,-Saw the question asked some time ago, "What will prevent pork molding after it has been cured and dried?'' I wish someone will answer that I shear my own fleece and I wear it, knows something about it. Have read I have lawns, I have bowers, that borax melted in water and applied will prevent molding. Has anyone tried

Is there one who has not used Gold Here's God speed the plow, Dust in water for taking smoke and dirt Long life and success to the farmer !" off paint? I use it quite strongly. It

I envy them not, I declare it. I eat my own lamb, My chicken and ham, I have fruit, I have flowers, The birds are my morning alarmers; So, my jolly folks, now-

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Palms.

Dear Dame Durden,-Being a reader of your valuable paper, where so much information is given, I would like to get some about growing a palm. I have understood they need special care. May I ask what that need be, and also if some kinds are hardier than others?

LENORE. Halton Co., Ont.

Eben Rexford says : "To grow the palm well, it is essential that we give it good soil, good drainage, and proper care. It seems to do best in a soil of loam containing some clay. Good drainage is of the greatest importance. . . Therefore, the amateur should be sure to see that ach pot has at least 3 inches of broken crockery, brick or charcoal in the bottom of it. A layer of sphagnum or cocoa tiber over the drainage material before filling in with soil is of great benefit, as it will prevent the water from carrying down soil enough to close the cracks and crevices. Great care must be exercised as regards watering. It is a pustake to give more water while the sort pename moist. Wait until the surface appears dry, then give enough to thoroughly saturate all in the pot. Place the oalf

### Time for Supper.

Dear Dame Durden,-Having noticed a query in your columns regarding the merits and demerits of 4.30 and 5 o'clock suppers for farmers, I may say I think it is a great mistake; for, when one gets up at five, or even earlier, and is out in the fields all day in the hot, burning sun, I think it is quite time to stop at six and have tea. Then, another thing, it makes two teas, you may say, for if the men don't come in till eight or nine, or even ten, they are hungry again, and it makes more work for the women. It also spoils the pleasure of the evening, for it is the only time for the family to gather, the children being at school, and the hus-

band in the field all day. This is my first attempt at writing for your columns, but I have enjoyed reading them very much.

Waterloo Co., Ont.

## Thanks from "Enquirer."

I wish to thank the ladies who so kindly sent instructions and basket quilt patterns. f found each of them all right, although slightly different from each other. Trusting someone else may send other patterns in the future Lambton ( ... Ont.

is a cleanser. "Quizz" advocates supper at six instead I reckon if she of half-past four or five. has her dinner at half-past eleven, she has lots of time to get to the meeting and home by five o'clock. Is it not as easy to go to a meeting at one o'clock as go out to work in the hot sun at one o'clock? The trouble is, if the meeting is called for the afternoon, they don't go until supper time, and, if called for the evening, they go out at bedtime. We prefer our supper at five o'clock, the table cleared, dishes washed before milking and choring time.

Farming is a business, and farmers know that in harvest time the social part has to take a back seat. The meeting would need to be very important to interfere with the general routine of work

at this time. While resting at noon, farmers can associate with the best of writers and authors if they choose; so can the farmers' wives, and store their minds with knowledge of value; and what meeting will compare with a thorough perusal of "The Farmer's Advocate" while resting limbs and muscles? But advice is cheap; we get that often without asking for it. What we need is the kind, encouraging word, and all the help we can get. If we can say a kind word of anyone, let us say it, and keep the unkind words to ourselves. How many can repeat the "Farmer's Toast":

Lambton Co., Ont.

Will someone who has had experience with preventing pork from moulding in summer be kind enough to answer?

### Smoking Meat-Queries.

Dear Dame,-For some time I have thought of writing to the Nook, but have let other things press it aside. Someone asked for a home plan of smoking meat. I always do ours for summer use. trim and salt the hams and shoulders; if salted in brine, they must first be hung up and dried. Next I take a box or barrel and put it in the back yard and hang my meat in it. I dig a little trench about six inches deep, four inches across, and a foot long from the barrel, then I make a hole at the end of the trench to build the fire in, cover the trench so that the smoke will run into the barrel, and make the smudge of dried corn cobs if I can get them. It takes about a day to smoke it nicely. Then I either cover it over with dry salt, or hang it up in cotton bags.

For patent-leather shoes, I have found sweet cream an excellent thing. Rub it into the leather, then polish with a dry

House-cleaning time is here, and I am cloth. in a dilemma about it. My walls are all whitewashed with some kind of finish such as alabastine or friscote. Now, I

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FOUNDED 1866

coming style. Of course, when you are seventeen, you will have to think about arranging it in a more grown-up fashion.

#### Recipes.

Dear Dame Durden,-Will you allow me a corner in your Nook? Or perhaps you will think I am too young to write in the Ingle Nook, as I will not be fifteen until next month, but I want some advice about a few things, and thought perhaps you could tell me what would be a nice way for me to have a dress made, and what length? The dress is for  $m_y$  best, next winter. The material is  $nav_y$ blue poplin. What sort and color trimming would you suggest? I would like to know a nice way to do one's hairwithout curling or tongs.

Can you tell me anything that will make a stout person thinner? I am very stout, and would like to get a little thinner if possible, as I cannot get may clothes to look nice. I will send some recipes which mother has tried, and which we think are very nice.

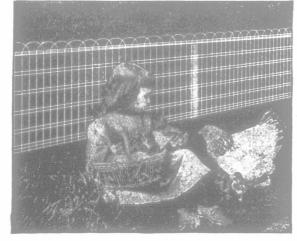
Raisin Marmalade .- Take six large cooking apples, peel them, and put them over a slow fire together with a wine glass of water and half a pound of sugar. When well stewed, split and stone 21 pounds raisins, and put them to stew with the apples, and enough water to provent burn-When all appears well dissolved, ing. beat through a strainer bowl. Put away in tumblers or small preserve jars. It is nice when eaten with cream.

French Pickle,-One quart large onions chopped, 1 quart small onions whole, 1 quart large cucumbers chopped, 1 quart small cucumbers whole, 2 cauliflowers, 1 or 2 heads celery, 3 green peppers. Pour hot salty water on them and leave till morning, then drain and put on stove with 1 gallon vinegar, 3 cups sugar, 1 ounce mustard seed, 1 ounce celery seed. Scald together, and make a paste of twothirds ounce turmeric powder. Stir in pickles slowly at boiling point

#### SWEETHEART.

Dresses for young girls should always be simple; an overdressed girl of fifteen always looks like a freak. How would you like a sailor suit ?- to my mind the prettiest of all, and sailor collars are quite in fashion this spring, too. Or you might have a full waist, with tucks at the top, cut out in little round yoke, to be worn over a guimpe of white embroidery or tucking and insertion. There should be sleeve caps, reaching nearly to the elbow, and short undersleeves, reaching just a little lower, of the white. In the winter, the white could be removed, and plain silk or plaid goods substituted. The skirt should be plain. I should have no trimming except a band of silk around yoke and sleeve-caps, and perhaps a fold to match on the skirt. About your hair, see answer to "Blue Eyes."





756

A fence of this kind only 16 to 23c. per running foot. Shipped in rolls. Anyone can put it on the posts without special tools. We were the originators of this fence. Have sold hundreds of miles for enclosing parks, lawns, gardens, cemeteries, churches, station grounds, etc., etc. Supplied in any lengths desired, and painted either white or green. Also, Farm Fences and Gates, Netting, Baskets, Mats, Fence Tools, etc., etc. Ask for our 1911 catalog, the most complete fence catalog ever published.

cannot afford to paper, and I never could learn to whitewash without leaving it all streaky. The walls are dirty. Can you tell me any way to clean them? They were originally white. Also, if I paint my bathroom, would it be necessary to wash off the "finish" before putting on the paint? Then, too, I have an oiled floor, cherry and maple, but the finish looks as if it had been walked on before it was dry, and no amount of scrubbing or waxing makes it look right. Can you help me?

TORONTO, ONT.

Here is something nice for the kiddies'

Cheese Tarts .- Two eggs, one cup currants, one cup sugar, one-half cup butter, one tablespoon milk, one teaspoon lemon flavoring, a little nutmeg. Make shells, and cook this in the shells.

I thank you in advance for your help, and wish to express my appreciation of the many useful things I get each week

"A BUSY MOTHER."

I have just telephoned a painter and decorator in town re cleaning your wall. He says you cannot clean it, except by washing it well and applying a fresh coat of alabastine or water-paint when dry. With a brush made for the purpose, there should not be much danger of streaking. It will be better to wash the bathroom wall very thoroughly before putting on the paint.

Try turpentine or oxalic acid for your See article on "Housecleaning" in our March 30th issue.

#### Washing Stencilled Curtains.

Dear Dame,-Kindly let me know, through your valuable paper, how to wash stencilled curtains without fading, and ALSINA NUGINPEN. oblige, Aurora, Ont.

THE PAGE WIRE FENCE CO., LTD., Walkerville, Ont.

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When Writing Advertisers, Please Mention "The Farmer's Advocate."

Dissolve a little soap—a pure white, mild kind, such as castile or ivory-in lukewarm soft water. Wash the curtains in this, by rinsing them through it lightly, but do not rub on a board. Rinse at once through clear water, and dry very quickly in the shade.

#### Spanish Bun.

Dear Dame Durden and Nookers,-Could you please suggest a few nice ways for a girl of fifteen to dress her hair. I have not very much, and it is not curly. I am five feet four inches tall, and have a fat face; my hair comes to about my waist-line. I have been dressing it for about a year in the way suggested in the issue of "The Farmer's Advocate" of January 26, 1911.

Spanish Bun.-Three eggs, 2 cups sugar. two-thirds cup butter, two-thirds cup sweet milk, 3 teaspoons baking powder. 2 teaspoons cinnamon, and 2 cups flour. "BLUE EYES."

Wellington Co., Ont.

The more simply a young girl can wear her hair, the better. The most-attractivelooking young girls that I can see in this city part their hair, twist it at the ears. sometimes puffing it into place there with side combs, then tie it at the back, pin a large black ribbon box to cover the waist in a long more set. It is not

the best anti-fat prescription that I know. You will likely get thinner when you are about twenty. A great many girls are fat and rather shapeless, at from fifteen to eighteen.

#### Slipping Geraniums-Caramels.

What would be best time of year for slipping geraniums for winter flowering? Please give recipe for making differentcolored caramels.

#### A SUBSCRIBER.

Geraniums may be slipped and posted in spring. Keep the pot always on the small side, shifting to larger ones as necessary, and keep all flower-buds removed during summer.

Chocolate Caramels .- Stir in a saucepan 4 cups granulated sugar, 3 tablespoons glucose, 1 cup boiling water, and boil until mixture will snap in cold water. Then add 1 cup cream, a piece of butter size of an egg, 1 of a cake of chocolate, grated fine. Let boil rather slowly, stirring all the time until it will snap in cold water. Remove from stove, flavor with vanilla, and pour in a greased pan. When cool, cut up and wrap in paraffine paper.

Walnut Caramels .- Two cups light-brown sugar, 1 large tablespoonful glucose, 🛓 tying-string, and let the more fall to the cup boiling water. Boil, stirring constantly. When it will snap in cold water, the number of one's add  $\frac{1}{2}$  cup cream and 1 tablespoon but-is in the result for. Let boil, stirring all the time until here to one less done. When it will harden in cold water,

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add 1 cup chopped walnut meats, stir once and pour out to cool. For pink caramels, add pink confection coloring.

APRIL 27, 1911

Farming Up-to-date. By one of our Nookers, Lambton Co., who this time signs herself "Walton."

If this week you see a farmer Coming to the town,

By his side his cheery wife In her newest gown,

Do you query where they travel? The Institute's the charm

Where wise professors tell them how They ought to run their farm.

How to care for good old Tidy So she'll not go dry, How much corn fed cunning piggie Makes him meet to fry. Prove that smiles, however sunny,

Ne'er will ripen wheat, But honest toil from dawn to dark Brings all good things to eat.

And earnest mothers study training Of their children dear, Or how to grow a fragrant flower Some invalid to cheer. Home return Joan and Darby, Nor covet fashions grand, Both very sure the sweetest life

Oatmeal Pudding.

Is back upon the land.

Two cups rolled oats, 2 cups sour milk, 1 cup raisins, 1 tablespoon of butter, a little sugar, a pinch of salt, 1 teaspoon of soda. Stir all well together, and steam 2 to 21 hours. Serve with sauce, as for plum pudding.

ELIZABETH.

Grey Co., Ont.

# News of the Week.

James Whitcomb Riley, the poet, is at the point of death in Indianapolis, Ind.

Over two hundred lives were lost at the battle of Agua Prieta, Mexico, between Insurrectos and Federals last week.

Captain Amundsen, the Norwegian explorer, is eight months ahead of Captain Scott in the race for the South Pole.

A charter has been granted to a company with a capital of \$10,000,-000 to establish a shipbuilding plant at Sydney Harbor. \* \*

liberty of all creeds \* \*

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other fencing, which lasts longer, which takes up less room, which is more easily put up, and which makes your land more valuable—" Dominion

Don't build a fence until you ask your dealer about "Dominion Special," if you want the very best value for your money. If he hasn't got it, write us.

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THE DOMINION WIRE MFG. CO., LIMITED BRANCH: MONTREAL.

Tongue Twisters.

It is told of a distinguished professor of history that, in an address before a woman's club on "Obscure Heroes of the French Revolution," he had reached the point where one of them, nobly resolved to essay the rescue of a friend doomed to the guillotine, sought a parting interview with his sweetheart before making the almost hopeless attempt. The professor had a moving voice, and was eloquent; the assembly of women, many of them already near tears, hung breathless

upon his words. "Biddy diddy," said he, pathetically; then coughed slightly and went back : "Hiddy biddy-" Something was evi-dently amiss. He tried again :

"Biddy hiddy diddy doo." By this time the ladies looked puzzled and the orator desperate. Drawing a long breath and speaking with painful deliberation, he at length conquered the elusive syllables, and said :

"Did he bid adieu?"

A speaker in the interest of foreign framed a decree separating Church missions had, not long ago, a similar ex-and State, and conceding entire perience. He had related the conversion f two natives in a savage island, and, after narrating the acts by which they signalized their abandonment of their old religion, he tried to conclude a sentence with the words, "thus totally repudiating their two tutelary deities." It was a simple enough phrase to the understanding; it proved otherwise to the tongue. Two, tutelary and totally together, were quite too much for him.



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A proposition to arrange some measure of reciprocity between Canada and Australia will come before the Imperial Conference in May.

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According to recent tests made in Ottawa, the Canadian diamonds found in the Olivia Mountains, B. C., are as good as the best in the world.

\* \*

It has been decided that the Public effort only made matters worse. Library reading-rooms in Brantford, Ont., will be kept open from two to five o'clock on Sunday afternoons.

\* \*

The clergymen of Greater New York have passed a resolution supporting the proposed Arbitration Treaty between Great Britain and the United States.

\* \*

The Ontario Educational Association, which met in Toronto last week, appointed a committee to urge a superannuation fund on the Provincial Government. The trustees' section resolved that a petition be sent to Hon. Dr. Pyne, Minister of Education, urging him to place personal hygiene and moral purity the curriculum for public schools, and to have treatises on these subjects prepared for use in schools.

"Thus tutelly repudiating their toe toe-" he began, confidently, when a titter in the audience checked him, and threw him into such confusion that his second

"Thus tutelary perudiating their tee-totallary deities," he blundered; and the laughter increased. With the perspiration starting on his forehead, he dashed once more wildly at the obstacle, but

failed to clear it : "Thus teetelly terupiating their too-

too-too-toot-" "Toot! toot! toot!" cried a voice in the gallery. "Three warning whistles

and now she comes!" "She came," indeed, as the burst of hilarity, under cover of which the speaker had time to collect himself, subsided; and he was enabled intelligibly to repudiate those two tutelary deities at last.-The Youth's Companion.

"Now, what mail we name the baby?" inquired the professor's wife. "Why, this species has been named," answered the professor in astonishment. "This is a primate mammal, homo sapiens."

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Please Mention this Paper.

inclination to make the best of oneself, there is scientific reason in the stout woman's desire to reduce her weight, and the painfully thin woman's wish to take on a few more pounds of flesh; health itself is at its best when the body maintains its normal proportions, without serious loss or gain. Any considerable variation from the normal standard shows a disturbance in the balance of nutrition; either the vital fire is being fed too generously, and the excess of fuel, instead of being turned into heat and energy, is accumulating in the tissues, to be a burden to the organism and, perhaps in time, cause disease, or else the expenditure of force is greater than the supply of fuel, the bodily tissues are drawn upon to aid in feeding the fire, and all the systems of the body suffer from the insufficiency of nourishment. Stout people become increasingly disinclined to either physical or mental exertion; they are apt to suffer from indigestion and constipation, rheumatic troubles, and shortness of breath; and, when a condition of actual obesity is reached, a fatty degeneration of one or more of the vital organs is liable. The insufficiently nourished person, on the other hand, is usually anæmic and nervous, the weak and faulty performance of many of the bodily functions testifying to the lack of proper nutrition.

With regard to the matter of physical attractiveness, the advantage of proper proportion between the weight and the height is obvious. The too-thin woman has fewer difficulties to contend with than her too-stout sister, in fulfilling fashion's requirements, for her figure can be modified to a far greater extent by the dressmaker's art. But the face and hands cannot be filled out correspondingly, and the thin woman early takes on lines and wrinkles, usually looking much older than a plumper woman of the same age.

Proper balance between the intake of food and the outgo of energy is thus necessary, both for the maintenance of good health and for the preservation of one's fair share of natural comeliness. The generally-accepted standard of weight in proportion to height which a woman should maintain, in order to fulfill these requirements, is as follows: Five feet one inch, 120 pounds; five feet two inches, 126 pounds; five feet three inches, 133 pounds; five feet four inches, 136 pounds; five feet five inches, 142 pounds; five feet six inches, 145 pounds; five feet seven inches, 149 pounds; five feet eight inches, 155 pounds; five feet nine inches. 162 pounds; five feet ten inches, 169 pounds.

The purposes for which food is taken into the body are two: the rebuilding of the bodily tissues, which are constantly consumed by physical and mental acenergy. During the period of growth, the body necessarily demands a large amount of tissue-building material, and it is natural and reasonable that a growing child should have a large appetite, and be ready to eat at all times of day. If, however, a person who has come to maturity continues to eat as heartily as in early life, more food is taken into the body than is required after the growing period is ended, a heavy strain is put upon the organs which remove waste products from the system, and there is likely to be a deposition of fat in the tissues. Another factor in producing these results, is the fact that the adult usually leads a far less active life, physically, than the growing child, so that less food is needed for transformation into energy, as well as for the purpose of body-building. This is even more true now than it was a few generations ago; the higher standard of luxury in the modern manner of life, labor-saving devices of every kind, and improved transportation facilities which have almost reduced out-door exercise to a matter of country-club athletics. are among the reasons for the presentday lack of physical activity among both men and women. It must not be forgotten, however, that our high-pressure modern life also favors the existence of a class who, instead of feeding their vital fires too generously, are inadequately nourished; among the contributing factors in this case are improper food. hasty and unattractively - served meals, unhygienic ways of living, and the heavy, nervous strain that makes havoc of so many lives, in one way or another.

FOUNDED 1866

Considering first the case of the woman who is above the normal standard of weight, it may be said in the beginning that there are few stout people who cannot safely, and without resorting to any dubious measures, reduce their weight sufficiently to improve not only their appearance, but their comfort and general vigor as well. Such results are not produced in a moment, however, and patience, perseverance, and a considerable exercise of will-power may be necessary.

Any decided deviation from one's usual manner of life should not be undertaken without the advice of a competent physician. Constitutions have been wrecked, and even lives lost, by such tampering with nature's laws. Exercise and diet are the two great aids in reducing weight, but either, by being carried to extremes, or attempted under unsuitable conditions, may do more harm than good. One procedure which cannot be too strongly condemned, is the use of the various "anti-fat" preparations, which are among the patent medicines that have afflicted a credulous world; such "remedies" are worse than useless. as they may do actual harm by upsetting the digestion, or otherwise disturbing nutrition, while it is beyond the power of any drug to control such a complex process as that of the balance between waste and repair in the human body. If the desired effect is actually produced, it is by a lowering of the general health.

Many systems of exercise have been recommended for reducing flesh, especially about the waist and hips, and, when used in moderation, and with a physician's assurance that none of the organs of the body will be injured by their use, the following out of such a system will not only aid in reducing the weight, but will improve circulation and nutrition, and increase the general bodily vigor. The exercises usually recommended consist principally of reaching, stretching and bending movements, but breathing exercises are also useful, as deep breathing aids in burning up fat. Stairclimbing, with body erect, and only the ball of the foot placed on each step, is also highly recommended, and for reducing the fat on the hips, the "standing run" is especially valuable. Tennis, golf, bicycling, and horseback riding, all aid in keeping down weight. Walking is, however, the exercise par excellence for stout people; not a slow and languid saunter, but a brisk pace, and a steadilyincreasing distance. Hill-climbing, when there is no danger of overtaxing the heart, is even more effective than walking on a level.

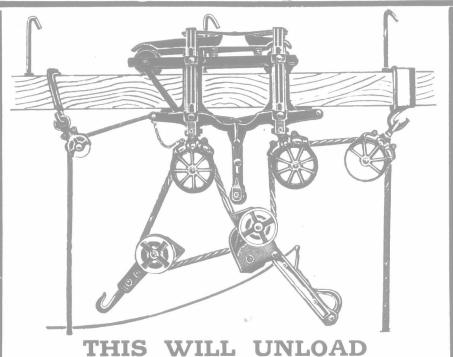
A noted physician, who has successfully reduced many stout patients, lately made the statement that many fat people were willing to take any sort of treatment tivities, and the production of heat and that was ordered for them, if only their diet was not restricted. It is upon re-



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## The Stout and the Thin. In addition to the natural and proper

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striction of diet, however, that the chief dependence must be placed, in the reduction of weight; exercise produces a more rapid burning up of fat in the body, but superfluous fat cannot be stored up if the material for it is not supplied to the system. Many famous systems of reduction by restricted diet have been given to the world, but most of them are so severe that they should only be used under the direction of a physician. All of these systems require a reduction of the total amount of food taken, a restriction of the quantity of fluid allowed, and a more or less strict avoidance of those food substances which are most readily turned into fat in the body. Most of them also provide for light lunches in the middle of the morning and alternoon, as these additional meals tend to lessen the appetite at the heavier meals of the

The fat-making foods include sugars, starches, fat meats, butter and oil. It is not safe to deprive the body entirely of these groups of food substances, since proper nutrition depends upon a wholesomely-balanced diet, but the amount of them taken by the average person can be very greatly cut down without any danger to health. It is not unusual for a single meal to include a cream soup, bread and butter, potatoes, macaroni, a starchy vegetable, such as beans, a salad dressed with oil, and a rice or cornstarch pudding,-a list of articles which, as may readily be seen, contains a much larger amount of fat-making food than is required by the actual needs of the body. The woman who is in earnest to reduce

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APRIL 27, 1911

her weight, then, should eat at each meal talk with her family physician, as the as little of the sweet or starchy articles diet required may not be that intended of food and of the fats and oils as is especially for increasing weight, but one compatible with health. Soup is best omitted altogether, not only because the ing the defective working of some organ cream soups and purees contain much fatmaking material, but also because as little fluid as possible should be taken with meals. Among fish, salmon, bluefish and eels contain more fat than the other varieties of sea food. Fat meats, and all forms of pork, should be avoided. The potato is eaten so universally, appearing upon our tables at almost every meal, that its omission from the diet often seems a severe deprivation; however, it is one of the starchiest of foods, and should be cut entirely out of a menu planned for the reduction of weight. Most of the other vegetables grown below ground are also undesirable for the stout person; this class includes turnips, carrots, parsnips, and beets,-not, however, onions or radishes. Peas and beans also contain a good deal of starch. It is almost impossible to eliminate breadstuffs from the diet, yet much indulgence in the "breadand-butter habit" is fatal to the woman who desires to grow thin. Bread has least flesh-forming power when thoroughly toasted; whole - wheat bread contains less starch than that made of the ordinary white flour, while gluten bread contains still less, and is the most desirable form for the stout person's use. Macaroni and spaghetti, rice, and the breakfast cereals, are all included in the list of very starchy foods, and should, therefore, be Sweets of every sort-cakes, avoided. pies, puddings, ice cream, confectionery, chocolate, jam and preserves-are forbidden to one who is engaged in a fleshreducing campaign. Very little butter should be eaten; no mayonnaise dressing or olive oil in any form, no cream, and

not much milk,-none at all with meals. The list of articles allowed includes almost all kinds of fresh fish; lean meats and chicken; eggs; bread in small quantities, when stale or toasted; all fresh, green vegetables, such as spinach. lettuce, celery, asparagus and tomatoes; and nearly all kinds of fresh fruits, except bananas, which are largely made up of starch. Fruits stewed without sugar are also permitted. This is neither a starvation diet nor prison fare, but it does mean a monotonous bill-of-fare, and considerable will-power is required to follow such a regimen for a long period. Where a reducing diet is adopted without the advice of a physician, it is a safer plan to eat smaller portions of the flesh-forming foods than one is accustomed to, than to cut them out of the menu altogether.

Drinking liquids with meals is conducive to increase in weight: not more than one small cup of tea or coffee, or one small glass of water, should be taken with a meal. Water should, however, be taken between meals; it is dangerous to cut the amount of water taken in twenty-four hours down to a small quantity, as a deficiency of water in the system is liable to prevent the kidneys from doing their proper work. Chocolate and cocoa are pleasant surroundings, and conversation fattening. Beer and ale are well known to have flesh-forming properties, and all the tendency to excessive thinness. alcoholic beverages are better avoided. Napping after meals aids in putting on flesh, and should not be indulged in. Standing for twenty minutes or half an hour after meals is a help in preventing the deposition of fat about the hips and abdomen, the erect position promoting a more equal distribution of the products Any tendency to constipation is to be of nutrition. prevented. Laxative fruits and vegetables, such as oranges, apples, spinach and lettuce, will be helpful here, as will a class of cold water taken on rising in the The dietetic treatment of excessive thinness usually appears to one who is engaged in trying to reduce her weight as liberty to indulge in all the good things this life. However, it is sometimes ore difficult to build up a thin person than to reduce a stout one; restriction of list and persistence in active exercise are actically certain to cause a loss of weight, while many factors, besides a I the thin woman's condition. Diseases rible, irremediable break about another-f many different organs, a run-down, made it in his presence and that of sev-I many different organs, a run-down, made it in his presence and that of sev-nervous condition, too much hard work eral other members. "What ought I to and too little rest, improper food, and do now?" asked the break-maker, much disorders of the digestive trart, are among embarrassed. "If I were you," suggested The causes that may produce mainutritien. an artist who had heard the whole pro-and the first measure adopted by the ceeding. "I should go out and wiggle my painfully - thin person should be a frank ears and eat another thistle."

that shall improve nutrition by remedyor system of the body.

It is practically hopeless to attempt to build up a patient when the proper conditions cannot be secured; where there is no possibility of relief from a severe physical, mental or nervous strain, where a sufficient amount of sleep is impossible, or where there can be no escape from an unhygienic way of life, the wisest dietetic measures will accomplish as much as can be expected of them, if they merely enable the body to hold its own without further loss of weight and strength.

Under favoring circumstances, however, the sugars, starches, fats and oils, which the stout person must avoid, are the food substances from which the thin person may expect the most beneficial results. Foods difficult of digestion should be excluded from the menu, as an attack of indigestion might mean a considerable setback, but many of the most nourishing and fat-producing articles of food are readily digested and assimilated, though they should not, of course, be used to the exclusion of other kinds of food.

A quart or two of milk a day, when taken in addition to the regular meals, will often work wonders; the cream should be stirred into it, not removed, and a raw egg may be beaten into an occasional glassful. Butter should be spread with a generous hand, salad dressings should contain as much oil as is practicable, and a tablespoonful of pure olive oil, taken after each meal, will be an effective aid, and also promote the free action of the bowels, that is so great a help in bringing about a condition of general good health.

Properly-made bread, potatoes, starchy vegetables, like beans and peas and corn, macaroni and spaghetti, rice, and the whole array of well-made breakfast cereals, with a generous supply of sugar and cream, should be well represented in the thin person's diet. Cream sauces should be used frequently with meat, fish or vegetables, and cream soups and purees are to be preferred to bouillons and other thin soups. Ice cream, milk puddings, and other nourishing desserts, may have a place in the menu, as may all sorts of sweet fruits, chocolate and cocoa, honey, maple sugar and syrup, and even simple There are few and pure confectionery. articles of food that are forbidden to the woman who desires to increase her weight, except those which put a strain upon the digestion. A luncheon in the middle of the morning and one in the afternoon, with a glass of hot milk before retiring, assist very greatly in the building-up process, while a nap, or at least a quiet rest, after the midday meal, enables the system to put to the best uses the fuel which has been supplied to it. Long hours of sleep, avoidance of hurry and tension, regular hours for meals, and at mealtimes, are all aids in overcoming With regard to both the stout and thin, it may be said that while the quantity and kind of food which is put into the body is unquestionably the greatest factor in maintaining a proper balance between its waste and repair, its income and outgo of energy, it is necessary to take a common - sense view of all the circumstances of each individual case: to make sure that there is no organ of the body whose functions are improperly performed; to avoid alike the temptation, on the one hand, to decrease activity, and, on the other, the tendency to over-exertion; to lead a well - balanced and hygienic life; and to practice, not only with regard to the pleasures of the table, but in everything that pertains to both physical and mental health, that wise choice and accustomed self- control that are the mark of the highest type of humanity.-Boston Cooking School Magazine.

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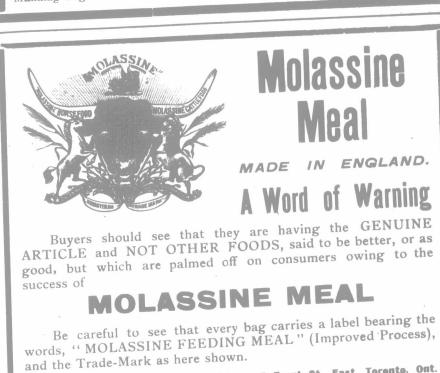
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It was at a Western literary club, and one of the members had just made a ter-



The World Beautiful.

"So to keep the ideal before us in the

guard the conviction that there is an

ideal, is to preserve the First Freshness

of our early impressions of the mysterious

beauty of the world. Poets tell us that

in the pilgrimage of life we shall watch

the glory fade away from the things of

earth. But if it be so, the fault lies

with us. It will be because with the

growth of things we have not grown to

watch. The halo still encircles the bush

in the wilderness where we have learned

to study the material elements by them-

selves, only it is found to come by the

gift of heaven. The sunshine which

floods the whole landscape at midday, is

the same as that which was seen as a

star at dawn when it lighted the solitary

mountain-peak, only it is infinitely vaster,

and therefore harder to comprehend in its

. . . .

That the glory and the freshness of a

dream shall vanish with advancing years

and "fade into the light of common day"

is a fallacy, and a fatal fallacy to hold.

On the contrary, life truly lived becomes

more interesting, more fascinating with

every day. The romance of life-all that

may be included in the ideal domain of

art, thought, and spirituality of life, ex-

tends itself as does the horizon line of

one who is walking onward. The ro-

mance of life deepens and extends itself

with the ever-widening and ever-deepening

significance of life. The art of living is

the finest of the fine arts, and the qual-

ity of life may be continually refined and

exalted with increasing experience. "Mov-

ing from fragment to fragment," says the

Bishop of Durham, "we learn to give

distinctness to our ideal and to feel the

unity and grandeur of the sum of being

through our own experience. We look

forward with a prophetic trust. We make

the power of poetry our own, which a

poet has defined to be 'the feeling of a

former world and of a future one.' Exceptional occurrences, oppositions in thought,

material phenomena, transcending all con-

ceptions in their necessary conditions,

take their place as indications of a larger

order. . . . The vision of the ideal

guards monotony of work from becoming

monotony of life. . . . The contempla-

tion of a great ideal of life will sustain

the combatant in the struggle and

through every failure enable him to strive

as knowing that the test of abiding

greatness is the power of sacrifice. An

ideal is the condition of sustained action,

and action is to consecrate all the full-

ness of powers, as knowing that life is

not a search after personal aggrandise-

ment, but the accomplishment of a divine

service. We can do our humblest tasks

not as drudges, but as fellow - workers

fullness."-The Bishop of Durham.

## JOHNNY GROFF AND THE Magnet Cream Separator

Baden, Ont., April 5th, 1909.

#### Dear Friends :-

I will tell about our MAGNET Cream Separator. My little sister, Ida May, is eight years old; Mabel is nine years, and I am ten years. Ida May turns the milk from three cows, Mabel from four cows, and I from six cows. Ma says she will never give that MAGNET Separator up; it is the best thing on the pace. We got it now since 1902, and every year we like it better. Ma wants to keep more cows this summer, she says turning the separator is far easler than milking. When Ma was sick we did the milking and turned the Separator. Our neighbors with other separators wonder that ours runs so easy, and Ma told them that when theirs are worn out they should get the MAGNET. We like to keep on with the cream stparator as long as we can, the more milk I turn

the better | like it. I wish we would keep ten cows, I can turn it through, I am strong to do that, and I am not much afraid, it makes me only fun to handle the MAGNET Cream Separator.

I think I will close, as it is nearly school time.

JOHNNY GROFF. Yours truly, ' I am in the second book.

## The Petrie Mfg. Co., Ltd. Vancouver Calgary Winnipeg Regina

Hamilton Montreal and St John

Wrong thinking is indicative of weakness; it is, indeed, a species of insanity, for a wrong thinker is continually tearing down and wrecking his own mental and physical structure. The right thinker is the only same thinker, and he is the happiest as well as the most successful man. He knows better than to keep constantly tripping himself up with the adverse thought which produces destructive conditions.

We all know the disastrous effects of wrong thinking. We know by experience how it cripples us mentally and physically. Physicians are well aware that anger poisons the blood, and that fear, anxiety, fretting, and all other inharmonious thoughts, seriously interfere with the normal action of all the bodily functions. They are also alive to the fact that anxiety or apprehension of impending disaster, if of long duration, is liable to bring on paralysis. It is an established fact that a mother is not only seriously affected by her own thought, but that it affects her infant to such an extent that the same symptoms and conditions from which the mother suffers are reproduced in the body of the infant. Selfishness, jealousy and envy long indulged in, tend to produce serious liver troubles and certain forms of dyspepsia. Lack of selfcontrol and habitual indulgence in violent passions shatter the nervous system, lessen the will power and induce grave disorders. Worry is one of the greatest enemies of the human race; it carves its deep furrows wherever it goes; it carries gloom and unhappiness with it; it delays or prevents the processes of digestion and assimilation until the starved brain and nerve cells utter their protest in various kinds of disease. Wrong thinking, whatever its nature, leaves indelible scars on mind and body alike. It affects character and material prospects equally. Every time you grumble or find fault; every time you lose your temper; every time you do a mean. contemptible thing, you suffer a los which cannot be repaired. You lose a certain amount of power, of self-respect. and of an uplifting and upbuilding char acter-force. You are conscious of your loss, too, which tends to weaken you still further.

Evil of Wrong Thinking. go wrong, he is not only seriously injuring his health, but he is also crippling his business. He is making himself repellent; he is driving away success conditions.

A man who wants to do his best, must keep himself in good mental trim. If he would achieve the highest success, he must be a correct thinker. He cannot think discord and bring harmonious conditions into his business. His wrong thought will honeycomb and undermine his prospects in life.-Orison Swett Marden, in Success.

## My Neighbor and I.

(A Soliloquy.) Doth thy neighbor's path offend thee? Mind thine own !

Gather up each twig and bramble,

#### L'envoi of the Hooked

with saints and heroes."

FOUNDED 1866

#### Some Words of Advice.

A woman who has had a very unhappy midst of our common occupations, to married life, gives this advice to yound women:

> Don't marry a man to reform him. It can't be done unless he is under twentytwo.

> The woman who permits her heart to rule her head makes a sad mistake.

> If a girl loves a man, no matter how dissipated or selfish he may be, she plunges into matrimony with her eyes closed.

> No woman should ever depend entirely on her husband for happiness. It is folly, and leads always to heartache. A married woman should have a life apart from her husband.

> Let her keep sweet and true and lovable, but beyond a certain point she should not venture lest she lose her individuality in her husband's, with the result that he will impose upon her.

> Beware of a man with an ungovernable temper, and almost all men are endowed with this quality.

> Shun the man who drinks to excess, for it is a habit that leads to wretchedness.

Avoid also the man who is selfish, the man who considers always his own interests before those of his wife.

All men are fickle, and it depends on the wife's power to hold him.-Baltimore Sun.

#### Are the Girls Careless?

One of our most prominent exchanges has a caustic article on the habitual carelessness of young girls, and declares that it is almost impossible to teach girls to hang up their dresses, cloaks and hats, and put their ribbons, ties and gloves in their proper places. It says generally a girl comes home from school or elsewhere, jerks off her jacket, hat or hood, tosses them on a bed or chair, slings her rubbers in a corner or behind the stove, unbuttons her dress with a jerk while going to her room, leaves the dress on the floor, grabs another, throws it on hastily, fastens it as she can, and so on.

Well, that is a picture with life in it if it hasn't much order; and it possibly has too much truth in it. Girls, and boys, too, should cultivate orderly habits. Such habits are worth money all through And then, during childhood and life. youth, how many steps may be saved a tired mother if children were always orderly with their things.

#### A Ready Lawyer.

Probably no one had more ready wit than Sir Frank Lockwood, the lawyer. He was a tall man, and an unruly member of his audience once called out to him in the middle of his speech, "Go it, telescope "My friend is mistaken in applying that term to me," Sir Frank quietly said. 'He ought to claim it for himself; for, though he cannot draw me out, I think I can both see through him and shut him On another occasion, one of his political opponents called, "All lawyers are rogues!"



A business man will find that every time he gets out of sorts, flies into a rage or "goes all to pieces" when things

He the difference will see.

And may pattern after thee !

Doth the garden that is next thee, O'er the fence,

Yield but weeds, that to thy notice Give offence?

Plant sweet flowers, tend them well. He may copy-who can tell?

Doth thy neighbor's face distress thee With its scowl? Is his voice but little better Than a growl?

Sweeter gifts to thee belong : Try and shame him, with a song !

Wouldst thou see a face that's smiling Next to thine ?

Then with holiness and kindness Must thou shine

He that's next is but thy glass To reflect the clouds that pass !

Do not let small things afflict thee 1

Look again'! What if skies some days are blotted

By the rain? In some sky the sun doth shine : fet it ever brighten thine !

They, if thou art smiling ever,

If thy work that's close beside thee

w. custer what shall be;

- Cod approveth thee !

Helen Knight Wyman.

#### Gown.

When the last hooked gown's in the ragbag, and the hooks are rusty and bent,

When the buttoned gowns all are buttoned, and the dressmakers cease to invent

Dark schemes to annoy poor husbands, weary and worn and old-

When our thumbs have ceased from their aching, and out heated remarks grown cold.

We shall rest-and faith, we shall need it; at peace in a golden chair

Shall loll on a sort of throne like the man who'd the nerve to swear.

And the man who set out with the wrong hook and ended the game in a fix

Shall hear the cold ice tinkling where the drinks of the gods they mix.

There shall be no pads to confuse us, no

store shapes to get in their place No foolish, silly contraptions, embroidery or Irish lace;

But all the hooking we do there, on that mythical, friendly star,

Shall be with a Sensible Harness up the Fack of Things as They are.

-Boston Traveller

 $\Lambda$  ) is well entered a post office in the theward and inquired :

late any lefters for me to-day?"

al aller is on de letter."

"I am glad," Sir Frank quietly rejoined, "to greet this gentleman as a member of my profession; but he need not proclaim our shortcomings to the world."

#### An Every-day Creed.

There's nothing so bad that it could not be worse

There's little that time may not mend ;

And troubles, no matter how thickly they

Most surely will come to an end.

You've stumbled ? Well, so have we all in our time,

Don't dwell overmuch on regret;

For you're sorry-God knows! Well, leave it at that,

Let past things be past-and forget.

Don't despond, don't give in, but just be

The self that is highest and best;

Just live every day in a sensible way, And then leave to God all the rest.

-The Quiver.

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## APRIL 27, 1911

## The Homing Bee.

You are belted with gold, little brother of mine,

Yellow gold, like the sun That spills in the west, as a chalice of wine

When feasting is done. You are grossamer-winged, little brother

of mine, Tissue-winged, like the mist

That broods where the marshes melt into a line Of vapor sun-kissed.

You are laden with sweets, little brother of mine,

Flower sweets, like the touch Of hands we have longed for, of arms that entwine,

Of lips that love much. You are better than I, little brother of

mine, Than I, human-souled, For you bring from the blossoms and red summer shine,

For others, your gold. -E. Pauline Johnson, in Canadian Magazine.

#### Fate.

Said the Vase from Tokio : "I'm so costly, as you know, That I hope to see myself Soon on some collector's shelf, Ticketed and marked with care, 'Do not handle. Very rare !'

Said the little Urn from Greece: "I am no museum piece; Yet my figure knocks askew Such a twisted thing as you; Grace and Beauty, line on line, Pave my way to fame divine !'

Said the Jar from Ispahan : "Years I boast-a wondrous span; And the Bard hath made of me Songs for all eternity. Cease your clatter, lumps of clay, Only I outlive to-day !"

Said the maid, from Dublin hired : "Faith, this dustin' makes me tired ! Smash-ye haythin out o' shape ! Smash-ye ugly furrin ape !'

In the ash heap, hid from sight, All the vases lay that night. -Lippincott's Magazine.

## Loudoun's Braes.

A lad cam' o'er frae Loudoun's braes To see my butter-makin'; His face wis plain, as weel's his claes,

But oh, his wey was takin'. He speir'd hoo mony kye we had, And were they a' oor rearin'

# THE FARMER'S ADVOCATE.



Condensed advertisements will be inserted under this heading at two cents per word each inser-tion. Each initial counts for one word, and figures for two words. Names and addresses are counted. Cash must always accompany the order for any advertisement under this heading. Parties having good pure-bred poultry and eggs for sale will find plenty of customers by using our advertising columns. No advertisement in-serted for less than 30 cents.

BUFF O PINGTONS EXCLUSIVE Y FOR 10 YEARS. Eggs That Will Hatch. 9 chicks guar inteed

One selected pon, \$3 por 15 -all large birds. Utility pons, \$1 por 15-extra heavy layers.

Hugh A. Scott, Caledonia, Ont.

A STRAIN OF GAMES-None better; prize-winners at Guelph and Toronto. Eggs this season from select pens of the best birds money ean buy, at \$2 per 13. Silver Duck-wing, Red Piles, Black-breasted Reds and Silver pits; also genuine White Wyandottes; first-class stock, at \$2 per setting. Write for particu-lars. Ivan Armstrong, Drayton, Ontario. A YLESBURY DUCKS-Eggs that hatch; from the best prizewinners, \$1.50 per setting. Satisfaction guaranteed. L. J. Gibbons, Iroquois, Ontario. BUFF ORPINGTONS-Fine, large, golden birds; excellent layers. Eggs: \$1 per 15 eggs. Bert Hamm, Caledonia, Ontario.

BUFF ORPINGTONS - Purc-bred cookerels, pullets and eggs for sale; reasonable prices. James McGregor, Caledonia, Ontario.

BARRED AND WHITE ROCK EGGS-\$1.00 per 15; \$4.00 per 100. S. L. Jayne, Grafton, Ontario.

B ARRED Recks, Rhede Island Reds, S.-O Brown Leghorns. Eggs: \$1.00 per 13. W. J. Bunn, Birr, Ontarie.

BABY CHICKS-Single-comb Black Minorcas, Rose-comb Brown Leghorns and Barred Rocks, \$6.00 for 27; \$11.00 for 50; \$20.00 for 100. These chicks will be from pure-bred stock. J. H. Rutherford, Box 62, Caledon East, Ont.

B IG MONEY in Anconas, S.-C. White Leg-horns. Free circular. 95% fertile eggs; any quantity. Baby chicks. Write quick. E. C. Apps, Box 224, Vice-President Inter-national Ancona Club, Brantford, Ontario.

BARRED ROCK EGGS - From well-barred, blocky, heavy-laying, prizewinning birds. \$1 for fifteen; \$2 for forty; \$4 per hundred. Chas. 'Hilliker, Burgessville, Ontario.

C OLUMBIAN PLYMOUTH ROCKS-My foun-dation stock imported direct from the originator's. Eggs: \$2 per 15. P. C. Gos-nell, Ridgetown, Ontario.

CORNISH INDIAN GAME EGGS-Pen headed by first-prize cockerel. Satisfaction guar-anteed. R. Johnston, 497 English St., Lon-don, Ontario.

DUCK EGGS-Good fertile duck eggs, fifty cents per eleven. Vernon I. Miller, Cents per eleven. Wroxeter, Ontario.

RGGS FOR HATCHING-From pens of se-lected birds. Prizewinners. Rouen ducks, one fifty per eleven; also R.-C. Brown Leg-horns and R.-C. Black Minorcas, one twenty-five per fifteen. J. F. Bell, Leamington, Ont.

E GGS FOR SALE from birds that have won shows; Barred and White Rocks, White Colum-bian and Silver-laced Wyandottes, Rose and Single Combed R. L. Reds, Buff Orpingtons, Blae Andalusians, Black Javas, Houdans, Arconas, Black and Spangled Hamburgs, Silver Gray Dorkings, Light Brahmas, Buff Cochias, White and Brown Leghorns, Golden Sebright, Buff and Black Cochin Bantams. Only one pen of each breed; \$2.00 per 15. Eggs half price after June 1st. F. W. Krouse, Guelph, Ontario.

**F**GGS FOR HATCHING-S.-C. W. Leghorns; strain. Eggs: \$1 per 15. Hugh McKellar, Tavistock.  ${
m F}$  IFTEEN Buff Leghorn eggs, one dollar. Circular free. J. E. Griffin, Dunnville, Ont.

POR SALE-A few nice Rose-comb Brown Leghorms. Four Golden laced Wyandotte cockerels from prizewinning stock. Prices right. Eggs in season. Peter Daley & Son, Box 26, Seaforth, Ontario.

NDIAN RUNNERS AND WHITE WYANDOTTES -Eggs, dollar per setting. W. D. Monk-man, Bond Head, Ontario.

COHABAR POULTRY-YARDS offers eggs from selected breeding birds, Barred P. Rocks and Houdans, \$1.50 per 13. Pekin and Rouen duck eggs, \$1.50 per 9. All eggs de-livered free of charge in Ontario. D. A. Graham, Wanstead, Ontario. PRIZE BARRED ROCKS, with egg record, Eggs, one to three dollars for fifteen; six dollars hundred. Pekin duck eggs, one and two dollars for twelve. Jas. Coker, Jersey-ville, Ontario. PEN OF BROWN RED GAME BANTAMS, cheap. R. W. Cooper, 64 Brookfield St., Toronto, Ontario. RHODE ISLAND REDS (Rose-comb)-Bred twelve years from carefully-selected, heavy winter layers of large brown eggs. Fitteen eggs, dollar-half. Good hatch guaranteed. John Luscombe, Merton, Ontario. ROBE-COMB RHODE ISLAND REDS-Heavy laying imported stock. Eggs for setting, one dollar for fifteen. Fred Colwell, Cooks-

ville, Ontario. RHODE ISLAND REDS-Both combs. Eggs. 15, \$1.00. Grand winter layers. Wm Runchey, Byng, Ontario.

R OSE-COMB RHODE ISLAND REDS-Pen 1, headed by 2nd "Ontario" coekerel; eggs, three dollars per fifteen, or two settings for five. Other pens, one fifty per fifteen. Grand stock and good laying strain. C. R. Cuth-bert, Alton, Ontario.

S ILVER-SPANGLED HAMBURGS-Eggs that hatch, \$1 per 15; ten chicks guaranteed. Extra heavy layers; non-sitters. Safely packed in model egg boxes. L. J. Gibbons, Iroquois, Ontario Ontario.

S.-C. BUFF LEGHORNS-Eggs for hatching from splendid laying strain, \$2 per 15; \$5 per 50; \$9 per 100. H. Bazett, Springfield Farm, Duncams, B.C. SINGLE-COMB BROWN LEGHORNS-Prize-winners and grand layers. Seventy-five dozen. Wm. Livingston, Vickers, Oatario.

SINGLE-COMB BROWN LEGHORN EGGS -\$1.25 per 15. David A. Ashworth, Maple Grove, Ontario.

SINGLE-COMB BROWN LEGHORNS - Best laying strain; 20 eggs, \$1.00; 50 for \$2.00; 100 for \$4.00. Mrs. D. W. Kean, Orillia, Ont.

U TILITY WHITE WYANDOTTES-Good qual-ity, good layers. Eggs: one dollar per fifteen; four dollars per hundred. Wm. Smart, Beeton, Ontario.

## Pleasant Valley Farms EGGS FOR HATCHING.

White Wyandottes, \$1.25 per 15; \$6.00 per 100. Special mating, \$3.00 per 15. Also S.-C. W. Leghorns, pen headed by first-prize C. N. E. cockerels, \$1.50 per 15.

Geo. Amos & Sons. Moffat, Ont.

Single-comb Brown Leghorns From prizewinners. Eggs for setting, \$1.00 for 15.

Wm. Barnet & Sons, Living Springs, Ont.

S.-C. White Leghorns Great layers and prize-winners. Eggs: \$1.00 per 15; a hatch guaranteed. Geo D. Fletcher, Binkham, Ont.

Rab Comes Hame. Was that a knock ? Wha can it be ? I hirple to the door;

A buirdly chiel' is stan'in there, I never saw afore.

He tak's a lang, lang look at me, An' in his kindly e'en

A something lies I canna name, That somewhere I ha'e seen.

I bid him ben; he tak's a chair, My heart loups up wi' fricht, Fo' doon he sits as John wad dae When he came hame at night. He spreads baith han's upon his knees, But no a'e word he speaks,

Yet I can see the big roun' tears Come happin' doon his cheeks.

Then a' at aince his big, strong airms Are streekit oot to me-

'Mither, I'm Rab, come hame at last, An' can ye welcome me?"

O, Rab, my airms are roun' his neck, The Lord is kind indeed :

Then hunker doon and on his knees I lay my auld grey heid.

Hoo could ye hide sae lang frae me, Thae weary, weary years. An' no a'e word-bit I maun greet,

My heart is fu' o' tears; It does an auld, frail body guid, An' oh ! it's unco' sweet, To see ye there, tho' through my tears,

Sae I maun hae my greet. Your father's lang since in his grave Within the auld kirkyard, Jamie an' Tam they lie by him-They were na' to be spared; An' I was left to sit my lane To think on what had been,

An' wussin' only for the time

To come an' close my e'en.

But noo ye're back, I ken fu' weel That noo a fremit han'

Will lay me, when my time comes roun" Beside my ain gudeman;

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way, rest. Quiver. His very manner made me glad, He wis sae fond o' speirin'. He pressed his cheek against my face,

Until I felt it burnin'; A sudden stillness filled the place, You cudna' hear the churnin'.

He praised my bonny butter prints. He liked to come and see them ; He said his mither needed hints, And wid I come and gi'e them ?

I whispered softly in his ear, "What kens she about me?" He whispered back, "She bade me speir And no come hame without ye.'

So, now I'm weel, and very glad, For "Loudoun's braes are bonney"; My dairy and my Loudoun lad I widna' change wi' ony.

There was a small job of diving to be done, and, as the divers were all absent. on Irishman who had just been engaged work the air-pump, volunteered to go wn. He was told how to signal when wished to be brought to the surface. had been down barely long enough to gin work when he signaled that he anted to come up. As soon as he was the boat, he motioned to have the

lmet taken off. "Begob," he said, when his head was w, "I'll not wor-r-k where I can't spit n me hands."-Everybody's.

R XCLUSIVE BREEDER of pure Barred Ply-meuth Rocks, Pringle strain. Heavy winter layers, \$1.00 per setting. Write for circular. Riverside Poultry-yards. Jas. E. Metcalfe, Hanover, Ontario. E GGS FOR SALE CHEAP-From pure-bred Wyandottes and Rhode Island Reds. For prices write: H. Lacey, Kirkfield, Ontario. GGS FROM THREE GREAT BREEDS-Single-comb Black Minorcas, Cornish In-dian Games, White Rocks. Our customers win. One dollar fifty per thirteen. Zimri Seely, Iroquois, Ontario. R GGS FOR HATCHING-Rhode Island Reds, Wyandottes, Dark Brahmas, Rocks, Leg-horns, 15 eggs, \$100: 100 eggs, \$4,00. Rouen and Mammoth Pekin duck eggs, 13, \$1,00. Satisfaction guaranteed. Wade & Son, Sarnia, Ontarie Ontario. F GGS-Single-comb Rhode Island Reds; winter layers: \$1.00 per 15. Grand laying Indian Runner ducks. 10c. each. Frank Bainard.

Runner ducks. 10c Glanworth, Ontario. RGGS FOR HATCHING-Rose-comb Brown Leghorns, \$1.50 per 15; \$2.75 per 30 Rouen Duck eggs, \$2.00 per 15. Mammoth Bronze Turkey eggs, \$3.50 per 9. Guaranteed fertile, J. H. Rutherford, Box 62, Caledon

E GGS FOR HATCHING-From A1 heavy-dollar for thirteen. Special prices on incu-lator lots. Ed Hacker, Benchville.

<sup>66</sup> F DELWEISS" White Rock eggs for hatch-nested hers with records as pullets used as breeders. Their mating with a grand cock hird insures result. J. A. Butler, M. D., Newensthe, Outaritie

UTILITY WHITE WYANDOTTES-Eggs for hatching. For further particulars write Chas. F. Hooper, Box 157, Exeter, Ontario. WHITE WYANDOTTES-Exclusively; stand-W ard shape; vigorous layers. Eggs: \$1 per 15. W. W. Meredith, Caledonia, Ontarlo. WHITE WYANDOTTE EGGS-From choice matings, \$2.00 per 30. Express paid anywhere in Ontario. W. A. Bryant, Cairn-gorm, Ontario.

W HITE and Columbian Wyandettes, Rhode Islands, Barred Roeks and White Leg-horns. Bggs from prizewianers from 60c. up. Brome Lake Poultry Farm, Knowlton, Que.

WHITE WYANDOTTES-Eggs, \$1.25 per 15. Good layers. Satisfaction guaranteed. Clare Kirkland, Teeswater, Ontario.

HITE WYANDOTTES-Pure Regal strain. Eggs for hatching, one dollar per fifteen. Wm. Howe, North Bruce, Ontario.

WHITE WYANDOTTES-Eggs from selected winter layers. Dollar per filteen; four dollars per hundred. Also a few large cock-erels. Write for prices. Victor Stanley. Granton.

W HITE ORPINGTON EGGS-From prize-winning birds. Heavy winter layers. \$3.00 per setting of 15. H. Ferns, 715 Wil-liam St., London, Ontario.

W HITE WYANDOTTES EXCLUSIVELY – Bred for heavy egg production and standard points. Eggs: \$1.00 per 15. Good hatch guaranteed. Thos. F. Pirie, Banner, Ont.

WHITE WYANDOTTES-Record layers; Mar-tin strain; good hatch guaranteed. Eggs: dollar per fifteen. Allan McPhail, Galt, Ont.

W HITE WYANDOTTES-Eggs, \$1.00 per 15. Good layers. Satisfaction guaranteed. Clare Kirkland, Teeswater, Ontario.

An' wad it be a sin to ha O' Him who rules aboon To gie me yet a year or twa,

Afore I cuddle doon.

## A Mile with Me.

Oh, who will walk a mile with me Along life's merry way ? A comrade blithe and full of glee, Who dares to laugh out loud and free.

And let his frolic fancy play, Like a happy child, through the flowers

That fill the field and fringe the way Where he walks a mile with me?

And who will walk a mile with me Along life's weary way? A friend whose heart has eyes to see

The stars shine out o'er the darkening lea-

And the quiet rest at the end of the day-A friend who knows and dares to say, The brave, sweet words, that clear the

way Where he walks a mile with me?

With such a comrade, such a friend, I fain would walk till journeyings end, Through summer sunshine, winter rain-And then ? Farewell, we shall meet again 1 -Henry Van Dyke.



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#### If your capital is small, so much more the reason.

Become a capitalist. If you don't make a beginning, you nover will. Small beginnings, many times, lead to great success.

No order too small. All receive our best attention. Write to-day for booklet that

fully informs. 

J. T. STUART & CO'Y Stock and Bond Brokers TORONTO. Traders Bank Bldg. 'Phone Main 5412

## **Show Hackneys** FOR SALE

Bay filly rising 3, by Hillhurst Sensation. Bay filly rising 4, by Imp. Stillington Masher; broken to ride and drive. Also 2 Brood mares (not bred), dams of above. Registered. Attractive price for the 4.

JAS. A. COCHRANE. Hillhurst farm, Lennoxville, P. Q.



Advertisements will be inserted under this heading, such as Farm Properties, Help and Situations Wanted, and Pet Stock.

TERMS-Three cents per word each insertion. Bach initial counts for one word and figures for two words. Names and addresses are counted. Cash must always accompany the order. No advertisement inserted for less than 50 cents.

liable to show the same trouble. Wellington Co., Ont. sunk in attempting to force a passage George, Ontario. through the Rockies. CEMENT CURB FOR SPRING-OVERNMENT STANDARD SEEDS FOR "The Deserted Traveller" is the most CESSPOOL. famous of Goldsmith's work ALE-Golden Vine Peas, \$1.00; White Siberlan, Banner, Silver Mine, Scottish Chief Oats, 50c.; O.A.C. No. 21 Barley, 90c.; Maads-cheuri, 75c.; Red Clover, \$8.75 and \$9.00; Alsike, \$8.50; Timothy, \$6.50 and \$7.00; Leaming, Southern White, Red Cob Corn, 80c.; bags extra. Ask for samples. The Caledonia Milling Co., Ltd., Caledonia. 1. I have an over-flowing spring, which Penzance in Cornwall is noted for is dug out to the solid clay about four pirates. feet from the surface. Six years ago I The Pyramids are a range of mounbuilt a cement box four feet square tains between France and Spain. around it, the wall being six inches thick By the Act of Union of 1535, Welshmen and seven feet in height. The frost were put on an equality with Englishburst it all around about two feet under O NE HUNDRED AND SIXTY ACRES, unimmen. . . . they lost their language and the surface. Would you let me know proved; soil clay loam; north half lot n, fourth concession, Township Hilliard, Ontario, for five hundred cash. Clear Box X, "Farmer's Advocate," London, their manners. what shape of box to build, and how to eleven. Volcanoes are due to the infernal heat New deed. mix the cement, as I want to confine the of the earth. water and have it to rise three feet Ontario A plural verb is used when we do two above the level of the ground? S TRAWBERRY PLANTS - Stocky and well-rooted. All tested varieties. Catalogue and price-list free. S. H. Rittenhouse, Jordan Harbor, Ontarie. things at once. 2. How far away should a cesspool be Alnwick is the place where the Duke of from a house, and how much earth should Northumberland likes to sit. (Text-Book be over it in sandy ground? has "favorite seat.") 3. What kind of pipe would you recom-SELECTED EAR CORN - One dollar; sacks free. N. E. Mallory, Blenheim, Ontario. The gods of the Indians are chiefly mend to put underground from a sink in Mahommed and Buddha, and in their a kitchen to a cesspool? spare time they do lots of carving. TO RENT-An apple orchard, comprising eight acres. Apply: Mrs. Robt. Coulthard, Strathburn, Ontario. Everyone needs a holiday from one Ans.-1. The shape of the box is imyear's end to another. important factor. material so far as the cracking is con-WANTED-Good farm hand: married, sober and industrious, to work 100 acre farm Protestant. Apply: Box 65, North Lancaster, Liberty of conscience means doing wrong and not worrying about it afterwards. either of two causes; first, the mixture The strength of the British Constitution Ontario. may have been rather "lean," making the lies in the fact that the Lords and Comwall porous, so that the water soaked mons give each other mutual check (? WANTED-Several good hardwood bush bits. State what you have to offer for spot cash. Box O. S., "Farmer's Advacate," London nto it, the expansion of the water on The Red Indians when hunting carry. freezing cracking the wall; second, the W ESTERN FARM LANDS - Large returns easy payments. For reliable inferma-tion regarding choice farm lands, write H. H. Suddaby, Box 111, Herbert, Saskatchewan their lives in their hands, also their reaving," the wall not being strong "Lo do to barren beritage" means that to lift the lower part as the heavk place. To avoid a recurrence. bud inherited a haronage. and said : Aberdeen-Angus Bulls for Sale-Two 2-year-old buils extra As and the the Habeas Corpus Act. a ld make the next box strong, by registered pedigree, and some younger stock Address: cannot be punished twice for the usu sture of, say 2 of sand to 1 of meet so if a man steals a pie also by putting in some re-... in prison for it, when he to are various ways of do-NEAL A. CAMPBELL, Fingal, Ont. perhaps the best would second steal another pig and PLEASE MENTION THE ADVOCATE.

## THE FARMER'S ADVOCATE.

### THE SPICE OF LIFE.

SOME PRIZE ANSWERS. The University Correspondent offered a prize of one guinea for the best collection of twelve amusing schoolboy mistakes. This has been awarded to Miss E. M. Sutherst, 26 Beauval Road, E. Dulwich, S. E.

A selection from the large number of entries received is given below :

"Mute, inglorious Milton." These epitaphs are used by a writer who was envious of Milton's being Poet Orient. He "finds sermons in stones," expresses the same idea as Wordsworth's "the rest-

less stonechat all day long is heard." Calvin was a noted scientist and Peer

who died lately. Magna Carta said that the King had no right to bring soldiers into a lady's house

and tell her to mind them. Henry VIII. married Katherine, and she

said it was Wolsey's fault.

John Burns was the name of one of the claimants to the Throne of Scotland in the reign of Edward I.

Panama is a town of Colombo, where they are trying to make an isthmus.

The three highest mountains in Scotland are Ben Nevis, Ben Lomond, and Ben Jonson.

Wolsey saved his life by dying on the way from York to London. An interjection is a sudden explosion

of the mind.

Monsoons are fertile gorges between the Himalays

When the English first landed in Australia, the only four-footed animal in the country was a rat.

"Those melodious bursts that fill the spacious days of great Elizabeth" refers to the songs that Queen Elizabeth used to write in her spare time.

Tennyson wrote a poem called Grave's Energy.

The Rump Parliament consisted entirely of Cromwell's stalactites.

The plural of spouse is spice.

Queen Elizabeth rode a white horse from Kenilworth through Coventry with nothing on, and Raleigh offered her his cloak.

When England was placed under an Interdict, the Pope stopped all births, marriages and deaths for a year.

he boasts.

so wrote all his poems in iambic feet,

Humphrey of Gloucester and Cardinal calf. In any event, we should plan to Beaufort died shortly after each other. main, yours truly. G OOD set of steel forms for Concrete Silos. Will build 3 sizes. Cheap. Box 214, St. Many vessels have been wrecked and get rid of the cow. Her heifers are

## OUESTIONS AND ANSWERS.

1st.-Questions asked by bona-fide subscribers o "The Farmer's Advocate" are answered in

this department free. 2nd.—Questions should be clearly stated and plainly written, on one side of the paper only, and must be accompanied by the full name and address of the writer.

aduress of the writer. 3rd.—In Veterinary questions the symptoms especially must be fully and clearly stated, otherwise satisfactory replies cannot be given. 4th.—When a reply by mail is required to urgent veterinary or legal enquiries, \$1.00 must be enclosed. be enclosed.

#### Miscellaneous.

#### ASSESSMENT.

Three neighbors put in equal amounts of money and drill a gas well on one of their farms. This well is put down for their own private use, not selling any gas out of said well. Can the Township Council legally assess the casing and syphon pipe of said well when we do not derive any revenue from it ? In answering, give number of Statute governing said ques-SUBSCRIBER. tion.

Ontario.

Ans .- Your statement of facts is not sufficient to enable us to give a definite answer to your question; but we would refer you to Ontario Statutes as follows: 4 Edw. VII. (1904), Chap. 23, Sec. 5, Subsec. 16; 10 Edw. VII. (1910), Chap. 88, Sec. 1, Subsec. (3), Sec. 36, Subsecs. (3) (5).

#### VENTILATION-HACKNEY REG-ISTRATION-LUMP IN TEAT.

1. The stable in which I keep my cattle and horses is a lean-to, 16x78 feet. and is quite warm; am troubled with it sweating and getting quite damp. How can this be stopped ?

2. How many straight crosses are required with Hackneys before I could register them in the Canadian Studbook? 3. Young cow calved a few weeks ago, and now has a small lump in one of her teats, and the flow of milk is almost stopped. Is there any way of curing Z. A. B. this ?

Ans.-1. By ventilation, mainly. Light and drainage may also help a little. 2. Two crosses will entitle a mare to

registration as a two-cross mare. 3. A common trouble among highly-A figure of speech is a way of talking specialized dairy cows-one that is seldom **F** OR SALE – Iron, Pipe, Pulleys, Belting, Rails, Chain, Wire Fencing, Iron Posts, etc.; all sizes very cheap. Send for list, stating what you need. Agents wanted; good commission. The Imperial Waste & Metal Co., or writing by which you say what you don't mean and yet mean what you say. treated satisfactorily. You might have Example : "He blows his own trumpet." your veterinarian try an operation, but our way of handling such a cow would You don't mean that he has a trumpet, Queen St., Montreal. be to put a couple of calves on her, and but you do mean that he blows it, i.e., dispose of her at an early opportunity **P**OB SALE-Send in your orders now for Carmen No. 1 and Gold Coin Seed Potatoes. Choice, select stock, true to name and type. The two best white varieties for commercial purposes, \$1.25 per bag. Bags free. J. H. Wooley, Burford, Ontario. for beef. If she is a cow that gives very Lord Macaulay was a great statesman rich milk, the above plan might not be who suffered very much from gout, and advisable, as the extra content of butterfat above the normal would not be a which was hard work. benefit, but rather a disadvantage to the

FOUNDED 1860

in the construction of buildings. The wall might also be made thicker than before.

2. A cesspool should be at least 100 feet from the house, and should have at least one foot of soil over it.

3. Use regular sewer pipe, four inches WM. H. DAY. in diameter.

#### SALE OF DISEASED COW.

A (a farmer) sold, on December 15th. 1910, to B (cattle dealer), a cow. Some time after,  ${\bf B}$  sold to  ${\bf C}$  (a cattle dealer), C again sold to the Packing Company, where the animal was slaughtered. The inspector found the animal affected with tuberculosis, and unfit for human food. C was notified by the Packing Company, carried the notice two or three weeks in his pocket, then handed it to B, who claims he went at once to the Packing Company for proof, and to see the hide. but it was shipped a few days before. B showed A the inspector's report on January 21st, 1911, which read like this "Cow, black and white, bought from C. hide No. 456, affected with tuberculosis; unfit for human food." B says he had to put up the price paid by C. less the value of the hide, and the value of the carcass for fertilizer, and now asks A for the price paid him, less the same.

What is the law in the case? Will A have to lose the price received for the animal? The cow was a fine, healthylooking animal, with no suspicion of disease of any kind. A great many black and white ones are slaughtered by the Packing Company. The hide being shipped, gave no chance to prove this was the one bought from A, and no guarantee was asked or given as to its freedom or not from disease.

#### A SUBSCRIBER.

Ans .-- If no warranty was given in either case, A was not liable to B, nor B to C.

#### RE MANGEL SEED.

I notice in your April 6th number that G. H. Clark, Seed Commissioner, cautions the farmer in regard to the poor quality of mangel seed in the market this spring. In buying this seed, we have to take what the merchant gives us, and we do not know whether we are getting seed or only chaff until it is taken home and tested. One of my neighbors pounds the seed in a bag. This partly separates the seed from the chaff, but doing this, I find, bruises some of the seed. Could someone suggest some scheme that would separate the seed from the covering without injury to the seed, so we would know we were getting seed, and not chaff?

Hoping someone may give us his experience in handling mangel seed that will be a benefit to your many readers, I re-

A SUBSCRIBER.

Ans .- The husk surrounding the small mangel seeds (of which there are from two

to three embedded in each seed-ball or fruit) is quite as hard as the seed itself, and there is no known process by which mangel seeds can be separated from the seed balls without entailing considerable waste of the good seed. With a sharp point, the small seeds can be readily located in the seed-balls, extracted and examined. With this year's supply, such an examination will make clear that a considerable proportion of the small seeds are quite dead. I would advise farmers to procure their supplies of these seeds early, plant a hundred average seeds in a box, and in this way determine for themselves the percentage of seed-balls capable of producing sprouts. When the work is done under their own observation, they can form a good idea of the strength of growth of the young plants, which is an

> GEO. H. CLARK, Seed Commissioner.

The little daughter of a clergyman stubbed her toe and said, "Darn!"

"I'll give you ten cents," said her father, "if you'll never say that word

A few days afterward she came to him

"Papa, I've got a word worth half a

At the least, bear patiently, if thou of the reinforcing used canst not joyfully.-Thomas a Kempis.

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APRIL 27, 1911

## Does **YOUR Face** "Break Out ?"

If so, why not have it cured? We've been engaged for over eighteen years successfully treating bad complexions, curing skins spotted and blotched with boils, pimples, blackheads, pustules, and all forms of acne.

## IF YOUR NOSE IS RED

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SEE THIS COSTUME SKIRT It is worth \$2. We are offering it and a pair of Ladies' Shoes for 75c. 20,000 yards of famous York-shire Serges direct from loom to wearer.



State correct Length, Waist Lace or button. State and Hip measurements. correct size, as now worn

and Hip measurements. correct size, as now word **THE SATISFIER** Costume Skirt is made spe-cially to your own measurements from our famous hard-weating York-shire Serges; seven gores, raised seams, cut bulf; fit, style and finish being perfect. In black, navy, grey, brown or myrtle, Every pur-chaser will be presented with a pair of Ladies' Shoes absolutely Free. Costume Skirt and Shoes care-fully packed in one parcel, and sent per return mail, carriage paid 25c. extra. Total amount \$1. Remit-tances to be made in money order or dollar bill only. **Yorkshire Manufacturing Co.** 

Yorkshire Manufacturing Co., Dept. 264, Shipley, Bradford, England. Kindly note our interest in you does not cease unless you are perfectly satisfied. These goods are admitted by far the best value in the world.

## THE FARMER'S ADVOCATE.

10 - T.Y.

## The Garden of a Commuter's Wife.

#### (By Mabel Osgood Wright.)

#### CHAPTER XIV.-Continued.

It is delicious sometimes to do nothing simply for its own sake. As I leaned luxuriantly back, and alternately looked down the vista of the long walk toward the sun garden and into the rose arbor, then closing my eyes and merely breathing in fragrance and sound, I was no longer the commuter's wife who breakfasts at seven, and is obliged to, partly, at least, observe the conventionalities, but a Lotus Eater listening to the nightingale. I'm not at all sure that flower and bird inhabit the same country, but I'm sure they ought

to. I did not care a particle as to which flowers gave the perfume or what birds the music. I was simply saturated with both, and resolving not to move until afternoon, I must have fallen asleep; for the next thing I knew, I was startled by an emphatic bump on the head, caused by a falling apple, and Bertle's voice, which said, "The young cabbage flowers are of the beautifulest. should much pleasure you to see

she. Vegetables are a most wholesome and necessary adjunct to a flower garden, though, of course, there are people who would transpose this sentiment. I went immediately to see the cauliflowers, and at once became enveloped in a contrasting atmosphere of bean poles, pea brush, tomato trellis, and cabbages, where mathematical preciseness and the straight lines of beets, carrots, lettuce and parsley drew my wandering vision into focus again. As to the cauliflowers, I could honestly admire 'she,'' milk-white in a crisp green setting, and surely the rosy beets, with their color running well up into the foliage, and the delicate translucent green of the long heads of Trianon Cos lettuce are beautiful, while the great bunches of ripening currants bring as fine a color to the vegetable garden as the oriental poppy lends the parterre. Then, too, the vegetable garden has, to counteract the pungent breath of cauliflower and cabbage, a fragrant bouquet all its own, that is distilled nightly by the dew, the breath of sage, thyme, sweet marjoram, basil,

Yes, I am a pagan, as I have often suspected. I have a material streak and lavender. in me that finds intense satisfaction in me that must here and pot herbs, as well as roses and honeysuckle. Sick-ness alone deprives me of my appe-tite, and I have never yet been so tite, and I have never yet been so tite, and I have never yet been so tite, and I have never yet been so the first up around it. sad or sentimental that I felt a up around it. "I said as there were other men to loathing for my luncheon. I think father and Evan encourage this materialism in me, and so does Martha Corkle, who sees that luncheon comes to me if father is not at home and outdoors bids fair to hypnotize me. Father says that hung y sentiment develops melancholy, but well-fed sentiment, enthusiasm; so I suppose that I must be an enthusiast. There are four great pleasures of gardening-the planting, the develop-ment, the gathering, and the distributing. Each one in its turn seems the keenest, and surely the last is not the least; for what is life worth if one has nothing to give away? This lack, it seems to me, must be the sharpest pang of poverty. Then, too, garden gifts are all pleasure-light and slight matter-ofcourse gifts that carry no impediment of obligation with them; for one may give a whole basket of home-grown flowers, when a mere handful, if purchased, would be an intrusion. Here, again, in order to fulfil its destiny, the garden must be dual-flower and vegetable; for there is always a neighbor whose peas are affected with weevils, whose lettuce anected with weeting, whose house and ing on not fit or proper for a woman has run prematurely to seed, or a ing on not fit or proper for a woman dear old farmer-friend at the hospital who has fallen from the hay-mow and fractured a rib or leg (this

seems a favorite midsummer pastime of farmers past middle age; the young ones fall from cherry trees), who is "pining for garden sass" or a "good dish of beets and raw onions with plenty of cider vinegar.' Not to mention my Lady of the Bluffs, who, I know of old, would stray out from father's office, where she had called, and levy upon the necessary leaf, fruit, or berry, for some desired entree.

It is strange oftentimes to see how little the gardens of the rich yield them, even in satisfaction, in proportion to the outlay; but perhaps it is well, else we middlings would have no ground upon which to meet them, which would deprive us of much merriment.

I lunched in the garden to-day, and Martha served me with her own hands, a mark of attention denoting either special favor or a desire for the opportunity of private discourse. Really she is not as plump as she was, and though she says nothing, I sometimes feel the ghost of the "home-brewed" is between us.

She arranged the little table that we keep under the rose arbor for after-dinner coffee quite deftly in the breeziest corner, and had brought out the tray before I realized what she was about. But as my look of inquiry was unanswered, I asked, more as a form than from a desire for information, "Where is Delia?"

"She is not feeling exactly herself, Mrs. Evan," Martha replied, stop-ping short with pursed-up lips, evidently hesitating between merely answering the question and opening a conversation.

"I wonder why she didn't tell me she was ill?" I said half to myself. "I'll not go so far as to call her hill, Mrs. Evan, but shook up and scattered like, and she took the chance of slippin' down to speak with the priest about it, while he would be in at his dinner, the same which I call a liberty, having ought

to ask you.' Shaken ? scattered ? priest ? could not unravel the matter, so I told Martha to explain, as she was so evidently anxious to do.

for it's not listening and tattling to Syracuse 'EASY' Washer for it's not listening and tattling to speak what is spoken aloud to those who has a right to hear. When Delia broke with Patrick Doolan the night before she thought to hear the banns read, she was glad enough for a while, free in her mind, and well content to be rid of him. After a time, howsomever, the waste of her wedding gown, as it were, set heavy on her; for you see, Mrs. Evan, it were all made and ready. even to the wedding gown, as it were, set heavy on her; for you see, Mrs. Evan, it were all made and ready, even to the marry, to comfort her, as it were; but she says, 'Mrs. Corkle, what's other men to me so long as they doesn't ask me, and my dress going out of style from backs coming in fuller, which can't be changed, it being a remnant?' The same being quite the truth, Mrs. Evan. "Then she took down-hearted, and news kept comin' to her that Patrick had never done a day's work since Hallowe'en and was drinking most shocking. 'I never thought he was that fond o' me,' she'd keep saying, and rocking to and fro, 'and it's I that was a fool to throw away me luck, and a fine house, too.

# F YOU ARE **A FARMER**

763

this letter will show you the way to make money in your leisure hours—and a means of keeping the boys at home by giving them a business of their own.

Wm. Keithley, of Superior, writes about

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If you are not de-lighted with it return it<sup>7</sup>at our expense within 30 days. Write at once for pree booklet of laundry recipes and trial order form. Agents wanted. THE EASY WASHER CO., 51 and 55 Bruce Street,

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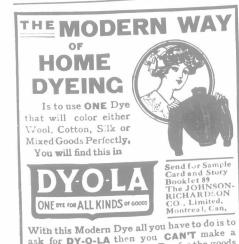
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PLEASE MENTION THE ADVOCATE

throwed, hoose and a',' said Timothy Saunders, unfortunate-like, one night. So for a while she kept her trouble to herself, out of stiff pride. " Last night I was sitting down to

my needle, when someone knocked, and I opened the door to a respectable-looking body dressed out quite decent in black. Before I learned her business she was past me, to where Delia sat at the machine, and akneeling before her, crying and tak-

"Mrs. Evan, if it was not old Mrs. Doolan begging Delia to marry



Good clay loam ; comfortable part stone and frame house; large barn, stone stables; good piggery. 60 acres work-able, balance bush and pasture. Lots of water; close to neighbors; not far from school ; 4 miles to smart market town ; 27 miles from Toronto. If you want a good stock farm at a moderate price see this.





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Makes it easier to get meals ready. Saves countless needless steps.

Keeps kitchens tidier.

#### THE FARMER'S ADVOCATE.

her son to save him from death by the bed of sweet odors, thus completdrink and disappointment, then Corkle isn't dead and I his widow !

"Mrs. Evan, Delia gave her promise all too ready-like, I'm thinking, and the two went out crying together, to run down Patrick, whose whereabouts I mistrusted was undecided.

" Is the old woman going to give them the farm?" I asked, quite confounded at the turn of affairs, for I thought Bertle was consoling Delia.

"That she is not ! She says that Delia may live in with her, and that she'll not object to her takin' up work in the shop, if she feels like keepin' independent." Here a fine sneer of derision curved Martha's nostrils.

"And the boil-down of it all is that Delia is going to be fool enough not only to marry a man what's at best a burnt match, and now confessed always in liquor, but she's going in with the old party, Mrs. Evan, who will undertake to see her work to keep him idle." Here Martha gave the tray a little push toward me, as if she thought it time to change the subject.

"I will speak to father; he will never allow Delia to throw herself away like this.

"Best not, Mrs. Evan. The doctor is clever, no doubt, but this marryin' rascals is a disease beyond him, especially when the parties is Irish, for I knows them well and thorough; they blows hot and cold so quick, it keeps hothers all of a shiver, and when you reaches out the 'elpin' 'ands, it's not me nor you can tell if it's a kiss or a knife they'll meet.

"What does concern me is this, the seein' you inconvenienced by changes in hot weather, Mrs. Evan. Delia should give her proper month's warning, but instead she's took her bankbook and gone down to the priest to get him to speak with Patrick and hurry the wedding without the calling of banns, if it may so be.

"Now, Mrs. Evan, Timothy Saunders' sister's girl, Effie, is leaving service in Canada, and is looking to crossing to the States, having written her uncle to speak for her where he is acquainted. Which same I bid him do, but he being so backward, I'll venture it for him, that you might try her, the same making less of a mixed family, you know, ma'am.'

I assented, thanked Martha, and she departed. As the luncheon was a cold one, it had not suffered by de-An egg and lettuce salad, lay. waferlike sandwiches of ham and chicken, strawberries heaped on their own leaves, hulls on, with sugar to dip them in, and a glass of milk. As I ate leisurely, thinking of Delia the while, Bluff came up for crusty bits, as a matter of course but The Orphan seated himself at a distance and sniffed until I called him. That last arrival is a curious character study, a self-made dog, deserving admiration for his reserve, but much like a person whom it takes years to outlive a youth of deprivation. When he first came to us, after living between coal-box and wall in the flagman's house, he did not understand having space to move about in, and so he continually backed solemnly into corners. I love Bluff, but I can only respect The Orphan, who is old before his time, and while faithful, vet is too humble, and lacks the spontaneity that makes young children and animals lovable. The air grew cooler in the early afternoon, and light clouds gave a grateful half-veiled atmosphere that coaxed me to leave the tree and stroll to the sun garden. Our scheme of grouping the spectrum colors about the dial is a complete success, for the zinnias are blooming evenly, and the blue centaurea matching them in height, the effect is at once rich and unusual. Amid all the wealth of color, the blaze of light reflected from low-growing portulaca, nasturting geraniums, and the first buds of many-bued hollyhocks, it is through the mose more than the eye that I an endow to where lowering clouds and costing a few drops upon

FOUNDED 1866

ing the iragrant spell.

Without such a bed no garden is completely gracious, and yet few there are, pretentious or humble. that have one. When Evan designed the beds of the sun garden, he said that the tire of the flery wheel should be of subdued colors; shaded greens or at most half-tones. For a moment it seemed that the dreaded coleus would be inevitable; then my Familiar Spirit whispered, "Let this circle be your bed of sweet odors."

There are comparatively few wholly scentless flowers, while there are many, like hyacinths and the ranker lilies, whose heavy perfume closes the house door upon them. These last, however, have a very limited period of bloom, while the plants chosen for my bed of sweet odors breathe fragrance from frost going until its return, and even after.

There are only three colors, but many tints, in this bed of mine, green-silvery, velvety, and glossy; violet, purple, and ruddy-gold. The plants are, reckoned from the tallest downwards, lemon verbena, rose, nutmeg, and apple geraniums, heliotrope of violet to mauve, annual wallflowers of warm yellow, and mignonette, this last being of three kinds-Mammoth, Parson's white, and Machette.

Though the plants were set in rows each of a kind, with the shrubby lemon verbenas as a ridge-pole, and the mignonette edging the whole, by middle June they were so blended that the earth was completely hidden. Now, with the greenery in luxurious leaf, heliotrope and mignonette in bloom, this bed holds more subtle fascination than any other. Heliotrope is best emjoyed at morning and evening, when the dew holds its fragrance earthward, for when gathered it withers quickly, and if mingled with other flowers in vase or jar, blackens and seems to poison the water, causing the whole posy to droop. In its bed it is one of the generous contributions to the charm of the garden of night that lures us abroad under the summer nioon.

For the rest, the bed of sweet odors is most pickable, and its foliage gives the crowning touch of sympathy to each bouquet. For tea roses I choose geranium leaves; for sweet peas, a fringe of mignonette, with long sprays of lemon verbena for asters and old-fashioned hardy blossoms; while the wall-flowers should flock quite alone, bunched in small glass globes, that they may lose nothing of their potency. I have grown this last flower a dozen years, and yet it seems either quite unknown, or else set aside for its more showy perennial brother, that in this climate needs winter housing. This humble annual, if sown early, and if



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# **Please Mention The Advocate**

the season is not too wet, bloom from July until snow hides it, and I once remember gathering a delicious bunch on a Christmas morning.

In a nook of this darling bed of mine hides a silvery, cut-leaved plant, a mascot that I hope will thrive and soon hold a braver place. This plant is rosemary, the flower of remembrance. I brought this little root from Shottery, and it is planted here in remembrance of the glory of the literature of the mother tongue and of all true lovers.

If flowers make a garden, so also do the greens that form their setting, and I now find the wild space beyond the sun garden inseparable from the cultivated in this matter. The madonna lilies now in perfect bloom, when gathered, need delicate maidenhair and lady ferns for company, while hollyhocks set in the great India jars should emerge from a mass of vigorous brakes in order to hide their usual shabbiness of stalk

July 16. Full moon, and both single and double hollyhocks at height. All day long the garden is a-bloom under full pressure of the sun and frequent showers, and the bright moon so carries day into night that we often stay out until the striking of the magic hour, and even then I linger at my lattice win-

dow, for below lies the moonlit gar-

APRIL 27, 1911

den, an etching framed by trees. For a week past Evan and I have been wandering in the garden of night, as we call it, and continually meeting surprises in familiar places. One of the alcoves in the border of the long walk is filled with yellow evening primroses mingled with the starry, long-tubed flowers of white tobacco (nicotiana affinis). Both of these open at sunset, a time when sweet peas furl their butterfly wings and many other plants contract both flower and leaf; then all through the night they give forth the fragrance that lures their insect lovers, so that above them is a perpetaul flight of moths, while the blending of gold and silver under the moon-apell defies de-scription. The most gorgeous of red, crimson, pink, blue and purple flowers grow dark at night in proportion to their daytime richness, and it is to the light colors alone that the garden then owes its beauty. , Night before last we were wandering about the garden, peering in corners where masses of hollyhocks that had strayed without border bounds reflected moonlight from their disks, and great spiders spread their webs across open spaces and hung in waiting, savagely patient, while the dew cloth of gold.

Suddenly a snapping noise seemed to drop from a spruce tree overhead, There was a ponderous flapping of wings and a note of warning that sounded like the passing of a broom across a sanded floor. The tree was across a sanded floor. half in deep shadow, but after a few moments we could see the outline of some stocky birds that were sitting in a row upon a limb close to the trunk. Another cry, a flapping and shifting, and we named them screech owls, and their number five, evidently two parents and three owlets. Then the dance began.

If I had every doubted the capacity of animals for play, I should now be converted. Of course a habit of gambolling is common enough among dogs, cats, and the intelligent quadrupeds, but I had never before suspected the solemn owl of such humor, and shall in future regard it as a professional wag of great ability.

At first the old birds mystified their children by separating and giving the "get-to-cover" cry from separate trees. This seemed to be by way of emergency drill, and lasted half an hour, until at the signal the youngsters stopped flopping about aimlessly, and flew direct.

They were quite fearless, and did not object to our presence in the least. In fact, as we tried to follow their erratic course through the garden and wood-lot, and along the grassy walk that, edged by daisies, seemed a pathway to the moon direct, they seemed to take delight in seeing how nearly it was possible to owls are quite safe. The improvident song sparrows touching us. Once safe in the fastness of hemlocks and spruces, their tactics changed. Perching five in a row upon a downward sloping branch, they pushed and jostled each other until the one nearest the end was crowded off. Instantly it flew to the top birds. of the line and took its turn at edging, until each had slipped off many When at last they became times. tired of this aerial coasting, they silently disappeared in the darkness of the woods. July 22. The owl play still con-tinues nightly, and Evan and I take part in it and likewise gain a fine view of their antics by flashing a small electric search-light into the deep shadows, thus catching grotesque poses and their amazed and dazed expressions. Last night two of the owlets ventured close to the house, and sat for some time a-top the clothes poles, turning their heads about so completely that they threatened to wring their own necks; then snapping their beaks, they crooned, and conversed quite plainly in high-class owl, much to Bluff's indignation, until he howled furiously and dashed at the poles so desperately that they lurched away, uttering unmistakable swear words.

This is hollyhock week, and the forest of gayly-draped stalks flanks half the length of the long walk, overflows the corner of the bank wall, and straggles in a crowd toward the barn, where it forms a hollow square about the chicken house. The hollyhock disports all colors and tintswhite, pink, cerise, crimson, apricot, yellow, and blush, both with a decided pink eye and a rosily diffused center.

Having been let alone for several years, the single or half-double flowers predominate, and I am quite sure that I prefer them to the heavy double blossoms, whose chief claim is their solidity of form and color; otherwise, they are nearer akin to the paper roses that garnish Christmas mutton, than to garden flowers.

The phloxes that have massed themselves, regardless of color, are showing bloom-white, crimson, with crim-son eye, and dull purple. Neither in color nor form are they as handsome as the young plants we set out last October, among which many new shades of cherry, salmon and rose appear.

Phloxes especially require frequent re-setting, else they crowd themselves out, the flower clusters grow small, while they lapse to the parent colors turned their homespun into from which they were hybridized more rapidly than other hardy plants. Now are the nasturtiums rampant, and their trellis seems consumed with a flame that reaching over has caught the salvia tips. The annuals that I bought from the "Yellow Journal" catalogue are making a fine showing, having an alcove all to themselves, and Evan almost acknowledges that the Pekin Perfection Carnation Poppy is gorgeous, "at least at present," he added cynically.

The first planting of gladiolus is in bloom, and I have been surprised and fascinated by the beauty of the new hybrids. Here, too, the range of color covers everything but blue, and the exquisitely shaded and veined flowers, no longer contracted and stiff, but winged and poised gracefully on the stalks, seem more like a new discovery than a development.

The moon gets up late nowadays having a slantwise, rakish look, and I am often tempted to leave bed for my window, where I could sit for hours listening to the owlets' shivery laugh, and looking down at the groups of striped and spotted eulalia that shimmer like fountains in the moonlight. Delia, who is to be married on Sunday evening, she having failed to get her dispensation owing to the reluctance of the bridegroom, has asked me to have the owls killed, as, if they cross her path the night of the wedding, ill-luck will surely follow her. A nice way to cast the sure result of her own folly upon Fate impersonated by me ! But the



Independent Telephone Equipment and improve your service

If you are continually having trouble on your telephone line it is because of inferior equipment. In that case it would be wise to test some of our equipment. We furnish apparatus



that will transmit your voice so clearly, naturally and strongly that your friend at the other end

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will never have to guess who's speaking. With our superior equipment you can improve your service greatly, and at the same

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that built in the rose spray have not learned wisdom by experience. Yesterday afternoon, as the wind that foretells a shower was sweeping the garden, Bertle discovered their second nest, in which were three young It was set squarely upon a broad corymb of feverfew which, having gone to seed, was ready to snap at any moment, and the other foliage that had sheltered it was beaten down. Silly sparrows ! In whose garden were you raised ? Were there no honest bushes there ?

(To be continued.)

### TRADE TOPIC.

In the reference to the advertisement of the Louden Machinery Co., and their improved stable fittings, in our issue of April 20th, the address was inadvertently given as Galt, whereas it should have read Guelph. This firm claim to be the largest manufacturers of stable fittings in Canada. The dairy stable of the Ontario Winter Fair at Guelph was fitted by them, and were greatly admired for the comfort given the cows. In addition to their swing stanchions, they also supply litter - carriers, water-bowls, hay-carriers, etc. Their catalogue will be mailed free on application.

time lower your maintenance cost by reducing your trouble-expense.

Our telephones are guaranteed for ten years against defect in material or workmanship. We send them for Free Comparison Test on your line. Write us for full particulars.

We carry in stock a complete line of first-class construction material, and you cannot afford to use any that is not first-class.

# **Canadian Independent Telephone Co., Limited**

20 Duncan Street, Toronto

When Writing Advertisers, Please Mention "The Farmer's Advocate."

THE FARMER'S ADVOCATE. QUESTIONS AND ANSWERS. 1st.-Questions asked by bona-fide subscribers o "The Farmer's Advocate" are answered in "RANNER" Cold LANTE

Comparison

We Invite

to The Farmer's Advocate and the advocate and this department free. 2nd.—Questions should be clearly stated and plainly written, on one side of the paper only, and must be accompanied by the full name and address of the writer. address of the writer. Srd.—In Veterinary questions the symptoms especially must be fully and clearly stated, otherwise satisfactory replies cannot be given. 4th.—When a reply by mail is required to urgent veterinary or legal enquiries, \$1.00 must be enclosed.

#### Veterinary.

#### SKIN TROUBLE.

Four-year-old colt has had some skin disease since he was a sucker. It seems to be some kind of dandruff. I clipped him, and am now using creolin in water, applied with a brush. C. C.

Ans .-- The colt is congenitally predisposed to skin trouble, and its recurrence will be hard to prevent. Use the creolin lotion warm, and of the strength of 1 part creolin to 20 parts water. In addition, give him 1 ounce Fowler's Solution of Arsenic, twice daily for ten days. V.

#### FATALITY IN COW.

Had a cow running in the Record of Performance. I was feeding half bushel of silage morning and night, all the straw she would eat, and four quarts each of oat chop and wheat bran, with a handful of cotton-seed meal. She was milking heavily. In February, she tested 9 per cent. butter-fat by the Government Inspector. At 5 o'clock one evening she was fed her silage and then drank a great deal of water. She was then fed her meal, and she milked as usual. At 11 o'clock she was found dead. She had eaten everything. She was lying on right side, with tongue out, and was bloated. A post-mortem revealed the heart full of clotted blood, liver a bluish color, with light spots the size of 25-cent pieces, and all stomachs very full of food and grass.

What caused her milk to test so high, W. F. and what caused death?

Ans.-Death was caused by bloating, which was probably caused by a heavy drink of water just after eating the silage, and this followed at once by a full feed of grain. The cow's digestive organs were probably overtaxed by heavy feeding. Her liver was diseased (probably tubercular). This tends to indigestion, and, with the causes mentioned, was the exciting cause of the fatal attack.

The high test was due to the individuality of cow.

#### WEAK FOAL.

1. Mare, carrying her foal, was not given much exercise during the winter on account of deep snow. She was bred in March, 1910, and foaled on April 6th, The foal was weak. It was a 1911.heavy foal. When about three FOUNDED 1866

#### Miscellaneous.

#### BEES AND BOOKS.

1. Where could I get some good bees for starting?

2. Where could I get a good book on bees ?

3. And also book on farming 9 D. E. Ans.-1. Consult our advertising columns, or insert a small advertisement in the Wants and For Sale column.

2. A. B. C. X. Y. Z., of "Bat Culture." Order through this office,

3. See list of books in our farm library, issue which appeared January 1911.

#### DIMENSIONS OF SILO - CLOVER CATCH

I always look forward to the sime when "The Farmer's Advocate" comes, because I get good, reliable information from it. I would like your advice about building a silo.

0

1. Is it most economical in the end to build a ten-foot cement silo 35 feet high, or a twelve-foot silo 30 feet high ? I do not care to grow more than five or six acres of good corn at the outside. I can get a twelve-foot one built same price as a ten, for the building. Which is there most waste from, the top or the sides? Is there much waste round the edges of a cement silo which is plastered on the inside?

2. Are the chances of getting a good stand of clover good, with mixed oats and barley, a bushel of each to the acre, or is it better to sow less to be safe?

3. What kinds of corn are the best for getting well-matured silage, and is it better sown with the drill or in hills, by R. M. B. hand?

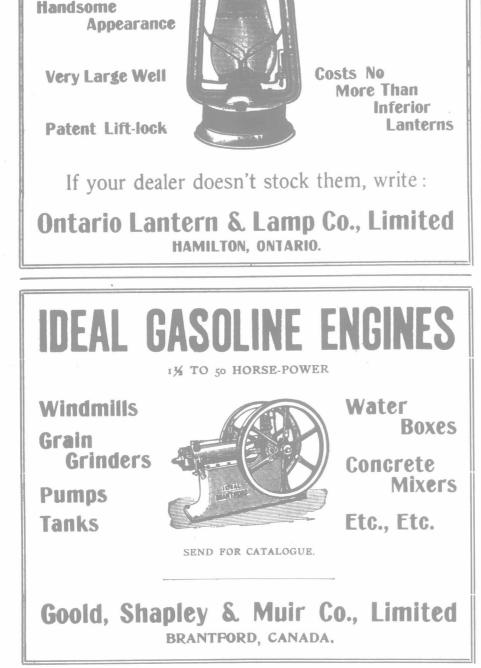
Ans.-1. Probably, under the conditions you specify, it would be more economical, so far as cost is concerned, to build 12x30 feet, but we should build 10x35 feet, all the same. It is a decided advantage to be able to take off a little greater thickness daily when feeding, and. if some silage is left over for summer, there will be less decayed silage on a silo of the smaller diameter. There should be little or no actual waste around the edges of a well-built cement silo, except, perhaps, for a few feet near the top.

2. We are wondering ourselves concerning that very point.

3. Small White Cap, Compton's Early. and Bailey, should mature pretty well in your locality. Plant in hills, either by hand, or with the check-row planter.

#### GOSSIP.

CLYDESDALES AND HOLSTEINS BY

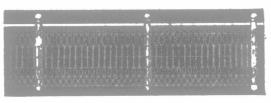


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Perfect

Adjustment

#### CYCLONE WIRE FENCES



**Our Many Styles of** Ornamental Fences are Dipped in Green or White Enamel.

> WRITE FOR FULLY ILLUSTRATED CATALOGUE.

16c. TO 20c. A RUNNING FOOT.

If our goods are not represented in your district, we will send you the conditions of our agency proposition.

THE CYCLONE WOVEN WIRE FENCE CO., LIMITED Head Office: 1170 Dundas St., Toronto, Ont. 137 Youville Sq., Montreal, Que.

# NORTHWEST FARM

Half a million acres of wild and improved lands near railway. All specially selected in the most fertile districts.

Special excursion in the spring to see these lands.

Write now for particulars as to prices and location.

#### **STEWART & MATHEWS CO., LIMITED** Galt, Ontario.

A few good agents wanted.

lin

WHEN WRITING ADVERTISERS MENTION THE FARMER'S ADVOCATE.

hours old, the mare was milked and the foal given the milk, and afterwards the foal held up and allowed to suck. It was given two tablespoonfuls of castor We fed it at intervals during the oil. day. At 9 o'clock at night we left it. The next morning it was unable to raise its head, so we fed it again with milk and a little whiskey; also gave it injections, and it had a passage. It died about 10 o'clock.

2. Do mares carry male foals a month longer than females?

3. Was the castor oil all right?

4. The foal's feet were soft and spungy, and the horn came only half-way down. Was this normal?

5. Cow went off feed and failed in C W. B. milk.

Ans.-1. Foals sometimes are weak when born. Lack of exercise during pregnancy tends to cause this. All that can be done is hold them up to nurse. This should be done every hour, or at least 11 hours, until they can rise and help themselves. The long fast from 9 at night until next morning so weakened it that it could not recover. It is possible if it had been attended to hourly, it might have lived.

2. No.

3. It did no harm, but it is wise to depend upon injections.

4. This was normal.

5. Purge with 2 lbs. Epsom salts and 1 ounce ginger. Follow up with a tablespoonful of equal parts sulphate of iron, gentian, ginger and nux vomica, three

#### AUCTION.

An auction sale of more than ordinary interest to the farmers of Ontario. will be held at the farm of F. H. & W. F. Elliot, two miles north of York Station, on the G. T. R., five miles east of Toronto, on Tuesday, May 23rd, when there will be sold forty head of registered Holstein cattle and several registered Clydesdale mares and fillies. Among the Holsteins are such high-class animals as Inka Slyvia De Kol, with a seven-day butter record of 26.04 lbs.; Delta Gem, with a seven-day record of 20 lbs.; Pauline Berchell Calamity, seven-day record 19 lbs, etc. Practically every one of the entire lot has rich official backing, and this is one of the very best lots of highclass Holsteins ever offered at auction in Canada. The Clydesdales are equally as choice a lot, from one to five years of age, winners at Guelph in the strongest company the country can put up. In next week's issue will appear a synopsis of the breeding of the Holsteins, and the following week something will be said about the breeding of the Clydesdales. The terms will be cash, or six months on bankable paper, with 6 per cent. interest. Catalogues on application to W. F. Elliot, Box 8, Coleman P. O., Ont.

A FINE POINT.

"Tell me," said the newly-rich lady, as they were discussing points of pronunciation, "do you say 'the Rhine' or 'the Rhone'? I hear it both ways."-The Christian Register.

1866

APRIL 27, 1911

Porridge and Water Diet.

I would like to answer Thos. McMillan's letter on the reciprocity treaty. Are the Americans our neighbors, as Mr. McMillan

says? For the last forty years, we

Canadiams have been ignored and buffeted by the Americans, and during that time

we have made our way secure and firm

under the protection of the British Empire. Within the last few years, what

have we been to the British Empire?

Nothing but a burden. But now, when

we are on the point of being some use, what happens ? The Americans want to cross our path that leads to the British

Capita) and turn us to the path that leads to Washington. Has Mr. McMillan

at the present time.

throw away our British market. What

has the Government and the Department

of Agriculture done during these last 40 years? They spent \$500,000,000 building

canals, railroads, cold storages to put

Canada in connection with the British

market, and now, is that money to be

wasted? I would like to ask Mr. Mc-

Millan what is wrong with Canada at the

present time ? Is not Canada prosper-

ous? The farmers are the same; work-

ing men are well paid. There is not unemployment and poverty in Canada, ex-

cept what is due to drink, vice, and sick-

ness; and this prosperity is sound; we are

independent, well protected, and the sun

shines just as well on this side of the

line as the other. What more do we

want? We must look into the future as

well as in the present. But, yet, our

farmers are not satisfied. They want the

reciprocity treaty so they can get better

market for their products. Same old song, over and over. Now, last summer,

when the markets were high, is this not

true that 90 per cent. of our farmers who

had to buy grain, forage, or even

butcher meat, did more kicking and

bought than it was really worth. But

those very same farmers who sold their

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over whatever product they

their hogs at \$9

Editor "The Farmer's Advocate"

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forgot that hardly a year ago the Amerisecond season cans threatened us and menaced us with a surtax? They may be on friendly terms with us at the present time, but as the first. how long will it last? I do not know; nobody knows. Again, Mr. McMillan is turning back to the reciprocity treaty of brand: It is perfectly true that during This the last part of the treaty, production was greatly stimulated in this country, and we got very high prices for our products, but this resulted from the Civil war in the United States. Production was checked in the United States; production was stimulated in Canada, and the prices that we obtained for our production during the last six years of the existence of that treaty were very much higher than could be reasonably expected This If we do have a reciprocity treaty with underwear the States, what will happen? We will send all our products to the States and won't

shrink

THE FARMER'S ADVOCATE.

Get

underwear

that

fits as well

the

X UN SHRINKABLE X Trade Mark Just the weight you want, the style you prefer, at a price you'll think fair. Ask for Penman's Pen-Angle Underwear. Have you tried No. 95, medium weight?

PEN-ANGLE Underwearand Hosiery

Every

Angle guaranteed

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garment

The market for hay will be the same. is higher in the States, and so is barley, and oats cheaper. But I would like someone to tell me how many farmers in Ontario at the present time, have any grain of any account to sell. Seventy-

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lady, as onunciaor 'the s.''—The

cattle at \$7 a 100 lbs., or a 100 lbs., I wonder if they did kick? I should not be the least surprised they would be expecting more. Then what would it be with the reciprocity treaty? I suppose we will have to eat porridge and water for breakfast; water and porridge for dinner, and porridge and water

for supper. Now, Mr. McMillan says we shall get better market for our cattle. No doubt Canadian farmers would get a benefit under the agreement, at least for the present. As for our great Northwest, no doubt we all know that the market for second-grade cattle is poor at the present time. Why? Because it is a new country, and if the treaty goes on, our meat-packing industry would be not only injured, but destroyed. It is just as plain as two and two make four, for our Canadian meat-packing industry has no chance whatever against the beef trust of America. Americans would get the hard wheat from our Northwest without paying duty, and drive our millers from the export market. As for hogs, one of the most important products of Ontario, the average price of hogs in the Provinces of Ontario and Quebec is better than it is in the States. As far as eggs are concerned, the better grades are higher in the States, and lower grades are cheaper than in Canadian markets. As for butter, the best creamery butter is better marhet, and lower grades are cheaper, the same as eggs, hence we would lose our n Chicago than in Toronto. Poultry When Writing Advertisers, Please Mention "The Farmer's Advocate." ocal market. Since December 1st, 1910.

#### Your Last Chance Order at once if you would have these BARGAINS in our surplus stock of Seed Grains. Prices are for 5-bush. lots or over, f.o.b. Toronto. Bags free. PEAS. Per Bush. \$1 15 1 40 OATS. Per Bush. WHEAT. 1 15 1 35 1 35 Wild Goose White Russian... Red Fyfe..... BARLEY. 1 10 O. A. C. No. 21. 1 00 Mandseheuri Duckbill 60 90 For prices of CLOVER, TIMOTHY, ALFALFA Lincoln Daubeny (the earliest oat)..... and FERTILIZERS, see last issue, page 710. MANGEL SEED Plant Keith's Prizetaker, it is the best ; lb., 20c. Toronto, or 25c. postpaid. FOR OTHER VARIETIES SEE CATALOGUE. SWEDE TURNIP Plant Keith's Prizetaker, it is the best; lb., GEO. KEITH & SONS TORONTO, ONT. 124 King St. East, Seed Merchants since 1866.

five per cent. of Ontario farmers grain, besides what they grow of their own, and feed it, which is very wise. We may get some advantage by selling a portion of the higher grade of the products to the States; we shall lose upon a great portion of the lower grade, which, as everyone knows, is the greater proportion of the product.

Are Americans sleeping? Not the least; but I am afraid the most of us are. If we don't know, we ought to know, that the American resources are nearly exhausted. Their timber will last for less than thirty years at the present rate of cutting; their anthracite coals will only last fifty years, and bituminous coal for only 900 years. Their supply of iron ore, mineral oil and natural gas, are being rapidly depleted, and many of the great fields are already exhausted. Mineral resources such as these, when once gone, are gone forever.

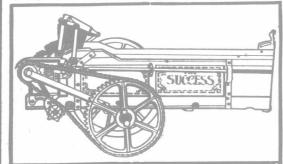
If the reciprocity treaty goes on, we might as well say good-bye to our timber in the north, our pulp wood, and our mineral, and when they are gone, will the Americans be our friendly neighbors, will it be an opportunity of a lifetime, as Mr. McMillan says? No doubt we will be guided, not through the storm, but in the storm, and into the ruination of this country. I think the most of us better wake up, rub our eyes, and plunge our head in cold water, before we get our R. BONNART. eyes opened for us. Huron Co., Ont.

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### THE FARMER'S ADVOCATE

# Just One Manure Spreader **Is Really Modern**

James I. Kemp, known throughout the implement world as "The Father of The Manure Spreader", built manure spreaders for thirty years before he felt that he had attained perfection in this money-saving aid to the farmer. He reached that perfection seven years ago-in the SUCCESS. In it he included every merit, and from it he omitted every defect, his long experience had shown him. Thus it embodies every principle that you want, and lacks every fault that would give you trouble. You should examine it.



Built with more strength than will ever be tested in use, devised so it cannot clog. Gear that controls apron feed and regulates volume of spread, runs in an OIL BATH -so it stays in order and runs easy always.

#### **BUILT RIGHT HERE IN CANADA**

You are taxed nothing but the bare cost of materials and workmanship, plus a most modest profit, when you buy a "SUCCESS". It is NOT a foreign-made machine. We build it right here in Weland, and we stand back of it in every respect.

### 7 SETS ROLLER BEARINGS MAKE EASY DRAFT

Your horses won't have to strain to draw this manure-spreader-

"the spreader that PULVERIZES". It does run easy; and it does stand up to its work under the hardest strains-because it is built for strength. You should know all about this money-maker and laborsaver before you invest in any manure-spreader. Ask for book.





Have you received a copy of our illustrated Bulletin No.600, describing

#### QUESTIONS AND ANSWERS. Miscellaneous.

#### RAILWAY STATISTICS - FIRE RANGING FORESTRY.

As I have been a subscriber to "The Farmer's Advocate'' about ten years, and never asked for any information, private or public, I hope the questions I am asking you will be of a sufficiently important nature to be of value to readers of "The Farmer's Advocate.'

1. Is there any United States capital invested in the Grand Trunk Railway; if so, how much, and who has the control of it?

2. What is the assessed value of the Grand Trunk land in Canada compared with the assessed value of the land of the same road in the United States?

3. What comparison are the travelling rates on the Grand Trunk in the two different countries, Canada and United States ?

4. What amount of land was given to the C. P. R. for its construction in Canada by the Dominion Government?

5. How long was the land exempted from taxation ? 6. How long was this land held by the

C. P. R. Company before there was a sale of any great amount of it made?

7. How much land do the C. P. R. Company own to-day that was given to them by the Dominion Government for its construction ?

8. Is the land that is held by the C. P. R. to-day, that was given to them by the Dominion Government, assessed ? H so, to what comparison is it assessed by the land that is owned by the farmers in the same district?

9. If not assessed, what amount of taxes would it bring if assessed for the same value as the farmers are assessed in the same district?

10. Was there any bonus given the C. P. R. by the Dominion Government outside of the land grant? If so, how much?

11. What amount of taxes would be raised in Toronto on manufacturing companies if they were assessed in proportion with other business concerns in the same city ?

12. Was there ever a farmer exempted from taxation in the Dominion of Canada ?

18. How many millionaires are there in Canada to-day ?

14. And what occupations did they follow to obtain it (was it farming)?

15. How much does it cost the Dominion Government for fire rangers during one year?

16. How much damage has been done by fire in our timber limits in the last ten years?

17. On an average, how much does the Dominion Government receive per acre for a timber limit?

19 What is th

FOUNDED 1860.

#### Eczema was Spreading TILL D.D.D. CURED IT.

This is a translation of a letter written us in French, on April 16, 1910, by Mr. Dan Babineau, Cap Lumiere, N. B.

"I had been suffering with eczema for about six months, and had consulted several doctors who did not do me any good. The disease was spreading, and I way most uncomfortable. I thought I would go crazy. All my friends were telling me I would lose my hands unless I found the right treatment.

One day I read in the Messenger about your D. D. D. treatment, and asked for a sample. It did me so much good that I immediately ordered two large bottles. It took eight bottles altogether to cure me of this terrible disease. I shall never be without a bottle of D. D. in my home.'

The records of ten years of complete cures of thousands of the most severe cases show that D. D. D. stands to-day as the absolutely reliable eczema cure.

Write to-day for free trial bottle to the D. D. D. Laboratories, Dept. A, 49 Col-

borne street, Toronto. It will give you instant relief. (For sale by all Druggists.)

**DOES A WASHING JUST LIKE PLAY!** 

#### Six Minutes to Wash a Tubful!

Ladiesl just see how easy I do a big washing with my 1900 Gravity Washer. I start the tub a-whirling. Then the gravity device under the tub begins to help and the rest is just like play. Washes a tubful in six minutes! How's that for quick and easy work? The 1900 Washer Co. sent me this marvellous machine on trial. They didn't ask for notes or cash in advance. And they let me pay for it a little each week out of the money it saved me! They treat everybody the same way.



on thirty days' trial, the same as I got mine. The company will let you pay for it on the same easy terms they offered me. The Washer will actually pay for itself in a very itself in a very short time. Mine did! I wouldn't take \$100 cash for

5100 Cravity Washer if I couldn't get another just like it. It does beautiful work—handles any-thing from heavy blankets to daintiest laces. Every housewife who is tired of being a drudge ard a slave to the washtub should write to

F. A. E. Bach, Manager, The 1990 Washer Co., 357 Yonge Street, Toronto, Ontario, for their beautiful Washer Book and generous offer of a Washer on free trial.-Mrs. R. H. Fredwinnipeg, or Montreal and suburbs. Special arrangements made for these districts. 2191



TITAterous

Some people have the idea that a steel silo is unusually expensive, that it is difficult to erect, hard to keep from rusting, will attract lightning and will not preserve ensilage better than an ordinary silo of wood or cement.

This bulletin has been written, not so much to advertise this silo as to convince you that these impressions are dead wrong.

> We have printed in it a few letters from some of our last years customers that will be sure to interest you.

> If you are contemplating the erection of a silo, or if you would "just like to know," send a post card for bulletin No. 600.

THE WATEROUS ENGINE WORKS CO., LIMITED CANADA BRANTFORD

RICACI Tires and Repair Parts at Cut Prices. Send for our Free Catalogue. T. W. BOYD & SON, 27 Notre Dame St. West, Montreal. that is known to have been made by one person or company by reselling timber limits purchased from the Government? A FARMER.

At considerable pains and trouble, we have answered these inquiries as best we could. The replies concerning railway taxation have been drafted by H. J. Pettypiece, of the Forest Free Press, and those concerning forestry, by our esteemed correspondent, H. R. McMillan, of the Forestry Branch, Department of Interior, Ottawa. We trust the information may be useful to our inquirer.

Ans.-1. There is undoubtedly U. S. capital invested in the G. T. R., but by whom held it is impossible to say without having a G. T. R. annual report. The company has 3,578 miles in Canada, capitalized at \$356,794,114, and 1,151 miles in the United States, capitalized at \$70,413,551.

2. It is impossible to give the assessment of G. T. R. lands in either Canada or the United States. In Canada, the company paid in 1909 taxes to the amount of \$423,852 on 3,578 miles of line, or \$118 per mile. In the United States, in the same year, the company paid in taxes \$636,538 on 1,151 miles, or \$553 per mile.

3. Passenger rates are three cents per mile on the G. T. R. in Canada, and two cents per mile on nearly all the G. T. R. mileage in the United States.

4. Up to June 30, 1909, the C. P. R. had earned and received land grants from

(Continued on next page.)



#### APRIL 27, 1911 0 1865

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written by Mr.

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Our popular "Penny Plan" speeds the day of Universal Typewriting.

From a thousand different direc-

tions comes a mighty chorus of ap-

proval, voicing the popularity of The Oliver Typewriter "17 Cents a Day"

The liberal terms of this offer bring

the benefits of the best modern type-

writer within easy reach of all. The simple, convenient "Penny Plan" has

It opened the floodgates of demand

Individuals, firms and corporations

-all classes of people-are taking advan-

tage of the attractive plan and en-

dorsing the great idea which led us

The trend of events is toward the

The\_\_\_\_

OLIVER

general adoption of beautiful, legible,

to take this radical step-

of written communication !

speedy typewriting in

place of slow, labo-

rious, illegible hand-

The great business

It is just as important

interests are a unit

in using typewriters.

THE

writing.

ness.

and has almost engulfed us with

assumed international importance.

Purchase Plan.

orders.

### THE FARMER'S ADVOCATE.

the Dominion Government to the amount of 19.816.010 acres

pany amount to ten per cent. of its entire capital, including watered stock.

nounces that it has still 8,500,000 acres in Manitoba, Saskatchewan and Alberta, for sale at from \$8 to \$10 per acre.

swers this one. 8. It is not assessed until it is sold or

10. The cash bonuses, or subsidies, paid by the Dominion to the C. P. R., up to June 30th, 1909, amounted to \$39,802,-528, besides over \$10,000,000 paid by the Provinces and the municipalities. In addition to all this, the Dominion Government handed over to the company lines already completed, and valued at \$37,-785.319.97.

Toronto informs us that he has no such information at hand, because there is none to collect, for the reason that the properties are all assessable as provided

one has become a millionaire in Canada by actual farming, apart from speculation.

15. The Dominion Government has charge of the fire ranging in Manitoba, Saskatchewan, Alberta, and about 16,000 square miles along the main line of the C. P. R. in British Columbia. The other Provinces administer their own fire-protective services on public lands. The fire-protective service of the Federal Government dates from 1901; it is constantly growing. Each year, remote districts hitherto unprotected, are supplied with rangers, and each year the more densely settled, more heavily travelled regions are given a more intensive protection. For this reason, the expenditure for fire protection is not uniform yearly, but is being increased; in 1908, the Federal Government expended \$49,895.17, and in 1909, \$62,300. A portion of this money is refunded by railways and timber-limit holders, on account of a law which requires that railways building through timbered Federal lands, shall refund half of the cost of the fire patrol necessary to prevent fire escaping from the right-ofway, and that the holders of timber limits shall pay half the cost of the fireprotective service maintained by the Federal Government on their timber lands. The expense of fire protection is, because of meagre appropriations, smaller than it should be. There are about 700,000 square miles of timber lands under the control of the Dominion Government. For 450,000 square miles, chiefly in the far north, there is no fire-protective system,



769

EASTLAKE'

STEEL SHINGLES

**Condition** Powders For herees, cattle, hogs and poultry-aet a stock food, but a scientific blending of reets, heres and barks; makes good solid field For horses, but a scientific blending of rests, herbs and barks; makes good solid flesh naturally, not artificially. Makes pure bleed and cleanses the system. Try it for coughs, scratches, distemper and worms. Two cans guaranteed to put your horse in first-class condition. One large can, 50c., prepaid, at most dealers, or

5. Until the net earnings of the com-6. Most of the sales have been made within recent years. The company an-

7. The answer to question No. 6 an-

improved.

9. Cannot say.

The Connor Machine Co. "17 Cents a Day" Offer

11. The Assessment Commissioner of by the Assessment Act of Ontario.

12. We are not prepared to assert quite such a broad negation.

13. Don't know; we are not acquainted with all of them. 14. It is pretty safe to say that no

Stirs all Canada! The Whole Country Applauds the ""Penny Purchase Plan" only on The Oliver Typewriter, and you have an overwhelming total of tangible reasons for its wonderful suc-

#### Thus the aggressive merchant or manufacturer can reach out for more business with trade-winning letters and price lists. By means of a "mailing list"—and The Oliver Typewriter you can annex new trade territory. Get this greatest of business aids-

for 17 Cents a Day. Keep it busy. It will make your business grow.

**A Business Builder** 

The Oliver Typewriter is a power-

ful creative force in business-a veri-

table wealth producer. Its use multiplies

business opportunities, widens business influ-

cnce, promotes business success.

To the professional man the typewriter is an indispensable assistant.

Barristers, Clergy-

Typewriter G.

The Standard Visible Writer You can master The Oliver Typewriter in a few minutes' practice. It will pay big daily dividends of satisfaction on the small investment of

A Stepping-Stone to Success

To make typewriting the universal medium Speeds Universal Typewriting

cess.

Aid's Professional Men

Α

Gasoline Engine

That will run a cream separator

better than it can be done by

hand.

That will pump water and pulp

roots for 40 head of stock for

ı cent a day.

Limited

Exeter, Ontario.

men, Physicians, Journalists, Architects, Engineers and Public Accountants have learned to depend on the typewriter.

17 Cents a Day.

#### **A Mechanical Marvel**

to the general public to substitute typewriting for "long-hand." For every private

citizen's personal affairs are his busi-

The Oliver Typewriter is unlike all others.

With several hundred less parts than ordinary typewriters, its efficiency is proportionately greater.

Add to such basic advantages the many time-saving conveniences found For young people, The Oliver Type-writer is a stepping-stone to good positions and an advancement in business life.

The ability to operate a typewriter counts for more than letters of recommendation.

Start now, when you can own, The Oliver Typewriter for pennies.

Join the National Association of Penny Savers!

Every purchaser of The Oliver Typewriter for 17 Cents a Day is made an Honorary Member of the National Association of Penny Savers. A small first payment brings the magnificent new Oliver Typewriter, the regular \$125 machine.

Then save 17 Cents a Day and pay monthly. The Oliver Typewriter Catalog and full details of "17 Cents a Day" Purchase Plan sent on request by coupon or letter.

- COUPON -THE OLIVER TYPEWRITER CO. Oliver Typewriter Bldg , Chicago Gentlemen. Please send your Art Catalog and details of "17.Cents-a-Day" offer on The Oliver Typewr.ter. Address Sales Department

TYPEWRITER COMPANY OLIVER Oliver Typewriter Bldg., CHICAGO.

d the other 250,000 square miles were, in 1909, protected by 96 men, and such help as they could secure temporarily in dangerous periods. Fire protection must be made as nearly perfect as possible, and this will require the building of roads, trails, telephone lines, lookout stations and permanent fire-breaks, all of which will, while decreasing the risk, increase

the expense. 16. This question cannot be answered with any degree of accuracy. Leaving out of account all the damage occasioned by forest fires impoverishing the soil in some areas, totally destroying it in others, sweeping away all vegetation and most of the food for vegetation, creating unsightly and useless deserts, devastating the catchment areas of streams, and thereby causing extremes of high and low water that yearly result in economic loss, not reckoning any of these instances of permanent and irremediable loss, the damage to the resources of the country, due to forest fires still remains too great for human calculation. It is safe to say that the loss due to past forest fires. would equal in value the total remaining resources of one of the smaller Provinces. The fires of the past ten years even are unknown. In very few instances has it been possible to roughly calculate their value, so far flung are our timber areas, so small the staff available for their examination, and so inaccessible many of the districts in which fires occur.

(continued on next page.)

Palmer Medical Co., Windsor, Ont. Veterinary booklet sent free on application.

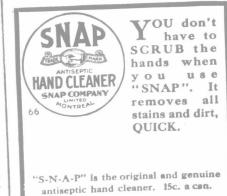
#### ACCORDING TO PURE FOOD LAWS.

0.....

Teacher was telling her class little stories in natural history, and she asked if anyone could tell her what a groundhog was. Up went a little hand, waving frantically.

"Well, Carl, you may tell us what a groundhog is."

"Please, ma'am, it's sausage."



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#### THE FARMER'S ADVOCATE.

value of the merchantable timber destroyed by fire in Canada the past ten years, reckoned at the market price, and including the labor it would employ, would certainly be \$150,000,000. One company in British Columbia has lately secured a judgment of \$650,000 against the Great Northern Railway, to compensate for timber burned in 1909. An examination of a 212 square mile valley in Alberta, revealed that the timber on 179 square miles had been totally destroyed by fire, at a loss to the community of about \$9,000,000.

17. Dominion Government timber limits are sold by the square mile, to the highest bidder, at public auction. They are withdrawn from sale if the price offered is not equal to an up-set price set by the officials of the Department of the Interior. The prices received in Manitoba, Alberta and Saskatchewan, averaged, per square mile, \$95.46, in 1905; \$197.04, in 1906; \$251.44, in 1907, and \$487.46, in In British Columbia, the average 1909. prices received were, per square mile, \$214.82, in 1905; \$444.19, in 1906; \$2,091.84, in 1907, and \$10,954.49, in There were no sales in 1903. 1909. Purchasers of timber limits are required by their license contract to cut a specified amount of timber per year, should the community need it, to pay an annual ground rent of \$5.00 per square mile, to pay a royalty of 50 cents per thousand board feet when they cut the timber, to pay half the per acre cost of fire protection, and to cut the timber under regulations imposed by the Dominion Government.

18. The timber limits taken up under the Dominion Government, have usually been held by the original licensees, and in cases where they have been sold, the consideration received has not been generally known. The Dominion Government has never undertaken investigations such as that prosecuted by the United States Bureau of Corporations, and commented on in "The Farmer's Advocate" a few weeks ago, so it is not possible to state what has been the increase in value of timber limits since they left the hands of the Government. It is known, however, that the chief profit in the lumber business, and often the only profit, has not been in the manufacture of lumber, but in buying standing timber cheaply, and holding it for higher prices. stances have come to light in Canada which show that the increase in the selling price of timber lands has been very great over a short period of years. One tract was secured from the Government in 1885, for \$25,000. The owner logged it to supply his sawmill until 1908, then refused \$3,000,000 for limit and mill. Another tract was assembled in 1907, for less than \$20,000, and is now held at \$125,000. The greatest increase in selling prices has been in British Columbia, where, within recent years, tracts secured for thousands, changed hands at hundreds of thousands. Instances are known where limits secured originally, less than ten vears ago, for \$100,000 or less, have sold for \$2,000,000 to \$4,000,000.

# **Rupture Cured** Without Operation

# No Hospital or Doctors' Bills; No loss of Time from Work, and Not a Single Penny to Pay if You Don't Get Better.

No longer any need to drag through life in the clutches of rupture.

No operation, no big expense to stand in your No operation, no big expense to stand in your way. And not a single cent's worth of risk. Think of that !-you who have spent dollar after dollar without finding a thing that has done any good. You who have been afraid that some day you'd have to risk the dangers of operation—you who dread the surgeon's knife because you know it results in permanent weak-ness or death about as often as in recovery.

In the last 24 years more ruptured people have been cured without operation than by all the operations ever performed.

performed. Cured without being in bed a single day— without losing a single hour from work. Cured by the wonder-working Cluthe Truss (Cluthe Automatic Mas-mager)—something so re-markably beneficial that in 99 cases out of every

begins at once. For this is far **more** than a truss-far more than merely a device for holding the rupture in place.

#### Try It at Our Risk.

We have so much faith in the Cluthe Truss that we are willing to let you prove, by trying it at our risk, just what it will do for you. If it fails to hold your rupture securely in place, when working and at all other times— if it doesn't do you a world of good—then it won't cost you a single cent. All guaranteed in writing. in writing.

#### Cure Takes Place While You Work.

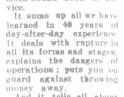
A Cluthe Truss-right from the first day-will put an end to all danger of your rupture coming out.

And, in addition-while you go on working, remember-it soon overcomes the weakness which is the real cause of rupture-Does it by massaging the weak ruptured parts-All entirely automatically. And this stimulating massage strengthens just as exercise strengthens a weak arm-in most cases soon makes the ruptured parts so strong that no sign of the rupture is left. That is how the Cluthe Truss has cured some of the worst cases of rupture on record-cured many of them after everything else, including operation, had proven utterly useless.

Free Book Tells All About It.

So that you can judge for yourself, we want to send you-free-our eloth-bound book of ad-

Trusses Like These



FOUNDED 1866

money away. And it tells all about the Cluthe Truss-how little it costs-how it ends all expense - how

...

ends all **expense** — how it is water-proof — how it has no springs, band, belt or elastic around your waist, no leg-straps, nothing to pinch, chafe, squeeze or bind. And how you can try a Cluthe Truss entirely at OUR risk.

Write for the book to-day-don't put it off-this book may be the means of adding many years to your life and of restoring you to full strength and usefulness. Simply say in a letter or postal: "Send me your book." In writing us, please give

our box number.

Box 109 - CLUTHE INSTITUTE **New York City** 125 East 23rd St.,

The minute it takes to write for this book may free you from suffering for the rest of your life.

# Dr.Williams'Fly and Insect Destroyer

IS MANUFACTURED SOLELY BY

BAKER & BOUCK, MORRISBURG, ONT.

#### Points of Emphasis.

- DR. WILLIAMS' FLY AND INSECT DESTROYER.
- 1. The farmers' friend.
- 2. Protects horses and cattle.
- 3. A veritable vermicide.
- 4. A perfect disinfectant.
- Perfectly harmless.
- Easy of application. Increases supply of milk.
- Kills all the bad germs in your stable, henhouses, etc., prevents roup and hen cholera, and arrests abortion in cattle. Has cured

#### Notice.

- The general satisfaction cows will manifest when freed from the annoyance of flies. The increase in the amount of
- milk they will give. The comfort and ease in milking.
- The hen get busy at her nest to lay the golden winter egg.
- The absence of hair-lick on the cows' sides.
- The healthy condition of your porkers' epidermis.
- Be progressive and use DR. WILLIAMS' FLY and INSECT



take Gibbon's Rome when she found she couldn't get Poems of Passion at the library, had nothing on a boy who appeared at a library in Detroit the other day," said Howard E. Coffin, of that city.

WHAT'S IN A NAME ?

"''Ma wants a book,' the boy announced.

" 'All right, my son,' the librarian replied. 'What sort of a book does your mother wish?'

"'She wants one with a red cover. She says she ain't had none but blue covers lately.

#### TRADE TOPIC.

Spring is the favorite season for painting. A fresh coat of paint greatly improves the appearance of the house or other buildings, while preserving them from decay. It pays well to paint before the building begins to look shabby, as the longer it is delayed the more paint is required to make a good job of it. See the advertisement in this paper of the Imperial Varnish & Color Co., Toronto. Ask your dealer for information, and for the Maple Leaf Paint Card, or write the company for one. Address, The Imperial Varnish & Color Co., To-

Here is a story which Professor Bailey, of Cornell, enjoys telling on himself. One day he dropped into an old book emporium in a certain Western New York city, and there found an edition which he wanted. Asking its price of the bookseller, he was told that it was \$5. Thinking this rather steep, Professor Bailey said: 'Don't you think that is a pretty high price for an old book? 'Well,' said the bookother, 'it may seen so to you, but it ally doesn't make on difference to me whither you buy a net, for there's an o'd fool down at 1 and by the name of Bailey who'll take that Stepast as soon distemper in two days.

N. B.-Finest vermin destroyer and disinfectant known.

DESTROYER. We guarantee it to do all that we claim for it. If not satisfied, we want to hear from you.

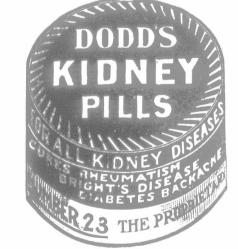
The Three Grandest Disinfectants: 1. Sunshine; 2. Air: 3. Dr. Williams' Fly and Insect Destroyer.

None genuine without the facsimile signature of W. Williams on a yellow label printed in black.

J. A. Brownlee, 385-7 Talbot St., London, Ont., SOLE AGENT FOR LONDON DISTRICT.

John Fowell, J. A. Johnston & Co., Travelling Representative 171 King St., East, Toronto, Ont. Woodstock, Ont.





QUESTIONS AND ANSWERS. Miscellaneous.

APRIL 27, 1911

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# ALFALFA AS PASTURE.

Does alfalfa make good pasture for (a) horses and spring colts; (b) cows or young calves; (c) pigs? L. E. E. Ans.—It makes excellent pasture for all these classes of stock, though a certain degree of ordinary precaution should be observed to see that ruminants do not bloat when pastured upon it. The grazing of horses or sheep is hard on the stand. In fact, the pasturing of any class of stock is hard on it, unless the field is one particularly well adapted to the crop.

#### QUANTITY MATERIAL FOR WALL.

How many cubic yards of gravel, and how many barrels of cement would it require to build a cellar wall the perimeter of which would be 150 feet, height 7 feet, by 12 inches thick, and 40 feet of cross - walls, 7 feet high by 10 inches thick? Stone fillers to be used in the construction. A SUBSCRIBER.

construction. A STBSCHIBER. Ans.—The amount of material required for above-mentioned walls, supposing that one-fourth of space would be occupied by stone fillers, would be about 41 cubic yards of gravel, and 35 barrels of cement, mixed 1 to 8.

#### DOCKING HACKNEYS.

Why do all cuts of Hackney horses show them docked? All I ever saw, unless half-bred, were docked. The docking will prevent me from ever owning a pure-bred one, if all pure-bred ones are docked. D. B. S.

Ans.—Docking is supposed to set off the appearance of a carriage-bred horse. Opinions may differ as to whether or not it does so, though most men would probably vote in the affirmative. For our part, we do not like the idea of removing a horse's fly protection. There is no reason why you could not raise pure-bred Hackneys without docking them, though you might find difficulty in making sales.

### PROPAGATING SWEET BRIER.

Kindly give instructions for starting hedge of sweet brier. Will berries of last season grow, and by what treatment? AMATEUR.

Ans.-Probably the best way of starting a sweet-brier hedge is to grow from seed. There are difficulties in the way of securing germination of rose seeds, but they can be overcome, and, in the end, the plants are cheaply produced, and good. The seeds of sweet brier (Rosa Rubiginosa) should be gathered in autumn, and at once stratified with moist sand or allowed to ferment in tubs, with a little water, and kept in a fairly warm place. When well rotted, they can be easily rubbed and washed clean, and should be planted at once, either in carefully-prepared and well - manured beds, out of doors, or in flats in a cool greenhouse. Sweet brier seeds, planted out of doors in November, 1911, may be expected to germinate in the spring of 1913. Seed sown out of doors should be mulched with pine needles, or other litter, two inches deep. Frequent examinations should be made in spring, and the covering at once removed when the seedlings appear. If they do not appear, let the mulch remain to keep down weeds and retain moisture in the seedbed. Pans, or flats, in which seed has been planted, should be kept at least 18 months before discarding, with the soil always moist. When started, the young seedlings make most satisfactory growth, and can generally be transplanted into nursery rows when one year old. When two years old, they are fit for permanent planting. Other varieties of roses, such as R. canina. R. multiflora, R. ferruginea and li rugosa, may also be reproduced economically from seeds.



R. W. Walker, Utica, Ont., near Port Derry, G. T. R., and Myrtle, C. F. R., Breeder of Shorthorn cattle, in ordering a change in his advertisement, writes i I have sold the two cows named in my east advertisement." A few very choice lead calves, from heavy-milking and high--sting dams, are offered in the new adcatisement.

# To be genuine it must bear the name " Bissell "

Because of the great success of the "Bissell" In-Throw Harrow several of its features have been imitated on other harrows. But no other harrow will give equal results unless it is built *exactly* the same. The plates of the "Bissell" could be put on other interrows, but they wouldn't cut deep into the soil and stir it up thoroughly like they do on the "Bissell." The reason why the "Bissell" has such wonderful capacity is not due alone to the shape of the plates, nor to position of frame and seat, but because all parts are in the correct proportion. If you want the In-Throw Harrow that wins every field test, make sure the name "Bissell" is stamped on it. Write Dept. W for booklet describing both our In-Throw and Out-Throw Harrows, and our 16-plate Wide-Cut Harrow, which we make especially for the West.

Name.....

771

T. E. Bissell Co., Ltd., Elora, Ont.

P. O. Address....

Province.....

The EINPIRE LINE "Everything that's good in Cream Separators" Empire Cream Separator Co. of Canada, Ltd. WINNIPEG TORONTO SUSSEX, N.B.

ONT.

tute

Was So Bad With Heart and Nerves Could Not Sleep At Night.

772

Many men and women toes night after night upon a sloopless bed. Some con-stitutional disturbance, worry or disease has so debilitated and irritated the heart and nervous system that they cannot enjoy the refreshing sleep which comes to these whose heart and nerves are right.

Mrs. John Gray, Lime Lake, Ont., writes: "Last summer I was so bad with my heart and nerves that I couldn't aloop at night. There was such a pain and heavy feeling in my chest that I could not stoop, and at at times I would become dizzy and have to grasp some-thing to keep from falling. I tried different things but never got anything to do me any good until I tried Müburn's Heart and Nerve Pills and I can now recommend them to all troubled as I WRS."

Milburn's Heart & Nerve Fills are 50 cents per box, or three baxes for \$1.25, at all dealers, or mailed direct by Inc T. Milburn Co., Limited, Toronto, Ont.



A small premium will secure apolicy in our Company, by which you will be fully insured against any loss resulting from the death of your mare or its foal or both. Policies issued covering all risks on animals, also transit insurance, at all times, in all cases. Prospectus free on demand.

#### General Animals Insurance Co. of Canada. Dept. D. Quebec Bank Building Montreal. OTTAWA BRANCH :

No. 106 York Street, Ottawa



#### OUESTIONS AND ANSWERS. Miscellaneous.

#### CURING PORK.

Give a recipe for pickling and curing pork, and how to arrange same. J. R.

Ans.-Several methods of curing pork are recommended. Choice can be made of two that are given here: (1) Take 9 lbs. salt, 3 lbs. sugar, 1 pint molasses, 3 ounces saltpetre, 1 ounce soda, 5 to 6 gallons water. Heat slowly till salt is dissolved. Boil and skim, and cover meat in five or six weeks. Then smoke every day for a week. (2) To salt pork dry, take a mixture of 4 lbs. good fine salt, 11 lbs. brown sugar, and 2 ounces saltpetre for every 100 lbs. of meat. Apply three times for hams and shoulders, and twice for bacon, rubbing in well, at

intervals of about a week. See article on "Curing and Keeping Fork," in April 27th issue.

SEEDING DOWN SWAMPY LAND. Kindly advise how to get a piece of swampy land seeded down with grass seed so as to get a good catch. What kind of grain should it be sown with in spring or fall? I have tried it often, but never succeeded. Would it be best to summer-fallow it? The land is well drained, but the water stands on it in spring for a few days, then it drys off. FS

Ans .-- It seems strange that it should be so difficult to get a catch of grass seed on this drained swamp land. We should try again, sowing it with thin seeding of barley, and as early as the ground is fit to work. Would cover the seed somewhat more deeply than is necessary on ordinary soil. Would also advise sowing about 200 or 300 lbs. of salt per acre, after the grain is up. It would likely help the grain crop, and, possibly, might be of some benefit to the young grass by tending to keep the surface soil somewhat moist.

### COAL ASHES FOR FLOOR-AFTERBIRTH RETAINED.

1. I have hogpen 24x46 feet, in which I have a gangway about ten feet wide along the side, and partitioned off. This gangway is right along behind my cows, where the water comes from a tank. I will have pipe leading right in for the hogs, and the ten-foot gangway will be for calves, and for sows farrowing. will have two half-gates, so as to make a box stall at any time when needed Now, I was thinking of putting coal ashes, mixed with salt, for a bottom to be watered and tramped down solid. Do you think that will be a good plan or

# No More Sore Shoulders

Ventiplex is as soft and comfortable to the horses' shoulders as the best ordinary collar pad made-but it is a great deal more besides. It is

the only pad that absolutely prevents galls and sore shoulders. Every other collar pad made is close and non-absorbent, so that sweat forms and accumulates under the collar, scalding the flesh and causing sore necks and shoulders. Ventiplex, the new collar pad, is made of a new, patented fabric which

absorbs the sweat and moisture and carries it to the outer surface, where it evaporates.

Thus the horse's neck and shoulders are always kept dry, comfortable, and free from galls and sores.

See the Ventiplex Collar Pad at your dealer's. If he cannot supply you, write us. Booklet free. BURLINGTON-WINDSOR BLANKET CO., LTD., Windsor, Ont.

ADS

CATTLE HORSES

SHEEP ANHO (NEW PROCESS)

ECALDWELL FEED

DUNDAS-ONT.

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# CALDWELL'S Molasses Meal

#### For Horses, Cattle, Sheep and Hogs

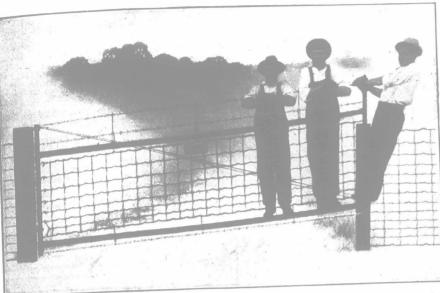
Contains from 80 to 84 per cent. pure cane molasses (not a particle of sugar-beet by-product enters into its composition). A digestive feeding meal, convenient to handle, economical to use, and gratifying in its results. Nothing to equal it for finishing stock. Ask your dealer, or write :

The Caldwell Feed Company, Dundas, Ontario

FOUNDED 1866

CD 1866

# APRIL 27, 1911 CLIMB ON



Your weight or a bull's weight won't bend the CLAY Gate. We have tried five mem on a 12' CLAY GATE and it didn't even sag.

THERE IS A REASON FOR IT. Write for circulars and particulars of our sixty-day free trial offer to

CANADIAN GATE CO., LTD., GUELPH, ONT.

# Clydesdales and Hackneys FOR SALE

We have more prizewinning Clydesdale fillies for sale than any other firm. We have them any age or color you want. Also Hackney and Clydesdale stallions.



### THE FARMER'S ADVOCATE.

OUESTIONS AND ANSWERS. Veterinary.

#### WEAK-KNEED COLT.

Colt, nine months old, is going over A. R. on knee joints.

Ans .- No doubt the colt has congenitally weak knees. In such cases stand-ing in a stall high in front is an exciting cause. Applications do no good. Keep him in a box stall, with a level floor, and feed him off the floor. Feed hay off floor, and feed grain out of a movable box, that can be removed when food is eaten. See that he gets regular exercise.

#### THRUSH.

Mare has thrush in one hind foot. It has extended above the hoof and nearly A. H. S. around the leg.

Ans.-Thrush is a disease of the frog, and does not extend to the skin. The trouble above the hoof must be scratches or cracked heels. Keep clean, but do not wash. Keep clean by brushing when dry, and apply 3 times daily a lotion made of 1 oz. each of sulphate of zinc and acetate of lead, mixed with a pint of water. For the thrush, clean out the cleft of the frog thoroughly, and keep horse in thoroughly dry quarters. Mix 1 part formalin to 3 parts water, and pour a little into the cleft, then out a little batting in to keep dirt out. Remove batting and put a little of the fluid in every second day until discharge and odor cease.

#### WEAVER.

I bought a four-year-old horse, and I and that he has a habit of swinging his nead from side to side in the stall. One fore toe turns out when either standing or travelling. Is the habit the cause of the toe turning out? F. W. LeL. Ans.-The habit is a form of chorea, a nervous affection, and is called weaving. Medical treatment does no good. It may be checked to some extent, and, possibly, eventually cured, by tying him with two straps, one to each side of the stall, so that he cannot practice the vice. The vice is not responsible for the formation of the foot. This is a congenital and very undesirable conformation, as it predisposes to speedy cut, or knocking the other leg or knee with the foot. Nothing can be done for it, except careful shoeing, and it is often necessary to wear shin or knee boots, or both, in order to prevent injury.

#### AGALACTIA

Breeding sows are fed as follows: After being bred, they run with boar for six weeks in the slaughter-house yard and are fed on offal and a little grain. Then they are kept in the manure cellar until within two weeks of farrowing, and are fed on cracked corn, oats and buttermilk. Then I put them in the pens and feed scalded middlings and buttermilk. One farrowed on April 1st, and had no milk. I fed the pigs on cow's milk. The sow never had any milk. On April 3rd, two more sows farrowed, and had no milk



773

# HORSE CLIPPERS

as supplied to the Czar of Russia, the King of Denmark, the Duke of Connaught, Prince Christian, patronized by 60 masters of foxhounds, adopted by the War Office. The Burman Power Clippers are the accepted standard wherever horses are clipped. Points: Ball Bearing; Long Shaft; Hook for Holding

Head : Close-Clipping Plates MANUFACTURED BY

BURMAN & SONS, LTD., BIRMINGHAM. Canadian Agents:

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## **DUNHAMS' PERCHERONS**

For forty-six years renowned as the best of the breed. Six large importations since February 1, 1910 (the last arrived October 12th), insure fine selection, as each animal was individually selected for size, bone quality and excellence. If you want choice stallions or mares, write for catalogue, illustrated from life.

W. S., J. B. & B. DUNHAM WAYNE, ILL.

# Clydesdale

for sale, rising 3 years old. Large draft fellows, with the best of legs and feet. Will be sold at prices to defy competition. Apply: O. SORBY, GUELPH, ONTARIO

MESSRS. HICKMAN & SCRUBY

Court Lodge, Egerton, Kent, Eng. Exporters of Pedigree Live Stock of all Descriptions.

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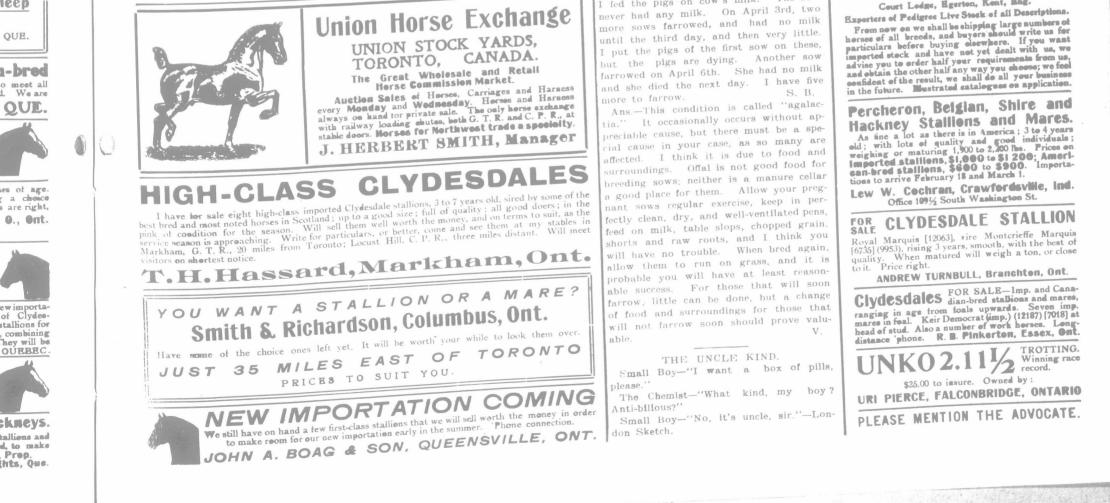
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WAGONS

#### OUESTIONS AND ANSWERS. Miscellaneous.

#### SEED PEAS.

Please tell me where I can get Crown J. D. peas; say one bushel.

Ans .- Why not try the seedsmen advertising in "The Farmer's Advocate"? Farmers having Crown peas for sale should advertise them in our Wants and For Sale column.

#### TRANSPLANTING WHITE SPRUCE.

How and when should I transplant the white spruce? There are plenty of all sizes in the neighboring swamps. I intend to set out some this spring. F. B.

Ans .- Dig up with as many roots as possible. Be careful to keep roots from drying while being moved, covering them with an old cloth to shelter from the sun's rays. Plant about the first of May. Do not set a tree in the hole and throw earth on the roots and trample it down. Keep roots separate and in natural position by working fine soil carefully among them. Leave no air spaces, and make all firm and solid.

#### PLANTING CEDAR HEDGE.

What time of the year is best for plantng a cedar hedge? About what height should trees be? How deep should trees be planted, and should they be right close together? A SUBSCRIBER.

Ans .- A very good time of year to plant a cedar hedge is right after spring grain has been sown, say about the first of May. Rather large trees, from two to three feet high, and cut down to eighteen inches, are more likely to grow than smaller ones. Trees should be set an inch or two lower than they grew former-Correct distance apart for hedge purposes, from 1 to 11 feet. The ground on either side of hedge should be kept hoed, or mulched, for the first year at least.

#### MUSHROOM-GROWING-SAP VIN-EGAR-LEOPARD LILY

SICKLY.

1. Will mushrooms grow with success in an outdoor cellar in sandy soil, and properly heated in winter?

2. Will you explain how maple-sap vinegar is made?

3. What treatment for a (commonly called) Leopard Lily? It was once very FOUNDED 1856

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# **I Gured My Rupture**

#### I Will Show You How To **Cure Yours FREE!**

I was helpless and bed-ridden for years from a aouble rupture. No truss could hold. Doctors said I would die if not operated on. I fooled them all and cured myself by a simple discovery. I will send the cure free by mail if you write for it. It sured me and has since sured thousands. It will sure you anre vou.





IHC Service Bureau This Bureau is a clearing house of agricultural data. It aims to learn It aims to learn the best ways of doing things on the farm, and then distribute the in-formation. Your individual experi-

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# PROUD ARE

There is a certain pride in owning a wagon that you know is built of the highest quality materials obtainable -a wagon that is not only attractively finished with the best paint and varnish, but which also gives perfect service, day after day, and year after year. That's why I H C owners are so proud of their wagons.

If you want to be proud of your next wagon-choose one of these two in the I H C line-

# Chatham or Petrolia

The loads they carry, the roads they traverse, and their wonderful durability make others wish they had bought a Chatham or Petrolia.

Chatham Wagons have a long record for satisfactory service in Canada. Made with hard maple axles, oak bolsters, sand boards, rims, and spokes, and oak or birch hubs-they represent the highest standard of wagon construction. When you buy a Chatham wagon it is with the assurance of getting the utmost service and satisfaction out of it.

Petrolia Wagons are constructed of first quality woodstock which is thoroughly seasoned by being air-dried. The ironing is of the very best. The inspection of each <sup>•</sup>part is most rigid.

Be sure to call on the I H C local agent, get a pamphlet, and let him show you one of these wagons. If you prefer, write the International Harvester Company of America at nearest branch house for any information you want.

EASTERN CANADIAN BRANCHES:-International Harvester Company of America at Hamilton, Ont.; London, Ont.; Montreal, Que.; Ottawa, Ont.; St. John, N. B.



Duncan Brown & Sons, Iona, Ontario.

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3 PURE-BRED SHORTHORN BULLS for sale **J** 2 red and 1 roan—age 11 and 14 months. Sired by Gay Marcus = 73277=. 4½ miles south of Alvinston station, **McALPINE BROS.**, Lambton County. **AUGHRIM P. O., ONTARIO** 

**Robert Miller, Stouffville, Ont.,** Can supply young bulls and heifers of the very prices that you can afford to pay. The young bulls are by one of the greatest sons of Whitehall Sultan. They are good colors, and will make show bulls. I also have two good imported bulls at moderate prices and of choice breeding, and some cows and heifers in calf to Superb Sultan: the calves should be worth all the cows will cost. Some beautiful young imported Welsh Ponies still to spare. It will pay you to write, stating what you want. Glad to answer inquiries or show my stock at any time. Business established 74 years.

Scarify the tonsils, and swab well frequently with equal parts oil of turpentine and sweet oil. In order to scarify or swab the tonsils, their mouths must be held open by inserting a small clevice or ED 1856

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oung Short-l fillies just ot of ram nd C. P. R. TARIO.

APRIL 27, 1911 A BAD COLD Developed Into BRONCHITIS.

Neglected Bronchitis is very often the direct cause of Consumption, and on the first symptom appearing Dr. Wood's Norway Pine Syrup should be used and the Bronchitis cured.

The symptoms are, tightness across the chest, sharp pains and a difficulty in breathing, a secretion of thick phlegm, at first white, and later of a greenish or yellowish color, coming from the bronchial tubes when coughing, especially the first thing in the morning.

Mrs. Dan. J. McCormack, Cleveland, N.S., writes: "My little boy two years old caught a bad cold which developed into Bronchitis. He was so choked up he could hardly breathe. Reading about your wanderful medicine, Dr. Wood's Norway Pine Syrup, I decided to try a bottle and with such good result I got another which completely cured him, without having a dector. I cannot say too much in its praise; I would not be without it in the house as I consider it a sure sure for Colds and Bronchitis."

The price of "Dr. Wood's" Norway Fine Syrup is 25c. It is put up in a yellow wrapper. Three pine trees is the trade mark. Be sure and accept no substitute for Dr. Wood's.

Manufactured only by The T. Milburn Co., Limited, Teronto, Ont.

Scotch Shorthorn Bulls 1 FRCM 10 TO 14 MONTHS OLD The Princess Royal, Secret, Bessie, Village Maid families are represented in lot. First-class herd headers and farmers' bulls for getting market-top-ping steers. Prices very reasonable.

JOHN MILLER, BROUGHAM, ONT. Claremont Station, C. P. R., three miles.

Woodholme Shorthorns are of the richest modern in type and quality. For sale: One- and two-year-old heifers, several young bulls, thick-fleshed, low-down and mellow. G. M. FORSYTH, Claremont. Ont. 100 yards from station. Phone connection

MAPLE LODGE STOCK FARM

1854-1911 Two strictly first-class young Shorthorn bulls for sale now. Come and

see them, or write. A. W. SMITH, Maple Lodge, Ont.

### THE FARMER'S ADVOCATE. QUESTIONS AND ANSWERS.

#### Miscellaneous.

#### LUMPS IN TEATS.

An old cow (2-year milker) won't let down her milk from 3 teats. They are not swelled at all, but there are lumps on them. I would consider it a very great favor if you would let me know what to do in such a case? W. N. Mc.

Ans .- Doubtless the lumps in the teats are what obstruct the milk flow. Such lumps are sometimes removed by a surgical operation. This operation is not by any means always successful. Even the case of a young and valuable cow affected with such teat obstructions is considered so serious by the best advisers that they usually recommend fitting her for the block rather than attempting remedial measures, and much more emphatically would such advice be given when the cow is old and her period of usefulness nearly past.

#### STORING A STOVE.

An agent whom we knew came here with a stove last fall, about the 1st of November. As the roads were bad, he asked permission to leave the stove here for the present till he would call for it. He wanted to sell me the stove, but I told him I would not buy. We set the stove in a building away from the house. It was all nailed up, in a crate, and it is the same way yet. I have notified one of their agents twice to take the stove away. Can they compel me to keep the stove, as we do not want it? He called with the stove about dark, and had about thirty miles to go that night after that, so we let him leave the stove, as he said he would come after it soon. SUBSCRIBER. Ontario.

Ans .- No; and we think it advisable that you should notify the owners of the stove, in writing, insisting upon its immediate removal, and that meanwhile you will charge for storage.

#### SHEEP SHED

Would like you to give plan of the most approved sheep shed, and how to build so as to accommodate about thirty-five sheep, and also hold feed for the same. Would you advise stone wall?

Ans .-- You will need a building at least 20x32 feet, with posts sufficiently high to store the hay necessary for the number of sheep. An arched roof, similar to that shown in our April 20th issue, page 696, will be found cheap and suitable. Build, if practicable, on high, dry ground, with yards facing the south, and wide doors, to be left open except in stormy weather. The inside space should be divided into at least two parts; one for the ewes, the other for the lambs in their first winter. We would not advise stone walls higher than two feet above the ground. Single boards and battens keep the house warm enough for sheep if drafts are avoided.



# Consult your wife about the new barn.

It's your duty, Mr. Reader. She has helped you make a new barn possible. Get her opinion of "Galt" Steel Shingles. She has probably read about them and her opinion is worth something to you. Find out for yourself what "Galt" Shingles are made of-how they are made-how they lock - how they make a storm, fire-and-lightning-proof and permanent roof.-how they save you money compared with any other building material you can use. Or if your present barn needs a new roof make it a first class barn by putting a "Galt" Roof on it. For old and new barns, wood shingles are out-of-date, use

# "Galt" Steel Shingles.

Tear out this advertisement write your name and address on the line at the bottom and enclose it in an envelope. We'll know you want a free copy of our book "Roofing Economy" and will send it by return mail.

Address Name ..... GALT, ONT. THE GALT ART METAL CO., Limited, Watch for the advertisements with The Kids from Galt. 5



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P. O., ONT. t, G. T. R. me.

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# Bulls

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RTHORNS at tempting of milking y. Bolton, P. R., one-Phone.



n Sheep ng bulls and Ontario.

**S** for sale— onths. Sired es south of BROS., ONTARIO

Lucan Crossing, G.T.R., one mile. HIGH - CLASS SHORTHORNS I have on hand young bulls and heiters of high-class show type, pure Scotch and Scotch-topped, sired by that sire of champions, Mildred's Royal. If you want a show bull or heifer, write me. **GEO. GIER, Grand Valley P.O. and station**, **also Waldemar station**.

SPRING VALLEY It you want a short bull, we canadian-bred and imported. Females all ages. Also a few good YORKSHIRES—boars and sows. Prices right. Prices right. Phone connection. Kyle Bros., Ayr, Ont.

Shorthorns Arbier Stores Shorthorns Arbier Stores Shorthorns Arbier Stores Stores Arbier Stores Stores Arbier Stor

Oakland Shorthorns for Sale

Here is a herd of breeders, feeders and milkers. About 50 to select from. 7 bulls from 8 months up to 2 yrs. Prices from \$90 to \$130. Scotch Grey 72692 at head of herd. G. T. R.

Jno. Elder & Son," Hensall, Ont.

SHORTHORNS, Clydesdales and Oxford **Downs.** Seven red and light roan buls, 7 to mths., by Blossoms Joy =73741=; some with dams. Heifers 1 and 2 yrs. Clydesdales, both es. Flock of Oxford Downs. All at low prices next month. Phone connection. McFarlane Ford Dutter Ont Ford, Dutton Ont.

Scotch Shorthorns FORSALE -- Three choice young Scotch alls fit for service; two roans and one red. Bred one mains, stock, also females of all ages. Bell phone. C. Pettit, Freeman P. 0., Ontario

COST OF CHANGING BUILD-

INGS. 1. Have two frame barns. No. 1, 30x54x14 feet; No. 2, 40x50x14 feet; built on a sidehill. What would it cost to dig an underground stable to hold 30 head of stock and move these two barns over it, put hip roofs on them, and make

them into one? 2. Where could I get books on: (a) The feeding and breeding of registered Holsteins; (b) How to feed pigs to make them go 200 lbs. as soon as possible? FARMER'S SON.

Ans.-1. Consult local carpenters or barn-framers and other contractors. By the time you reach conclusions as to cost, you will be able to remember it without reference to paper. You will be able to perceive, we are certain, that no estimate of cost of such work, upon which any dependence could be placed, could be given without knowing character of soil, distance that buildings are to be moved, condition of huildings, rate of wages prevailing, distance from gravel pit, etc.,

2. "Holstein Cattle," by F. L. Houghton, atc., etc Brattleboro, Vermont, through this office. We have never seen a book dealing expressly with the problem of making pigs pressive with the problem of maxing pres-go 200 pounds as soon as possible. "Co-burn's Swine in America," and "Day's Swine Husbandry," discuss feeding, of





# Here's the ONLY Right Roof for You

**REFER** to my Oshawa Steel Shingles. Reckon it all up and see if you don't agree with me. A roof that is one big seamless sheet of 28 gauge steel, smoothly and thickly galvanized by the Pedlar process of rust-proofing. A roof that cannot rust, will not gather moisture on underside, stay a good roof for a hundred years at a cost of less than five cents a year. A roof that makes your building safe against both fire and lightning. A roof that makes your building warmer in winter, cooler in summer. A roof that costs no more than common wood shingles to put on, and much less to keep on. A roof that needs no painting, no tinkering or repairs for at least twenty-five years—or you get a new roof tree. The only roof that is guaranteed in writing. Certainly a roof like this is the only right roof for you. You cannot be sure of as much down-right roof value from any other kind of roof.

#### The ONLY Roof that is **Guaranteed in Writing**

Guaranteed in Writing I claim a good deal for an Oshawa-shingled roof. Almost too much to be true, some folks think. So do makers of other roofs. But note this difference. I give you a written guar-matee that's good for a new roof any time within twenty-five years if any Oshawa-shin-gled roof fails to make good everything I promise. That means that its cost when you put it on is the only cost for the next twenty-five years. Will the "other fellow" give you such a guarantee? I don't know any one who will. They want you to take the risk. They talk very confidently—and promise, yes indeed. But can you get their promises down in writing and signed—like mine are. That's to of that will be

#### Good for 25 years or an EntirelyNewRoofFree

My guarantee, remember, is a written one, in proper legal form, and is backed by 50 years of honorable dealing, and over \$365,000 of invested capital, the biggest business of its kind in the British Empire It is your roof-insurance for twenty-five years. When you consider that no other roofing is guaranteed at all, even though you pay as much for it as you pay for my Oshawa Steel Shingles, there's no doubt about which roof you should buy

The

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HALIFAX 16 Prince St. PORT ARTHUR 45 Cumberland St.

### **PEDLARIZE All Your Buildings--Inside and Out**

BY "Pedlarizing" I mean doing for the whole building what Oshawa Steel Shingles do for the roof. I make other kinds of. sheet metal building materiale-for ceilings, side walls, outside -that make your whole building more fire-proof, more sanitary, more beautiful, more substantial. You should know about them. May i send you a book-let and pictures that tell the whole story? It's free. Just ask me to tell you about "Pedlarizing."

#### **First Cost no More than Roofs You Think Cheap**

Of course you don't want to pay any more than you have to for a good roof. But for the than you have to for a good roof. But for the amount you have to pay you ought to get the roof that will cost the least to keep on. And Oshawa Steel Shingles make the only roof you can be sure will end your roof expense once you get it on. My written guarantee settles that. Figure it out any way you like. You'll find an Oshawa-shingled roof as cheap to begin with, and far cheaper in the long run, than any other roof you can buy.

#### **BestProtection against Both Fire and Lightning**

**BOOTHY ITERATION LIGHTLING** This fact alone is reason enough for putting you root. Lightning causes over 40% of all free-damage on farms. Destroys about 7,000 farm buildings each year on this continent. In one year killed 623 human beings and 4,500 head of cattle-most of them housed in wood-shingled buildings. My Oshawa Steel Shingles would save all this terrible loss. Because hey make a lightning-proof root. They are better protection than any number of light-ning rods-better than the best and cheapest lightning insurance policy. Best fire-protec-tion, too. The saving in fire-insurance premiums alone pays the whole cost of an Oshawa-shingled roof in a very little while.

#### Send for My Free Book "Roofing Right"

Then you'll have all the facts about this weather-proof, rust-proof, rot-proof, fire-proof, lightning-proof roof, which needs no painting or patching for the biggest part of your lifetime. By reading my book you may save yourself considerable money and a lot of bother. It is free. Do write for it—right away.



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#### OUESTIONS AND ANSWERS Miscellaneous.

#### STALLION SLOW IN SERVING.

I have an imported Clydesdale stallion, 5 years old, a sure foal-getter, but he is very slow in serving mares. Can you suggest anything that will make him spruce up? Last year I had to take him off the road. J. H. F.

Ans.-Medicines do no good. Feed moderately well on good hay and oats, with a carrot or two daily, and a feed of bran with a little linseed meal twice weekly. As soon as the grass grows, allow him to have some every day. Give him regular exercise, of not less than 8 to 10 miles daily, and do not require him to serve more than one mare on any day.

#### BUTTER CONTENT AND PRICE OF TESTED CREAM.

How many pounds of butter are in a hundred pounds of cream testing 32 per cent. ?

2. With cream testing 32 per cent., what would a gallon be worth, sold at 32 cents per pound of butter-fat, also at 40 cents? C. S.

Ans.-1. 100 lbs. cream, 32% fat, adding  $\frac{1}{6}$  for overrun =  $32+5\frac{1}{3}=37\frac{1}{3}$  lbs. butter.

2. A gallon of cream testing 26% fat should weigh about 10.01 lbs. For practical purposes, 32% cream may be said to weigh 10 lbs. per gallon. 32% of 10 lbs. = 3.2 lbs. 3.2 lbs.  $\times 32$  cents, the price per pound = 1.02 2/5 per gallon.

#### REGISTRATION OF CHESTER WHITES.

I have now on hand some young pigs from pure-bred registered Ohio Improved Chester White sire and dam, and as I wish to have them registered, I would like to know, through the columns of your valuable paper, to whom I shall apply for the desired forms and registration papers, and what would be the probable cost of same.

#### P. E. I. READER.

Ans .- If your Chester White hogs were bred and farrowed in Canada, both the sire and dam will have to be recorded in the Dominion Swine-breeders' Record ; if bred in the United States and farrowed in Canada, the dam will have to be Canadian recorded. In either case American registration papers must be forwarded to Ottawa, accompanied by the regular Canadian application form filled in. To get the exact particulars, which may be required in your case, you had better write to the "Accountant, National Live-stock Records, Ottawa.'

#### LIME FOR LAND.

What value is slaked lime to land? J. F. D.

Ans.-Lime itself is not usually valued as a direct fertilizer. Its action is indirect. What it does is more, perhaps. in the nature of stimulating the soil than



### 776

is supposed to hasten the decomposition of organic matter in the soil, and to liberate potash from some of the insoluble forms of combination, thus rendering it available to the plant. There are two classes of soils on which lime has a very marked beneficial effect. It makes swampy soil sweet and fertile and fit for the growth of plants, by acting chemically upon the vegetable acids, whose presence induces the sourness which is characteristic of such soils. It is useful, also, on heavy clay land that is difficult to manage, that is heavy to work and bakes readily. It relieves the tenacity of such clays by a physical action through which the soil granules are caused to coagulate together into grains of larger dimensions, forming a soil that is more readily cultivated, more easily drained, and less likely to bake if worked when wet.

On some soils, sorrel is found growing thickly. That is an indication that the soil is sour, and in need of lime. In the ordinary farm soils of Ontario, however, sufficient quantities of lime are contained for present and future needs, and hence it would be an economic mistake to apply it for any purpose whatever.

Lime slaked is in the right condition for application to land. The equivalent of 50 bushels of fresh-burned lime is as much as should be spread on an acre in any one year. Little and often is a good rule in regard to applying lime to land.

#### QUESTIONS AND ANSWERS. Miscellaneous.

APRIL 27, 1911

SPRAY FOR SAN JOSE SCALE. Which would be the better to use for killing San Jose scale, Scalecide, or lime-and-sulphur mixture? J. D. Ans.-We would most emphatically preler the lime-sulphur.

#### STRAWBERRIES-VINE FOR WALL.

1. I intend setting out about three hundred strawberry plants. What varieties would you recommend, and what size of a plot would they need for easiest culture ?

2. Have a large, brick wall, facing the south-west, and no protection near. Would like to have this bareness broken with something. Have tried Virginia Creeper, but it wouldn't grow; then planted Boston Ivy. It doesn't seem thrifty; grows very little in summer, and gets killed back in winter. How could I care for it to make it do better? Or is there any other creeper you would recommend as more suitable for the location? W. J. Perth Co., Ont.

Ans.-1. The three best varieties of strawberries with perfect blossoms, for commercial purposes, are, according to Horticulturist W. T. Macoun, of the Central Experimental Farm, Ottawa, Beder Wood, Splendid and Williams. For domestic use, the best three are Excelsior, Splendid and Senator Dunlap. In the vicinity of London, the one berry which outnumbers all the others grown, is the

Williams. The 300 plants, set 18 inches apart in row, and in 5 rows, would fill a plot 15 or 16 feet wide by 90 feet in length, a suitable shape for being worked with a horse.

2. Would advise trying Virginia Creeper again. It is, by many, considered prettier than Boston Ivy, and is perfectly hardy, while Boston Ivy is only halfhardy. Another most beautiful vine, and fairly hardy, is Japanese Honeysuckle. It is a rapid grower, and bears an abundance of lovely, fragrant flowers. Can be got from nurserymen. Is practically an evergreen, as the leaves, though brown now, are on it still.

#### GRUB IN THE HEAD.

For the last few days I noticed that some of my sheep have been getting weak and losing their lambs before time. In the course of treating with turpentine, I find warbles in the nose. The warbles are about & of an inch long.

1. Would the warbles be the cause of their losing the lambs? 2. Would there be more than one

warble in each sheep's nose? 3. Could you suggest a cure?

G. A. C. Huron Co. Ans .--- 1. The larve frequently found in the nostrils of sheep are not commonly called warbles, but grub in the head. Many sheep are infested with grubs that show no sign of illness. A sheep well and in vigorous health may resist the injury which they cause, and in due course the grub will come out of its own accord, and change into the sheep gadfly, which is the name of the parent insect. Quite probably the grubs were causing the trouble in your flock.

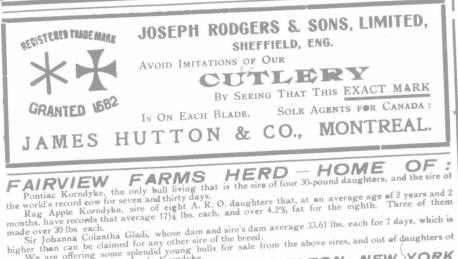
BIBBY'S CREAM EQUIVALENT Young Calves develop and grow surprisingly well when fed "Cream Equivalent" either with or without separated milk. It is not a drug or "FAKE" meal. Made by one of the most honorable firms in England. Has the largest sale of any Calf Meal in the World. Canadian Government report shows it to contain the highest percentage of nutritive value. TRY A BAG, 50 lbs. \$2.25. Can be fed with either Hot or Cold water. DEALERS EVERYWHERE SELL BIBBY'S CREAM EQUIVALENT WM. RENNIE CO. LIMITED TORONTO CANADIAN REPRESENTATIVES NO INTEREST CHARGED LARGE CLEARING AUCTION SALE! WILSON'S GUARANTEED SCALES Holstein-Friesian Cattle, Clydesdale Horses LISTEN ! WILSON pays AND OTHER FARM STOCK AND IMPLEMENTS the freight. PROPERTY OF W. P. ELLIOT, AT THE FARM, 2 MILES NORTH OF YORK STA., G. T. R. main line; 2 miles south of Wexford, C. P. R., on Get special prices to-day. C. WILSON

AFMFA

TUESDAY, MAY 23, 1911 48 Head of Holstein-Friesian Cattle (44 females, 4 Bulls), 40 HEdu UI HUISLEIH-FITESIall Gallie (44 Feinales, 4 Duils), Also H.-F. Herdbooks; 6 grade cows; 5 Clyde mares, from 1 to 5 years old; also a number of other horses. Sale to commence at 10 o'clock. If necessary, provision will be made for ho ding sale under cover. Write for catalogue. No reserve.



Col. B. V. Kelley, Syracuse, N. Y., Auctioneer.





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Styles

of

 BULL CALVYS FOR SALE.

 Herd headed by Aaggie Grace

 Conncopia Lad, whose dam for

 four generations averaged 21.30

 Ibs. butter in 7 days. Owing to lack of milk. I will

 sell my coming crop of bull calves for half value.

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 C. R. Gies, Heidelburg, Ontario

HOLSTEIN-FRIESIAN BARGAINS AT SPRINGBROOK.

Offering: Two rich-bred bulls, 10 months old, R. O. dams; one bull 20 months old. High-class stock. Price \$75 to \$85 each for quick sale. Come and see them. Doa't lose time.

A. C. HALLMAN, BRESLAU, ONT.

### THE MAPLES HOLSTEIN HERD

Everything of milking age in the Record-of-Merit. Nothing for sale at present but a choice let of bull calves sired by King Posch De Kol. Write for prices, description and pedigree.

#### Folden's, Ontario Walburn Rivers.

Elmwood Holsteins Offer choice young during March and April, 1911. Spring crop calves. Sired by Ykema Sir Posch and Pontiac Saraastic—a grandson of Henderveldt DeKel. Prices right. Express prepaid. Safe delivery guaranteed. Express prepaid. Safe delivery f E. D. George & Sons. Putnam, Ont.

### to take H. F. Feed net oats, la feed al twice grows, y. Give

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#### PRICE

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growing hat the le. In b, howre conds, and take to ndition ivalent e is as acre in a good land.

2. There may be one or more grubs in each nostril.

3. "As a rule," says one authority, "treatment after the sheep have become run down in health and strength is of no avail." One of the best preventive measures during fly time is to bore holes 6 inches deep with a 21-inch auger, in a squared log. Keep these partly filled with salt, and have the margins smeared with pine tar; or, better still, pine tar mixed with an equal quantity of lard and oil of tar. The sheep then daub their noses with the tar mixture each time they lick at the salt, and the gadily is repelled by the odor.

Even after the grubs have caused enaction and distress it is claimed by some that certain methods of treatment Two of these we give, leavr readers to judge of their worth : 1st lince a piece of plank on the is head and hit a sharp blow, and will cause the grubs to drop out. induce coughing and sneezing, and ment dislodgment of the grubs by ng turpentine into the nostrils, or ing the nostrils with tobacco juice, causing the sheep to inhale the ! burning sulphur.



# HOMEWOOD HOLSTEINS

Home of the champions. Headed by the great milk and butter bred bull, Grace Fayne 2nd's Sir Colantha. Only choice, thrifty bull calves for sale at present. M. L. HALEY and M. H. HALEY, SPRINGFORD, OMTARIO

1. 7

Hoistein Cattle The most profitable dairy tive booklets free. Hoistein-Frieslan Ass'n of America. F. L. HOUGHTON, Secy, Box 127 America. F. L. Brattlebore, Vt.

Evergreen Stock Farm offers bulls 2 to 12 months, from hightesting stock, giving 12 lb. at 2 years to 22.38 lbs. for mature cows. Sired by Sir Morcena Faforite. Dam and gr. dam have average record of 24.60 lbs. butter in 7 days. F. E. PETTIT, Burgessville, Ont.

**DOONTT** Buy a **HOLSTEIN BULL** till you get my prices on choice goods from eleven months down, from best producing strain. "Fairview Stock Farm." **FRED ABBOTT**.

Harrietsville. Ont. GLENWOOD STOCK FARM Have two year-ing Holsteins and Yorkshires buils fit for service, both of the milking strains. Will sell cheap to make room, Thos. B. Carlaw & Son, Wark-worth P O. Ont. Campbellford Station.

RIDGEDALE HOLSTEIN FRIESIANS - A few **R** very choice bull calves left for sale, from large-milking and high-testing dams. Write for prices, or come and see them. Shipping stations: Port Perry, G. T. R., and Myrtle, C. P. R. Ontario Co. Long-distance phone. **R. W. Walker, Utica, Ont** 



The first remedy to cure Lump Jaw was

Fleming's Lump Jaw Cure

Fleming's Lump saw Cure and it remains today the standard treas-ment, with years of success back of it, known to be a care and guaranteed to care. Don't experiment with substitutes or imitations. Use it, no matter how old or bad the case or what else you may have tried-your money back if Fleming's Lamp Jaw Cure ever falls. Our fair plan of selling, together with exhaustive information on Lamp Jaw and its treatment, is given in Fleming's Vest-Pocket

Fleming's Vest-Pocket Veterinary Adviser

veterinary Advisor Most complete veterinary book ever printed to be given away. Durably bound, indersed and illustrated. Write us for a free copy. FLEMING BROS., Chemista, 75 Church St., Toronto, Ontariso

Let us know about how much you

will have this season and the breed,

that we may keep you posted on prices.

You might as well sell to us, and make

the most profit possible, instead of

and address, so that we can keep in

E, T. CARTER & CO.

84 Front Street E.

Alloway Lodge Southdowns The Southdown is the best mutton sheep in America to-day, the championships at the winter fairs prove it. Southdown wool is finer than that of any other mutton breed. I get 4 cents a pound above market price. A Southdown ram makes the greatest improvement on a flock of good ewes. Ask anyone who has used one. Write me for prices; they will please you. 'Phone. Railway Stn., London. BOORT WARKEN

CANADA.

BYRON, ONT.

**CATTLE and SHEEP** 

Please Send Us Now your name

selling locally.

touch with you.

TORONTO,

ROBT. McEWEN.

### THE FARMER'S ADVOCATE.

#### QUESTIONS AND ANSWERS. Miscellaneous.

#### SUN SPURGE.

What is the best way to kill sun spurge? Would summer-fallowing till the first of August, and then sowing late turnips or rape kill it ? Or would it be better to sow buckwheat and plow it SUBSCRIBER. down?

Ans.-"'Farm Weeds'' says that sun spurge will not long trouble lands worked under a short rotation, with clean cultivation. Special care is required to prevent the ripening of seed late in summer. The treatment you suggest, that of summer-fallowing till the first of August, and then sowing late turnips or rape, with clean cultivation following, should be effectual.

#### WAGES FOR TIME LOST BY SICKNESS.

Was hired to farmer for 12 months. During that time I was sick with la grippe for a week; also, whilst putting a can of milk onto wagon I slipped upon a sheet of ice, which was right outside of milk-house door, so that I strained my stomach and had to lay up about two weeks. On expiration of my time, my employer withheld the wages for the time I was sick. Would you kindly inform me whether he has power to do this, and whether I can claim wages for the above period ? J. S.

Ans .- Your employer had no right to withhold your wages as he did. You can justly claim them.

#### TOULOUSE GOOSE EGGS.

Having seen in "The Farmer's Advocate" the picture of a pair of Toulouse geese, I would like to have a setting, or at least a half a dozen, of those Toulouse eggs. If you have not got them, please let me know where I can get them, as they are not advertised in 'The Farmer's Advocate.'' A. O.

Ans .- This is the second enquiry for eggs of Toulouse geese that has been received since the cut of the geese appeared, voicing, no doubt, the desire of many readers. Breeders of these geese having eggs for sale would certainly find it to their advantage to advertise them column would be worth while.

### SWOLLEN UDDERS.

1. A lot of young pigs take a diar-







FOUNDED 1865

AFRIL 27, 1911

### FEEDING BRAINS

Why Studious Children Always Crave Oatmeal

Nature gives oats more organic phos-phorus than to any other grain she grows. And phosphorus is the brain's main con-stituent. Brains can't grow, brains can't work without it.

Oatsalso contain more lecithin—the nerve

Oats also contain more lecitinn—the nerve food—than any other grain. They form our greatest energy food. That's why growing children love oat-meal. Some instinct within them calls for these elements, and woe to the child who doesn't get all it wants doesn't get all it wants. The right oats for food are the rich,

The right oats for food are the fich, plump grains. In the choicest oats there are but ten pounds to the bushel. In mak-ing Quaker Oats these choice grains are se-lected by 62 separate siftings. Quaker Oats—just the cream of the oats works but one-half cent per dish. One

Quaker Oats—Just the cream of the oats —costs but one-half cent per dish. One dish is worth two dishes of common oat-meal. Don't you think it would pay to serve your children such oats? Made in Canada. (172)

Don't Wear

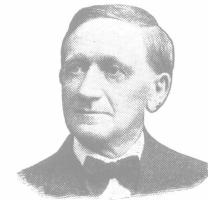
Ten Reasons Why You Should Send For My New Appliance

**A** Truss

Stele

### I Send It On Trial

The Appliance for retaining the rupture can not be thrown out of position.



The above is C. E. Brooks, of Marshall, Mich., who has been curing Rupture for over 30 years. If ruptured write him to-day.

### THE FARMER'S ADVOCATE

#### TRADE TOPIC.

A DIFFICULTY OVERCOME -In the last few years, swinging stanchious have come to be recognized as the ideal tie for cows. While allowing them the maximum of freedom and comfort, they keep cattle better in place in their stalls than any other form of ties. A cow is free to lie down on either side, and to card herself without hindrance, but she cannot move to or from the gutter, so that the part of the floor, on which she is, will remain practically clean. Stanchions are also the quickest ties to operate, as cattle can be tied or untied in one-sixth the time necessary with chain ties. One difficulty, however, has arisen with the use of steel stalls and stanchions, namely, that of getting the cows to put their heads into the open stanchions, and not to the one side of them when entering the stalls. When they enter to the wrong side or to the back of the stanchion, considerable time is lost in getting them into their right places. Owing to the openness of the construction used with steel stalls and swinging stanchions, a frightened animal would sometimes enter its stall to the wrong side of the stanchion, and then crowd right on through into the manger and feed alley. To overcome this difficulty, some firms have adopted doublepost stalls, but these double - post stalls are objectionable, as they prevent the cow from turning her head around to card herself, or to bring it round on her side when she is lying down. An entirely new idea that overcomes the difficulty splendidly, has just been placed on the market by Beatty Bros., of Fergus. A swinging post, or sure-stop post, as they call it, stands between the stanchion and the stall post, making it impossible for the cow to put her head anywhere but in It is absolutely the only Appliance of the kind on the market to-day, and in it are em-bodied the principles that inventors have sought after for years. stanchions are closed, with one pull of a lever, all the sure-stop posts are swung back against the partitions, so that they in no way interfere with the freedom of the cows. The swinging sure-stop post adds very little to the cost of the stall, and is considered by all who have seen it, a necessary part of a stall. See Beatty Bros.' advertisement on another page in this issue.

#### GOSSIP

At the dispersal sale of the flock of Lincoln sheep, the property of J. E. Caswell, at Laughton, Lincolnshire, March 30th, the average for 127 head sold was \$22.50. The first pen of five ram and ewe lambs brought \$55 per head. A pen of five yearling ewes made \$21.50 each.

Eight imported Clydesdale stallions, three to seven years old, bred in the pur-Being an air cushion of soft rubber, it clings losely to the body, yet never blisters or causes thation



THE longer a fence lasts the less it costs you. That is why Peerless Fence is the cheapest you can buy. It is made right in the first place. Heavy steel wire, well galvanized so that it cannot rust. Each intersection is held firmly together by the Peerless lock. Peerless Poultry Fencing is made to give long and satisfactory service. It is strong enough to keep the cattle out and close enough to keep the chickens in. It requires few posts, because it stands stiff and taut. Peerless Lawn Fence will add to the appearance of any property. It is attractive and strong-will last for years.

I have compared some of your Peer-less Fencing that I put up the first year with other fences put up the same year and I find that Peerless Fencing shows no sign of rust, and the galvanizing looks as good as when erected, and I think you have been successful in turning out a good fence. —Mack Lilliu, Glenburnie. Comparing your fence with other makes it is not hard to tell which is the first Peerless Fencing I put up here, and there are some other makes time that are rusted in spots now. Where I have sold fencing once I can go back and sell to the magain. —G. A. Perapiece, Oxford Milliz.

We manufacture a full line of farm and ornamental fencing and gates.

THE BANWELL HOXIE WIRE FENCE CO., Ltd. Hamilton, Ontario Dept B, Winnipeg, Manitoba

# Sharp Stiff Discs and Sure-Cleaning Scrapers

When you require a Disc Harrow, be sure and examine the 'Lion.'' It is one of those famous Frost & Wood machines that work so satisfactory. The sharp, stiff discs will pulverize and loosen the surface of the land

just exactly right. Even if the soil is sticky the "Lion" works O.K., because it has sure-cleaning Scrapers that absolutely prohibit the discs from getting clogged. Two horses handle the "Lion" comfortably and there is no side It is built of the

Please send for catalogue F 42 and get compl.te particulars about Frost & Wood in-throw and out-throw harrows.

42

779

irritation.

Unlike the ordinary so-called pads, used in trusses, it is not cumbersome or ungainly.

It is small, soft and pliable, and positively cannot be detected through the clothing. The soft, pliable bands holding the Appliance do not give one the unpleasant sensation of wearing a harness.

There is nothing about it to get foul, and when it becomes solled it can be washed without injuring it in the least.

There are no metal springs in the Appliance o torture one by cutting and bruising the

All of the material of which the Appliances are made is of the very best that money can ay, making it a durable and safe Appliance are made Wear

My reputation for honesty and fair dealing is so thoroughly established by an experience of over thirty years of dealing with the public, and my prices are so reasonable, my terms so fair, that there certainly should be no hesitancy in sending free coupon to-day. in sending free coupon to-day.

Remember I send my Appliance on trial to prove what I say is true. You are to be the judg Fill out free coupon below and mail to-day.

#### FREE INFORMATION COUPON

C. E. Brooks, 5295 Brooks Bldg., Marshall, Mich.

Please send me by mail in plain wrap-per your illustrated book and full informa-tion about your Appliance for the cure of rupture.

0		Name
		Street
1.	State	City

ment, by T. H. Hassard, Markham, Ont. at moderate prices, and on easy terms. These are good, big horses, of desirable type and quality, and by some of the best sires in the Old Country. Markham is easy of access, twenty miles from Toronto, on the G. T. R., and three miles from Locust Hill, C. P. R., and visitors will be met at either station on shortest no-Mr. Hassard invites inspection of these horses, and is confident they will give satisfaction to purchasers.

Bishop Watterson, of Nebraska, was never at a loss for an answer to im. pertinent questions. One day he met a man on the train who mistook him for a travelling salesman, and started in to

quiz the Bishop. "Do you represent a big house?" he

began as an opener. "The very biggest on earth," replied the Bishop with a twinkle in his eye.

"What's the name of the firm?" continued the questioner.

"Lord and Church," smiled the Bishop

"Hum ! 'Lord and Church !' Never pleasantly. heard of it. Got any branch houses

anywhere?" "Oh, yes, indeed; branch houses all over

the world." "Hum ! That's queer ! Never heard of them. Is it boots or shoes?'

"Neither." "Oh, I see; dry goods, I suppose." "Well, yes; they do call my sern,ons that sometimes."

very best materials throughout, as is all Frost & Wood farm machinery.

Frost & Wood

Lion" Disc Harrow

Frost & Wood Co., Ltd., Smith's Fall, Canada

# This Wagon Will Carry Heavier Loads At a Saving of Time and Horses



Decide to-day to buy a T-K Handy Farm Wagon. You'll be proud of your purchase every day. Proud of its style and beauty, proud of its easy riding and splendid service. It has the lightest draft, and is the handiest to load and unload of any wagon you ever saw. These wagons never fail, no matter what kind of road you strike they carry you to your destination, regardless of any unfavorable soil conditions, with as heavy a load as any team can draw.

## T-K Wide-Tire Steel Wheels Make Farm Work Lighter The farmer who investigates at once sees points of great superiority in these wheels. He sees the reason for wide steel





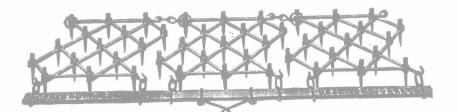
wheels, staggered spokes and indestructible hub. He sees why, under any road condition, there danger of accidents, side strain or wear on his farm wagon, and how possible to haul 25 to 50 per cent. greater load without tiring the he There are other points of superiority. Write for catalogue, and learn farm work is made profitable with our vehicles and equipments. ie and learn hor

TUDHOPE-KNOX CO., LTD., ORILLIA, ONT.

APRIL 27, 19+

# A Most Important Operation is Preparing the Seed Bed. Do it Right!

Farmers who are getting the best results from their land know that the preparation of the Seed Bed is the most important operation. Those who are NOT getting right results are probably not paying enough attention to this. Why not investigate? "Cockshutt" implements give best results under all conditions and are, therefore, the ones you should have on your farm.



# "Cockshutt" Scotch Clip Harrow

THIS drag harrow, with an all-steel frame, is the ideal harrow for hard, heavy work. The teeth are made of extra tough and hard high carbon steel. They are wedge-shaped, and when driven into malleable clips they cannot become loose. As the teeth wear down they can be easily adjusted for length, or removed and very cheaply renewed. There are no bolts or nuts to shake loose, thus avoid-

ing endless trouble. Made in three different weights, in two, three, four, five or six sections, with 15 or 20 teeth to a section, as desired. This range of choice gives the farmer every opportunity to select a harrow which will exactly suit his needs.



# "Cockshutt" Diamond Harrow

THE "Diamond" harrows are made of high carbon channel steel, carefully put together and embodying the most practical ideas. They make an excellent seeding harrow and will give complete satisfaction.

For all kinds of light work the "Diamond" harrow cannot be improved on. They are strong and serviceable and really will do their work better than any other light harrow on the market. They are made in 2, 3, 4, 5 and 6 sections, with stay chains between the sections to keep them from spreading or swinging apart. Like all other "Cockshutt" implements the "Diamond" harrow is thoroughly dependable.

#### "COCKSHUTT" ONTARIO FOOTLIFT BE SURE TO GET THE "COCKSHUTT"

# SULKY

This plow, one of our latest designs, has already made a name for itself among Ontario and Eastern farmers, for whose use

it was especially designed. It is fitted with our Judy or No. 21 bottoms, which are so well known that a detailed description is not needed here. But the one thing which makes this the ideal sulky is the footlift attachment, which enables any boy who can drive a team of barses to do as good work as a man.

The levers are very one entirely arranged, and need no attention in the field, as the plow when once set is operated entirely by the footlift after barent. A special device locks the plow up when raised there the ground, and locks it down when set for work. If the advective arranged so that the plow will rise when striking the distribution thus preventing breakage, most useful when a specific new land. It is fitted with rolling colter, knift and an it is not a faiture as desired.



## CATALOGUE

It fully describes the whole line of "Cockshutt" farm implements, including Engine Gangs, Walking and Riding Gangs,

Sulky Plows, Single Walking Plows, Harrows (Disc and Drag), Harrow Carts, Land Rollers, Pulverizers and Compressors, Seed Drills, Planters, Cultivators and Weeders, Potato Diggers, Road Scrapers, Pulpers, Straw Cutters, etc.

Each and every one of these are made with "Cockshutt" care, and embody "Cockshutt" quality. If you are without a copy of our catalogue you cannot choose the implements you need with safety, but if you have one you can plan ahead for your needs from the "Cockshutt" line, and know that you are going to get the utmost value for your money.

Send your name and address for a copy to-day. It is free.

