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The Farming World AND GANADIAN FARM & HOME

Office of Publication :

TORONTO

Phone Main 2530



"Still she was honest in her quest and went straight to the flowers growing abundantly beneath the maples and pines."—Page 781.

Farmer's Handy Book

USEFUL INFORMATION

HE various branches of the science of agriculture have occupied the foremost minds of the world in all ages. The discoveries made have been preserved and handed down to us through numberless books and papers, many of which containing most valuable information, are quite inaccessible to men engaged in the active practice of farming, while others again are so voluminous that a long search through their pages is necessary in order to obtain some desired information. To avoid this difficulty many encyclopedias, etc., have been published, none of them, however, applying solely to our Canadian conditions. The time has come when a concise work of ready reference thoroughly up-to-date is absolutely essential to every farmer in our land, if only to enable him to recall important ficts which may have escaped his memory.

In issuing this book the object has been to give all the information possible, in the most concise and accessible form. With this end in view, the various facts and principles dealt with have been carefully classified and indexed.

The following outline of the contents of the book shows how wide its scope is, and how useful it is likely to be in the hands of people engaged in rural occupations.

SYNOPSIS OF CONTENTS

SECTION L

Almanac.—Besides the usual information contained in all up-to-date calendars, the dates of all events of interest to fairners which have been fixed for the coming year will be

Progress of Agriculture.—An historical chapter showing advance in the practice of agriculture, with other matter

of interest to Canadiana.

Canada,—This is a wide subject in general; but here only such facts relating to the Constitution of the Dominion and of the unious Provinces, and the trade, area and resources of each of them as will be useful to farmers will be dealt with. Special regard will be paid to the newer Provinces in the West which are now so rapidly filling up with people who are not conversant with our institutions and

SECTION IL

The Soil.—All things begin with the soil. It is the real source of all the wealth, civilization and comfort of the words, confacquently we cannot know too much about it. This chapter contains a great deal of information in the fewest possible words. The classification and constituent parts of soils are dealt with and the natural indications of good and bad land pointed out. Connected with this are tables showing the effect of growing various crops and the best method which we have been considered with the programment of the contract of

Manues.—This very essential matter is thoroughly dis-cussed and the very best analysis of all forms of fertilizers, both barn-yard and commercial, are given. To be grown successfully, plants must be fed; why, when and how to do it are here told in detail.

Drainage.—When water is in excess, drainage is necessary. Several methods have been practised successfully for a long period. The simplest of these are described clearly, so that any farmer can apply them to his own circumstances.

Alkall Land.—In what is known as the "North-West" there is a large extent of land now unproductive because it is so heavily impregnated with certain salies that the crops usually cultivated will not grow upon it. Many experiments have been tried for the purpose of redeeming this land, and some of them have been successful. The methods adopted which have given good results are here set forth, together with a list of forage plangs which have been found capable of establishing themselves upon soil of this character.

SECTION III.

FARM CROPS.

How Plants Grow.—In order to profitably grow a field, den or orchard crop, it is absolutely necessary that the wes should know the processes involved in the production plant from seed to maturity. Here the story is told in ple language, technicalities being avoided as far as

Root Crops.—A new branch of farming industry has in in growing sugar beets. This promises to be very il and profitable. Special attention has therefore been to the method of cultivation of the beet and the uses to hits by-products can be put.

753

SECTION IV.

Orchard.—Although the fruit-growing industry of Canada has now reached large proportions, its maximum from a profitable standpoint has not yet been attained. The facts and hints here given will be useful to many policy who have not been as successful as perhaps they ought. Even to the most expert fruit grower in the country, difficulties sell sementiones present themselves, which are nev to him. In such the country is the country of the

SECTION V.

Live Stock.—The greatest possible attention has been paid to this most important branch of agricultural industry.

paid to this most important branch of agricultural industry.
Every form of domestic animal kept on Canadian farms has been considered; the type form described and its special purposes pointed out.

There are two distinct branches of this subject, viz.; breeding and feeding, both of which have been dealt which shows the control of the system of breeding and feeding, both however cannot be said of their system of breeding. That animals of the highest class in ill breeds can be practiced in this country is exemptified on every show ground by the fee who give the matter the attention of animals under domestic conditions are in this chapter clearly explained, sufficiently so, to caable anyone who will study it, to easily keep up his stock to type form, or to bring up a herd from a low grade to high quality.

Feeding is a acciner; upon it depends the profit deriv-

up a next from a low grade to tupn quanty.

Feeding is a science; upon it depends the profit derivable-from an animal, whether it is kept for its work or its fest or or any other product. Tables of the best and most economical rations for all purposes are given here, the judgment of the feeder must do the rest.

Dairying.—A large part of Eastern Canada is indebted to dairy farming for its present promoder. Dairying.—A large part of Eastern Canada is indebted to dairy farming for its present prosperity in most branches of it we are holding our own with the rest of the world. In some few we are not. None of our failings are due to defects in soil, climate or the habits of our people; they are therefore easily overcome when understood. In this chapter the system of feeding, housing and breeding dairy animals adopted by successful men are pointed out, together with their methods of caring for milk; butter, etc., so as to obtain the best results. So much of the success or failure in dairy-ings of the successful men in the of the success of railure in dairy-ings of the successful men in the of the success of tallure in dairy-ings of the successful men in the of the business that special attention has been given to it.

SECTION VIL

The Silo.—While the silo is an established institution in many districts, there are others in which it is almost unknown, and there are still a lot of farmers in the country who have doubts as to whether or not the silo would be profitable to them. The various methods of building a silo are here shown and the advantages and disadvantages of the different styles pointed out.

Englage.—The various crops grown for ensilage are here considered and compared and the best methods of saving them discussed.

SECTION VIII.

Poultry. A great many people have tried to keep poultry for profit and have failed. Some because they are not fitted

for it and others because they did not get the right idea at the start. Poultry can be made to pay reasonably well, and the method of doing it is not very difficult if right principles are allowed. This chapter shows how it has been done, and can be done again, by those with the sheemsary qualifications for it.

SECTION IX.

Weeks —A very useful chapter is that giving the history and best method of destruction of the prevailing weeks of the country. Most of our highrous weeds were introduced from Buropa and have been allowed to establish themselves by reason of the want of knowledge of the people on the subject. If not checked these will spread, and much injury will emuse.

SECTION X.

Insects and Fungi.—It is impossible to say just what the loss incurred by farmers, gardeners and fruit growers every year amounts to, by reason of the damage done by insected and fungus diseases, but it certainly exceeds ten per cent. of the gross value of the crops produced, Much of this loss may be prevented by the use of simple remedies if properly applied. In this chapter the subject is fully dealt with in such a way as to make evel interpretanced persons to protect their properly against either of these destructive agencies.

SECTION XI.

Transportation.—In this chapter a vast amount of microllaneous information will be given which cannot all be set forth in detail here. Tables showing the distance in miles between all the important points in Canada, the freight and passenger rates over the various railways, express and telegraph charges, and a synopsis of postai regulations will be among the tiense included under this head.

SECTION XIL

Household.—Under this section a lot of information is given which will be found invaluable to every woman who prides herself upon keeping her house on correct principles. Recipes for cooking and methods of dress-making rea omitted as not within the scope of this work, but in place of them will be found many hints for the saving of time, labor and morsey.

SECTION XIII.

Legal—Business Forms.—There are certain contracts entered into by farmers in the ordinary course of their business which should always be reduced to writing; a very simple form generally seffices for this. This section contains forms for such agreements and contracts as are most often. In cases of difficulty or doubt it is always best to coassit, a lawyer, but it is not always possible to do this jurt as the moment. The hints here given jull be found of service and may prevent misunderstandings when dealing with neighbors, we have the safe.

may prevent misunders buyers, farm help, etc.

SECTION XIV.

Statistics, etc.—Under this section will be gathered statistics showing imports and exports of agricultural produces, etc., etc. Tables of weights and measures, money values, etc. Descriptive lists of institutions, in which sericulture may be studied. List of officers of farmers institutes and oil asceleties connected with any branch of agriculture, and of all officials charged with agricultural interests in Canada' and the British Empire, and a chapter or two on rural life, in which every one will find nonething to interest them.

In presenting "The Farmer's Handy Book" to the public, we do so with full confidence that there s in it somewhere, something that will be interesting and profitable to every man engaged in rural occupations, and that it is so arranged that he will be able to find that "something" just when he wants it.

The Farmer's Handy Book, now being published at a great expense, is the most practice. Canadian farmers, and would be big value at \$1.00 a copy. As we have prepared it expressly for a copy to every person paying his subscription a year in advance. This unusual offer applies to all

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The Farming World

J. W. WHEATON B. A.

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ange of Address—When a change of ad-dress is ordered, both the old and the new addresses must be given. The notice should be sent one week before the change is to take effect.

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THE FARMING WORLD, 60 WELLINGTON STREET WEST, - TORONI Eastern Agency of "The Nor-West Farmer.

Always mention THE FARMING WORLD when answering advertisements. It will usually be an advantage to do so.

Entered according to act of Parlia-ment of Canada in the office of Minister of Agriculture by Domin-ton Phelips, Limited, in the year one thousand nine hundred and three.

9999 PUBLISHER'S DESK

How the Tubular Grows

The remarkable business being done by P. M. Sharples, disnufacturer of the Sharples Tubular Separator, at West Chester, Pa., is witnessed by the fact that he is again enlarging. his plant. It was only last year that large additions were made which it was sumpead would mise. he is again enlarging, his plant. It was only last year that large additions were made which it was supplesed would meet all demands 'for majutacturing and atorage. But the inability to keep up with their orders during the past year quickly determined the successity for the buildings of the properties of the supplemental their orders and their content of the successity of the buildings, 272 feet by 23 feet in size, and a blacksmith and tool maker's shop with room for tinning furnaces, 45 feet by 100 feet. The West Chester factory was already the largest in the country. Nothing short of a phenomenal demand for the "popular Tubular could make necessary the extensive enlargements at this time. The prospects for the Tubular would seem to be exceedingly bright, and from a letter just received from the factory and home office we are informed that this is the case. The outlook for the immediate future gives promise of taxing to its Alting appart of the promise of taxing to its Alting appart of the promise of taxing to its Alting appart of the promise of taxing to its Alting appart of the promise of taxing to its Alting appart of the promise of taxing to its Alting appart of the promise of taxing to its Alting appart of the promise of taxing to its Alting appart of the promise of taxing to its Alting and the promise of taxing to its Alting and the promise of taxing to its Alting and the promise of taxing to the promise of taxing the promise of taxing to the promise of taxing to the promise of taxing the promise of taxing to the promise of taxing to the promise of taxing to the promise of taxing the promise promise of taxing to its full capacity the great plant with all its superior facilities.

Of Value to Horsemen

Of Value to Horsemen
Do you turn your hoisse out for the
winter? If so, we want to call your
attentien to a very important matter.
Horses which have been used steadily
at work, either on the farm or road, softe
quite likely had some strains whereby
lameness or erfargements have been
caused. Or perhaps new life is needed to
be infused into their legs. Gombault's
Caustie Balsam applied as per directions,
just as you are turning the horse out, will
be of great benefit, and this is the time

Page Woven Wire Fence

The Repository

TORONTO



HORSES CARRIAGES HARNESS, Etc. Every Tuesday and Friday at 11 o'clock.

IMPORTANT FALL SALES

At 16.20, by instructions from Bessers. Sporfor a Cos. the instructions, we will sell on the above data to Work MORRES, Mores and Collings, 1 to 9 years, 150 lbs. to 1500 he sell. All having been in constant use by the Cornecticated Lake Superior Power Co., Sault Ste. Mark, Ont. All will be sold without any reserve.

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ON WEDNESDAY, NOV. 18th

At Lee o'clock, the Great Annual Sale of Mr. Jos. E. Seagram, M.P., of 60 Thoroughbredincluding, Stallions, Brood Mares, Foals, Yearlings, Two-year-olds, Three-year-olds, Four-yea olds and Horses in training. Catalogue on application:

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Particulars will be announced later.

Walter Harland Smith

Boyal Agricultural Society of England.

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I take pleasure in handing to you the enclosed Cheques, Nos 22003, value & 50 v £10, for First Prage awarded and reluva of Depail in Newd Engine Trials and shall feel obliged of you will kindly present is through a Banker at the earliest possible date.

The receipt at the foot of the Cheque must be signed by you and dated before presentation to the Bankers, as the Cheque without the receipt is of no value.

Yours faithfully,

ERNEST CLARKE, Miser Goold Shaply I Min G, the

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Canada

when it can be used very successfully One great advantage in using this remedy is that after it is applied it needs no care or attention, but does its work well and at a time when the horse is having a rest. Of course it can be used with equal success while horses are in the stable, but many people in turning their horses out would Caustic Balsam if they were remin of it, and this article is given as a remit

Won a Silver Medal

After most exhaustive tests, the Melotte After most exhaustive tests, the metotic Cream Separator has just won a Special Silver Medal (the Highest and only Award) at the great London, England, Dairy Show, held October 6th to 8th. A similar medal was awarded to this machine at the 1898 Show, but the manufacturers are evidently not satisfied to live on their past reputation. The new Skimming Device, consisting of only two pieces, is much admired by th who have seen it, and will serve to make the "Melotte" more than ever a favorite.

New Branches

We notice that The Bank of Toronto has opened new branches during the past month at Coldwater, Ont., taking over at that place the business of J. L. Ross & Co., private bankers, also at Maissonneuve, a suburb of Montreal.

The Chartered Banks are certainly doing all in their power to bring banking conveniences within reach of all our people, as there are now nearly a thousand offices of these banks within the Dominion. The full advantage of our Branch System of Banking is only seen when the important fact is remembered that each of these thousand offices has behind it the reso of a strong Chartered Bank with its large capital and ample Reserve Fund.

Homes for Children

The Children's Aid Society has a ne

ber of boys from four months up to nine years for adoption, but no girls. None of these children are for hire. The Society's Shelter is greatly in need of the following articles for boys wear. or the restowing articles for boys west stockings, underwear, shirts, pants, injut shirts, shoes; for girla wear; print and flannelette fresses, pinafores, stockings, drawers, night, growns, shoes. These should be in a good state of repair.

There is also pressing need of quilts blankets, etc. Fruit will also be most acceptable.

acceptable.

Communications should be addressed to The Secretary Children's Aid Society, 229 Simcoe Street, Toronto.

Color Schemes in Farms

Color Schemes in Farms

A man who goes in for a color scheme if farming may sairly be said to have a -holby. Lord Arlington has such a hobby, which he calls his white farm. Everything about the place that can be white awhite. He has white horses, cows and donkeys, a white bull and white hares from Sheria. The heis are all white, and so are the geese, ducks and hogs. The fences and farm subtilegs are painted white, and farm belief and farm subtilegs are painted white, and farm belief and farm subtilegs are painted white, and farm laborers wear suits of coarse white cloth. Lord Arlington dresses in white when at the farm, but in spite of his example the vegetables insist upon coming up green and the trees still have green leaves in summer. Even a British peer cannot change that.

In New South Wales there used to be a black farm, which was an object of interest to strangers. The settler who owned it shad everything painted to fine the still and the still a subtiling the set of t

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These saws are elliptic ground thin back, perford taper from tooks to back.

Now, we ask you, when you got buy a few to ask to the Majap Leas, Rance fitted, Socret other saw is Just as good ask your merchant of the you take them both home, and try then and keep the one you like bear.

By any man of the flowyrest stool made in now the control of the control of the property of the

for the "Rasor Steel Brand."

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The Farming World

And Canadian Farm and Home

Vol. XXII

TORONTO, NOVEMBER 2, 1903

No. iq

Begin to Read It Now

Our new serial story "Hickory," begins on page 774 of this issue. Don't fail to read the opening chapters. You will be at once interested and pelifeited. It is a most fascinating tale of love and adventure. The story is essentially Canadian and should be read by every lover of his country. To miss the opening chapters would be something that you would very much regret afterwards. The story is bound to irreate interest and become popular.

They Want to Know

THE experience and views of every reader of this journal are of value to someone else. If you have had an experience in the practical farm work of the year that is drawing to a close, that has ended successfully or otherwise, you should let your brother farmer have the benefit of it. Of course, you could not be expected to write directly to your neighbors and friends telling them all about it, but you can, through the columns of THE FARMING WORLD tell your experience to thousands of farmers in all parts of Canada who would be interested in knowing what you are doing and who would profit there-This is your opportunity and your privilege. Let us then have, during the next few months, short items from you bearing upon the work of the year. If you have opinions to express upon any of the subjects appearing in these columns, we shall be glad to have them

To open up the way and to give this matter definite shape the following twelve are topics of sinterest and importance to every farmer. Let us have your views on any or all of them during the next few weeks. It will be in your interest in send them alone:

interest to send them along:

(1) Soil Fertility—What is your plan for maintaining and increasing it and has it proven successful?

(2) Rotation of crops—What rotation do you follow, and has it been successful?

(3) Breeding and raising horses— What kind do you raise, and what success have you had?

cess have you had?

(4) Breeding and feeding beef cattle

What is your plan, and how has it

(5) Feeding and caring for the dairy

cow—What is your experience?

(6) Is sheep raising profitable in Canada?

(7) The bacon hog—How have profits and prices for 1903 compared with the year previous?

(8) Poultry for market—Are you doing any special fattening this fall, if so, what plans do you follow? (9) What about rural telephones?— Would they be of advantage, to you?

(10) Rural free mail delivery.
(11) What important leason, if any, did you learn from the fall fair?

(12) What have been your receipts per cow from the cheese factory and creamery during the season just closed?

A Long But Fruitful Session The long session at Ottawa has close

The long session at Ottawa has closed after an unprecedented period of nearly eight months' duration. That it has been fruitful in important legislation goes almost without saying. While there has, comparatively speaking, not been much added to the statute books bearing directly upon agriculture, the third session of the ninth parliament of Canada has been productive of much that is of vital importance to every citizen of the Dominion.

The legislation secured of first importance is that providing for the construction of the new transcontinental line, the Grand Trunk Pacific. This line will be built from Moncton to Winnipeg by the Government and thence to the Pacific by the Grand Trunk Pacific. It will form, when completed, another through highway from ocean to ocean. The next of importance is the enactment of a law that creates a railway commission to regulate rates and to deal with all important matters affecting railways in which the public are interested. These with the redistribution bill form the three outstanding pieces of legisla-Then there is the German surtax, settling railway disputes by conciliation, increasing poll tax on Chinamen to \$500, the suspension of the canal duties, etc., all of which are of importance to the future development of the

The legislation of more direct importance to the farmer is that referring to the contagious and infectious diseases of animals. The law in this particular has been overhauled and improved and the general inspection act amended in various ways. The prohibition of the manufacture of what is known as renovated butter by adulteration with butterine or oleomargarin is of importance. It prevents the entering of the thin edge of the wedge into our reputaion as producers of honest dairy products. Other important measures were before the House, but were held over for further consideration. One of these was the bill regulating the seed trade and providing the specific and more hones marketed. Wisdom has, no shown in holdfor another sesing this matter # sion. We believe wever, that some legislation of this kind is needed.

These are the main fruits of this over-long session, though we should not

forget the railway bomses granted. The mileage of railways aided in the several provinces is as follows: Ontario, 1,652; Quibec, 1,968 7-2; Nova Scotia, 637, 1-2; New Brunswick, 500; Manitoba, 6 154; Northwest Territories, 2,147; British Columbia, 1,062.

One may well ask where the bonusing business is going to end. Is not Canada big enough to secure railways without a bonus? One would think so, especially in the older settled districts

The United States Gets It

We are living in stirring times. In last issue we gave an outline of Chamberlain's scheme for a preferential tariff within the Empire, and which may have an important bearing upon the future of agriculture in this country. Since then the decision of the Alaska Boundary Commission has been given out. And while it will not cause us to produce one bushel less of wheat or to raise one animal less of live stock, the decision has stirred the people of Canada as they have not been stirred for many a day. The territory we have lost, while not of very great value in itself, was important as furnishing a possible gatepossibility of this is now at an end and Canadians will have to go down in their pockets to the tune of several millions of dollars to build a railway to that part of the Dominion. The Portland canal comes to Canada, but the value of this concession is very much lessened by the cession of two small islands of strategic importance to the United States.

As loyal Canadians we will have to submit. At the same time it is difficult to remain unmoved, while what has been shown to be judiciously our own, is given away to gain, as it would seem, the good will of our big neighbor to the south for the mother land. The decision will do much to counteract the growing feeling of the past year or two in favor of closer trade relations with Great British.

Ontario Should Keep Him

There have been several items in the daily press the past day or two to the effect that Mr. G. C. Creelman, Supt. of Farmers' Institutes for Outario, had resigned and would accept a similar position in one of the Southern States. Mr. Creelman was out of town at time of writing, but on inquiring at the Department of Agriculture we learned that the report was incorrect and that his resignation had not been received. We understand, however, that Mr. Creelman has received a couple of tempting offers from the United States which he is considering. If possible, his services should be retained for On-

Manitoba and the West

An "Overpowered" Company—Creamery, Company Fails— The Western Stocker Trade

(By Our Western Correspondent)

Winnipeg, Oct. 26, 1903.

Not often in Manitoba is a company incorporated and given such powers as have: "The Union Stock Yards of Winnipeg, Limited," notice of which incorporation is given in today's issule of the Manitoba Casette. "For the purpose and with the object of ——," takes up nearly four pages of the Gasette, and a person who has the patience to wade through the list is troubled to find what power has not been asked for.

The name would lead a person to suppose that the intention was to carry on the business of exporters of cattle and live stock. This will be apparently only a small part of their business as they have the power to carry on the business of commission merchants, also to transact a general mercantile business. They can print, publish or conduct newspapers and other publications, and can carry on the business of general printers, lithographers and engravers. They can manufacture and sell bricks, tile, drain and water pipe and any article of commercial value that might be manufactured from clay They can carry on a hotel business, also the business of a tavern, beer-house, refreshment room and lodging-housekeepers, licensed victuallers, wine, beer and spirit merchants, brewers, maltsters, distillers, importers and manufacturers of aerated, mineral and artificial waters and other drinks, purveyors, caterers for public amusements generally, coach, cab and carriage proprietors, livery stable keepers, farmers, dairymen and ice merchants, importers and brokers of food, live and dead stock, and domestic and foreign produce of all descriptions, hair dressers, perfumers, chemists, proprietors of clubs, baths, dressing rooms, laundries, reading, writing and newspaper rooms, libraries, grounds and places of amusement, recreation, sport, entertainment and instruction of all kinds, tobacco and cigar merchants, agents for railways and shipping companies and carriers, theatrical and opera box office proprietors, entrepreneurs and general agents, and any other business which can be conveniently carried on in connection therewith. They can carry on a real estate business and build and operate railroads telegraph and telephone lines. They can conduct a cold storage business and engage in the butchering and packing business. They can manufacture and deal in oils, grease, lard, tallow, and fertilizers of all kinds, and in fact can conduct and operate any and all kinds of business

The names attached to the application for the charter were Frederick L. Bascom, live stock and commission merchant, of Chicago; Thos. L. Metcalf, barrister-at-law, Burt Rehaston; William J. Clearihue, real estate broker, of

Winnipeg, and Walter Ross, a rancher, of Milk River, Alberta. The company is to have a total capital stock of half a million dollars, divided into ten thousand shares of fifty dollars each.

The failure of the Winnipeg Creamery Co., of which Mr. S. M. Barre is the principal sharehold r, as well as manager, president and director, is the most notable event of this nature that has ever occurred in Western Canada, Mr. Barre was one of the pioneer dairymer of the Province and in the early days did much to build up the industry by exhibiting products in Eastern Canada and by opening up a number of cheese factories and creameries throughout the province. During the last few years all the local factories under his management were closed up and their business concentrated in Winnipeg where, in addition to the operative creamery, the company erated a Commission and Dairy Supply business. It may seem somewhat remarkable that while other firms doing a similar business were and are making money, Mr. Barre has never achieved any great financial success. His failure, announced last week, caused no surprise in business circles, but was a serious surprise to hundreds of farmers who had been shipping cream to his company during the summer. It is said that his liabilities to farmers alone are in the neighborhood of \$15,000, in amounts ranging from a few dollars up to \$300 and \$400. In addition to this there is considerable liability to the Banks, but these creditors, of course, have ample security-they always do. Just here a point suggests itself to the disinterested reader. These farmers have been shipping cream to Mr. Barre, who made it into butter and mortgaged the butter to the Bank. Who has a prior claim upon this butter? The farmers who have not been paid for their cream, or the Bank to which Mr. Barre hypothecated goods that did not in right belong to him. However the law may stand on this question, there is no doubt that in equity the farmer has the prior claim. A gentleman having considerable knowledge of the affair informed your correspondent that after the Bank claims were satisfied there would be practically nothing left for the smaller creditors, which includes the farmers. If there is no legislation gov erning cases of this kind it is certainly time that something should be done to protect farmers who patronize such creameries as that operated by the Winnipeg creamery company from dishonesty or business incompetence on the part of the management.

I am in receipt of the following interesting communication from a correspondent in the ranching country: "The trade in stockers between the Eastern provinces and the North-West

Territories is just aww in a very unsatisfactory condition, and it is said that Eastern shippers of young cattle have been very much disappointed in the prices realized this season.

"There are several reasons for this condition of affairs. In the first place the low price obtained for the finished cattle lms been unprecedented. It is stated on good authority that the entire output of one of the largest ranches in Southern Alberta was sold at \$50,50 per head for three and four-year-old cattle. Naturally, men that paid \$2a a head for yearlings two and three years ago and have sold them this year at an advance of \$50 on the cost price are not anxious to buy more this fall "at-anything like the prices that they have been paying during the past two or threefyears.

"Another reason for the unsatisfactory condition of the stocker trade is the poor quality of a large proportion of the young cattle that have been placed on the market during the past few years. Many of these were as far removed as possible from the right kind of raw material for producing finished beef at a profit. They were purchased during a period of high prices when markets were naturally not so discriminating in the quality of the goods purchased. Now that prices have gone down buyers are more careful in making their selection. A fair price can always be obtained for first dass products but when markets are weak as at present the inferior stuff is bound to go, if sold at all, at prices more or less disap-

pointing to the lers.

"Winter for searce on the ranches this fall and onsequently cattlemen are purchasing a much smaller number of stockers than usual. In fact, many of them have very little more than enough hay to carry their breeding stock through the winter.

"Ontario breeders should note that the majority of ranches have at last discovered that they must be more careful in the selection of their bulls. It is said that during recent years Ontario breeders have saved every bull calf that was eligible for registration expecting to sell him at some sort of price to the ranches. Now that the ranchers have discovered the importance of quality and breeding first class stock will fetch better prices and registered scrubs will go for what they are worth. It is safe to predict that in a very short time it will be practically impossible to sell inferior animals for breeding purposes in Western Can-

U. S. Beet Crop

The number of beet-sugar factories in the United States has increased from the control of the new factories being credited to Michigan, 3 to Colorado, 1 to Utah, and 1 to Idaho. The area sown to beets shows an increase of upwards of 12 per cent. The production of sugar cannot be satisfactorily estimated for a month or two yet, but it is exected that the yield will, show a large increase over last fall. Michigan now opt as compared with 80,500 last year. The total yield for the United States for 1903 is estimated at 23,000 tons.



The Shropshire Mansell Ram, Marauder, owned by Lloyd-Jones Bros., Burford, Ont. He won Second actoronto-in 1903, First and Sweepstakes at London, beating there the silver medal ram at 1 Toronto.

Stamping Out Tuberculosis in Cattle

The experience of the Hon. Senator Edwards with the Bang system for the eradication of tuberculosis is-worthy of careful consideration by every breeder of pure-bred cattle. Even, as Mr. Edwards says, if Prof. Koch's theory that bovine and human tuberculosis are not communicable, one to the other, proves to be correct, which many good authorities doubt, it will pay breeders to take some trouble to eliminate the disease for the sake of their own herds. Healthy animals will always pay better than unhealthy ones. We have heard it stated that the average breeder is not favorably enough situated both financially and otherwise, to undertake the system so successfully carried out by Mr. Edwards at Pine Grove farm. While this may be quite true, the average breeder is in a position to do more than he is at present doing towards cleansing his herd from tuberculous animals. But education will do a great deal, and now that more rational measures have been adopted in nearly every stock-raising country for the eradication of bovine tuberculosis, we may look forward to a time when breeders, even in Canada, will heartily co-operate with the proper authorities on their efforts to make the Dominion the healthiest country in the world from which to procure pure-bred live stock of all kinds.

There is an agitation on in England, headed by Principal Williams, of the New Veterinary College, to have the sale and use of tuberculin regulated. He claims that the test is often used as an instrument of fraud. An unscruptious seller may have his animals tested a few days before the veterinary surgeon employed by the buyer comes to test them, thus vitiating the latter test. He also states that sedative drugs, such as laudanum, morphia and aconite, have been surreptitiously administred a few hours after the infection of the tuberculin with the result that the animal's temperature, would not rise. The Principal also reports that he has known

an enema of sold water to have been surreptitiously administered about he tenth hour after the injection of tuber-culin, also rendering the test useless. For these and other reasons the plea is made that the Board of Agriculture in Great Britism should control the sale of tuberculin and that it should be sold only to qualified veterinary surgeons, who should be bound to keep careful record of all cases in which they have administered tuberculin.

While a regulation of this kind would prevent the vitiating of a test by the use of the tuberculin itself it would not prevent such practices as Principal Williams states have been carried on in the old land to render the veterinarian's test non-effective, such as the administration of drugs, etc. In Canada the tuberculin test, with a few exceptions, has been used only in the case of animals sold to go to the United States and of course no one but a qualified veterinary surgeon, authorized by the government, is allowed to make the test. Whether it would be wise to regulate the sale and use of tuberculin, as Principal Williams proposes, is another matter, and may be worth while considering if any concerted effort is made to stamp out the disease in all Canadian herds. However, we have every faith in the integrity of our breeders and believe that none of them would stoop to do such acts as have been credited to some breeders in Great Britain. Since the present head of the Veterinary department at Ottawa assumed office a new order of things prevails. Formerly stringent and almost prohibitive quarantine regulations were adopted and put in force without taking the wishes of the breeders even into consideration. Now the practice is to consult the breeders and obtain their views before any important step is taken. In this Dr. Rutherford has acted wisely and has, we believe, more the confidence of the breeders than any other official who has preceded him.

The Institute Meetings

We publish elsewhere in this issue the list of Farmers' Institute meetings for November and December. These meetings are of the greatest importance to the farmer. No farmer can afford to be absent from the meeting in his district. If he, is not present he is sure to miss something that will be of direct advantage to himself. The speakers who will address these meetings are well informed, practical men and women and if they do you give the information specially suited by your case ask for it.

In sending in the list of meetings, Supt. Greelman states that for the year ending June'30th, 1903, the membership of the Institutes was 23,754. The number of meetings held was 837 with an attendance of 126,459 persons. Women's Institutes, which two years ago were practically unknown, are now well established with a membership of over 4,565. The meetings addressed by the ladies last winter were most helpful.

There are many important questions to be discussed at the coming meetings and secretaries should make every effort to get the people out. One subject that might well be taken up is the rural telephone, which is becoming almost universal in its use in many of the country districts of the United States. The rural telephone will do a great deal for the farmer and its cost is not large. Another question that might also be considered is that of travelling rural Why should not each local institute have a travelling library of its own? There is an opportunity here for most useful and effective work during the winter months.

The O A.C. Overcrowded

The attendance at the Ontario Agricultural College keeps growing apace. The applicants for the year number 220, which makes nearly fifty more than the College dormitories will accommodate, and who have to secure board outside. This state of affairs should not continue. More dormitory accommodation is badly needed. A dormitory large enough to accommodate 100 would be none too big to meet the present needs of the College. Farmers do not care to send their sons to the College if they have to board outside. Though it is an expensive time to build, the best interests of the College should not be sacrificed on that account. The government should come to the rescue and have a new dormitory erected for the fall term of 1904. In the meantime we shall be glad to have the views of any of our readers in regard to the plan outlined in THE FARMING WORLD of Sept. 1st, for making the College of service to the whole Dominion. Let us know what you think of it. Have any of the O. A. C. graduates an opinion to

Goes to South Africa

Mr. W. J. Palmer, manager of the City Dairy Co., Toronto, has been appointed Director of discoulture for the Onange River Colony, South Africa, at a salary of \$6,000 a year. Mr. Palmer is a graduate

of the Ontario Agricultural College of ten years' standing. He took an active part in the establishment of the travelling dairy in Ontario some years ago and had charg of one for a couple of seasons. time he has been actively connected with dairying, more especially in connection with city milk supply. He established the Kensington Dairy in Toronto several years ago and worked up a large business in milk, cream and butter. A couple of years ago his business was taken over by the City Dairy Co., Mr. Palmer becoming manager of the latter concern.

of the latter concern.

Mr. Palmer comes of Prince Edward Island stock, his father being one of the leading citizens of Charlottetown. He is just in his prime and should give a good account of himself in the Orange River Colony. He will leave for South Africa about Describes 6 feet south. about December first

The Mating Season for Sheep By A. W. Smith

A majority of sheep breeders will have made their selection of rams for use this season, and it is wonderful how easily so many of those breeding for sale to the butcher are satisfied when they are making Some will use any kind of their choice. ram, without any kind of attention as to the breeding, or ancestry, or the individual merit of the ram himself. Others conclude that if they get a good-looking sheep the ancestors do not count, while many make as bad a mistake by selecting a poor individual with good ancestors.

And yet if we are indifferent as to our selection of a sire the chances are very great that the lambs also may be indifferent. For best results we should have a nice combination of good individuality and good ancestry. We surely can expect lambs of good mutton form if our ram is one with a strong indication of constitutional vigor, indicated by full, deep heart girth, short strong neck filling smoothly to the shoulders, and both head and neck carried up boldly, with back and loin strong and well covered, with nice firm flesh, a deep flank and full leg of mutton. At least we have better reason to expect good results than if mating our ewes with a ram of indifferent character, perhaps a long weak neck, or a long weak back which is even worse. And it is just of equal importance almost that he should have a good dense covering of wool, and the quality of wool is of much importa for the lambs are much more saleable if for the lambs are much more suicable, to carrying a coat of dense, lustrous wool. Then if we can, along with the correct form in the ram we choose, have knowledge that his immediate ancestors were of the same good stamp we can expect his lambs to be good and uniform.

The number of lambs we may hope to

raise is very largely in our own hand mean that by proper treatment of our flocks we can increase the percentage of lambs produced by our ewes, and their vitality and likelihood to grow to maturity. I firmly believe we can by having our ewes and ram in strong, thrifty condition each year increase the number up to about 200 per cent., which is plenty, although I believe there is one man in New York State who is endeavoring to establish a flock of ewes with four fully developed teats, in case of success, I suppose, he will place his maximum at 400 per cent. increase.

A frequent change of pasture, or of feeding ground, from a good crop of clover to one of rape, or fall rye sown early, a feed of grain even might be profitable, although I have never found it neces-sary. Again, for best results the ram should not run constantly with the ewes I am satisfied we can get as many, and much stronger lambs if the man is allowed much stronger lambs if the mm is allowed with the ewes for only an hour or two each day, and he then can be fed grain, when separated, and which he always should have. Oats give the best results

And now just a word about the lambs. They have been weaned two or three



Men's Black Suits

This is the time of year when we sell lots of black suits. A black suit is a Spring suit, Summer suit, Fall suit and Winter suit. You can wear it when a business suit isn't appropriate, and it is the stateliest suit for business, too. Always in good taste, appropriate on all occasions, becoming to everybody-a good, staunch, refined old friend, that one can always fall back on. Men's single and double breasted Sack suits and Frock suits in black Vicuna, black Serge, black, rough-faced Worsted, Cheviots, etc., \$8.50, \$10.00, \$12.00 and \$15.00. If we don't satisfy you at every point, come back for your money.

OAK HALL

J. COOMBS, Manager

King Street East

222 Canada's Best Clothiers.

Neck and Shoulders above all Competitors.

months and generally have had a chance to run all over the stubble fields, picking up lots of the weeds that will grow, and choice bits of clover and full privilege of the aftermath in the clover fields cut for hay, and besides all this which they have saved to the farmer he could very profitably provide a few acres of rape for them, on on which they will get fat and Then ten minutes to each lamb in trimming them a little, squaring their tails, etc., will be worth as much to him in their better appearance as he could earn at any other job almost in half a day.
Unfortunately for the farmer, the number

of farmers keeping a flock of sheep is decreasing each year, and all the time the demand for mutton and lamb is increasing, and the price as well, so that they are the most profitable meat producers we have, and even wool is increasing in value

steadily

Pork Packing Plant to Open

The plant of the Farmers' Co-operative Pork Packing Co., of Brantford, has been sold to George Matthews & tive Pork Packing Co., of Brantford, has been sold to George Matthews & Co., Peterboro, for about \$60,000. The deal was effected by the Bank which held a mortgage on the entire property. The new company will overhaul the premises and re-open the factory, which has been idle for six months.

The Farmers' Co-operative concern

has proved a disastrous enterprise. The company was formed two years ago with a capital of \$200,000. The chief stockholder was an English capitalist, who had \$25,000 in the concern, he iccoming the selling agent in Breat Britain. It is said that his commission on sales will about reimburse him for his outlay, though this seems doubtful. The balance of the stock was held by farmers throughout the Province, who will get nothing. It is reported that nearly a quarter of a million dollars nearly a quarter of a was lost in the venture.

We understand that some parties are looking after the Palmerston factory, which has also gone out of business. The Harriston factory is still doing

A cheese-factory, binder twine fac-A cheese-factory, binder twine fac-tory, etc., the products of which are sold here may be run satisfactorily on the co-operative plan. But any concern, the products of which must be sold three thousand miles away had better be left for the capitalist to finance and manage. By averaging the losses with the gains he usually makes it go.

Farmer's Course at Winnipeg

The course of practical instruction in agriculture established by Wesley College, agriculture established by wesley continued Winnipeg, last winter will be continued this year and somewhat enlarged. The lectures commence Nov. 16th and the tures commence Nov. 16th and the The fee is \$20 and with economy can work through a course for \$100. In ddition to the regular courses there will be ten lectures on soils, crop rotations, etc., by S. A. Bedtord, Supt. Brandon Experimental Farm; ten on stock and stock raising; four on fruit and fruit growing and five on farm sanitation and

Coming Events

Conference of Dairy Instructors, Ot-Conterence of Dairy Instructors, Octawa, Nov. 4-6, 1903.
Ontario Fruit Growers' Convention,
Leamington, Ont., Nov. 24-26, 1903.
Ontario Experimental Union, O.A.C., Guelph, Dec. 7 and 8, 1903.
Provincial Winter Fair, Guelph, Dec.

II, 1903. Maritime Winter Fair, Amherst, N.

, Dec. 15-18, 1903. Eastern Ontario Dairymen's Conven-

Western Ontario Dairymen's Convention, Belleville, January 6-8, 1904.
Western Ontario Dairymen's Convention, St. Thomas, January 12-14,



Building a Log House in New Ontario.

Temiskaming---What it Has for the Farmer

New Ontario has been dealt with frequently in these columns. But the Ontario press excursion to the Temis-Ontario press excursion to the Temis-kaming country a few weeks ago fur-nished an opportunity for obtaining in-formation from an independent source as to the agricultural possibilities of that district, which could not be allowed to pass by. We have pleasure, there-ton pass by the pass of the property of the ten specially for the Tollowing, with from some of the exercisionists. More may follow later: may follow later:

THE SETTLERS' CHANCES

THE SETTLESS CHANCES
The clay belt in New Ontario is said to be between 50 and 60 miles wide and 600 miles long, and contains about 16, 000,000 acres of fertile soil. Before many years this region in its consumptive and productive capacity, will be as important to Toronto as the North-

West is at present.
In the vicinity of New Liskeard the In the vicinity of New Liskeard the clay is covered with a rich black mould from four to eight inches deep, which is very productive. If this is mixed with the clay underneath, and with proper rotation of crops, the farmers' chancès are magnificent. We saw oats that would harvest 40 bushels to the acre. Potatoes planted in May produced at the rate of 360 bushels per acre; and some planted in the end of June turned out so bushels to the acre. Fall wheat.

some pianted in the end of June turned out 50 bushels to the acre. Fall wheat, spring wheat, peas, clover—in fact, everything grows well.

Any man who has had some experience in Old Ontario, and is willing to work, can do well in New Ontario. The land is covered with avail timber.

rience in Old Ontario, and is willing to work, can do well in New Ontario. The land is covered with small timber, mostly spruce. Stumping is easy; cut the big roots with an axe and a span of horses will pull them up.—

On the road to Milberta, about six miles frogth New Liskeard, we came to a settler who had gone in three years amount of the control of the control

filled bwith settlers from Old Ontario and other places

L. G. JACKSON, The Era, Newmarket. EXCELLENT SOIL

It is, of course, impossible to form much of an idea as to the agricultural capabilities of any country in a couple of days, which was all the time that the Press Association spent in New Ontario, although, owing to the courtesy of Mr. Thomas Southworth, Director of Mr. Thomas Southworth, Director of Colonization, we were able to see more than we could in twice the time had we gone as individuals.

Going up the Blanche River we could see from the exposed banks that the soil see from the exposed banks that the soil was excellent, and there was a good deal of cleared land from which fine crops had been taken. The fact that several* fields were absolutely free of stumps and the crop had been cut with a reaper showed that the land was not hard to clear. On the road to Milberts. hard to clear. On the road to Milberta, which is somewhat more recently settled, not so much progress had been made, but there were some fair clearings, and a few good barns, which seemed to be well filled, also some very comfortable frame houses, with not a little

taste evident in the surroundings. splendid leading roads built by the Gov-ernment are a great boon to the settlers and are object lessons as to the kind of highways they should build for them-

The fair at New Liskeard was a The fair at New Liskeard was a revelation, the quality of the roots and vegetables and grain being equal to those at most of the fairs in Old Ontario. There was not much stock, but the quality was excellent, though the condition of the cattle was rather poor, owing to the lack of pasturage. The flowers shown by the ladies and the taste with which they were arranged was evidence of culture and refinement. On the Huntsworth place, in the east end of Liskeard, there is an orchard of anole trees which seem to be thriving

apple trees which seem to be thriving and a considerable space under cultivation of strawberries, raspberries and currants, which yielded well this year

currants, which yielded well this year and produced quite a revenue. Altogether the Temiskaming district as far as we could judge, is ideal for settlers, and especially for poor men, who cam get profitable work at good wages for all the time they can spare. No complaints were heard; everybody seemed satisfied, and the appearance of the country of the fair grounds showed the crowd on the fair grounds showed they were well-to-do.

the crowd on the fair grounds showed they were well-to-do.

There was hardly any chance to judge of the country along the Temiskaming railway, as there is no clearing except the right of way for more than a few miles out of North Bay. The quality of the timber, however, showed there must be good land undernyath, and the soil taken out by the stydem shovel in a ballast pit would be & fortune to a farmer if there was enough of it. There was, however, a good deal of broken land, which would never make farms until all the rest of the country is crowded. is crowded.

C. M. Young. The Freeholder, Cornwall.

A VERITABLE REVELATION

That part of New Ontario known as the Temiskaming district has surprises in store for all visitors. A tour of in-spection will inevitably dispel preju-dices and command at least a measure of wholesome respect for that section, because of its resourcefulness. This characteristic is manifest even on a hurried trip through the country.

During the recent visit of the Cana-dian Press Association a very fair op-portunity was afforded for judging of the advantages of the country from an agricultural standpoint. We travelled



/ The Hunting Season is on.

by boat up the Blanche River through the townships of Harris, Casey, Brethour, Hilliard and Ingram, and drow over the Government roads through Digmond, Hudson, Kerns, and into Armstrong, in all covering about 100

In making this circuit we found hundreds of settlers doing well in their new homes, well satisfied with their prospects, and full of confidence as to the future of this new and recently discovered section of our resourceful province.

vince.

In conversing with the farmers on their farms, and also at the Township of Digmond Pall Fair, which was held at New Liskeard on the 25th September, they invariably expressed the opinion that the soil of the greater part of the Temiskaning district is fully equal in fertility to that of any part of Southern Ontario. Judging from the quality of grain and roots shown at the exhibition there was certainly or reason to doubt the assertion.

As is well known, this country is in

As is well known, this country is in the great northern clay belt, and the soil is a rich clay with a surface of black vegetable mould. It does not, like the clay in the counties bordering Lake Ontario, between Toronto and Hamilton, and in the other parts of older Ontario, become hard when exposed to the air, but is fraible when dry and easily worked.

The agricultural fair was a veritable result in the country of the coun

The agricultural fair was a veritable revelation to visitors from outside. The exhibit of stocks was very creditable, and the fact that it included a number of pure-breds and several imported animals, showed that the settlers are determined at the outset to stock their farms with the best strains obtainable. It was, however, the display of grain and roots which created most genuine surprise. The wheat, peas and oats were exceptionally fine and, the judges were exceptionally fine and, the judges exceeded to the competition. Mangolds and carrots were also excellent, while for garden vegetables there was a long list of splendid products. The twenty-one entries of butter showed also that dairying is being given decided attention even at this early day in the country's history.

in the country's majory.

The Tenniskaming country is well watered, easily drained, has abundance watered, easily drained, has abundance purposes. Lumber, brick and me manufactured in the district, and building materials, farming implements and settlers' supplies are all obtainable at New Liskeard, Haileybury and other points at prices surprisingly reasonable. There are also superior leading roads in all directions, and a ready cash married to the farm of cort. The products of the farm of cort. The products of the farm after the products of the farm and cort. The produc

In view of all this and the added fact that next summer will see the completion of the Temiskaming and North Ontario Railway from North Bay to New Liskeard, thus bringing the district within twenty-four hours of Toronto, I have no hesitation in recommending prospective settlers to secure their new homes in the Temiskaming district in preference to the open prairie wheat lands or ranches of the far West.

H. P. Moore.

Free Press, Acton.

THE ROADS AND SOIL

The land is now taken up as far as it is surveyed, but on most of the claims very little work has been done. Of the clearings we saw in a twelve mile drive to Milberta, some were nice level locations, although the country resembles Old Ontario more than Manitoba or the Territories. Some writers speak

of it as being "undulating" but not hilly. I call some of it hilly—decidedly. The Ontario Government has built some main roads (which is more than the settlers in Old Ontario had done for them sixty years ago), and these roads are as good as any in Old Ontario. In fact I have bumped over as bad spots in Toronto roads as you find in these. When a team of horses pull nine people twelve miles in two hours, you can conclude that they are pretty good for colonization roads. It had rained the night before, but stretches of the road were quite dry. The settlers are expected to build the side roads, and these at first will probably not be so good.

at first will probably not be so good.

As I said, many locations as yet have no clearings and this is a drawback. Where two or three owners have made a start on adjoining lots it is all right, but where a man has miles of almost impassible bush between him and the next settler, it is discouraging, in some cases. It will be years before some of the locations will, be accessible by road. To facilitate clearing, the owner of a good timber lot sometimes sells his timber to a saw miller. I cannot say what the range of prices is, but I met one man who was selling his for \$300.

The soil produces everything that

The soil produces everything that me produces everything that produces a good arain, roots, vegetables, flower, grapes, apples, etc., but it is not very suitable as a rule for apples or kindred fruit. Wild fruits are abundant. The sail crusts thinly but does not cake like our heavy clay. Botatoes grow very large, but file the erop here are showing signs of rot.

W. H. KELLER.

The Journal, Uxbridge, Ont.

HAS GOLDEN OPPORTUNITIES

On Friday, Sept. 25th, the Commissioner of Crown Lands and the visiting the Commissioner of Crown Lands and the visiting the Country over colonization roads which had been built during the past two years under the supervision of A. W. Campbell, Deputy Minister of Public Works. The writer drove the first of four loads. To the surprise of every-body these roads were found to be in every respect equal to many of the country roads in Lambion, and as Mr. Toronto not as good." At the new village of Milberta, 1z miles north-west of, and 200 feet higher than New Liskeard, the party had dinner and then returned. The country passed through was mostly good farming land, and is being rapidly settled. It is covered with mixed timber all of which finds a ready market, the moment of puts the first ase into a tree. One of the surprises to the visitors was the number of wire fences along the farm fronts. Oats, clover and vegetables are the settler's first crops, and all yield abundantly.

The general opinion expressed by the visitors was that as soon as he new railway reaches New Liskeard and the many advantages of 4 that part of the Province become better known, it will be quickly filled with settlers from Old Ontario and other places. New Liskeard is 17g miles south of the latitude of Winnipeg, and the winters, though cold and steady, are shorter and milder the exception of the state of the cold and steady, are shorter and milder the exception of the Southern Ontario winter, in short the climate is admirably suited to the requirements of vigorous and progressive people. Then the settler without capital can obtain an immediate return for his labor in the sale of whatever kind of timber he may glave. And this clay belt of over sixteen million acres which stretches away to the north and west, the heart of which will only be west, the heart of which will only be

24 hours from Toronto by rail. The building of the new railway north from North Bay which the Government is now pushing forward will do wonders to build up the trade in Toronto and, in fact, in all the whole Province. The movement of population and wealth to New Ontario has only commenced, and its golden opportunities only beginning to be appreciated, even by our own people.

H. T. PETTYPIECE,
The Free Press, Forest, Ont.

Wire Fencing and Fall Fencing
Wire fencing has many points of advantage over most other styles.

vantage over most other styles. Its cleanliness, doing away with the associates of the old rail fence-corner, the weeds, brush and bushes, the traight and the narrow line permitting the land to be cultivated much closer without fear of injury to the fence, team or implements, are points that commend it to general approval. It is also a fence that is, if well constructed, to the last degree reliable. How often has the reader on arising after a night of storm and wind and rain found the whole of his rail fences laid low, his own and his neighbor's stock roaming at will over the whole of his grobs and doing more damage to—the standing grain and to themselves than the cost of many fences. The light handsome fence of wire can be depended upon at all times; it has only to be built once, and if built well, will stand all tests.

It butt well, will stand all tests.

In this connection the query arises,
"Why is the erection of the new wire
fence invariably commenced, or, as it
may well be put, deferred until spring?"
The business of the put, deferred until spring?
The business is not this a work that can
be done to as good advantage say in the
Fall of the year when the ground is in
equally good condition for the placing of
posts solidly in place, and when less fully
cocupied time gives better opportunity
to make sure that the work is well done.

to make sure that the work is well once. By making arrangements now to do at least part of that fence this Fall instead of waiting until next Spring you will no doubt be able to find time and it will then be so much that is off your mind, and, if it is a fence that runs near the buildings or a road, you will be well repaid by enjoying through the coming winter an immunity from the drifts or snow that are the winter associates of the old rail fence.

The Victoria, B.C., Fair

Large attendance, good weather and keen interest from commencement to close, characterized the Victoria Exhibition, beid early in force and the Victoria Exhibition, the control of the Victoria Exhibition, beid early in order acting and other attractions aided the fine exhibition of the stock, grains, vegetables and fruits. A characteristic feature of the Exhibition was the exhibits of agricultural products made by different localities, such as Saanich, Chilliwack, Cowichan and Okanagan. All were tastefully planned, and showed to good advantage the natural products of these localities. First place was a warded to Saanich and second to Chilliwack. In live stock there was a strong aggregation from the maintain, particularly in beef and dairy cattle, sheep and Alex, Galbraith, of Racine, Wis., had on exhibition a fine class of draught horses. The exhibits of J. T. Wilkinson in light horses were also excel-lent, as also in Southdown sheep.

Mr. Hayseed—There ain't nothin' thet Si Peters loves more 'n newspaper notoriety. Mrs. Hayseed—What's he bin a-doin'

Mr. Hayseed—Paintin' his barn agin, an' there ain't no occasion fur it, 'cept tew git his name in the paper.



A Familiar Scene at the Victoria, B.C., Exhibition.

Pedigreed and Improved Seeds

Every Canadian farmer is more or ess interested in the breeding and selection of live stock with a view to the improvement of his herds and flocks. But the breeding and selection of seeds with a view to the improvement of the grain crop is very little known. In many ways the one is just as important as the other. No farners who matted as the other. No farmer who wanted to breed a high-class animal would would to breed a high-class animal would think of using a scrub sire, or dam for the purpose. And yet there are hun-dreds of farmers who are every year sowing "scrub" seed and expecting to reap a large crop of grain of the best quality. One practice is just as absurd costany if we expect to reap the best re-turns from our fields and crops.

The breeding and selection of seeds

turns from our fields and crops.

The breeding and selection of seeds is a science that has reached its highest development in Europe and especially in Great Britain. In the old lands the high price of land makes it imperative upon the farmer to sow only the best seed to be had. In this way he has been able to increase his crops and make his angle and the profitable westure. The contract of the property of the lish farmer and to put him in the way of securing the best quality of seeds. The pioneer in this work has been the well-known firm of Garton Bros., Warthat has taken place in the quality of the seeds offered to the British farmer has been largely due to the work of the seeds director the British tarmer has been largely due to the work of this enterprising and reliable firm. Not the seeds and a seed of the seeds the seeds and a growers of the each step sell. Garton's experimental grounds at Newton-Le-Willows are the largest of their kind in the world and are gradually working a revolution in the seed trade of the United Kingdom. A representative of Mesers, Garton has recently been in Canada in the interests of their large business. To the FABLISH WOSED he gave some interesting facts about the work being done in England. All seeds are sent out under guaranteed percentages of purity and germination and that their efforts to supply only pure wholesome seeds are meeting with

and that their efforts to supply only pure wholesome seeds are meeting with success is shown by the fact that during the past four years their sales have in-creased by over 300 per cent. The chief work of this firm and the kind that is making for better and more improved seeds is carried on at their experimental grounds at Newton-Le-Willows. Here the results obtained by breeding and selection are nothing

short of marvellous. The tendency of new breeds of grain is to deteriorate. To arrest this deterioration and to bring these new breeds back to their origina these new breeds back to their original productiveness, the Garton system of improvement is each year applied to a number of individual florets, and from the grains thus produced a stock is raised known as regenerated stock. For instance, Garton's stock of "Abundance" act is practically eleven years younger than the original stock and is consequently more differents and proconsequently more vigorous and pro-ductive. Experiments conducted by the Consequent Experience via gordus and by the Highland and Agricultural Society of Scotland show that Garton's regenerated "abundance" out yielded 68 bushels per acre as against a yield of 55 bushels for the original stock of the same variety, an increase in lawor of the regenerated stock of 15 busnels per acre. Other equally notable instances might be given. An effort is being made to produce an oat with less husk and grain. The new oat, "Goldinder," is an example of what can be done. It shows from 1 to 4 per cent less husk than several of the leading oats sown in England. This has been accomplished by breeding with a special object in view. Measrs. Garton hope in Messrs. Garton the near future to have a hulless oat solendidly adapted for the oat meal milling trade.

It would take too much space to go into detail in everything that is being into detail in everything that is occupantly done by these people to develop new and improved seeds of all kinds. An interesting piece of work is that connected with the new class of farm plants known as Turnip-Swedes, the plants known as Turnip-Swedes, the aim being to combine the good quality of both in one new vigorous plant. In this Messrs. Garton have been jusqular-ly successful, and a class of plants has been produced intermediate in charac-ter between the turnip and the Swede, possessing the vigor and quick growing habit of the former, combined with the hardiness and high feeding value of the latter. This new class which will be known as the Turnip-Swede, marks a new era in this class of farm plants and is the most important addition to a new era in this class of farm plants and is the most important addition to the turnip family since the advent of the Swede over a century ago. A leading variety of this class is known as the "Pioneer," a variety with skin bright purple, bulbs globular in shape, follage robust and sigorous, with purple-colored or the property of th robust and view leaf stalks.

Work of this nature in seed improvement is new to the Canadian farmer.

So far he has had to depend upon other countries for his turnip and similar seeds, while in seed grain he has been dependent upon the ordinary seeds of the country unimproved and unselected. He should therefore welcome any movement should therefore welcome any movement looking to the improvement of the seed which he uses. We understand from Mr. A. G. Turner, Messrs, Garton's representative, that, if a company can be formed in Canada to undertake similar work, they will lend their name, influence and experience towards making it a success. In other words, Messrs, Garton will undertake to introduce their methods of breeding and selecting seeds experimental grounds similar to those at Newton-Le-Willows in Canada would materially improve the quality of our seeds cannot be doubted. It is to be hoped therefore that a company will be hoped therefore that a company will be formed and arrangements made to introduce the Garton system of producing pedigree seeds into Canada.

Know the Seeds You Buy

Parties buying seeds, especially vege-table and flower seeds, should know ap-proximately what percentage of them is likely to grow. To obtain some definite information in regard to quality of Canadian vegetable and flower seeds, the Seed Division, Ottawa, collected upthe Seed Division, Ottawa, collected up-wards of five hundred samples and test-ed them for vitality. The samples were secured at about twentv different points in the Dominion and were considered representative of the seeds on sale. About one hundred of the packages bought were of seeds held over from last year. The most approved method bought were ot seeds held over from last year. The most approved method was used in making the tests, two hun-dred seeds being used for each single test and each being conducted in du-plicate. Where the number of seeds in the package would not permit of this, all the seeds were used.

The following table gives a summary

of tests of a	few of	the cor	nmon	seeds:
Kind of Seed.	No. of Tests.	Min.	Max.	Aver.
Union	27	1.3	96.5	55.7
Lettuce		41.	95-3	82.9
Celery	11	1.5	56.5	18.2
Carrot		26.	93-	66.
Cauliflower.		2.5	87.	51.5
Radish	17	12.5	96.	71.6
Tomato		27.	97.5	77.
Cabbage	14	40.5	95.8	72.
Parsnip	15	11.3	68.	40.
Morning Glo	ory 5	29.	61.5	50.8
Sweet peas.		69.	91.3	85.4
Pansy	6	9.5	75-	54-2

year after ver cannot be commended. It is important that a buyer of seeds should know at least approximately what per cent. is vital, but owing to the limited amount of seed it is impossible for him to make a test. The case is different with the wholesale dealer, who has seed in bulk and slould know within at least five or ten per cent. the vitality of the seeds he handles. A o stamp the some little trouble to seedsmen but pot noncessarily any risk, as no objection more constant of the seedsmen but pot nocessarily any risk, as no objection some intre trouble to seedsmen out not necessarily any risk, as no objection could be raised to a reasonable margin. Such a practice would be of inestimable benefit to the users of the seed.

In the Dairy

The Dairy Conference

Arrangements for the Dairy Conference to be held at Ottawa, on Nov. 4-6 next, have been completed by J. A. Ruddick, Chief of the Dairy Division, Ottawa. meetings will be held in the Imperial building, Queen Street, Ottawa, and the attendance will be limited to invited delegates and representatives of the press

Among the subjects to be discussed are: co-operation of dairy farmers; instructio to farmers; export trade; preservation and transportation of dairy produce; common defects in cheese and butter in 1903; pasteurization in creameries; syndicate in Ontario; cool curing of cheese; sanitation in factories; caring for milk, etc. Some important resolutions will come up for discussion. Any delegate wishing to present a resolution should notify Mr. Ruddick at an early date.

Light and Pure Air in Dairy Stables

Before the winter sets in and the cows are confined almost constantly to the see that proper provision is made for light and ventilation. We were in a stable the other day, supposed to be a model, that in our opinion was lacking in this one respect of light. Light could only get in from one side, and as the stable was wide the farther side was dark and gloomy even at midday. If your stable i not well-lighted now, have windows put in. The more light and especially sunlight, the healthier the animal. Sunlight one of the best antidotes for disease. There is less danger of tuberculosis in the herd if the stable is well lighted and ventilated. If the ventilation has not been good have it attended to at once so that the cows will breathe only pure air. Good air to breathe will lessen the amount of food required and increase the return

The dairyman should look to light and entilation more, perhaps, than the beef-raiser, though they will help both in-dustries. Get light and ventilation into your stables in some way. Light and pure air are free to all and should not be kept away from man or beast.

Good Dairying Pays

Canadian dairymen have had a good season, especially those who patronized the cheese factory. Below is given the result of a 90w census made by Mr. C. P. Goodrich, of Wisconsin, chiefly of cream ery patrons. The figures show the valu of ensilage or better good feeding or care The figures show the value

of ensitage or better good recump or wave.

Mr. Goodrich says:

"There are five creamery patrons who
feed ensitings: No. 4 who made on butter
\$ay.18 profit per cow, No. 7 who made on
butter \$14.26 per cow, No. 17 who
made on butter \$12.66 per cow, No. 21 with
\$ay.18 mostly ner cow, and No. 25 with \$20.17 profit per cow, and No. 25 with \$20.17 profit per cow. One cheese fac-tory patron fed ensilage, whose profit on milk delivered was \$22.23. These six milk delivered was \$2,2,3. These six silo men averaged \$2,10.0 profit per cow, while the average profit of creamery pat-rons was only \$5,94 per cow. The gross returns for the silo men averaged \$3,2,3 per cow, while those who did not feed ensilage received on an average of but \$3,400 per cow, a difference of \$18,2,3 in favor of the ensilage men. If also of these facts that it will only to be facts that it will only to be facts.

facts, that it will pay to build a sile? Is it possible that all this gain in gross receipts and profits is because these men feed ensilage? Or is it, in part, because these men are more progressive, up-to-date farmers, have better dairy cows, study to feed a balanced ration, and in short have less old fogyism than many of those who do not have silos? These are questions for you to ponder on and answer

My own opinion is that, although I k any man is making a great mistake who keeps a herd of dairy cows without having a silo, the feeding of ensilage did not and could not of itself make this astonishing difference of over 54 per cent. in gross receipts and more than 500 per cent. in net profit."

These figures speak for themselves. Can any of our Canadian dairymen show better results? We believe they can. end them along.

Udder Massage in Milking

We have referred in these columns to the method of manipulation of the udder in milking or what is known as udder mas-Sage in milking. A dairyman of Zealand, Mr. H. Graham by name, lags tried it reports results as follows: A dairyman of New

"Our test was standing at 3.5, and the last seven days of December we tried the has seven days or December we tried the manipulating scheme and we jumped up to 3.8, just making a difference of 2s. per day extra to us. My neighbor, Mr. C. Walker, also tried it, and his test rose from 5.6 to 3.9. The new method made an increase of 2s. a day on a herd of twenty cows or about 12 per cent. tests rose an additional point the second week. The total increase is therefore .4."

Have any of our Canadian dairymen tried this new plan? If so, we would be glad to hear from them as to the success of the experiment

A New Milk Tester

It is reported that the city bacteriologist or Atlanta, Ga., has ordered an ins ment from Germany by the use of which he can tell whether milk has been watered. With this new instrument, no matter how rich the milk, if the slightest water been added it will be revealed. revealed. What kind of a milk tester is this anyway?

North-West Dairying

The Dominion Department of Agriculture, through its Dairy Division are operating eighteen creameries in the North-West Territories. Three creameries were closed in 1902 because the farmers who formerly patronized them had got into a position to raise stock and grain. This was not because of lack of confidence in dairying, but because they preferred the former method of making a living. Last year five carloads of butter from

the government creameries were exported to Great Britain, one carload to Queens land, Australia, and shipments were also made to China, Japan and the Yukon. Up to Oct. 1st, 1903, the output of butter from these cameries exceeded that of last year for the same period by 100,000 pounds, this increase being mainly in Alberta. This year no butter has been sent to Great Britain, all of it being sold in Canada or exported to the Orient. The exhibit of dairy products at the Japan Exposition at Osaka, has already borne fruit, three customers for Canadian butter having already been secured as a direct result of it. The trade in butter for the Orient is for the European residents, and Mr. J. A. Ruddick, chief of the Dairy Division, hopes to develop an extensive trade with the wayships touching at Naga-saki for coal. Part of the butter shipped this season was sent forward in tins and also in boxes. In the latter it stands the journey very well.

Mr. Isaacstein, of New York, returned home very late one night and Mrs. Isaacstein asked:

"Shakey, where you got all dot to-bacco stane on your shirt front?" bacco stane on your shirt front?

"Blaying draw poker mit three shentlemans from New England, Rachel."

"Vel, couldn't you turn your head to
one side ven you spit?

"" Not mit dose fellers."



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Our English Letter

Weather and Crops—The Dairy Show—Adulterated Butter— Admixture of Margarine—The Markets.

London, Oct. 17, 1903.

Rain and wind, wind and rain have been the burden of the present year and farmers have had a most trying season. The "black year" of 1879 is eclipsed by the rain that has fallen since January last and agriculturists have suffered severely. Floods have been frequent and in many parts of England at the present time there are acres of corn uncut, as the wet weather larger than the season of the

THE DAIRY SHOW

Last week the annual Dairy Show was held in the Agricultural Hall, Islington, London, and al magnificent collection of dairy produce yas again brought together. Cattle at this show are only few in number and are of the milk type. Elaborate butter tests and milking trials are carried out during the four days the exhibition is open and the results give some useful information as to what picked cows are able to do in the direction of pail filling and butter yielding. The pedigrees Shorthorn butter test was won by a cow belonging to Mr. in a phouse which produce pounds of milk in a phouse which produce promise of milk of butter, which gives a ratio of 2,67 lbs. of butter, which gives a ratio of 3,67 lbs. of milk to 1 lb. of butter. The second prize winner gave 5,3 lbs. of milk from which was made 2 lbs. 1/5 gos. of butter.

The Jersey butter test was an interceting one, for it included Dr. Watney's renowmed cow Sharab, which is supposed to be, and that with great reason, the most remarkable cow alive, yielded 45 lbs. 5 oss. off with the supposed to be a supposed to be supposed to

A-of ibs. of solids other than fat.

A-of ibs. of solids other than fat.

Cheeses and botter makers are always.

Cheeses and botter makers are always.

Cheeses are the Dairy Show. Of the Solids of t

ADULTERATED BUTTER

Lord Onslow, the Minister of Agriculture, visited the Dairy Show, and spoke at the annual meeting of the members when he promised to re-introduce the water in butter bill in the next session of parliament and endeavor to get it passed into law. The bill is one that dairy farmers urgently desire to see upon the statute book, but it had to be dropped last session owing to pressure of business. I see that the Canadian legislature have set us a good example in the matter and I hope that we shall shortly have the sale of "milk-blended" butters put a stop to. One of the latest frauds upon the butter

consumer is the admixture of margarine and pure butter in such a manner that chemical analysis is defied, and it is impossible to detect which is genuine butter fat and which is animal fat from other sources. At the recent dairy conference at Brussels the subject was widely discussed, and a way was suggested which will get out of the difficulty easily. It is proposed that all margarine factories should be under government inspection, and that all manucturers should be compelled to add to their product a small percentage of oil of sesame, which is not only innocuous as regards flavor, but is really of food value. Where the addition of oil of sesame is beneficial is in this way, it appears that a simple chemical test will quickly show that mixture containing this oil will quickly react and assume a pale rose or light pink color. If all margarine manufacturers were compelled to add this substance to their product detection of unfair competition would be at once evident. I understand that at the Brussels Conference a resolution adopting this suggestion was unanimously adopted, the only rift in the lute being that the Dutch delegates retired without voting, as it appears that it is their country which is the principal sinner in this respect, although the practice is also pretty general in Denmark.

THE MARKETS

We are just now in the throes of the fiscal diseation, which receives greater attention than it otherwise might owing to the general stackness of business. Butter is slow and prices are inclined to be easy, while the slight reductions recorded for Canadian bacon have brought about a better feeling, and larger quantities have changed bands. The reverse is the Joseph Canadian cheese, which is at such prices that buyers will not pay much attention to it.

accention to it. Canadian of States apples are reachican and and States apples are reachican and a good clearance is effected, although
to bring about this prices have fallen about
so cents per barrel. The result of the
Canadian Fruit Marks Act has been a
decided improvement in the grading and
packing since the measure was enforced,
and the trade and the public are beginning
to appreciate the advantages of the Act.
The fruit that is reaching us is in excellent
condition, but from advices received the
will go back further yet as there is such
an enormous crop in other parts of the
world, although, unfortunately the English
grower has had a really disastrous season.

There is very little moving on this side at present, and until we get colder and more seasonable weather foodstuffs of all sorts will remain dull. An early winter would do a great dealt to put the provision market on good terms with itself. I hear privately that a givean number of factories are parily shut down, hence unless trade improves during the next two months the purchasing power of the people will be considerably curtailed.

The World's Grain Crops

The Hungarian Minister of Agriculture estimates the world's total yield of wheat for 1903 as 3,022 million bushels as compared with 2,868 million bushels in 2002.

The yield of rye as 1,513 million bushels as against 1,576 in 1992; barley 1,223 in 1992; barley 1,223 in 1992; and 1993; as against 1,174 in 1992; oats as 3,351 as compared with 3,222 millions in 1992. The following is the rank of the leading countries in wheat production in 1993; United States, 639 million bushels; Russia, 523; France, 338; India, 288; Ilungary, 195; Italy, 199; Germany, 190; Spain, 123; Canada, 93; Argentine, 91; Roumania, 68; Great Britain, 53; Austria, 47; and Bulgaria, 37 million bushels;

The Paris, France, Bulletin de Halle makes the estimate of the world's wheat crop much less, or 1,895,789,000 bushels in 1902, a shortage of 95,524,000 bushels or a reduction of 2,34 per cent. The Bulletin credits the exporting countries with the estimated 4,950,000 bushels or a reduction of 2,94 per cent. The Bulletin credits the exporting countries with many continuous countries of 2,950,000 bushels of approximate of 2,041,000 bushels. These estimates are for the crop year extending from August 1, 1903, to 1814 to 1,000, anchosive.

July 31, 1904, inclusive.

According to these figures the world's supply of wheat is likely to be equal to all requirements.

Selecting and Storing Seed Corn

Though comparatively little corn is grown in Canada for seed, there are some sections, notably in Essex County, Ontario, where the bulk of the corn is grown as a grain crop. Where this is done it will pay to give some attention to the selection of corn for seed. Corn for seed should be fairly firm while it is still on the statk before picking. The grain seems to be plumper after drying, than when picking is done shortly after the leaves and heaks bushels are required for next year's seed supply, it will pay to go through the corn field after the grain has become thoroughly hard and pick such portions as most nearly approaches the ideal. There is some advantage in choosing ears only from stalks which are of good size and that bear the ear well up from the ground. This will conduce to more uniformity, not have a supplied to the size of the ear. The ears selected should be well filled with well matured kernels, right to flied with vell matured kernels, right to flied with well matured kernels. Only the plump, well developed grains should be planted.

After selection, the corn should be stored where there will be every natural advantage for drying. Inexpensive racks may be constructed by recting uprights (one inch by six inches) from the floor to the roof of the corn crib, or in any structure where ventilation is good. These uprights should face each other and be placed four or five feet apart, being joined by laths nailed on each side at a distance of about six inches apart. In between these laths the corn may be stored. In this way conditions are ideal for drying, while at the same time the pressure due to the weight of the corn is not great on any part of the Seed. The disadvantage of storing seed coph in a pile chance is liable to be more or less disanged by such freezing and thawing as take place in the winter. If corn is properly handled so as to bring it into a firm condition before winter properly sets in, it may not be necessary to store it in warm quarters. However, if it is not absolutely firm at this time it will usually pay to place it in a room where the temperature never reaches the freezing point. However, it is should be understood that it is much better to store the corn in codd, well ventilated quarters than in those which are warm, but poorly ventilated. The latter method of keeping corn is almost a such to be over-emuhasized.

Farm Implements and Conveniences

Novel Wheelbarrow

The accompanying sketch is that of a rather novel novel wheelbarrow invented in England.

vented in England.

The wheel, instead of being fixed at the extreme front, is taken back underneath the body of the webnicle, and instead of the load being supported by the
axle of the wheel as heretofore, it is
carried by a smaller wheel under the
body of the barrow, which rests upon
a tire of the larger wheel, and revolves
upon it. A brake may be added if de-



sired. It is claimed for the new bar-row, which is an improvement on a lome-made barrow on a similar prin-ciple, that it is easier to wheel, that the load, being better balanced, is much lighter in the hands of the user, and that for ease in tipping there is nothing to equal it.

A Milking Tube

novel milking glove tube is in use A novel milking glove tube is in use in Australia, which is illustrated herewith. A valve fits over the teat, and from the valve extends a long narrow tube, which conveys the milk from the teat into a covered pail. The orifices in the cover of the pail are just large enough to receive the tubes. Many of the troubles of dairying are caused by the injurious microbes that are carried dirt into the milk, and it has been



recommended by various authorities to groom the cows and wash their udders with soap and clean water, and wipe them with a clean towel; to require the milkers to wash their hands and heads, to brush and trim their nails, to wear clean clothes, to put on white overalls and caps at the time of milking; to construct the floor of milking-yard and shed of asphalt, to wash and sweep it shed of asphait, to wash and sweep it after each milking, and to tar and lime-wash both it and the lime-work of the shed frequently. This milking tube would make all this unnecessary.

Adjustable Cultivator

An improved cultivator for use in gardens and nurseries for the cultivagardens and nurseries for the cultiva-tion and weeding of small plants, has been invented in South Dakota. The improvement lies in the provision of means for adjusting the cultivator discs means for adjusting the cultivator discs relative to the main frame, or to the rows of plants, so that the soil may be thrown toward or away from them, as occasion may require. The ground wheels and beams may also be shifted laterally to a sufficient degree to permit passage of large plants or bushes. The construction of the cultivator will be readily understood by a glance at the accompanying illustration. The frame The frame comprises the usual arch 1, which con-mects the angle plates 2, and the han-dles 9, secured to the vertical portions 3 of the plates. The plates are pro-vided with lateral slots 10, through which the pivot bolts of the bearing sleeves for the cultivator dises 8 pro-ject. The bars or beams, 8 and 6, sup-porting the ground wheels, 7, are simi-lating the ground wheels, 7, are simi-lating the ground wheels, 8 and 9, jecting through slots in the plates. Now, according as the rows of plants to be cultivated are close together or far



apart, by loosening the nuts on the pivot bolts, the pairs of discs may be shifted to a corresponding distance from each other. By swinging the bear distance from each other. By swinging the bearing sleeves about on their pivots, the
amount of soil broken up by the discs,
and the direction in which it is thrown,
may be governed at will. The scrapers,
4 which swing with the bearing sleeves,
serve to remove any soil that may collect on the discs. It will be observed
that the beams, 6, are extended and
curved downward to the ground. These
serve to stir up the soil adjacent to the
rows of plants, thus rendering them
more susceptible to the
disintegrating
action of the discs. action of the discs.

Farm Mechanics

Farm Mechanics
The Iowa Agricultural College has established a new department to be known as Farm Mechanic and Agricultural Engineering. This should prove a most useful and valuable course.
The statistics of the U. S. Department of Agriculture show that in 1830 it required 17 3-4 cents worth of labor to produce a bushel of wheat. In 1896, this was reduced to 3 1-2 cents. In 1890, the time representing the polarious control of the control saving was largely brought about by the introduction and use of improved farm machinery.

A Good Swinging Gate

Here is another handy gate and more substantial than the other shown on this page. It dispenses with the ordinary page. It dispenses with the ordinary material for swinging a gate, and as it only presses downwards on post c, the latter does not leave the perpendicular, and consequently the gate does not drop at the foot. Moreover, the structure may be quickly made as it hangs, and



consequently need not be so solid heavy as the ordinary contrivance. The pole A is balanced on the post c, and the pin c driven through both, so as to hold in position. The gate is made by merely binding on the battens and the wires E. The heavy piece of wood B may be used for balancing purposes.

Binders and Cream Separators

Dinders and Cream Separators
Editor The Farming Wolls:

I have been favorably impressed with
the account given in the Farming
Wolls of Sept. 1st, of the Closky binder about to be put on the market by
the Farmers' Co-operative Harvesting
Machine Co. Binders are being introduced here. There are four different
kinds sold here, by averst and every one kinds sold here by agents and every one of them is represented as the best. They will all work at first, but have not been long enough in use to test the durability of any of them. One of the strong objections to the binder is the great weight jections to the binder is the great weight to take onto the soft fields that we often have here in harvest time. Reapers are filling in quite that. If a binder can be produced that two horses can handle produced that two horses can handle under ordinary circumstances it will doubtless take their place. For the surrounding country here we want a small sized light binder. A four-foot cut is all that is wanted in a large number of the fields. The binder puts the grain in a much better condition to stand the rainy weather. When grain is tied and properly stooked it will stand a large properly stooked it will stand a large properly stooked it will stand a large amount of rain before it is damaged. The grain is free from all contact with the earth. The grain, as left by the reaper, is nearer the ground; the straw at the cut end of the sheaf or pile being always higher, the consequence is that the grain sprouts in much shorter time in rainy weather than when put up in

stooks. Another article that is being intro-duced somewhat fast is the milk separ-ator. And we are altogether at sea as to their qualities. I don't know how many ator. And we are attogener at sea as we have their qualities. I don't know how many have agents here representing them, not less, perhaps, than six or eight different kinds. And each agent represents the one he is selling as the best. When terent whos. All each agent eye-sens the one he is selling as the best. When the content of the

also.

If this new light binder is put on the market next season, I hope Nova Scotia will not be overlooked as a field of labor, and that the farmers down by the sea may have an opportunity of seeing and examining it. Doubtless the large binders examining it. Doubtless the large induced that are at present on the market are all right in the large fields with the level, smooth, hard bottom. But here, where we have small fields with uneven surfaces and frequently wet harvests and faces and frequently wer narvests and soft bottoms, we cannot hope to make a success with those heavy binders. We need something lighter, which I hope will be found in this new one to be put on the market next season.

JOHN McGrorge, Colchester Co., N. S

The Way Out of It

A certain member of parliament was to to make a speech in V——, but was unable to do so on account of the heavy rains having washed away a portion of the little railroad. So he sent this telegram;
"Cannot come—wash-out on the line

In a few hours the reply came back : "Come anyway -borrow a shirt."



The Jersey Cow "Dentonia's Island Queen," property of Dentonia Park Farm, Coleman, Ont. (Note splendid dairy form and length of udder.)

The Bang System

For Stamping Out Tuberculosis in Cattle

BY THE HON. W. C. EDWARDS

At the annual meeting of the American Association of Veterinary Science, held at Ottawa early in September, a valuable paper was read by the Hon. Senator Edwards giving his experience with the Bang system for the eradication of tuberculosis as practised at his farm at Rockland, Ont. This paper we are privileged to publish for the benefit of our readers. After some introductory remarks, Mr. Edwards said:

Toming to the subject on which I am to occupy your tings for a few moments and referring to a term and the subject on the park was a subject of the park was a subject on the park was a subject of the park was a subject on the

ing conditions and the loss of animals will be measured largely by the general sanitary or unsanitary and other conditions prevailing, so that regardless of the matter of the danger to human life, it is highly in the best interests of the stockmen that his herds and flocks with the stockmen that his herds and flocks are from disease of every name. should be free from disease of every na-ture, and the question arises—can tuberculosis, one of the most 'constant disculosis, one of the most constant dis-eases present in animals, be eradicated? My answer is, "YES," most emphatic-ally. It can be done and once eradiaily. It can be done and once eradi-cated, by reasonable care, healthy herds and flocks in this respect can be main-tained; and the system we recommend is the Bang System which has been rigidly practiced on our farm since the year 1898. In the Spring of that year, intending to ship some young bulls to Wisconsin, we asked our Dominion veterinary authorities to test them, and to our surprise and regret it was found that all responded to the tuberculin test. This was our first knowledge of the existence of the disease in our herd. For a few days we were undecided what course to pursue, but on consultation with Hon. Sydney Fisher, Minister of Agriculture, who recommended testing the whole herd, and who further urge upon me the advisability of adopting the Bang System for the eradication of the disease, and on our consenting, he at once placed us in communication with Dr. McEachern, then Chief Dominion Veterinary Inspector, who immediately had the entire herd tested and mediately had the entire herd tested and gave us full information and instructions; as to the Bang System. The greater part of the herd responded to the test and a separation was at once made of the healthy from the diseased animals. The decision was to weed out and kill all but animals of desirable pedigree and individuality and the slaughtering took place under veterinary inspection. Of the 50 to 60 animals slaughtered ouly three proved unfit for inspection. Of the 50 to 60 animals slaughtered, only three proved unfit for human food, but in all traces of the disease in a more or less degree were found, but in most cases, very trifling traces of it. The stables formerly occupied by the herd were most thoroughly disinfected for the reception of the healthy animals and entirely new premises were erected for the diseased animals were testined in our herd and in like manner the diseased animals have been kept in separate and distinct pastures from the healthy ones since that

time and have never mingled in any

RAISING THE CALVES In the inception of our experiments, we sterilized the milk from the diseased cows as directed by Dr. McEachern and fed the calves from the pail. This plan we found successful in so far This plan we found successful in so far as raising sound calves were concerned but it is a somewhat troublesome one, and further, we lost a few calves as we believe from the fact that they were so fed at once without first taking the mothers' milk in the natural way. This plan, while successful, we have discarded entirely and we have adopted the plan of raising the calves on nurse cows, plan of raising the calves on nurse cows, allowing the calf always to suck the mother once before making the change. This plan we have found most successful in every particular and in the prac-tice of either of these plans described. we can vouch for it from our experience that healthy calves can be most successfully raised from diseased dams of diseased sires and dams, and if all is carefully carried out, the percentage of diseased calves raised will be very small indeed, so small that it need hardly be considered. In our experiments every-thing has been entirely satisfactory to us and we strongly recommend the pracwhom we are sorry to say have, up to this time, resisted the advice in this respect of our veterinary authorities both in the United States and Canada and the subject has been a most controversial one. We can only say for our part that after a very considerable experience we are firm believers in the Bang System and we are believers in the tuberculin and we are believers in the tuberculin test as the only present means, so far as we are aware, of ascertaining the existence of the disease. The only failure, so far as we have knowledge of, is in cases where the disease is in such an advanced stage that reaction does not take place. In a well conducted herd such cases will be few and far between. Further, we have experienced none got the unfavorable results that are put up by those opposing the test. In no case have we known in the many hundreds of animals we have had tested of an injury to the animal, neither have we exper ienced any trouble in abortion in cows

tested and we have had them tested at all stages of pregnancy.

We are firm believers in the tuberculin test, as we have described, and we are allso firm believers in the Bang System, and the search of the search of the search of the search of our herd. No matter what the practice and requirements of our government authorities may be, we on our part shall not relax our efforts in the direction I have stated until all our herds are absolutely free from the disease and until better means are known, we shall always use the tuberculin test to ascertain the conditions of the health of our

heros. The district export NEEDLE Having given our practice on the farm, I may now be permitted, perhaps, to make a few general remarks. The discovery of the extent of the disease in the herds of various countries a few years ago caused such a commotion that most rigid enactments were passed by several legislative bodies; extreme conditions were imposed, doing unfortivately, in our opinion, a great deal of herefars and stockmen. Much of this legislation has been rescinded and more reasonable measures are now adopted as a result of a greater knowledge of the subject. Mistakes, if there have been mistakes, were not wilful but well intended on the part of the authorities of each country, but we submit that if the disease is to be eradicated from any country it must be through a compaling of education and united affort on the

part of the breeders of the country The exclusion of importations will never help to eradicate the disease just so long as the disease exists in the herds of the importing countries and our veterinary authorities will do well to the simplicity with which the disease may be eradiacted, rather than impose unnecessary conditions.

Apart from the test and the appli-cation of the Bang System, cleanly and sanitary conditions, good ventilation and sanitary conditions, good ventilation and plenty of sanlight, and as much outdoor life as possible are the requisites. To the beginner in stock breeding we would advise great care in seeing to it that he begins his operations with animals from disease and that he attends well to his ventilation and sanitary conditions, and if at any time he buys to strengthen his herd to see to it to a certainty that

his herd to see to it to a certainty that he does not buy disease with the animal. To the breeder, small or large, who discovers the disease to exist generally in his herd, if the animals are of inferior pedigree and individuality, we recommend turning off to a butcher to be killed under veterinary 'inspection, all animals that respond to the test, and been anywhyt in no case would and begin anew, but in no case would we recommend the slaughtering of valuable animals where they are still in good breeding form and vigorous apgood preeding form and vigorous ap-pearance, but we advise the system of separation we have described in this paper. The same full measure of se-paration may not always be possible, but the best that can be done should be done in each instance and under one done in each instance and under no circumstances neglect the matters of venticumstances negacet the matters of venication, good sanitary conditions, plenty of sunlight, and as much open air life as possible. I am fully convinced of the reasonable possibility of the eradication of tuberculosis from our herds and of the maintenance of sound herds, and my the maintenance of sound nergs, and my earnest hope is that our breeders may at no distant day be so educated in the direction I have endeavored to describe that they will put into practice the only present known means of ridding their herds of a disease which in the past has been so destructive in its consequences.

Ottawa Winter Fair Building

Contracts aggregating \$13,764, have Contracts aggregating \$1,704, have been awarded by the Ottawa city council for the erection of a suitable building for the Eastern Ontario Fat Stock and Dairy Show. The new building will be flocated in the grounds of the Canada Central Fair. It will be a two story frame structure, 24 by 135 feet, with stone foundation and cement piers, and sheeted with galvanized iron sidings. The internal arrangements will be such that an open space 70 feet by 158 feet from the ground to the roof will extend down the centre, leaving 32½ feet of room on each side for stalls and This will be an excellent ring for judging, and the space above and the sides will give ample opportunity for visitors to watch this part of the show. The part that is to be devoted to a lecture room is adjacent to this, and the architecture of the building is so planned that, should it ever be necessary, the piers in that part of the building can be removed together with seating, etc., and thus allow an open space 70 feet wide, the entire length of the building. The lecture room itself will be of sufficient size to seat at least fifteen hundred, and in order to give the speaker all possible advantage, the seats have an amphitheatre arrangement. Behind the recturer's platform and between the lecturer of the judging ring after doors which may be raised when no lecture or demonstration is in progress to allow people to remain in their seats and still be able to view the judging ring, and take advantage: of what may there may be in progress.

The killing and cooling room will in all probability, be in the opposite end of the building to the lecture room, so as to obviate any noisy interruptions of lecturers,

that are frequent and troublesome when the two rooms are close together. illustration carcases required in the lecture room may easily be transerred by means of over-head tracks. It is expected that the dairy room will be at the same end of the building as the lecture hall. The upstairs will be used for live and dressed poultry, and for this purpose there will be a space of 32½ feet on each side and 42½ feet at each end of the central open space

The Autumn County Show.

You may talk about St. Louis, an' your big Chicago Fair
Where the world is out on show, an' all

creation comes to stare, But for real intense enjoyment, there's a

place I'd rather go, Tis the annual celebration of the Autumn County Show.

When the summer time is over, an' the harvest's gathered in,

An the Autumn's golden glory shines as only Autumn ken,

Then comes the crowning climax, an we load our stuff an go, To maintain our reputation at the annual County Show

Mother brings some home-made butter, all

done up in rolls an prints, And a fat, red-faced professor, with the funniest of squints,

Tastes it, sort o' calculatin', tastes some more, an' says he's durned If the butter that can beat this piece of goods was ever churned.

Over t'other side the showring, in the horse an' cattle stalls, Dad has just been nailin' several big red

cards upon the walls,

cards upon the walls,
Susie's calf has got the ribbon, Sue's as
proud as she can be,
An' the champion yearlin' filly is the one
dad gave to me.

Folks that go to Exhibitions, just to set down in the shade, Flirt, an fool around the side-shows, buy-

ing sweets an lemonade, Can't have any true idea of the roarin

load of joys, That the annual County Show day brings to all us farmer boys. -J. W. Sangster.

Uppermill and Collynie Bull Sale

On Oct. 13, the first of the great annual series of Shorthorn sales in the north of Scotland was held at Tillycairn, when the bull calves from Collynie and Uppermill were sold. Both Scotch and English breeders were out in strong force and as full of activity as ever. There were no United States buyers present. Mr. D. C. Flatt, Hamilton, Ont., was the only Cana-dian buyer present. The Argentine boom more than made up for the collapse of the American demand, and the demand from American demand, and the demand from that quarter was extraordinarily keen. The top price of the day was 600 guineas (\$3,000) paid by Mr. Taylor, of Pittlivis, for the Uppermill calf, Imperial Favorite. The top price in the Collypie lot was 450 guineas (\$3,250) paid by Mr. Garue, Aldsworth, for Nonpareil Champion.

Mr. Marr had a small number of bull calves this veer, and his average for

calves this year, and his average for the eight sold was the splendid figure of £211 198. 4d. (about \$1,055). Mr. Duthies twenty-two bull calves made the high average of £144 2s. 9d. (about \$700) or about \$150 more than in 1902 and about \$60 less than in 1901. Marr's average was over \$450 more than in 1902 and over \$4500 higher than at any previous sale held by him. None of Marr's lot were pur-chased by Mr. Flatt, but he succeeded in getting three from the Collynie lot which should give a good account of themselves in Canada. Proud Edward, a red by Royal Edward, was purchased for the Trout Creek Herd for 200 guineas (\$1,000). Another purchase by Mr. Flatt was Rosy Morning, a roan, by Merry Morning for 86 guineas (\$430). He also purchased the red roan bull calf, Gold Cup, by Nonpareil Courtier, for 110 guineas (\$550).

Fall Management of Ewes

There is no such thing as "bad luck" in the management of live stock, though many unsuccessful breeders seem to think there is. Nearly all cases of so-called "bad luck" may be traced to bad management at some stage of the game. In no line is this more noticeable than in the management of ewas, especially in the fall of the year. The breeding ewes are often neglected in the fall and the breeder or farmer wonders why he has not a better crop of lambs in the spring. A serious mistake is often made by not

feeding the ewes liberally during the breeding season. Often ewes are weak and thin from nursing and are turned into a bare pasture where they have no chance to gain in strength and vitality. When in this condition the ram is turned in with them and of course unsatisfactory results will be sure to follow. The ewe is weak, thin in blood and flesh, while the ram is in no better condition on the spare fare His breeding powers are over-the result is one puny lamb provided. His breeding taxed and the result is where two strong healthy ones might have been obtained.

All ewes should be in strong healthy condition when the breeding season begins. Between the weather and the mating time the ewe should have some feed in addition to the pasture. Rape is very good for this purpose and every sheep raiser should grow a little for feed ing at this time. If rape is not to be had then feed some grain in addition to the grash and clover pasture. If the pasture is short hay should be fed. A little cabbage at this time is good. A suitable ration is a mixture of from one-half to three-quarters of a pound of a mixture three-quarters of a pound of a mixture of equal parts of whole oats and bran fed to each ewe daily. This generous feeding of the ewe should be continued till she is bred and also through the winter, substituting roots for the rape or silage for roots if the latter cannot be had. Careful feeding of this kind will keep the ewe good strong healthy condition and the lambs dropped will be healthy and strong.

The ram should be given extra foo months before the mating season begins A quarter of a pound of mixed oats and bran daily along with rape pasture, cab-bage and other ordinary farm foods will enable him to enter upon his fall work in best of condition. This condition should be retained by sensible manage-If the ram be turned into a large field with fifty ewes this condition will soon vanish. Even if other rams are turned in with him it will make no differ-ence. A plan advised for large flocks is to divide the ewe flock into lots of fifty or fifty-five at the most and bring the ram among this flock night and morning. rule not over five ewes will come in heat at one time and of these he should serve three in the morning and two at night.

If left to himself he might overserve some and neglect others. But under careful and neglect others. But under careful direction he will serve all in rotation and the results will be satisfactory.

Everybody Takes it

I have been taking FARMING WORLD for many years, and always liked it well. The advice which was given has been of great use to my family, both in the house and on the farm, for the boys and girls are always the tarm, for the boys and gris are always waiting for the paper, and now that you have combined the two papers in one, we think it is well worth the increase in price. We would have tried to get some new subscribers, but we would have to go subscribers, but we would have to go away from home some distance, for I do not know of any who are not taking the paper. Wishing you every successmuel Tremeer, Victoria Co., Ont.



Spicy Louise (Imp.)—Sold at Bright's sale for \$420—She was bought at Flatt's sale last spring for a high figure.

Shorthorns and Clydesdales Sell Well Brisk Bidding, Fair Prices, A Satisfactory Sale

The dispersion sale of the Clydesdal e and Shorthorn herds of Mr. J. Bright, of Myrtle, held on Oct. 14th and 15th, was a very successful one considering the time year, and, though in few cases were or year, and, though in few cases were fancy prices reached, yet the general brisk run of the sale was a practical demonstra-tion of what a solid basis the Shorthorn tion of what a solid basis the Shorthorn business of Canada rests upon, a basis too solid and deep laid to suffer the least noticeable reaction after the late boom. Very few indeed are the industries of which as much can be said, and the way in which the sixty head of cattle went through the sale ring in a little over four hours should saie ring in a little over four nours should go a good way to reassure those who were disconsolately knocking their own line of business by saying sadly that it was overdone, and that the business was likely to experience a long period of depression. This is a growing time in Canada, and in no sense more so than in the appreciation of the importance of improvement of tarm live stock. The prices at which the entire herd was run off may be taken as a fair nerd was run off may be taken as a fair indication of current values among the pure-bred beef cattle today, values at which there is an unlimited demand for this kind of animal. None of the animals sold were in anything like show condition, being taken directly from the field to the sale backed by good pedigrees in popular strains. Quite a number of really choice animals were among the number, and it was among the best of these that there was some sacrifice made, and it is quite possible that, had these been brought for-ward in higher condition, somewhat better would have been offered. herd bull, a fine two-year-old roan, Royal Archer, bred by Robert Bruce, Hetherwick, Scotland, and of the famous "R" was certainly a half-price bargain to W. Bright, of Myrtle, General Ramsden a good looking Miss Ramsden five months calf, looking Miss Ramsden five months calf, was also a bargain day snap to Maw Bros., Myrtle, for \$85,00. There was some spirited bidding when Spiry King, a tenmonths' imp. bull by Chance Shot (86660), dam Spiry Louise, was brought in, and he finally went to Allan Bros., Bowmanwille, for the sum of three hundred dollars. Clemency 4th, a fine scotch-topped imported three-year-old heliefr, went to J. Baker, Selina, for \$210.00, and W. Fright, of Myrtle, even to J. Baker, Selina, for \$210.00, and W. Fright, of Myrtle, even to J. C. Baker, Selina, for \$210.00, and W. Fright, of Myrtle, even to J. C. O' Myrtle, even to J. O' Myrtle, even to J. O' Myrtle, even to Myrtle, even to J. O' Myrtle, even to J. O' Myrtle, even to J. O' Myrtle, even to Myrtle, of Myrtle, got a real gem in imp. Rose,

ror \$330.00. The choice young cow, Spicy Louise, was sent up to four hundred and twenty dollars and dropped to Mr. W. B. Gardner, of Elmvale She is bred to Royal Archer and twenty dollars and dropped to Mr. W. B. Gardner, of Elmvale. She is bred to Royal Archer and the dam of Spicy King can scarcely fail to produce from the famous "R strain, a calf worth more than that when weaned. About seven hundred were present at the sale, almost all the leading breeders of Ontario being among the number.

sale of Clydesdales was also very satisfactory, the bidding being very brisk, and all offered going to at least mark, while in some cases good prices were reached. The horses offered were of good quality, and though not fat were in good healthy condition. The first offered

in good neatthy cognition. The first offered was a six-year-old mare, Tillie Granger—5069—, sire Granger, dam by Prince Imperial. She was bred to McQueen, and is a fine mare with fair limbs and good style, and was landed by Graham Bros... style, and was landed by Granam Bros... Claremont. Her team mate was next offered. She is ten years of age, a daughter of old Sir Walter, and a mare of the finest kind of conformation and good size and quality, and carrying a colt to Lavender. W. Parrot, of Columbus, to Lavender. W. Parrot, of Columbus, got this one at \$35. Royal Erskine, a two-year-old stallion, with two registered dams, a good strong cot of fair quality, good limbe and feet and fine top, went to T. W. Ross, pof Myrtle, for \$32,500. This fellow is a get of old Erskine, dam by Hercules; graduant by Netherby, while such horses and Merry Farmer and Louden The control of the strong Tom, also figure in his pedigree. A two-year-old filly, Sweet Briar, by Eastfield Laddie (1715), dam by Goldfinder (714), was sold to J. Gardhouse. Her mate, Her mate, was sold to J. Gardnouse. Fer mate, Lady Erskine—4414—, sire Erskine Style (2129), dam Dolly Brock (4473), went to \$305.00 and was dropped to John Gordon, of Bella Duff. This was one of the best animals offered, of good size and grand proportions, fine limbs and feet, nicely sprung pasterns, a well rounded shapely sprung pasterns, a well rounded snapely body, well coupled, and showing lots of muscle, with a very fine toppy head and neck. She is altogether a fine type of animal, and promises to be a profitable investment to the purchaser. Ingraham's Rosebud —5074—, a good upstanding filly of good substance and quality went to J. Ward, of Bella Duff, for \$300.00. Lina and, a good looking two-year-old by

Thistle, dam by Prince Imperial, was sold Thistle, dam by Frince Imperial, was sout to H. M. Douglass, the well known stock-man from Markdale. Dolly Carrington, a good thick blocky sorrel, of good style, a little deficient in feather, but showing good action and eligible for registration, being a daughter of Sir Erskine, and from a registered mare, went to las, Cook, Myrtle, for \$200.00. for \$200.00. Jessie Lynedoch sire Lynedoch and from the brood Columbus grand mare 2943 - went to Dr. Moore, of Columbus, —2943— went to Dr. Moore, of Columbus, for \$200.00. She is a yearling of considerable promise, a large strong colt.

Rosada —5072—, one-year-old, sire East-field Laddie —1712—, (6719), a good Nosada −5072−, one-year-old, sire East-field Laddie −1712−, (6719), a good growthy kind, of fashionable type, went to W. Cassey, Ashburn, One-year-old Lady Cairnton −505/−, sire Royal Cairn-ton −4019−, dam Rose −5076−, was perhaps one of the best animals offered in the entire sale. She has splendid action, the entire sale. She has splendid action, lots of quality to satisfy anybody, and good size. She was good enough for the stables of Graham Bros., Claremont, and went to them for \$210.00. Dolly Cairnton, went to them for \$210.00. Dolly Cairnton, another representative of the Cairnton another representative of the Cairnton family, a nice filly light bay in color, went to Nelson Wagg, Claremont, for \$200.00. Patrick's Prince 2nd, a promising colf by Prince Patrick, dam Nellie Erskine, by Erskine, was sold to F. W. Hodson, Myrtle. Several unregistered horses were cold was presented by the prince was a fine ten was a Myrtle. Several unregistered horses were also sold, among others a fine two-year old gelding by Prince Patrick brought old gelding by Prince Patrick brought \$150.00. The ten-year-old mare Kate.oy Raglan — 3950—, sire Sir Erskine, a mare of good quality and style was sold to John Gordon, Vroomanton, for \$210.00. The following is a list of the principal animals sold, with the purchaser and

prices paid :-

COWS AND HEIFERS.

Imp. Clemency 4th.—48371— (vol. 49E), calved Dec. 25th, 1900, J. Baker, Selina, \$210.00.

Selina, \$210.00.
Imp. Rose.—(Vol. 48, p. 691 E), Feb. 25th, 1901. W. Bright, Myrtle, \$330.00.
Imp. Border Lass.—48406— (vol. 38, p. 671 E), Mar. 22, 1901. John Ross.

| σγ:Γε], Mar. 22, 1991. John Ross, \$170.00.
| Imp. Spicy Louise. — 48,86— (vol. 49 E), July 22, 1900. W. B. Gardner, Elm-valle, \$420.00.
| Maud. — (Vol. 29), Sept. 13th, 1898. J. C. Lawrence, Myrtle, \$140.00. Sophia Ramsden.— (Vol. 20X), Aug. 4th, 1899. R. Miller, Stouffville, \$125.00.
| Miss Rumsden = (Vol. 200), Mar. 13th, 1903. R. Philip, \$95.00.
| Bertie Ramsden.— (Vol. 20), June 28th, 1900. J. Bonnycastle, Campbellford, \$140.00.

Miss Ramsdem 11th.—(Vol. 20), May 11th,

71155 KARISGEM 1710.—(VOI. 20), May 11th, 1903. A. R. Johnston, Balsam, \$90.00.
Kitty Wells.—June 20th, 1900. W. Maw, Myrtle, \$115.00.
Miss Ramsden 17th.—(Vol. 20), May 29th, 1903. W. Maw, \$100.00.



Mr. John Bribgt.

Laura Ramsden.—(51154), July 14th, 1900. John Birkett, Balsam, \$125.00. Queen of York 4th.—(3944), Aug. 4th, 1856. W. Maw, \$100.00. Queen of York 5th.—(3943), May 10th, 1859. John Scott, Altoena, \$190.00. Miss Ramsden 10th.—(Vol. 19), Oct. 181, 1902. J. D. Houden, Whitby, \$155.00. Blanche Ramsden.—(Vol. 20), July 2nd, 5100. Graham Bros., Claremont, \$150.00. \$170.00

Gloster Annie.—(42457), July 15th, 1900. A. Dawson, \$200.00. Duchess of Gloucester 16th.—(Vol. 20), May 4th, 1903. Col. McGillivray, Uxbridge, \$100.00. Duchess of Gloucester 1sth.—(Vol. 20), May 4th, 1903. J. Dryden & Sop. Brooklin, \$100.00. Crimson Jennie 2nd.—

Brookin, \$105,00.
Crimson Jennie 2nd.—33557—, Dec. 3rd,
1894. H. Halton, Columbus, \$50,00.
Crimson Jennie 4th.—(Vol. 20), Mar. 360,
1903. W. Smith, Columbus, \$105,00.
Crimson Jennie 3rd.—41768—, Feb. 1904,
1898. John Gordon, Vroomanton, \$210.00

Crimson Jennie 4th. - (Vol. 20), June 30th

Crimson Jennie 4th.—(Vol. 20), June 30th, 1902. W. Bright, \$90.00. Crimson Edith.—33556—, Jan. 15th, 1895. W. Watson, Balsam, \$115.00. Crimson Edith 2nd.—(Vol. 20), May 14th, 1903. J. Dryden & Son, \$100.00. Crimson Maud 2nd.—(Vol. 19), April 1st,

A. Dawson, \$190.00 1898. A. Dawson, \$190.00. Crimson Maud 3rd.—(Vol. 20), April 26th, 1903. Col. McGillivray, \$85.00. Village Bride 2nd.—\$1866—, Dec. 25th, 1894. R. Miller, \$155.00.

Village Bride 6th.—49286—, Mar. 31st, 1962, J. Dryden & Son, \$160.00. 1962, J. Dryden & Son, \$100.00. Stamford Lucy 3rd.—33561—, Sept. 25th, 1896. A. Dawson, \$75.00.

Stamford Lucy 10th. -(Vol. 20), May 26th, 1903. B. Burke, Brougham, \$110.00. Stamford Lady 4th.—51863—, Mar. 25th, 1893. W. Parrott, Columbus, \$125.00. 1893. W. Parrott, Columbus, 2143. Stamford Lady 5th.—(Vol. 20). Nov. 26th, 1902. Col. McGillivray, \$80.00.

Stamford Lucy 11th.—(Vol. 20), June 2nd, 1902. J. Johnston, Myrtle, \$95.00. -29225-Feb. 27, 1893. R. Miller, \$80.00.

ie · 2nd .- 49284-Aug. 3rd, 1902. J

Sonsie 2nd.—49284.—Aug. 3rd, 1902. J. Muirhead, \$12,500.
Havilah 2nd.—34346.—Nov. 28th, 1844.
W. Wilson, Brougham, \$185,00.
Uptergrove May.—(Vol. 20) Jan. 24th, 1902. W. Bright, \$70.00.

Uptergrove May.—(Vol. 19), March 10th. 1868, W. Pollie, Seagrave.
Brooklin Queen.—46201.—R. Morgan, \$165.

\$165.00. Flossie. -49273 - Sept. 7th, 1901. A. John-ston, \$140.00.

Fannie Fairfax.—44061—Feb. 2nd, 1897. W. Maw, \$100.00. Roan Lily's Choice. -\$100.00.

BULLS

mp. Royal Archer. - (Vol. 19) -82128-5. Koyai Archer. — (Vol. 19) — 27120— Apr. 9, 1901. W. Bright, \$300.00. 5. Spicy King.— (Vol. 20), Jan. 17, 1903. Allan Bros., Bowmanville, \$300.

1903 Allan Bros., Bowmanville, 9,30General Ramsden. –48413 — May 31st, 1903.
Maw Brose, Myrtle, \$85,00
Duke of York. –48412 — June 21st, 1903.
Jas. Cook, Myrtle, \$105,00. Stamford Lad—4767—April 7th, 1902. Col. McGillivray, Uxbridge.

The Port Perry Swine Sale

The first annual sale of pure-bred Swine, under the auspices of the Dominion Swine Breeders' Association, was held at Port Perry on October 16th, and turned out guite satisfactorily. Thirty-seven Port Perry on October 16th, and turned out quite satisfactorily. Thirty-seven animals were sold for \$505.00, an average price of \$17.73. The highest priced animal sold for \$41.00, and the lowest for \$6,00. Hy, Glendinning & Son, of Manilla, sold twenty animals for \$25,00, an average of \$12.80. J. E. Brethour, of Burford, sold ten animals for \$262, an average of \$25.20. J. G. Foster, of Moira, sold three animals for \$47.00, an average of \$15.67; and Chas. Calder, of Brooklin, sold four animals for \$91.00, an average of \$22.75. All of the animals sold were under one

ear, with the exception of one which was about eighteen months, a very fine sow, winner of second place at the Winnipeg Exhibition, bred and sold by Mr. Brethour. This sow brought the highest price at the

Before the opening of the sale Mr. W. Hodson, Dominion Live Stock F. W. Hodson, Dominion Live Stock Commissioner, delivered a short address, in which he pointed out the great value the establishment of auction sales has proved to the country, their growth during the last seventy-five years in the Old Country, and what the various Departments of Aggiculture purpose concerning these sales in the various Provinces. He set forth the desirability of holding a holding a quarterly or half-yearly sale at Port Per In the Spring a stallion, bull and fat cattle show should be held, at which prizes should be given, and after the prizes were awarded the animals which had competed should be put up at auction and sold. Besides bulls and breeding stock, dairy cows and perhaps a few pigs should be offered. In the Fall of the year pure-bred animals for breeding purposes, especially rams, and sows in pig, should be offered for sale. Dairy cows and store animals for fattening purposes might also be offered. The remarks well received and we understand that a sale of this sort v be established at Port Perry. Almost all animals, whether for breeding purposes, for butchers, or for dairy purposes are bought and sold at public auction in the Old Country. Such a thing as a drover running about the country picking up animals here and there, as they do in the country is almost unknown in the Old Country is almost unknown in the Old Country. The auction sale principle was introduced from seventy five to one hundred years ago, and it has gradually increased and overspread the country so that it is in general practice today.

An excellent lesson was emphatically An excellent lesson was empirateau; taught by the recent sale at Port Perry. Nearly all the pigs offered were of excellent quality in point of breeding, but only those that were brought out in good condition, large and growthy for their age, sold for high prices. The hogs that sold for low prices were, in many cases, excellent individuals of superior breeding; but they were small for their age, because they had not been properly fed. With good management, many of these will, n time, develop into quite as useful animals as those selling for higher prices; but the buyers judged the pigs by their present appearance, taking no chances on future possibilities, and gauged their bidding accordingly.

The lesson to be learned is that, their stock at either public or private sale they must see to it that their animals are not only well bred but also well fed from borth. Neither breading farmers wish to obtain the best prices for borth. Neither breeding nor feeding is sufficient of itself. No amount of feeding will make an ill-bred animal valuable for breeding purposes; on the other hand, the best of breeding is insufficient in itself if the animal be indifferently fed. A well-bred, well-fed animal will always com-mand a good price.

Prince Edward Island

Fine weather. Very little frost. The recent rains have helped to fill the springs, and the land is now in good condition for plowing. Potato digging is finished, and a fair crop is reported. The turnip crop is said to be below the average. Shipping is brisk; quite a number of schooners are loading at Montague. Markets are well attended. On October 16, hay sold for from \$12. \$13 per ton; oats, 32 to 34c.; tatoes, 25c.; chickens, 50 to 65c.; potatoes, 25c.; chickens, 50 to 65c.; geese, 75 to 90c.; ducks, 80c. per pair, butter, fresh, 24c. per lb.; eggs, 16 to 17c.; beef, small, 6 to 10c.; plums and green gages, 8 to 10c. per qt.; apples, 8; per bus.; crab apples, 26. per qt.; honey in comb, 25c. per lb.; pork, 7 to 8c, small, 12 to 16c.; flour per bbl., \$5,50 to

\$5; oatmeal, \$2:-2 to 3c. per lh.; tomatoes, per bus. \$1; fresh fish very scarce. The Manchester Shipper arrived in port on Oct. 14. She left again on Oct. 16, direct for Manchester, with the following cargo: 350 sheep, from Carvell Brederich of Sellar; 600 cases of each flower of the sellar food case of the sellar soon as the food of the f derson & Sellar; some hay, cheese and sundries.

It is said that Mr. James McLellan, f Springfield, is the owner of a hen

of Springfield, is the owner of a hen which laid an egg weighing 5 ounces, and measuring 6 1-2 inches.

The grist and saw mill of Paul Thompson, Lot 14, was destroyed by fire on Get. 15.

C. A. Zufelt, Dairy Supt, arrived on the Island on August 11. After consulting with Mf. Anderson, Secretary of the Dairy Association if your deep control of the Dairy Association if you deep control of the Dairy Association if your deep control of the Dairy Association in the property of the Dairy Only of the Dairy Association in the property of the Dairy Only of sulting with Mr. Anderson, Secretary of the Dairy Association, it was decided that Mr. Zufelt should make a tour of the factories and examine their condi-tions closely so that he might be better able to offer suggestions for their imable to offer suggestions for their im-provement. Accordingly, in company with Mr. Morrow, Instructor, he set out from the city and completed the work on Sept. 9, after visiting 51 factories, and addressing several meetings. He reports cheese factory buildings mostly well constructed, good drainage with the exception of a few that are rather de-ceptions.

Flavor of cheese was fairly good; riavor of cheese was fairly good; body and texture generally good; sty-lish in appearance, well bandaged, and uniform in size. The curds had a tenuniform in size. The curds had a ten-dency to lose fat shortly after milking oency to lose fat shortly after milking. The makers were using four ounces of rennet for one thousand pounds of milk. During a few hot days the cheese examined showed a distinct weakness in body. The use of less rennet (2 1-22 per 1,000 lbs.), was tried and found to be much more satisfactory. Only one brand of rennet, salt and color were used by the makers. used by the makers.

One thing lacking is the scarcity of milk. Only a limited amount of butter is made, which is nearly all sold locally. It is fairly good, though rather heavily salted.

heavily salted. The regular meeting of the Cheese Board was largely attended. The buyers present were: Messrs. H. Hasyard, R. E. Spillet, and A. J. Biffin. 426 solf to Mr. Hasyard at 10 -18 cents; 2606 sold to Mr. Spillet at 10-13-16, and 740 boarded but not sold.

New Brunswick Institutes and Fairs

Mr. Dan. Drummond, who is address ng institute meetings and judging at ne fall fairs in New Brunswick, writes

"At Sussex, according to arrangement, I acted as judge of all the cattle classes. I acted as judge of all the cattle classes. The show there is very strong in dairy cattle; in fact one of the strongest to be found in any of the provinces, both in quantity and in quality. In the pure breeds we had two herds of Jerseys, three of Guernseys, three of Ayrshires, one of Holsteins, and a very strong competition in best five grade milch cows. I followed the same course as last year and gave reasons for my decisions in nearly all classes. Apparently the exhibitors knew better what would be re-quired this year, as the exhibits were of a more uniform nature as to type.

"Leaving Sussex, I came to Ed-mundston and commenced the institute meetings. So far we have had six meetings with an attendance nearly double that of last year. Four in the French districts were well attended, 46, 70, 150 and 60 being present, respectively. At the other two in the Danish settlements 60 and 30 persons were present, respectively, a good percentage of a total of about 100 families in the whole settle-

Nature about the Farm

Winter Birds-A Migratory Butterfly-Life History

EDITED BY C. W. NASH

The summer birds have nearly all gone, and the woods are almost silent now fact, one may walk a long distance with-out hearing a bird note. Then perhaps you may meet a merry crowd of chicka-dees, or a foraging party of bluejays. These birds are never silent long at this season. In the summer, when they have their young to occupy their attention, they are quiet birds, the jays particularly so, and their notes, when they do utter them, are not noticeable amidst the medley of bird music that fills the air everywhere. Now they are care free; food is abundant and the weather perfect, so the little chickadee eats and grows fat, keeps up a musical chattering all the time, and leads a happy, jolly life. Probably the bluejay as happy as any other bird, b somehow he does not act like it. He always appears to have some reason for keeping out of sight of or at a safe dis-tance from human visitors. Should you by any chance manage to come upon a party of them suddenly, their fright and disgust at the intrusion is very plainly shown. The first one that sees you gives the alarm, and instantly ear-splitting screams ring out all around, and they are They always remind me of a crowd of hoodlums when they see a policeman. In a moment they scatter, not because they happen to be doing any wrong at that particular time, but because they are afraid they may be "wanted" for some wickedness they have previously com mitted.

On the 5th of October I saw a flock of redpolls in the birch trees near Scarboro. These are winter visitors, rather irregular in their coming and going, but I have seld-dom before seen them here so early as this. Weatherwise people would probably say that this betölens an early and severe winter. So far as my experience goes, I do not think any predictions as to what the conting season will be here can be safely based upon the movements of the birds. They may move early from their summer quarters because the food supply in santy, and the seasons we scarcely see a redpole at all, in others they are abundant; and the same thing occurs with all the other migrants from the north, but I have not been able to observe that their shundance or scarcity was in any way influenced by the weather conditions here.

INSECTS-A MIGRATORY BUTTERFLY

The Monarch butterfly has always appeared to me to be somewhat out of place in Canada. It has a distinctly tropical in Canada. It has a distinctly tropical action and magnificent powers of flight, mark it at once as very different from any other of our butterflies. Not only is this remarkable in the perfect insect, but also in the larva and chrysalis. The larva are to be found in all stages of growth upon the milkweed (asclepias), which seems to be their only food plant. They are peculiarly marked with alterisating bands of black, white and yellow, and have two black threadlike horns near the head and two near the tail. When full grown they are about one and a half inches in length. The larva station their inches in length. The larva station their canading this stage they usually leave the milkweed upon which they have fed and crawl off to some fence or low dead bush to which they first suspend themselves by their posterior end, and in that position (head downwards) transform into chrysalists, The chrysalisis at first of a beautiful translucent green color, exquisitely studded with metallic gold. As the insect develops within, it gradually becomes darker, until towards the last its

transparency is lost. This stage lasts about twelve days, when the butterfly emerges. During the chrysalis stage emerges. During the chrysalis stage insects. In 1900 I kept in among these insects. In 1900 I kept in among these insects. In 1900 I kept in a more observation both in the house and out of doors pider natural conditions and found that but a small proportion of them produced a living butterfly. They were not parasitized, but after having nearly reached the perfect stage they dried up in the shell. During the same year I saw the most marked migratory movement among these butterflies that ever came under my notice. In the early part of the season there was no unusual abundance of them, but early in August they appeared in vast numbers and were evidently congregating: On the evening of the fifth of August I walked through the woods east of Toronto and watched some of the flocks gathering. When I first went amongst the trees I saw many small parties of a dozen or two clustering upon the ends of the tivings and along the smaller branches. Others were fluttering



The Monarch Butterfly.

around them. As the sum went down these parties grew info great flocks of hundreds in each, packed together as closely as they could stow themselves. During the daytime the butterflies scattered about as usual and seemed to take no more interest in each other than is usual among insects of their class, but at the close of each afternoon for about a month, collected in crowds and roosted upon the trees.

On the fourth of September a great movement took place. All through the afternation of the september of the

There are several very interesting questions connected with the life history of this common but mysterious butterfly which have not yet been cleared up. It has now been well ascertained that the Monarch cannot survive the winter in Ostario in any stage of its existence. Each winter sweeps the country clear of Each winter sweeps the country clear of the south. Just how far south they have to go before they can hibernate, or live actively through the winter months is still in doubt. It is certain that they are found in Florida in great swarms from about November to February and that they are quite active during the whole

period. Do they then gradually work their way northward? If not, where do they spend the time between February and June, in which month they generally

arrive here. "Most butterflies are short-lived creatures, the term of their active existence rarely lasting more than a month or two at most (I exclude periods spent in hibernation). The Monarch however must live for ten or eleven months at least; that is if the ightividuals which appear here in the spring are the same that were beginned to be a superior of the same that the spring are the same that summer. And marvellous how so frail a creature as a butterfly can support its life for so long a period amid all the dangers to which it is constantly exposed during its long journeys.

BOOKS AND BULLETINS

SYSTEMATIC POMOLOGY.—Book by F. A. Waugh, Massachusetts Agricultural College, Geo. N. Morang & Co., 90 Wellington St. W., Toronto. Price \$1.00. The book treats exhaustively of the methods of describing fruits, of the perplexed systems of nomenclature, of the practical and scientific classification of varieties, of the **Boring and judging of fruits, of the laboratory study of fruits, etc. The arrangement and treatment are such as to make the book particularly helpful to students and to all who want to learn more about pomology. This is not so much because the book deals out information as the same to book deals out information as the same of the same than the same t

COMMERCIAL FEEDING STUFFS.— Bulletin 101, by Vermont Agricultural Experiment Station, Burlington, Vt.

SEPARATOR CREAM — Paying for same at the creamery.—Bulletin 100, by Vermont Agricultural Experiment Station.

CHEMISTRY OF THE SOIL, as related to drop production.—Bulletin 22, Bureau of Soils, Department of Agriculure, Washington, U.S.A.

KEEPING QUALITY OF BUTTER.— Bulletin 71, by Experiment Station, Ames. Iowa. Edited by G. L. McKay.

SOME WEEDS.—Bulletin 95, Maine Experiment Station, Oronò, Me. Deals with Dandelions, Hawkweeds, Ginseng, Cankerworms.

ANNUAL REPORT of the Secretary for Agriculture for Nova Scotia for the year 1902.

LIVE STOCK ASSOCIATIONS.—Annual report for 1902, including Dom. Cattle Breeders', Dom. Sheep Breeders', Dom. Swine Breeders', and Ontario Poultry Associations. A.W.Westervelt, secretary.

RURAL SCHOOL AGRICULTURE.— Report of Boys and Girls Experiment Club and the / gricultural Student Union of Ohio. Bulletin 22, Series 7, Ohio College of Agriculture.

THE CORN KERNEL.—The structure of, and the composition of its different parts. Bulletin 87, Agricultural Experiment Station, Urbana, Ill.

SOIL TREATMENT for wheat in rotations, with special reference to Southern Illinois soils. Bulletin 88, Illinois Experiment Station.

REPORT OF THE AGRICULTUR-IST, Central Experimental Farm, Ottawa, for 1902. By J. H. Grisdale, Agriculturist. SHADE TREES—Injuries to them from

SHADE TREES—Injuries to them from electricity.—Bulletin 91, Hatch Experiment Station, Amherst, Mass. EXPORT APPLE TRADE.—Bulletin

EXPORT APPLE TRADE.—Bulletin 13, Fruit Division, Department of Agriculture, Ottawa. Compiled by W. A. McKinnon, Chief. This bulletin should be in the hands of every packer and shipper or apples. PLUM CULTURE.—Bulletin 43, Central Experimental Farm, Ottawa, by W. T. Macoun, Horticulturist. Of practical value to every plum grower.

PRINCIPLES OF PROFITABLE FARMING. Published by the German Kali Works, 93 Nassau Street, New York A copy will be sent free to farmer applying for it. The book deals with the broad principles of scientific manuring, and their use in every-day farm work. The farmer to-day needs to give more attention to the farming, especially as it relates to maintaining and restoring soil fertility. little book will help him to understand the Write for a ground work of this subject. copy and when you write do not forget to mention The FARMING WORLD.

GOOD ROADS. Report of the Na-tional Good Roads Convention held at St. Louis, Mo., April, 1903. Publishe the U. S. Department of Agriculture Published by

SUGAR BEET, the Culture of .- Bulletin No. 81, Agricultural Experiment Sta-tion, Lincoln, Nebraska:

CARE OF MILK AND BUTTER-MAKING ON THE FARM.—Bulletin No. 96, Vol. XII, Agricultural Experiment Station, Lafayette, Ind., U. S. A.

UNPRODUCTIVE BLACK SOILS. Bulletin No. 95, Vol. XII, Agricultural Experiment Station, Lincoln, Nebraska.

POTASH AS A FERTILIZER. - Bulletin No. 89, Agricultural Experiment Sta-tion, College Park, Maryland, U. S. A.

POULTRY EXPERIMENTS IN 1902. Bulletin No. 93, Agricultural Experi-ment Station, Orono, Maine.

Returns From the West

Dr. William Saunders, Director of the Dominion Experimental Farm, has returned from his annual inspection of the branch farms in the West. He reports business active and prospects bright in the West On the Brandon and Indian Head farms it is expected that wheat will yield from 30 to 35 bushels per acre. At Brandon a field of fourteen acres of oats yielded one hundred bushels per acre, the oats weighing 38 pounds to the bushel. Indian corn cut green for ensilage yielded 28 tons per acre. At Indian Head green corn went 35 tons per acre. At Tindian Head green corn went 35 tons per acre. At Tindian Head green corn went 35 tons per acre. ve and prospects On the Brandon went 25 tons per acre. At most all the localities visited in the Territories, excepting Indian Head, wheat is averaging about twenty bushels per acre, while at

Indian Head it will go twenty to twenty five bushels per acre. In Manitoba wheat will average from eighteen to nineteen bushels per acre.

Devoured from Cover to Cover Allow me to congratulate you upon your success as the publisher of the best farming magazine in the Dominion. Since your paper has come under my observa-tion, I have devoured everything from cover to cover. Every department con-tains good, sound information. If agritains good, sound information. If agricultural papers like THE FARMING WORLD were more widely read, I can confidently say that the returns would be most grati fying. - E. G. FADDEN, Noyan, Que.

P Conundrums

What tree belongs to the church? Elder What is the tree you can never burn?

What is the most melancholy tree? Piece What tree is it that every boy dreads?

What is the tree that everybody likes?

Poplar.
What is the tree that stands nearest the

Great Combinatio

There's Only ONE

Farming World

Twice a month, every month in the year, it is filled with original and practical articles from the pens of the most experienced farmers and stock men throughout the country. It is essentially the money-making farmer's paper, its motto is "larger incomes and more comfortable homes for Canadian farmers."

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It is well worth a Dollar

There's Only ONE

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IT IS WELL WORTH A DOLLAR

For only \$1.50 we will send The Farming World for one year, Canadian Good Housekeeping for one year, and a copy of the Handy Book, to any address in Canada. New subscribers to either periodical will receive the remainder of this year free. If your subscription to either is already paid ahead, send along your renewal and your date will be advanced another full year. Order at once and get an early copy of the Handy Book. Address

The Farming World, Toronto



Want of care does us more damage than want of knowledge Beware of little expenses, will sink a great ship. A small leak

40 What is a Home?

Four walls, a roof, a floor; Some windows and a door; Chairs, tables and a bed To rest tired limbs and head; Some pictures on the wall-And yet that is not all.

Two eyes to watch for me, Two lips to smile in glee, Two arms to hold me tight, face with love alight, A heart as true as steel That would no thought conceal From me, a merry laugh Light as the wind-borne chaff— Kisses as honey sweet, My hungry lips to greet

Four walls, a roof, a floor; Some windows and a door; These ne'er a home would be For poor world-worried me.
These soulless things take life From her I love-my wife!

P An Expert Wife

prominent farmer of King's County, New Brunswick, has been greatly assisted in his work of harvesting this fall by his athletic young wife, who with a reaping-machine not only cut their entire twenty-three acres of oats

their entire twenty-three acres of oats but made \$\$ per day reaping for her brother as well.

Being fond of outdoor exercises, Mrs.

M—delights in being with her husband, and seated on her sulky, plow or her reaper, she is a picturesque sight, and while her husband is using the side hill plow, she is more than a material on her sulks and the side of the side of the on her sulks of the side of the side of the own two farms she has ample scope for her activities. her activities.

Nor is this all she can do, for she is an athlete with the pitchfork and pre-fers pitching on to loading, and when her husband begs for her to get on the load and take the easier work, she stub-bornly refuses. She is equally as good at picking potatoes, of which the farms have produced in one year 1,500 bushels. When winter comes she, with her horses, hauls load for load of hay with

horses, hauls load for load of hay with her husband to St. John.

Strange to say, this wonderful wo-man, now in her twenty-first year, never tires nor neglects her household duties. Business before pleasure is their motto, but when the busy season is over then nothing is too good for his wife—a trip to St. John or Boston or

other diversions are indulged in. Being tall, slight and queenly, with a vivacious temperament, she is a universal favorite and a friend of everybody.

favorite and a friend of everybody.

From a poor boy her husband has risen to the position of one of the most progressive farmers in our community. Choosing to buy and pay for a good

farm rather than accept a poor one from his father as a gift, he has steadily succeeded until now he has \$1,000 worth of improved machinery, including thresh-

will stak a great ship.

Industry need not teish, and he that lives

Mong and wood sawing machines.

Mr. M.— is well supplied with fish

Early to bed and early to rise makes a

mon healthy, treathly and wise

Buy what thou hast no need of and ertong thou shalt sell thy necessaries

in the cellar, two large barns, one of forty anchors for them himself. He has a comfortable new home with furnace in the cellar, two large harms, one of them too feet long and he expects to make an addition of forty feet to ft soon. He has over too acres of pasture and has wintered as many as lifty-six head of cattle, and has facilities for wintering between twenty and thirty more. A measure of this prosperity he very rightly attributes to his energetic wife.

Never Become a Household Drudge

A woman should never allow herself to become a mere household drudge, and when she finds she has the time to read an occasional good book, to write a letter to a friend, to read a story to the children; or to walk or talk with her husband she may conclude that body and improve your mind, keeping your face and heart as fresh as possi-ble, as you value the love of your hus-band and children.

D November

Now, in these Indian summer days When later comes the morning light, November draws a veil of haze To hide the hilltops from our sight;

Another year is growing old, And waits in quiet for the end, The wintry-sleet and snow and cold, Toward which her shortening days must tend.

Music in the Home

It is strange that people do not make greater use of music to brighten the home life. There is no place where it is more important, and nowhere else does it shine with a brighter lustre. Even if there be no very marked talent in this direction which would lead to the idea of display before the public, it is well worth while to make the most of such as there may be; and those parents who ignore music because the son or daugh-



A Hunter's Home on Salt Springs Island, British Columbia.

there is something wrong somewhere in her domestic economy, and the more quickly she recognizes and remedies the evil, the better it will be for herself and family. If she is obliged to do her own family sewing, every tuck or ruffle that she puts on her children's clothes that she puts on her children's clothes is a crime. The hour or hours spent in making an elaborate dress that baby will look "lovely" in is a waste of energy that a mother who does her own work cannot afford. Baby will look quite as lovely in her eyes in a plain slip, and if he has only his elaborate dress to recommend him to the eyes of others, he might rather pass unnoticed. Give the matter serious thought, oh tired housekeeper, and see if you do not daily take many unnecessary steps, and do much that you might, without injury to anyone, leave undone. Rest

ter may give no promise of emi-nence as musicians are sadly in error.

If right views concerning this subject could generally prevail, we should hear less wailing because young people in-cline to spend their evenings away from cline to spend their evenings away from home amid excitements which are not for their best good; and we steadily believe that many a hearthstone is shrouded in gloom simply from neglect-ing the wonderful power which might have been wielded through music, in making home more attractive and filling it with sunshine.

He stooped to tie her dainty shoe. His heart at once was won, And thus we see the weightiness Of things we leave undone. New York Herald.



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CHAPTER I.

Elsie Ross drove up the lane with more speed than usual that evening. She had just come from the village, and there was a dash of alertness and annoyance in her manner, as she bounded out of the buggy, which did not escape mother's observation

"What's the matter, Elsie?" she asked in an even tone, as she assisted her to take out the things.

The girl's face was flushed, and her full red lips twitched nervously, though

"I guess nothing," she replied, turning her face away, while she lifted a basket from the back of the buggy. "It's hot and late, too. Perhaps I hurried too much to be in time for the milking."

"That's not it," said Mrs. Ross, shaking her head. "Something has made you angry. What is it, child?"

There was a gentle firmness in the voice, this time, that could not be ignored, and Elsie knew it.

"I am angry, mother; but I don't want to talk before the girls," came with a sound between a laugh and a

"Well; put off your things. You can ll me while we are milking."

Elsie hastened past her sisters and up the little narrow stairway to her own room. Her young face—she was barely sixteen—told of character; and her tall

sixteen—told of character; and her tail figure already rounding out into womanhood, promised grace and beauty beyond the average.

Her brother George had taken the horse in; and the mother and daughter were soon in the paddock with the cows.

"These is no only to heer us now."

"There is no one to hear us now," said Mrs. Ross, as the ping-pong of the milk into their respective pails indicated that they were going to be still for a

"I'm not as mad as I was then," re-turned Elsie, "but I think it's something awful the way Mr. Potter treats his son

"Is there anything new?" her mother asked. There was disappointed patience in the tone this time. The theme was an old one and becoming tiresome.

Yes, there is. It has come to an rupture. As I drove home Tom open rupture. crossed from the north field. He hadn't time to tell me much about it; but he said his father, had ordered him off the

place; and he wouldn't give him the chance to do it again."
"I am sure Tom was to blame if his father went that length," said Mrs. Ross; "and I don't think you are wise in taking sides with a son against his father

father."

"I don't want to take sides, mother," said Elsie, her face flushing up; "but I always thought Mr. Potter was very unjust. Tom works hard, and if he is hot-tempered, it's easy seeing who he gets it from. One thing sure, he doesn't gad around like many of the boys do."

"You seem to know all about it, Elsie," returned her mother, with an up-ward inflection of voice. "How do you know he doesn't?"

"George told me. He says it's a shame the way the old man treats him,"

the way the old man treats him,

"Old man!" exclaimed Mrs. Ross.
"Is that the way to speak? Think of calling your father 'the old man'."
"Oh, mother! How could you? There

"Oh, mother! How could your Ineres isn't one of us would ever dream of such a thing. No one was ever like father. But when a boy gets to be as old as Tom, nearly grown up, it can't be nice to be called names and treated like a child, no matter what he does."

This is be an exagerated picture.

"I don't think it is, mother. Tom says that things have taken a queer turn lately. He never went much to school, even in winter; and now, when he wants to make up for it, his father gets into a passion if he sees a book in his hand; particularly, if there is anything

hand; particularly, it there is anyuming eles to be done."

"Is that the special reason why he is going away?"

"No, it's something about a fallow, which Mr. Potter ordered him to cultivate. Tom said he wouldn't do it unsuperstant of the special property of the special property of the special property." had words; and it ended in what I told

Elsie spoke rapidly. She was getting

excited again.

Mrs. Ross sighed. From what she knew of the Potter family, she was not really surprised. Her chief emotion was really surprised. Her chief emotion was pain at heart, that her daughter should be so deeply interested. Elsie and Tom had known each other from infancy, but up to now she had only looked up-on it as the intimacy of children. Only sixteen last Michaelmas, still in short citches, and able to roum and play with clothes, and able to romp and play with as keen a relish as ever, the possibility of a new problem gave her a shock that somehow she was not prepared for somenow sne was not prepared for.

Almost with a pang, Mrs. Ross cast a glance at the supple form, bending forward on the lowly stool; realizing, for the first time that the child had become a woman, with a woman's instincts, a oman's emotions, a woman's heart.

woman's emotions, a woman's neart.

Was it possible that she had given it away already to a youth like this?—comparatively illiterate, without means, prospectively without home, and as far as she could see, without a future. In an indefinite way has he had also been also also that the she was tailed a sign of the she was a sign still at school, possessed of ambition and rapidly acquiring knowledge; and there seemed to be something grossly incongruous in the formation of an attachment with a young man as uncon-trolled and irregular as Tom Potter was

believed to be.

But Elsie remembered all the Tom had played with her times without number .He had always been her cham-Over and over again had she pion. Over and over again nau one seen a burst of passion or vindictive-ness subside at a word or look from her; and although only dimly expressing himself in words, she knew that he worpion. himself in words, she knew that he wor-shipped the very ground that she stood

As Mrs. Ross rose from the milking she felt a sudden faintness, not entirely due to the stillness of the air and the heat

"Oh, mother! Are you ill?" exclaim-ed Elsie, rushing to her side, "How pale you look! Wait till I get some

water," and she ran to the spring nearby with a dipper.

"Thank you, Elsie. That water was refreshing—it is lucky I finished milk-ing—it ain't often that I feel that way." ing_it ain't often that I reel that "Can you walk back to the house, do you think? If you can, I will carry the

"Oh, yes! I am all right now."
"I wonder what could have caused it?" said Elsie, innocently, as she picked up both the full pails. "I never saw you look like that before."

you look like that before."
"It is not likely that you ever did,"
was the answer. "Better not mention
it at the house. It may not happen
again. You were talking of your
tather, werent you? Yes, he is a fine
man. And when you girls grow up,
and want husbands of your own, I hope
and pray that the Good Lord will give
each of you just as good a one as he
is. There is nothing boastful or vain
about your father. He's a modest man
who does his work well. 'Honest living and right thinking' have always
been his mottoes."
"I know it mother." said Elsie; and

"I know it, mother," said Elsie; and although her mother was behind her, she flush as before. Was it or was it not, from the extra exertion of carrying up the slope the two brimming pails of

"Patiently waiting for ten minutes," said Mr. Ross, good-naturedly, as the two women reached the house.

"You will have to wait five minutes longer," was his wife's answer. "The milk must be strained."

"Mother does not feel very well," blurted out Elsie, forgetful of the in-

junction to say nothing.

With a quick step Mr. Ross was beside them, and lifting the pail that his wife was now carrying, he bore it down the steps to the milk-cellar.

"What's the matter, dearie?" he ask-i solicitously. "Is it the heat?" ed solicitously. "Is it the heat?"
"Perhaps it is—a mere nothing—I'm better now."

better now."

"Just go right into the house and sit down. Elsie and I can attend to this."

"Nonsense, Robert, Elsie should not have told you. I always do the strain""

ing "Yes, "Yes, nearly"; and with a gentle shove from his broad shoulder, he turn-ed her to one side and did it himself himself. Then, handing the pails to Elsie to rinse, he took his wife by the arm, and they went into the house together.

"I guess you want your tea, that's what's the matter," he suggested. "Yes," she replied dreamily, "perhaps

it is."
"It's all ready. We'll sit down at once," said Genie.

In another minute the family of six made an interesting group as they gathered round the table.

George was a couple of years older than Elsie, a strapping youth who much resembled his father, and was his only son. Genie came next, and then there was Alice, the youngest of all, to make

up the number.

"So you sold your mother's butter and your own eggs at the store," said Mr. Ross, playfully flipping Elsie under

Mr. Ross, playfully flipping Elsie under the chin as she took her seat. "Yes, father. Prices just the same— a shilling for butter and eleven cents a dozen for eggs. But you know I want-ed money for the eggs, so I took ten cents in cash instead of eleven in trade." "What! Avaricious already?" he re-plied, sagely wagging his head.

"You are fooling me, father. I ain't

"You are fooling me, tather. I ain't a bit," was her laughing reply.
"No," said Mrs. Ross, for he still continued the wagging." I explained that to you before, Robert. Elsie wants to save up enough money to buy a winter cloak for herself."
"And out of my own money, too," Elsie flashed back to her father.

"That's not so bad after all," he re-sponded, his pretended sternness van-

ishing.
"I like that," said George, "storing up for something she can wear for years and vears

"Humph," cried Genie, across the able. "Why didn't you say forever? wonder how long boys wear their table.

"Boys are different," said George with a drawl, "girls just wear their best things on high days and holidays and bonfire nights, and they never wear out; but boys put theirs on so often that they're gone before they can say 'Jack Robinson'" Robinson

"I didn't know that you posed as a philosopher, George," said Elsie in an

amused tone.

amused tone.
"I've been taking lessons from Tom
Potter," returned George, "and I can
tell you he's got some of the funniest
ideas you ever heard of."
Elsie's eyes dropped, and her face became grave again. Only her mother
noticed it.

"Tom Potter's not the lad to take lessons of," exclaimed Mr. Ross, glancing sharply at his son. "The doings of that

sharply at his son. "The doings of that family seem to be getting notorious."
"I was only joking, father," said George; "but I'm sure there is more truth and honor about Tom than most people think." Ellie gave him a Unconsciously. Ellie gave him a Consciously. Else gave him a Consciously. Else gave him a Consciously. Else gave him a consciously be was glad to hear the constant of the constant of

Genie, however, had no personal in-terest in the youth; and, as was the rule in the Ross family, spoke out her mind.

"I believe Tom has had a pretty hard time of it," was her comment. "The girls at school say his father was never a bit kind to him. Jim was always his favorite; and, ever since he was a child, he never sent Tom to school more than three or four weeks in a whole winter.

"That's true," said George, "but I know that he studies at home now, and had done for more than a year. The has done for more than a year. The worst is that his father grumbles even at the light he burns."

at the light he burns. "And we have been to talk and we have been to talk the light he burns." Sure-burner said the Ross, wearily. "Sure-burner said not discuss the Potters the whole evening through." "Suppose I tell you about Jennie Watson," said Elsie, glad of the suggestion." Then ther at the store and gave her a ride for more than a mile on her way home. She is studying to be a teacher at the County school, and she told me a piece of news. The trustees there have decided to offer two scholarships a year, one for girls and one for ships a year, one for girls and one for boys, to be open for competition to the best students in all the section schools of the county. The examinations are of the county. The examinations are to take place at Klincoe—each winner to receive a year's free tuition and a sum of money besides. I just thought that, as Genie usually stands at the head of her class, in another year or two she might carry off the girl's prize."

"Are you sure the competition will be open every year?" Genie asked excitedly.

That is what she said."

"That is what she said."
"It is a good thing," said Mr. Ross,
smiling at his second daughter. "Will
you go into win, Genie?"
"I can only try," was her answer, but
there was courage and determination
in the expression of her face that boded

ill for coming competitors.

ill for coming competitors.

That evening, when the work was all done, the girls took down their books to prepare their lessons as usual. Genie worked diligently, her whole mind centred upon-her allotted tasks. Alice, too, though in briefer time, committed her recitations to memory; but with Elsie it was different. She read and re-read the page from top to bottom; but some-

how, concentration of thought seemed impossible. The sentences, one after another, riddled through her brain like a sieve; and when she had finished, not an idea had been gained. Finally, she closed the books and put them away. She would drop the subjects until Mon-day morning, and then rise with the sun to complete her preparation.

After a while she went up to her own little room, and turning the light low sat down to think. The gauze in the open window kept the mosquitoes from coming in; and as she looked out at the pale moon, she heard the gentle rustle of the leaves of the orchard in the wind. How long she remained in that position she did not know. At length she start-ed; the whole house was still; and turning up the light, she seemed almost afraid, as she glanced around the room. Her face had a perplexed look on it, but finally, she took her purse from her pocket, and counted the money she had received for the eggs, noiselessly into her lap. Then laying it on one side, she stepped on tiptoe to the drawer, and taking out the reserve bag which contained her little treasure, together counted the whole.

counted the whole.

By this time her face was calm again.
She had decided what to do. Very
quietly she slipped the whole of the
money into the purse and not into the
bag. Then dropping the two into her
drawer, and putting out the light, she
knelt down to say her prayers. But
they were long in saying that night—
once she sobbed—and many minutes
glided away before she rose to her feet,
At last she got into bed, and although At last she got into bed, and although the moon exposed a diamond dewdrop of her cheek, it revealed a smile also as she dropped off to sleep.

CHAPTER II.

The next day being Sunday, the Ross family, according to rule, were represented at the morning service at the Meeting-house. Mr. and Mrs. Ross did this time, and the two seats of not go the light wagon were occupied by George and his three sisters. Merrily the horses dashed along over the two-mile drive, for the air was cool and the dust had been allayed by a shower in the early morning. The fragrance of sum-mer flowers saturated the air with mer flowers saturated the air with aroma; while birds filled it with music; as the young people drove alternately through clearing and wood on that clearing bright June morning.

The preacher who was to occupy the pulpit was not the settled pastor, but a minister from the city, who had won for himself a high reputation for spiritfor himself a high reputation for spirit-uality and eloquence; and was wel-comed by other denominations, as well as his own, whenever special or unusual services were needed. His name was widely known in the province; and when it was announced that the Rev-Maclem Naylor, D.D., so sonoring and the Anniversary sermons, morning and evening in the little Linbrook church, morning and and that the forenoon service would be especially for young people, they came in unusually large numbers. By the time that George and his sisters had arrived, the meeting house was full.

arrived, the meeting house was full. Still, service had not begun, and El-sie passed by the family seat to take her place in the choir. In another minute a hymn was given out, and as the people rose to their feet, she caught sight of Tom Potter. He was standing near the door and casting eager glances in her directly.

near the door and in her direction.

Tom had told her over and over again, that his chief reason for going "meeting" was to hear her sing;

"meeting" was to hear her sing; voice from so many was a puzzle she did not try to solve. Still the thought often brought a smile to her face; and (Continued on page 781)

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SUNDAY AT HOME

What Do You Do With Your Sundays?

Keep your Sundays free for earnest Burn up the Sunday newspaper It is an indefensible, intolerable curse. exists simply and solely to swell the in come of wealthy and greedy newspaper A Christian ought to ashamed to have it in his house. Is not a Is not a contact with the world without dipping his mind on Sunday morning once mor into the muddy stream in which he has dipped himself on the preceding six days? What can be expected of a Christian in public worship who comes to church with a newspaper stuffed into his mind? He is cold as a clod to the touch of the preacher and lowers the spiritual temperature of the and lowers the spiritual temperature of the entire congregation. William E. Gladstone was an ideal worshipper in God's house. He consecrated all his great powers upon the sermon. He was interested because throughout life he had made diligent use of his Sundays. He declared in old age that he would not have lived so long had he not always kept his Sundays quite apart from his political life. It was pure refreshment to him to turn to holier things on that day. It enabled him to learn more of religious subjects than perhaps any other layman of our century. It gave him that firm and splendid ground which ennobled and hallowed "Go thou and do likewise -Charles E. Jefferson.

An Hour at a Time

God broke our years to hours and days. That hour by hour And day by day, Jost going on a little way, We might be able all along To keep quite strong. Should all the weights of life Be laid across our shoulders, and the

future, rife With woe and struggle, meet us face to face

At just one place
We could not go;
outline to go;
where could not go;
where could not go;
where could not go;
where could not go;
outline on us every day,
And never, I believe, on all the way
Will burdens bear so deep.
Our pathways lie so steep,
But we can go, if by God's power
We only bear the burdens of the hour

The Will and Its Culture

The will is the most potent and glorious power resident in man. In the will locates the soul's power of self-direction. It is the mainspring of all powers. It is the measure of human achievement. History is the record of will. If you have the will of Napoleon you, too, may exclaim: "There are no Alps!" If you have but had an achievement of the will of Napoleon you, too, may exclaim: "There are no Alps!" If you have but had an achievement of the will be achieved as a will be achieved as will be achieved as the will be achieved as the culture. We give attention to the culture of the reason, the memory, the ingagincultivation of the will? It is a strengthened by use, demoralized by misuse, lost utterly by disuse.

For these times, as always, God wants great-willed men, the bigger the better. Even a little talent, driven to work by a great will, accomplishes wonders. Surrendering to God does not mean, as some

think, having our wills paralyzed by the will of God. It means, by the help, swinging our wills around into parallelism with His holy will. The man whose will is coincident with the will of God is soon way. A great will is made greater by being thus in league with God. Grace can enpower a weak will, but it cannot use a nonentiti. We owe it to God that we bring to His service a cultured will, that we may put into our Christian life those wirele, positive qualities needed for this iron age.

Losing the Way

To the soul conscious of the perils that are around it how sweet the words of lesus. "I am the way! a great deal more than "I will show you The best compass that was ever placed beside the capstan and the st chart that ever lay upon the table the captain's cabin would be of value to the landsman. The soul crippled by sin and weakened by indulgence, needs something more than know ledge. He who sees Jesus only teacher comes from God "sees not v the world most needs, a power outside ourselves that makes for righteousness. The soul needs to find One who is Himself the Way. This is only true of Him who takes upon Him our weaknesses and bears our infirmities and so, by His and bears our infirmities and so, by ..., almighty power and Heavenly grace, brings us to our desired haven. Not "I will show you the way," but "I am the way," is the joyful message of Jesus to a lost world.

The Sympathy of Christ

The gospel story of Christ closes with the account of his ascension. He was received up into heaven and sat down at the right hand of God. Does he think of anything of as down here in our struggles, our toils, our cares, and our sorrows? Is he interested in our lives in this world in our joys and griefs, in our hopes and fears?

The answer to these questions is that in heaven he is touched with the feeling of our infirmities. He sympathizes with us in all the experiences of our lives. The word sympathy means suffering with. If two musical instruments, standing near each other, are tuned to the same key, and a performer plays on one of them, the chords of the other respond, too, as if invisible fingers were playing the same music on the strings. When two friends are side by side, and one of them is passing through an experience of either joy or pain, the other shares the experience. So Christ in heaven sympathizes with his friends on the earth in their experiences, is touched with the feeling of their gladness and their prief.

If we were conscious that Christ cares, feels with us, is actually interested in our large and small affairs, it would change the meaning of all life for us.

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all the year round, Where there never is rain on a picnic day, Where the thornless rose in its beauty

grows, And little boys never are called from

Oh! hey! it is far away,
In the wonderful land of Nowhere

Would you like to live where nobody scolds. never are told, "It is time

for bed.

for bed."
Where you learn without trying, and laugh without crying,
Where snarls never pull when they comb your head?
Then ho! hey! rou must hie away
To the wonder all land of Nowhere.

If you long to dwell where you never need wait,
Where no one is punished or made to

cry, Where a supper of cakes is not follow-

ed by aches, And the little folks thrive on a diet of

pie, Then ho! hey! you must go, I say, To the wonderful land of Nowhere.

You must drift down the river of Idle

Dreams, Close to the border of No-man's Land; In a year and a day you must sail away, And then you will come to an unknown

strand, And ho! hey! if you get there—stay In the wonderful land of Nowhere.

. A New Game

Percy Saunders had come up to Per-ryville to spend a week. He had been there just twelve hours, having come the night before, and he had already been classified and pigeonholed by the Goodrich twins, his country cousins, when he was visiting. He couldn't clim a percent of the delights of using a sline were unknown to him: threw a ball like a girl; the delights of using a sling were unknown to him; and—he had to go to bed at half-past seven. As he was a year older than the twins, who were eight, this last stamped him as a molly-coddle. After breakfast the three boys went

out to the barn, where the twins ran up ladders and walked the narrow crossbeams thirty feet above the floor as un-concernedly as if they were on the

ground. Percy caught his breath. "Oh, I wish I could do that! I'd love to do those things, but mama won't let me, because

it makes me dizzy."
"Oh, it's as easy as pie. See me fly."
And Albert took a flying leap of fifteen
feet into the hay, followed by his bro-

compared muscles, and ercy's were "awfully flab-Then they compared muscles, and found that Percy's were "awfully flab-by." Their own were like iron. But showing off soon palled on all three But

showing off soon palled on all three boys, and they began to wonder what they could play.

"I made up a game the other day," said Percy, in the slow, sober tones that had struck the twins as so curious. They chattered as fast and as shrilly as monkeys themselves, in spite of their mother's hourly protests.

"Did you?" said Albert.
"Out of your own head?" said Her-

"Oh, it's easy. I often make 'em up," "Oh, it's easy. I often make 'em up," said Percy, delighted to have made an impression on these athletic boys, who could do so many things which he could not, although he was so much

"Tell us how you play it," said the twins, together, eager for some novelty. "Well, it's a kind of tag. I'll be it, and I'll start to run after you just the same as I would in tag." As he spoke, same as I would in tag." As he spoke, the twins, who had been lying in the hay, jumped to their feet and ran out of the barn. "Hold on," said Percy, "I must tell you something about it first. As I run after you I holler out a letter of the alphabet, like C, and then if you

Products of New Ontario: an eight-year-old farmer, six-foot oats, and five and a half foot timothy

think of an animal whose name begins with C, and shout it, I can't tag you; but if you don't shout, then I tag you, and you're it, and must run after the others and holler out a letter. It must be some animal, or if you choose you can call out flowers. But it must be either animals or flowers or countries or fruits; you musn't mix them up in the same game. Now you start and I'll follow

"I hope he says the same letter again

"I hope he says the same letter again, because I've got a bully animal all ready." said Herbert to Albert. The boys had not run fifty feet before they found that, whatever else Percy could not do, he certainly could run. He was almost upon Herbert before he shouted, and then he yelled fore he shoute "C!" as before.

Herbert waited until Percy reached out his hand to tag, and then he shouted, "Seal!"

"Tag!" said Percy, with a burst of

laughter.
"That's not fair,' said Herbert. "I said 'seal' before you touched me."

"But seal doesn't begin with a C; it begins with an S," said Percy, soberly. "How about sealing? Isn't that

sued Percy, who ran fleetly out into road. After a long chase Percy stubbed his toe, and Herbert gained enough on him to call out "G!" "Gnu" yelled Percy. But, with a derisive laugh, Herbert closed on him

and tagged him.
"I didn't say N. I said G."
"And I said gnu—g-n-u," said Percy, simply.

"Say, a fellow needn't ever get caught if he spells that way," said Bert, angrily. "Gpony, pony. That's dead easy." But again Al came up and declared that Percy was right.

They played the game for over an hour. Sometimes even Percy did not think fast enough to avoid being it, and after a while they gave variety to the game by changing to flowers; and there they rather got the best of Percy, who was not familiar with as many varie-ties as the country boys were. Bert made many laughable mistakes in spell-ing, and Al gave "phlox" as an F

At last, when they grew tired of the

sport, they all went up in the hayloft to-gether. The twins helped Percy up the ladder. They tumbled into the hay. "You're all right," said Al. "You can run fine, and that's a bully game." "And you can spell 'out of sight,'" said Bert

said Bert.
"I'd rather be able to climb a tree, like you fellows, than spell any word I ever saw," said Percy, modestly.

"Come on out then and we'll teach ou," said the twins, in unfson.—St. Nicholas.

Plate and Marble Puzzle

Here is a puzzle, or game, if you please, in the manipulation of which you may ecome quite expert by constant practice. The puzzle is something like the once popular "pigs in clover," but has two advantages over that puzzle. It is homemade and the trick, which is well nigh impossible for those who do not know how to do it, is very easy for those who do. In the centre cardboard disc as big and thick as a half dollar cut a round hole as big as a dime. Paste the cardboard ring so formed on the centre of a china plate and lay a small marble beside it. The trick is to hold the plate in your hand and make the marble roll up on the card, drop into the hole and stay there.

There is quite a knack in getting the marble to roll just right to do the trick, and this knack you want to acquire before you spring the puzzle on your little friends. Then show them how easily you can do it, and enjoy their desperate but futile efforts to hole the marble.

Cat and Chicken

A New Brunswick farmer has a cat which has adopted a chicken. It came about in this way: Tabby had suffered the loss of quite a family of kittens and was inconsolable. An old hen had a large brood of chickens and when they retired for the hight in some way Tabby enticed one of the chicks, and it was found snugly cuddled under her protecting forearm, and has ever since associated and slept with the old cat, which claims it as her own.

> If you've tried and have not won. Never stop for crying ; All that's great and good is done
> Just by constant trying.

HEALTH IN THE HOME

Damp Beds

The peril of sleeping in a damp bed is of the greatest and it is almost ever present. The experienced traveler rarely hazards the risk of sleeping between sheets which are nearly sure to be damp, until they have been thoroughly aired under his personal supervision at a fire in his bedroom. If this be impracticable, he wraps his rug around him or pulls out the sheets and sleeps between the blankets—a disagreeable but often prudent expedient. The direct mischief may result from the contact of an imperfectly-heated body with sheets which retain moisture. The body heat is not sufficient to raise the temperature of the linen or calico to a safe point and the result must be disastrous if, as is sure to happen, the skin be cooled by contact w a surface colder than itself, and steadily abstracting heat all the night through There is no excuse for the neglect of pro-per precaution to ensure dry beds.

A Checking a Flow of Blood

If the wound be situated on one of the extremities, wrap a strip of dense, strong fabric (a stout handkerchief serves well) around the injured member and, inserting stick between the bandages and the flesh, twist it around several times

In a lacerated wound with small stream of blood issuing from several points, lint, cold water and ice dripped into the wound. together with a slight pressure over the region from which the blood issues, will be sufficient.

Should a large vein or an artery be severed in a locality where a pressure bandage cannot be applied, find out by experiment at what point pressure with the finger will cut off the supply of blood and continue to apply the pressure until skilled hands have tied the several yessels. For instance, a wound in the temple, which indicates an injury to the temporal artery, should lead the operator to press upon each side of it separately until he has

located the artery.

Simple, superficial cuts require nothing more than cold water and lint, the patient remaining quiet.

Walking With a Child

A physician, discussing some of the ills from which children suffer, said, "I am of the opinion that many of the deformities and weaknesses of children are caused by the dreadful habit that some grown people

the dreadful habit that some grown people have of taking small children out to walk and dragging them along at a fast pace. "Only a few days ago I saw a man tak-ing a child, not over four years gid, along the street. He was holding the little one's hand, and walked at his usual gait. The child jumped, ran, and stumbled along, frequently losing its feet and being brought up to the perpendicular by a jerk of the

I had a little curiosity to keep track of them, and when the man stopped, as he shortly did, at a store, I stepped in and spoke to the child. Her father was busy

and paid no attention to me.
"The child's temperature was at fever heat and every nerve and fibre of the little body was quivering from the overstraining of the muscles. If that child doesn't have an attack of rickets, or some kindred trouble, I shall be very seriously mistaken in my estimate of the injury it received in

that dreadful dragging over a rough walk.
"Adults are, as a rule, altogether too careless about matters of this kind. They seem not to take into consideration the fact that a child's length of step is relatively so much shorter than their own

I believe that many cases of rickets brought on by this habit of pulling children by the arms. It necessarily is a strain on the spine and must be productive

of unpleasant if not dangerous results. Children should never have their arms stretched above their heads. times difficult to know just how to manage in leading them, but this point should always be kept in mind and no unnecessary pulling must ever be indulged in.

A Health Hint

od digestion commonly means good health. A hundred causes impair digestion. A very common cause, little thought of, is bad teeth. Improperly chewed food means imperfect digestion. Not only must solid imperfect digestion. Not only must solid foods be subdivided and masticated, but many must be mixed with saliva for proper preparation to suitable digestion. One without any, or with an insufficient number of molar teeth-the broad grinding teethcannot chew food properly. Have your feeth looked over regularly; once a year is enough. An examination often discloses cipient disease in time to save the teeth Filled, plugged or repaired natural teeth are always better than artificial substitutes. Try to keep your teeth sound as long as you can, not only for looks but because they are needed for health.

The Children

Give no laudanum, no paregoric, no

Never tempt the appetite when disin clined. Take care that the child's food is well

oked Wine, beer and confections should never

Avoid a too nourishing diet in a violently tempered child.

Vary the food from day to day, but avoid variety at one meal. Insist on thorough chewing. A child

who eats too fast eats too much. Give no food between meals. mach requires a rest, like any other organ of the body.

Secret of a Long Life

You sometimes see a woman whose old age is as exquisite bloom of her youth. You wonder how to have about. You wonder how to have one. is her life has been a long and happy one. Here are some of the reasons:

She knew how to forget disagreeable

She kept her nerves well in hand, and inflicted them on no one She mastered the art of saying pleasant

She did not expect too much from her friends.

She made what ever work came to her congenial. She retained her illusions, and did not

believe all the world wicked and unkind. She relieved the miserable, and sympathized with the sorrowful.

She never forgot that kind words and a smile cost nothing, but are priceless treasures to the discouraged.

She did unto others as she would be She did unto others as she would be done by, and now that old age has come to her, and there is a halo of white hair about her head, she is loved and considered. This is the secret of a long life, and a happy one.

Health and Vigor depend upon the quality and uantity of the Blood."—Humanitarian.

utility of the Bloom.—"The manuscream.

The Liver is the great energing organ of the body, and when it fails to perform its office before the commission of the commission of

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THE KITCHEN

How to Make Corn Brend

Corn bread, to be made properly, should be prepared from good, honest water-ground meal, unboited. Your fancy meal, bolted, or the "peal" meal," contains but little else than starch. The gluten and phosphates, which sustain life, are taken out in the process of manufacture. Take one cup of greed communicature. life, are taken out in the process of manufacture. Take one cup of good commeal, sift out the coarsest of the bran and add a cup of boiling water, mix well and add another cup of corn meal, mix well and add salt sufficient and soda and buttermilk enough to make a thin batter. Have a thick iron baker hot, pass a bacon rind or greasy paper over the surface of the baker and sufficient fat will adhere to prevent the corn meal batter from sticking, put no lard, butter batter from sticking, put no lard, butter batter from sticking, put no lard, butter or other fatty substance in the dough before it is baked. Place the baker in a hot oven and let it remain for thirty minutes, and you will have a delicious

cake.

The old-fashioned "hoe-cake" was made with corn meal, salt and cold water, no grease, and baked on a board or stone, before a hot wood fire, or in a "Dutch oven," or owen and lid, with coals of fire in the lid or underneath the oven. The putting of shortening of any kind into corn meal dough, or even into flour dough before baking, is a very flour dough before baking, is a very point, for the reason that the fat combines with the albumen of the flour or meal and forms an insoluble material which is not digestible. which is not digestible.

Care of Knives and Forks

To keep knifes and forks in good condition, wipe them as soon as possible after being used, as the longer they are left with stains on them the harder they will be to clean. After cleaning, put them into a vessel of hot water and wipe dry with a soft flannel cloth. It is a good plan to rub the steel parts with a flannel dipped in oil, letting it remain flannel dipped in oil, letting it remain on for an hour or so and then wipe dry. Another method is to dust the blades and prongs with quicklime finely powdered, wiping in an hour or two and wrapping in a flannel cloth. This restores their polish in part. Never let the handles of bone or ivory knives lie in water.

Home World Recipes

Name World Recipes
Steamed Pudding.—One coffee cup of
buttermilk, one-third cup of sugar, one
egg, a little salt, one heaping teaspoonful of soda, about three and one-half
cups of flour, one small cup of raisins,
currants or other dried fruit. Steam two hours.

Transparent Pie.—One egg and the yokes of two, a lump of butter the size of half an egg, one cup of sweet milk, half a nutmer. Bake with one crust and frost. This is excellent.

Stewed Celery.—In preparing celery for the table reserve the outer stalks, not sufficiently blanched to be eaten raw. not sufficiently blanched to be eaten raw. Clean them thoroughly and cut them into pieces half an inch long. Stew these pieces in water until quite tender. Drain off the water, add butter, a little flour and sufficient milk to make a sauce to cover the celery, besides salt and pepper. Heat up to boiling and serve.

Pickle for Beef.—Boil in four gal-lons of water one and one-half pounds of brown sugar, two ounces of saltpetre, and nine pounds of salt until dissolved.

Skim as fast as skum rises. brine, pack the meat closely in a barrel, brine, pack the meat closely in a darrei, and pour on the pickle, being sure it is cold. Keep the meat under the brine by a weight of some kind. This quanis enough for two hundred pounds or less

Delicious Raisin Cake.—One cup of sugar and one-half cup of butter beaten to a cream, one-half cup of milk, three to a cream, one-half cup of milk, three eggs, saving out the whites of two, one heaping teaspoorful of baking powder, and two cups of flour; bake in layers. Filling: Seed and chop quite fine one cup of raisins, make hard frosting by boiling one and one-fourth cups of sugar with as much water as will dissolve it, until it will string, then pour slowly over the whites of two eggs abaten stiff, stirring until quite cold, then add raisins and spread between the

Baked Apple Dumplings.—Take one pint of flour, a heaping tablespoonful of lard, two heaping teaspoonfuls of yeast powder, a little salt and sufficient milk to make a soft dough. Divide it into to make a soft dough. Divide it into twelve portions, rolling each into a thin cake; pare and slice about sixteen apples, put into each piece of dough as much apple as it will hold, add a little sugar and nutmeg, and join, forming a ball. Put these balls into a deep dish or pan, nearly cover them with water, between each dumpling put a small piece of butter and a tablespoonful of sugar, to make the sauce. Lastly, put a small piece of butter on the top of each dumpling to brown it. Bake half an hour. I hope some one will try these as we think them delicious.

In the Absence of Scales

One and one-third pints of powdered sugar weigh one pound.
Two and three-fourths teacups (level)

of powdered sugar weigh one pound.
One pint (heaped) of granulated sugar weighs fourteen ounces

Two teacups (level) of granulated sugar weighs one pound.
One pint of coffee "A" sugar weighs

twelve ounces Two teacups (well heaped) of coffee "A" sugar weigh one pound One pint of best brown sugar weighs

thirteen ounces. Two and one-half teacups (level) of best brown sugar weigh one pound.

-Quick Dishwashing

Have ready a large, deep dish pan. Pile plates, saucers, etc., neady according to size. Then pour boiling water over and through them, letting them stand for a few minutes, while attending to some other matters. Then take out the water which has removed all the grease, and, as which has removed all the grease, and, as you will find nearly everything adhering to them. Then wash in lukewarm water with nice soap, and rinse with boiling water. Done in this manner dish washing is no drudgery, but nearly as pleasant as any other work. Pour boiling water into any other work. Pour boiling water into kettles, spiders, dripping pans, etc., add a little ammonia, and they are nearly, clean at once. This method also saves the bands, and if we can keep our hands from becoming red and swollen, and having a parboiled appearance, we certainly have a right to see. Ty it and I am sure a right to see. you will not regret it.

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IN THE SEWING ROOM

Putting Away Summer Clothing In putting away summer wash-dresses they must be rough dried, then folded and packed in a box or trunk by them-

selves. It is an excellent idea to go over each other and take the few mend ing stitches that are sure to be needed.

Challies, crépons and summer silks should be carefully shaken and brushed, should be carefully snaken and orusned, spots sponged, bows of ribbon taken off and unmade, if possible, or the dust carefully wiped off with a bit of silk dipped in weak ammonia water, and

dipped in weak ammonia water, and packed away in separate boxes. The same rule applies where laces trim the dresses. If these are wash-able, they should be washed, otherwise shaken and wound around a bottle or

wooden roll.

It is a good plan to let the dresses hang wrong side out in the air all of a sunny morning. Rumpled ruches, shields and bent bones should be taken from the waists, and the waist linings should be brushed down every seam with cologne and water.

Feathers and flowers should be taken from the hats and bonnets, wrapped trom the hats and bonnets, wrapped carefully and separately in tissue paper and consigned to boxes where they will not be crushed. The flowers should have each leaf pulled, out, and if breathed on before using again will be found as fresh as ever

May Manton's Hints

WOMAN'S COAT WITH CAPE 4522 Capes that droop over the shoulders make parts of many of the latest coats and are both graceful and generally be-The model shown



4522 Woman's with Cape

Shirt Watet

able and the entire coat one to be highly commended. The original is made of commended. The original is made of zibeline, in the new purple known as Lombardy plum, and finished with stitching in corticelli silk and makes part of a costume, but all cloaking and suit materials can be utilized.

The cloak is made with a blouse por-tion, that is fitted by means of shoulder and underarm seams, and the skirt, or and underarm seams, and the skort, or tunic, which is seamed to it beneath the belt. The cape is seamless but is slashed at the centre back and the shoulders to provide the freedom essen-tial to comfort. Finishing the neck that to comfort. Finishing the neck that to comfort the state of the forms a flat collar. The tunic is first forms a flat collar. The tunic is free over the hips by means of darts and is laid in plaits at the centre back.

WOMAN'S SHIRT WAIST 4526

Shirt waists closed in double-breasted style are among the notable features of fall fashions and are admirable both for the separate waist and the gown. This one is adapted to both uses and to the entire range of seasonable materials

but is shown in Nile green French flan nel stitched with corticelli silk and held by buttons of dull gold.

by buttons of dull gold. The waist consists of a fitted lining, which can be omitted when washable fabrics are used, the fronts and the back, sleeves, cuffs and collar. The fronts are taked at the shoulders and are lapped one over the other, but the back is plain, simply drawn down in gathers at the waist line. The sleeves



Jacket 32 to 40 waist

4524 Child's Dre 2. 4. 6. years

are the new ones that are full at the wrists but smaller above the elbows and are gathered into straight cuffs

WOMAN'S HOUSE JACKET 4519

House jackets are among the comfrouse Jackets are among the com-forts which no woman should consent to be without. This one is graceful and becoming at the same time that it is comfortable and appropriately can be comfortable and appropriately can be made from a variety of materials. The model is of dark red albatross with frills and insertion of twine colored lace and is finished at the neck and waist with ties of red louisine ribbons. The jacket is simply made with fronts

and back and is trimmed to give the vest effect. The fronts are gathered at their upper edges and are arranged over a yoke which serves to keep the fulness in place. The back is plain across the shoulders, but gathered at the waist line where it is attached to the belt which passes under it and the fronts to openings cut at indicated points, then But, if a simple adjustment is preferred, the trimming outlining the vest can be omitted and the belt passed under the entire fronts, giving the effect shown in the small cut. The neck is finished with a big collar and the sleeves are in one piece each, cut in bell shape.

CHILD'S DRESS 4524

Frocks that are cut with waist and skirt in one are much in demand for the little folk and are both charmingly attractive and simple. This one is adapted to the girls as well as the boys and to a variety of materials, but is shown in a light weight wool mixture, in shades of blue, and is finished with machine stitching in corticelli silk. With the dress are worn a silk tie and a patent leather belt but a belt of the material can be substituted when preferred.

The dress is made with fronts and back and is laid in a wide box plait, back and is laid in a wide box plait, with outward turning plaits at each side, at both the centre of front and back, the plaits being stitched to the waist line but pressed to position only below that point. The closing is effected beneath the left edge of the front plait for boys, the right for girls. At the neck is a wide collar and a belt confines the full result of the waist. The sleeves are full with roll-over cuffs.



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"HICKORY"

(Continued from page 775)

she comforted herself with the idea that the sermon might do him good,

that the sermon might do him good, even if he did not go to hear it. This morning the position was too serious for smiling. Tom's difficulty with his father distressed her, and his leaving on the morrow seemed so sure, that she felt sorely troubled. More than once their eyes met, though, to retain her composure, hers were at once averted.

She felt both sorry and miserable.

When Dr. Naylor, with his broad Scotch accent and thrilling tone, read out the parable of the Prodigal Son, out the parable of the Prodigal Son, taking as his text the words: "And not many days after, the younger son gathered all together and took his journey into a far country, and there wasted his substance with riotous living," it fell like a bomb-shell upon poor Elsies nerves, for Ion was the younger Involuntarily she looked at him; but his lips were pressed tightly together.

his lips were pressed tightly together and his eyes fixed upon the minister; who, with old-timed vehemence and power, painted the picture of the vol-

untary castaway.

Tom was poorly clad. His coat was an old one. It had seen the wear of sev-eral summers, and was not by any an old one, it had seen the wear of sev-eral summers, and was not by any means too large for his growing frame. But he buttoned it up tightly as the speaker told the dismal story; and with set face almost glared upon him, as he poured out in torrents his description

of the going away, the life and the fall of the dissolute youth.

Tom was but dimly acquainted with the parable, and in the light of existing facts, took the sermon as a direct and unjust attack when his parable has a direct and the sermon as a direct and the serm unjust attack upon himself—the garments made out of whole cloth but the suit would not fit. That he was going away was true, but there would be no bestowing of gits by his father, no wasting of substance in totous living. There would be nothing to take away nothing to waste. The glowing description of the father's generosity, in the division of his partimony, only embit-tered him against everyone, but the owner of the sweet eyes, that now and then shot him a glance from among the choic selfs.

then shot him a glatice from allong the choir girls.

When Dr. Naylor got to the end of his course, ready to come back on the home-stretch, signalling the return of the wanderer to his father's home, and the wanderer to his father's home, and the restoration of the producal to a pure life and holy living—Tom Potter's heart felt like admant—he was out of the race—the story had nothing for him. Yet that sermon held the people as never as sermon held them before. A pin could have been heard drop, It

was a beautiful picture—an allegorical tale well told. It aroused their symtale well told. It aroused their sympathies, but it did not touch their hearts. They might be backsliders, but they could not be prodigals! Ah, no! It was for other mem—not for themselves! What a pity that there were not among them a few real sinners, who could be benefit they peached the not know him from Adam—believed that somehow it was a direct thrust at himself: and he was a direct thrust at himself; and he went out with his head cast down and bitterness in his heart.

bitterness in his heart. Elsie slipped out very quietly. She did not stay to talk with the other girls that day, but felt like getting into the wagon quickly, and driving, no matter where. The expression on Tom's face, as he listened to the words of 'the preacher, was fixed upon her memory, never to be forgotten. But while George was getting out his horses from the shed, Genie and Alice gossiped, with their friends, and for a moment Tom and Elsie walked on toward the rig together.

"That didn't mean you, Tom," she said in a quick low voice.

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"Hs—sh—sh.

"I'm sorry, but it's true all the same and I'm off to-morrow." Not for good, Tom?

"Not for good, Tom?"
"Yes, for good—or bad—as the preacher says; but I'm going—and you'll be gathering flowers this after-noon? Won't you? Do, please, Elsie!"
"Perhaps I will."
"About the old time?"
"Maybe I can't to-day, Tom."
"Yes you gen."

"Yes, you can."
And Tom walked down the road by himself, as George drove up with the

horses. "What did Tom say?" asked Genie, when they were in the wagon. "Is he determined to go after what the preacher said?" "Yes, he leaves to-morrow." And the four drove home in silence. It seemed, even to the younger ones, to be a serious business.

It was late that afternoon when Elsie, having put on her hat again, came out of her room. She and Genie had 'redd' up the house after dinner, and now, as usual, she was ready to obey the behests of her own sweet will. Her custom was to wander in the woods for an hour to gather flowers; and ostensibly, there was no reason why she should not re-peat the pleasure to-day,
"Going out, Elsie?" her mother asked,

"Going out, Elsie?" her mother asked, looking up quickly from her book. She had a great passion for Pilgrim's Progress and Paradise. Lost for Sunday reading. This time it was the latter that she held in her hand.
"Yes, mother, lady-slippers are ready, and so are the buttercups and dasines. I saw a lot of them in the woods the other afternoon, but I hadn't time to gather them."
"Have won time now? It is some."

"Have you time now? It is your turn to get tea, you know. Genie did it last Sunday."

it las. Mrs. it last Sunday."

Mrs. Ross felt uneasy. Somehow, while she had every confidence in Elsie, she did not like the idea of her going into the woods alone that afternoon; although she had done it from childhood without it ever giving her a thought.

"Lots of time, mother. I know just where they are. I'll have tea ready all right; and there's no hurry about milking, you know, for we always do that

on Sundays." Elsie's logic was sound, and Mrs. Elsie's logic was sound, and Mrs. Ross could not ask the other girls to go with her, for they had already wandered off in another direction by themselves. Even if they had been present, it is doubtful if she would have ventured the suggestion; for the element of suspicion had never been allowed to come between herself and her children.

between herself and her children.

"Don't wander too far and forget, dear," she called out as a final appeal, as Elsie tripped down towards the little bridge which spanned the creek.

"Never fear." And the girl turned and threw a kiss to her mother; but her heart was already beating faster. She knew that before she left the woods Tom yould find her. Still, she was honest in her quest, and went straight to the flowers growing abundantly beneath the maples and pines. Soon she had a handful of orchids and quickly added daisies and buttercups; and was on the lookout for more, cups; and was on the lookout for more, cups; and was on the lookout for more, quickly added daisies and butter-cups; and was on the lookout for more, when rushing feet greeted her ears. Several twigs snapped, and Tom Potter burst through the dense underbrush into the open space where Elise stood.

"I knew you'd come. Elsie," he exclaimed, seiring her hand and holding it tightly for a moment.
"I always do while lady-slippers last," "I always do while lady-slippers last," while she turned to pull another orchid. "Sunday's my best day," "I didn't mean that," he said, taking particular and the said, taking particular and the said taking particular and taking particular and taking particular and the said taking particular and the said taking particular and taking particular

off his straw hat, and wiping the perspiration from his forehead with his shirt sleve. "I was afraid I'd miss you, for I had to go up the fourteenth after dinner and couldn't get back any sooner; though I hurried like mad, I can tell you."

"It is foolish to hurry on a hot day like thick? said Elise, arranging her

like this," said Elsie, arranging her flowers. She did not think that she ought to feel as she did, and was trying

to control herself.
"But if I'd missed you I might never see you again.

see you again."

"Are you going to be away as long as that?" she queried, looking up this time into his face.

"It looks like ages to me. A fellow never knows what's going to happen."

"And have you really got to go?"

"Yes, I have. I start before daylight to-morrow. It's like this, Elsie, father and me have had it hot and heavy for a long time; and it's got to that pass that there's no let my bottle his father. that there's no use talking about it, but he's just as hard as nuts. And I can't stand it any longer."

"What does your mother say, Tom?"
"It goes against the grain for her;
but she agrees that to have any peace at all, I've got to go away for a while, any-

how

how."
"And Jim?" said Elsie.
"Oh! he's easy-going. He don't say much. He allows he'll have to work harder when I'm away, but he expects to make all the more out of it. He's older than me—quite willing to knuckle down—and in the end will get the place. So the sooner he has the chance the hetter

The young man compressed his lips tightly as he finished speaking; but as he turned to Elsie for words that did not come, his face relaxed again and he

Ooked abashed.
"I'm an idiot to talk to you like this,"
he continued, hurriedly; "but you are
the only one who knows how things are, the only one who knows how things are, except my mother, and she's different."
"I want you to tell me everything,
Tom," said Elsie, who felt like crying.

Where are you going to?"
"I know where I'd like to go, but I

can't," he exclaimed doggedly.
"Where is it, and why can't you?"
"'Cause."

"Cause"
"Cause what? You were going to tell me everything."
"Well, if you must know, Elsie, I can't, because I haven't got a dollar. But I'll get there. Is will only take time. I want to be a sailor on the lakes tell and work my way up. I've heard say that Detroit was the best place to go to for that. They have steamers and lake craft

for that. They have steamers and sailing ships and schooners and lake craft of all kinds there; and once on the spot, a fellow would get a chance that "Why not work with the farmers un-

"Why not work with the farmers untial you make money enough to take you
and then go?" said Elsie, wisely.
"The trouble is the lake season is so
short that, to get a show at all, one
needs to be there early. And another
thing, round this section it's only in
haying and harvest a man can get
money for his work, and it's too soon
for either of 'em yet."
Elsie's lip began to quiver. Al-

tor either of em yet."

Elsie's lip began to quiver, Although she had made up her mind what
to do, before she said her prayers the
previous night, she found it difficult
now to carry out her resolve. Still she

was determined to do it.
"Do you care for me a bit?" she

"Do you care for me a bit; sale stammered out at last. "Care for you?" he almost shouted. "There isn't a girl in the whole county like you. I'd eat my heart out for like you. I'd eat my heart out for you any day in the week. You've got my soul and body every bit of it. I just love you, Elsie, as no other fellow ever could."

Elsie stifled a sob. Will you do what I ask you, then?" "I will if I can; but don't make it too hard, please." And he looked down in-

"I will if I can; but don't make it too hard, please." And he looked down into her face wistfully.
"You can it you will," ahe said.
"You can it you will," ahe said.
"I can't, I com—only this: I would never ask you to do what I thought you shouldn't do. Will you promise?"
"Yes—I promise."
"Yes—I promise."
"Yes—I promise."

Drawing it back, she put it in her pocket and timidly pulled out her little rown purse.

"Oh, no, no, no;" he exclaimed pasnionately, pushing her hand away from him. "Not that, not that."

him. 'i "Yes," nim "Not that, not that." "Yes," she said, more firmly now. "You's got to, Iom. It's a promise, to the said that the said the said that the said that the said that the sa eyes blazed out in eager earnestness.

"But I've no right to take your money," he persisted. "It 'ud be a cowardly thing for a fellow to do. I'm bad enough, but I don't want to despise myself."

myselt.

"You would have no reason," she re-turned, putting her hand upon his arm and pleading earnestly." I am only lending the money, which you will re-turn some day; and it will please me to have you take it.

"Do your people know?" he stam-mered, unconsciously receding from his

position

"No, they don't, but after you are gone I will tell my mother."

gone I will tell my mother."
"And make her hate me!"
"No, she won't. I will tell made you take it. Come now, don't be silly, Tom. I've got to go. I can't wait another minute."
Resistance was over, and though he held out his hand, his face flushed hotly, for he still felt that he was doing an

unmanly thing.

'The money, but not the purse," he muttered. the purse too," said Elsie.

"Yes, the purse too," said Elsie.
"You will spend the money, but the
purse you will keep in your pocket; and
if you ever want to be wicked, it will
remind you of someone who will be Spite of herself her own face this time flushed crimson. With an irresistable impulse he clasped her in his

arms and pressed a passionate kiss upon

arms and pressed a passionate was upon her lips.

Panting, and white with terror she struggled herself free, "Oh, Tom," she exclaimed, "how could you?"

could you?"
"I couldn't help it,' he stammered penitently; "and after you've been so good to me. I hope you won't be mad."
"But I am mad," was the hot answer.

"But I am mad," was the not answer.
"I'll never do it again."
"You'll never get the chance."
"Won't you forgive me?"
"No, I won't."
"Well, I won't have the money or
the purse either." And he laid them down on a log.

down on a log.
Instantly her manner changed, and
with quivering lip she said, "I forgive
you then. Good-bye. Tive got to go,"
And turning, she ran along the path.
"Stay. You did not shake hands."
And he hurried after her.
Then she stopped and held both out
him. Scarcely knowing what he did,

he stooped and kissed them.

(To be continued.)

Aunt Sarah (to nephew from the city) Is Uncle Cyrus through milking yet,

Teddy—Not quite. He has just finished two faucets and has just begun on the other two.—Galveston News.

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all last w.nter for \$4.72 cash, They are made of the quality, glossy block Alaska Seal, with 5-in, storm collar, fur on both sides and 10-in, case warmly padded, we'll lined and



Fruits and Vegetables

Export Pear Trade

The export pear trade is becoming an important one. Growers should give some attention to the development of this trade. Hundreds of barrels of pears have been allowed to remain unpicked this season because there was no market for them. By developing the export trade and creating a demand in the Old Country for Canadian pears this loss would be largely overcome. Some val-uable information in regard to this trade uable information in regard to this trade is given in his bulletin on the "Export Pear Trade," by W. A. McKinnon, Chief of the Fruit Division, Ottawa. He states that Canadian pears have to compete with the best fruit in the world in the British market and therefore should be packed and handled in the best possible way. Pears are sold individually by the retailer, and consequently every single pear is scrutinized. A few had pears will therefore spoil the sale of a whole case.

Mr. McKingon advises the Canadian.

Mr. McKinnon advises the Canadian packer as follows:

"Grade carefully so as to have only "Grade carefully so as to have only one size in a package, and to exclude "rigidly all under-sized". Of defective firuits. 2. Pack carefully in uniform "packages plainly marked with the name "and address of the shipper, the variety "and grade of the fruit, and the word "Canada always occupying a promi-"nent position.

Pointers for Fruit Growers

Attention has been frequently called by us to the scarcity of fruit in Europe this season and that by us to the scarcity of fruit in Europe this season and that good prices are likely to rule there for first class Can-adian fruit. On this point Mr. H. J. Goff, Inspector for the Department of Agriculture at Bristol, England, says: "I feel confident that if our shippers "are as particular as they should be, "shipping only first-class fruit, properly "socked and out un, this season is snipping only inst-class truth, properly "packed and put up, this season is "bound to prove one of high market "prices, as there is practically no fruit "in England."

Inspector Driscoll, of London, Engshould be picked early and shipped in boxes rather than in barrels if satisfactory returns are to be expected.

Fruit Inspector Carey, of Montreal, reports that shippers make a great mistake in holding off shipping until the
last moment with the result that often
the half or more of the entire shipment
of apples is handled, even from the care, after 8 o'clock the last night of loading When this is the case, it is impossible to handle otherwise than roughly, consequently the fruit is often damaged more by the handling the last night loading on the ship, than, it is the rest of the

Dried Apples

Farmers who are not able to dispose of their apple crops to shippers to advantage should try making them into dried apples. The following valuable suggestions to the dryer are given by a large wholesale dealer :

As soon as the apple is paired it should be cut into quarters, trimmed and thrown into an ordinary sized pail which has been about half filled with water in which a handful of common salt has been stirred. handful of common salt has been stirred. As soon as enough apples have been prepared, drain off the water, which can be used again, and fry in the usual manner. The effect of the salt water is to whiten the apples very much and prevent them from turning dark; I'ry; this way and you will be pleased with the results and

proud of your work with really no more trouble.

Always cut the apples into quarters, Sliced dried apples this is very important. not wanted

Do not dry on strings.
Do not offer burnt apples for sale.

Do not expect the merchant with whom you deal to give you good goods for poor

Canada has taken the lead in many other products and we are all interested in having this apply to dried apples as well. A little extra effort on the part of each dryer will accomplish much.

Dried apples are saleable from 1st of October to the 1st of April, but experience has proved that it is the wisest plan to market the goods early while the demand is good

How to Grow Big Squash

On page 731 in last issue appeared a photograph of a mammoth squash. This was grown at Goderich, Ontario, and weighed 320 lbs.

weigned 3610s...
Goderich is noted for its big squash.
In 1893 Mr. Wm. Warnock, of that place,
grew a mammedt squash weighing 365
pounds, which he exhibited at the World's
Fair, Chicago. Mr. Warnock sends a
description of his method as follows:

"My land is made in good condition, being heavily manured every year. It is of a gravelly formation with about sixteen nches of clay loam on top. For each hill intend to plant, about the first of April I take two good wheelbarrow loads of hen manure and mix with four barrows of good soil taken from some other part of th This is mixed a second time the middle of The first of May I add four barrows of well-rotted manure and mix thor-oughly, then about the eighteenth of May oughly, then about the eighteenth of may make the hills and plant, dig out a space seven feet in diameter and fourteen inches deep, fill in my compost mixing, and with it some of the best earth which was thrown out, and when finished the hill will be about ten feet in diameter and six inches higher in the centre than the surrounding level. Then plant the seed. Hills want to be about twenty feet apart; work the ground well until the plants commence to run. When about three feet long I mulch the ground all over for twenty in diameter around each hill with hors manure three inches deep and stake the vines down with sticks to keep the wind from rolling them about, so that they may root at every joint. It is of great advan-tage to keep the vine from fruiting as long as possible by pruning all fruit bloom off until about the last week in July; this will give time enough to mature a 300-pound squash by the first of October, for there must be a big vine to produce a big squash. I practise fertilizing a few of the squash. I gractise fertilizing a few of the first bloom, that come when I think the vine is strong enough to grow a good specimen, by cutting off some of the fresh false bloom, trim the corolla or flower leaf off, and rub the stamen in around the fresh When the first perfect bloom. specimens have set well, say four or five inches in diameter, cut all other fruits and blossoms off, and nip the ends off vines and all bloom that shows twice a week, so that the vine is not exhausted with the great quantity of false bloom that would While the great growth naturally come. While the great growth of the squash is going on I use liquid manure twice a week along three or four of the principal vines of each hill, often six pails to the hill if it is in a dry time. Great care must be taken to give plenty of water.

Remove flower-pot stains from window-sills by rubbing with fine wood ashes, and rinse with clean water.



AUCTION SALE OF TIMBER BERTHS

DUBLIC NOTICE is breby given that gar P suant to authority of Orders in Council, the led and White PixeTimeter in the follow-ing coverables, best as a seasa, namely-ing the control of the council of the ships of HUTTON, CREEMAN PLANTA, TAT, MICH. MACKELCAN, MCCARTHY, MERGICE, MULDON (part of), FERNICH (part of), STRWART, LOCKHART (part of), GASHOW (part of, Os In the District of Algoma—Berths Nos. 195 and 201, the Townships of Kitchener and Roberts and Block "W" near Onaping Lake.

Ronsters and Block "W near Onaping Lake. In the Raing River District.—Berths (19, 62), C23, G29 and G38, and the following Berths with the right to cut and remove the pine. G18, G38, G29, G38, G27, G28, G38, G37, G38, G49, G42, G48, G47, G28, G38, G37, G38, G40, G41, G42, G43, Berths Nos. S1, 32, 33, and S4, will be offered (pg sale by Public Auction Toronto, on Wordnesday, the ninth day of Docember, 1903, at the hour of one o'clock in the afternoon.

Sheets containing terms and conditions of Sale and information as to Areas and Lots and Concessions comprised in each Berth will be turnished on application, either personal or by turnished on application, either personal or by Turnished on application, either personal or by Turnished on Englished Company of the Convolution of Turnished Company of Convolution of Convolution of Convolution of Commissioner of Crown Lands.

DEPARTMENT OF CROWN LANDS, TORONTO, July 29, 1908.

N.B.—No unauthorized publication of this advertisement will be paid for.



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 50 feet of best waxed linen shoe thread, and the handle,
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 various shapes and sizes. Given to anyone sending one
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FOR THE BOYS

- FOUNTAIN PEN. For its cost this pen is unsurpassed.

 We send each complete with glass filler. Given for one subscription.
- HARMONICA and OASE. This is Hohner's latest and best style mouth organ. Given for two subscriptions.
- "ORACK SHOT" RIFLE. Now is the time of the year for shooting. This rifle is a 22-calibre Stevens. Weight about four pounds. Given for ten subscriptions.
- BOY'S WATOH. This is an entirely new watch, specially manufactured this year for The Farming World. It is handsome solid nickel, is quaranteed for one year, and thic care should last for twenty years. Given for six subscriptions.

FOR THE GIRLS

- OHATELAINE PURSE. A very handsome and popular article, and something every girl should have. Given for these subscriptions.
- GIRL'S PURSE. Is made of seal grain leather, leather lined and decorated with handsome metal ornaments. Given for two subscriptions.
- BEAUTIFUL DRESSED DOLL. She is dressed in a handsome, well-made dress, large hat, removable shoes and lace trimmed underwear. Given for three subscriptions.
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Rienzi .			1				Edv	vard	Bulwer	-Lytton
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Alice -							Edv	vard	Bulwer	-Lytton
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THE FARMING WORLD

90 WELLINGTON ST. WEST,

TORONTO

Hatching and Rearing Chickens

The Hen Contrasted with the Incubator---Some Interesting Figures

By T. A. WILLITTS, TORONTO

In the FARMING WORLD of May 15th considered at some length the possi bilities and probabilities of hatching and rearing chicks by the artificial plan. We will now estimate as nearly as possible what may be done by natural incubation and rearing, under the same conditions and with the same number of hens, viz., one hundred, basing our calculations on the same egg yield, the same percentage of fertility and same percentage of chicks hatched and reared, although on the two latter points I am giving the natural plan the best of the argument as I have never found with large numbers of eggs that hens would hatch as large a percentage as first-class incubators, or rear as many of the chicks as good brooders will do. However, for the purpose of this estimate we will assume that there is no difference between the two plans.

We will assume by the advent of March the hens are laying freely, conmarch the nens are laying treely, con-sequently some of the earliest layers are now inclined to set, but in the writer's experience not over ten per cent. of them will do so thus early in the season. We will set our ten broody hens during the first week in March and all on the same



A Silver Grey Dorking Hen-1st prize at Manchester, Eng., 1903.

day, according to our former estimate of 25 per cent. unfertile and 80 per cent. hatching, we will hatch 78 chicks, setting 13 eggs under each hen

RE-SETTING THE HENS

We will now divide the 78 chicks among five hens and re-set the other five, which can be done quite easily without "Biddy" fully realizing the fraud that is being perpetrated at her expense. All you have to do is to remove the chicks as they hatch from the hens you are going to re-set. Don't leave hens you are going to re-set. Don't leave them with her until they are half out or you are likely to have trouble; she will begin to realize that there is a villian-ous kidnapping scheme affoat, and is quite likely to give you a positive ex-pression of her opinion on the subject by open rebellion and a dogged refusal to set any longer. However, if you are careful there will be no trouble, and each of the five setters will easily hatch a second brood of chicks, but you must a second brood of chicks, but you must dust the hens with sulphur once a week and see that each bird comes off the nest daily for feed, etc.; dusting the nest causy for reed, etc.; dusting the hens with sulphur to keep down the lice is very important. Use the common Flowers of Sulphur in a dredging box, dusting it well into her feathers; use it the first time when setting the hen, then a week and two weeks after, but not later than this or it will get in the

eves of the young chicks and injure the sight. Always provide a dust bath of or a sign. Always provide a dust pair of dry earth or road dust, and place it where the sun will shine on it, and your setters will rid themselves of vermin partially but not entirely. It will be ound in hatching and rearing chicks tound in hatching and rearing chicks by the natural process that a constant hight has to be kept up against lice as they will increase by millions and ruin your chickens; begin the crusade against them early and keep them in subjection. Don't flatter yourself that your hens and chicks are clean that your hens and chicks are so clean that you have none The writer has been raising chickens for a quarter of a century and is fully convinced that there is always a few of them around, and with the least opportunity they increase at a prodigious rate.

GET RID OF THE LICE

Start work at once on the five hens that have charge of the chicks, get a nice soft sponge as large as a man's fist, dip it in warm water, allowing it to soak up all the water that it will, then squeeze it as dry as you can, wrap it in a dry towel and squeeze it again. The sponge is now dry and soft, now dip it in coal oil and squeeze it as dry as

Take your hen and rub her feathers Take your hen and rub her feathers with the sponge, rubbing the under side of the feathers, that is, the side next to the skin. The sponge being dry nothing but the odor of the coal oil is imparted, but this is all that is wanted. The best time to do this is in the evening, just time to do this is in the evening, just as the birds are setting down for the night. Having given her a good rub-bing, return her to her chicks and they will at once go under her to be brooded. The combined heat of the chicks will intensity, the odor of the oil to such a degree that the lice make a hurried de parture if they are not overcome by the fumes before they can escape. This is hard on lice, but does not hurt the chicks, and there is no better remedy at any price.

MORE HATCHING

Having domiciled our first batch of 78 chicks in the five separate coops and Having domiciled our first batch of 78 chicks in the five separate coops and reset five of the setters, we must now make provision for as many more setters as we-can get. It will usually be found that they will come along at the rate of four or five per cent. of you flock per week. Thus in the rate of you flock per week. Thus in the reset is the reset of the reset of

instead of rewarding them with of thirteen nice eggs we consign them to of thirteen nice eggs we consign them to a coop without nests, presided over by a lively cockerel who permits them no peace from morning till night. Under these conditions "Biddy" soon changes mind about setting, and shortly starts to lay again.

WHAT IOO HENS WILL DO

Now let us reflect for a minute on our season's (estimated) work. With our flock of one hundred hens we have

hatched five hundred and eighty-five hens we will assume that they raise hive hundred and fifty of them, although this result would be better than the wri-ter has ever had in actual experience, but the result is contingent on the nebut the result is contingent on the in-cessary number of hens becoming broody within the prescribed time, and on half their number being patient enough to hatch a second batch of eggs. Now for the result: 275 pairs of chickens bring \$240.62 to which we must add \$29.06 for 2,325 eggs produced which we did not set, valuing them at fifteen cents per dozen. From these sums must be deducted \$68.75, the cost for feed for 275 pairs of chickens, and \$24 for feed 275 pairs of chickens, and \$24 for feed for the hens which laid the eggs; total receipts, \$269.68, less expenses \$92.75, leaving as profit \$176.93, which is exactly \$361.57 less than our estimated profit from the same flock under exactly the same conditions, but hatching entirely with incubators and rearing with brooders. In the latter estimate in which all the hatching and rearing is bronders done by natural means, we have had a great deal more work to perform and great deal more work to perform au-there has been a great deal more un-certainty about the results, for the rea-son that although we may have the eggs there is no certainty that the necessary setters will be forthcoming at the proper time; if they are not, the eggs have to be sold for fifteen cents per dozen.

When these eggs are converted into chickens they bring us a fraction over \$2.86 per dozen—just think of that for a moment—two dollars and eighty-six cents per dozen! There is no disputing this as far as I can see, and if any person can show me wherein my estimate is not well within the bounds of reason and probability I shall be glad to hear from them



A Silver-laced Wyandotte Cock. An English prize winner.

Hatching and rearing by natural me-Hatching and rearing by matural me-thods over two-thirds of all the eggs produced have to be sold at market rates. But if we have incubators and brooders enough we can batch and rear them all, and in this way only can we secure all the money that should be made from poultry keeping. I fancy I hear some sceptic remarking that if we all followed this course chickens would all followed this course chickens would be so plentful and cheap there would be no profit in them. To all such I would say that fifteen years ago when incubators began to come into general use the same alarming state of affairs was predicted, but the market quota-tions during all those years show that the price of spring chickens has been steadily upward and was never better than it has been the last two sea-sons.

From the above calculation, which is approximately correct, it will be seen that less than one-third the profit is secured when hatching and rearing with hens, that might be secured by the use of incubators and brooders

Farmers' Institute Meetings

Supplementary and Regular Meetings for November and December Delegates and their Subjects

Division 1—C. W. Nash, 94 Lee Avenue, Toronto: "Chemistry of the Soil," How Plants Grow," Breeding of Domestic, Animals," "The Value of Our Birds," The Enemies of the Wheat Plant," "Our Insect Pests," "Nature About the Farm," "The Enemies of the About the Farm, "The Enemies of the Pea Crop and how to Deal with Them." L. E. Annis, Scarboro: "Corn and t. Silo," "Dairying for Profit," "Cultivation of the Soil," "Seeds and Seeding." "Field Roots."

Evening subjects—"Our Country,"
"The Farm Home." Miss Agnes Smith, Hamilton: "Principles of Cooking, with Simple Demonstrations," "Food and its Relation to the Body." "Domestic Science," "The Sanitary Home," "Needs Science," "The Sanitary Home," "Needs of the Home of the Present Day," "The Labor Problems of the Household."

Labor Problems of the Household."
Meetings—Armow, Nov. 25; Glamis,
Nov. 26; Pinkerton, Nov. 27; Paisley,
Nov. 28, Chesley, Nov. 30; Desboro,
Dec. 1; Chatsworth, Dec. 2; Kilsyth,
Dec. 2; Annan, Dec. 3; Leith, Dec. 3;
Bognor, Dec. 4; Snyder's Schoolhouse, Dec. 5.

DIVISION 2—Dr. Henry G. Reed Georgetown: "The Foundation Princi-ples of Successful Stock Breeding." Georgetown: The Foundation of Policy of Successful Stock Breeding,"
"The Modern Harness and Saddle Horses, and How to Breed Them,"
"The Relation which exists between Improper Feeding and Disease," "Management of Dairy Cattle, with the View of Freventing Disease." J. H. Smith, Langbank. "Feeds and Feeding," "Clover," "Weeds," "Good Seed," "From Cattle Plant," ver," "Weeds Soil to Plant

Soil to Plant."
Evening subjects—"Choosing an Occupation, "Agricultural Education."
Meetings—Bluevale, Nov. 19; Fordwich, Nov. 20; Molesworth, Nov. 21; Ethel, Nov. 23; Walton, Nov. 24; Harlock, Nov. 25; Constance, Nov. 26; Manley's School House, Nov. 26; School House, Nov. 27; Mardie's School House, Nov. 28; St. Columba, Nov. 30; Londesborrough, Dec.
17; Belgrave, Dec.
17; Edgrave, Dec.
18; Holmerville, Dec.
18; Holmerville, Dec.

REGULAR MEETINGS

DIVISION 7—T. G. RAYDON, Rose Hall:
"I'ceds and Feeding" (Illustrated),
"I'low to build up a Darry Herd or
Flock," "Soiling Stock," "Dairying as
it applies to the Producer, "Some Common Diseases affecting Stock," "The
Flant and the Soil," "Bow omportant
One of the Soil of the Soil of the Concutter of Pork," "The Uses of Concrete."

Evening subjects—"Mistakes in Farm g," "Agricultural Development," "Ou

Country and its Agricultural Possibilities." Miss Bella Millar, Guelph: "Some Practical Hints in Home Nursing and Emergencies" (Illustrated), "Women's Institutes; Past, Present and Future," "Gleanings and Housecleanings," "A Pound of Butter," "The Farm End of the Dairy Business."

End of the Darry Business."

Meetings-Shelburne, Nov. 21; Camilla, Nov. 23; Inglewood, Nov. 24;
Streetsville, Nov. 25; Woodbridge, Nov.
26; Weston, Nov. 27; York Mills, Nov.
28; Agincourt, Nov. 30; Millbrook,
Dec. 1; Bethany, Dec. 2; Blackstock,
Dec. 3; Whitby, Dec. 4; Columbus,

DIVISION 8—T. H. Mason, Stafford-ville: "The Hog as a Money-Maker, "Care and Feed for Dairy Cattle," "Growing Corn for Grain nad Silage," "Butter Making, "Red Clover," Butter Maki Sheep Raising

"Sheep Raising."
Evening subjects—"Changing Conditions in Canadian Agriculture." Miss Laura Rose, Guelph: "The Production and Care of Milk," "Butter Making on the Farm," "Defects in Butter—Their Cause and Remedy," "The Making of Pread and Buns," "How Making of Bread and Buns," "How Making of Content of the Town," "A Rolling Stone Gathers no Moss."

Meeting, Goddoned, Nowa, Berger, Goddon

Meetings-Goodwood, Nov. 20; Bre-Meetings—Goodwood, Nov. 20; Brechin, Nov. 21; Lindsay, Nov. 23; Oak-wood, Nov. 24; Fenelon Falls, Nov, 25; Bobcaygeon, Nov. 26; Peterboro, (aft.) Nov. 27; North Monaghan, (eve.) Nov. Nov. 27; North Monaghan, (eve.) Nov. 27; Lakefield, Nov. 28; Norwood, Nov. 30; Keene, Dec. 4; Warkworth, Dec. 2; Menie, Dec. 3; Ctirling, Dec. 4; Madoc. Dec. 5

Division 9—Major James Sheppard, Queenston: "Macadam Roads; Their Cost and Construction," "Care and Improvement of Common Country Roads," "Planting and Care of Orchards," "Propagating Fruit, Grafting, Budding, etc., Tomatoes, and How to Market Them.

Evening subjects -Evening subjects — "Transportation it affects the Farmers," "Three Hisas it affects the Farmers," "Three His-toric Days on the Niagara River." Charles E. Shearer, Vittoria: "Breed-ing and Feeding the Dairy Cow," "The Cream Separator and Home Butter-making." "Growing Roots," "Corn, Silo and Ensilage." Evening subject.—"The Fession" a Home, "Farming as a Pro-Fession" a Home, "Farming as a Profession

Meetings-Bowmanville, (aft.) Nov. Meetings—Bowmanville, (att.) Nov. 24; Courtice, (eve.) Nov. 24; Orono, (aft.) Nov. 25; Newcastle, (eve.) Nov. 25; Coldsprings, Nov. 26; Grafton, Nov. 27; Frankford, Nov. 28; Wallbridge,

Nov. 30; Cannifton, Dec. 1; Marysville, Dec. 2; Newburg, Dec. 3; Centreville, Dec. 4.

Division 10—W. S. Fraser, Bradford: Corn Growing," "Soil Cultiva-tion," "Clovers; their use and how to handle," "Underdraining," "The Hog," "Management of Sheep," Weeds on our Farms "Fodder Crops ((illustra-(illustrated) ted), "Fodder Crops (illustrated). Evening subjects—"Farm Life," "What Farmers Need," he Home Dairy," W. C. Shearer, Bright: "Corn and the Silo," "Improving and Maintaining a Dairy Herd," "Breeding and Feeding Hogs for Profit," "Benefits of Solling Cows in Summer." Evening subjects—"Making Prize Butter," "Poultry," Benefits Evening subject "Poultry, -"Making Prize Butter," "P "The Advantages of Farm Life."

Meetings—Napanee, Nov. 23; Odessa, Nov. 24; Emerald, Nov. 25; Stella, Nov. 26; Elginburg, Nov. 27; Sydenham, Nov. 28; Mountain Grove, Nov. 30; Sharbot Lake, Dec. 1; Lansdowne, Dec. 2; Mallorytown, Dec. 3; Adison, Dec. 4. Newborn, Dec. 4. Newborn, Dec. 5. 4; Newboro, Dec. 5.

4; Newboro, Dec. 5.

"Sursisson 11-R. H. Field, Addison:
"Care and Growth of the Dairy, Cow."
"Profit in keeping a Dairy Herd," Corn and the Silo," Obertal Hints on the Baron, "Sursisson Hints on the Baron," "Some Noxious Weeds." Evering subjects—"Farming as an Occupation," "Observation," G. R. Cottrelle, Milton: "Poultry for Profit." "How to get Eggs in Winter," "Preparation for Market," "Poultry Houses," "Hatching and Raising, Chickens Naturally and Artificially."

Meetings—Vanklesk Hill Mo-

Meetings—Vankleek Hill, Nov. 23 and 24; Navan, Nov. 25; Casselman, Nov. 26; Moose Creek, Nov. 27; Monck-land, Nov. 28; Apple Hill, Nov. 20; North Lancaster, Dec. 1; Cornwall Cen-tr., Dec. 2; Moulimette, Dec. 3; North Williamsburg, Dec. 4; Brinston's, Cor-williamsburg, Dec. 4; Brinston's, Corner's, Dec. 5.

DIVISION 12-Duncan Anderson, Rugby: "Rotation of Crops," "Manure; its Care and Application," "Green Crops as Fertilizers," "Breeding of Heavy Horses," "Pork Production" Evening Horses," "Pork Production.
subject—"Farming as an Occupation."
Miss Blanche Maddock, Guelph: "Sci-Miss Blanche Maddock, Guelph: "Science of Butter Making," "Bread Making," "Our Women's Institutes; and how to make them Interesting," "A Talk on Digestion with simple demonstration in cooking," "Bacteria and some of their effects on the Home and Dairy," "Domestic Science," "Cultivation of Flowers."

Meetings—Killaloe, Nov. 23; Brudenell, Nov. 24; Foresters Mills, Nov. 25; Beachburg, Nov. 26; Carleton Place, Nov. 27; Richmond, Nov. 28; Smith*, Falls, Nov. 30; Perth, Dec. 1; Lanark, Dec. 2; North Gower, Dec. 3; Spencerville, Dec. 4; Matland, Dec. 5.

BEFORE going to the North-West in search of a Farm, it will pay to investigate the advantages offered by the free and cheap lands of

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QUESTIONS AND ANSWERS

WEANING PIGS

A subscriber in the West wishes to know how long pigs should be kept with the

sow before they are weaned.
It is generally considered advisable to keep young pigs with their mothers as long as possible, without injuring the health or strong condition of the sow. Some interesting experiments were conducted along this line a few years ago by a successful American hog raiser. These experiments showed that a sow and her pigs together will extract more nourishment from a given quantity of food than and pigs were weighed separately each week, and any loss or gain of the sow was deducted from or added to the incaessed weight of the pigs. The pigs were allowed to remain with the mother for ten weeks, then the same course of feeding was carried on with the pigs for seeding was carried on with the pigs for seven weaks. The sow and the pigs consumed on an average of 231 pounds of meal and 534 pounds of milk, making the same amount of increase. These results have the line of the pigs of the pigs of the seven weeks and the pigs consumed on an average of 231 pounds of meal and 534 pounds of milk, making the same amount of increase. These results have the pigs of the pigs of the pigs were allowed to remove the pigs consumed to the pigs of the p

However, some practical common sense and sound judgment are required in the matter of determining just when is the best time to wean pigs. The general rule is about ten weeks. But the breeder will have to be guided largely by his own conditions, the health of the mother, etc. By using care the little fellows can be taught to take a little food when quite young, which will conserve the mother's strength. The question is of some importance and swine raisers on the subject.

MEASURING HAY

Please give through the columns of your journal the correct rule for measuring clover and timothy hay in the mow when first put in, and also at different periods until fully settled.—O. G. R., Frontenac Co., Ont.
A ton of newly stored hay measures

A ton of newly stored hay measures 500 cubic feet, which is practically a cube, eight feet long, eight feet wide and eight feet deep. Hay that has been allowed to settle for some time is measured by allowing 422 feet to the ton, or a cube 7 1-2 feet wide and 7 1-2 feet wide and 7 1-2 feet deep. After the hay has become thoroughly settled 3,43 feet will make a ton or a cube having sides of seven feet. These figures, however, are only approximate, and that after all a good deal must be left to the judgar of the seven feet. These figures, however, are only approximate, and that after all a good deal must be left to the judgar of the seven feet. These figures, however, are only approximate, and that after all a good deal must be left to the judgar of the seven feet of the form of the seven feet to the seven feet of the seven feet to the seven feet of the seven feet to the seven feet of the seven feet of

COW NOT HOLDING HER MILK

I have a three-year-old cow that dropped-fer cial last March, and so far she has not been served again. She continially loses her milk, which keeps runging from her teats, even when she is (figaturing. Would you kindly advise a remedy?—C. A. M., Kent Co., N.S. A relaxation of the valve at the end of the teat is of frequent occurrence, and is committee were troublesome

A relaxation of the valve at the end of the teat is of frequent occurrence, and is sometimes very troublesome causing great loss to the dairyman. Animals badly affected are hardly worth keeping for dairy purposes, unless they have some special breeding properties. The milk can be kept from running out by a small elastic band 3-8 of an inch in width, put around the teat after each milking and kept on both night and day. Flexible colloding (to be had at every drug store) has also been used with

success. After milking, dry the end of the teat carefully and apply three or four layers of the collodion to the opening. If all the teats are defective each one must be treated. At milking time the layers of collodion have to be removed and new put on after the milking is over. This would mean a lot of troubble one we would advise dry valuble one we would advise drying her

DOES NOT BREED

I have a fine young cow, that I have bred some half a dozen times, but I cannot get her in calf. What can I do for her?—J. F. C.

Nothing much can be done for her. If the cow is very fat you might try reducing her condition by spare feed and exercise, then when in heat have a competent veterinarian open mouth of womb. But this does not always succeed.

SCOURS IN PIGS

What is good for scouring pigs when they are not old enough to eat for themselves?—M. A. G.

Usually when sucking pigs scour, the sow's milk is not agreeing with them. The sow's food, therefore, should be lessened and even slightly changed in character. Sour milk, mouldy grain or ped and the sow level of patter for a time. Sours may be sometimes stooped by feeding the sow several raw eggs daily and giving a raw egg to each pig. Where this is not found effective mix half a dram of dried sulphate of fron in the sow's food twice daily for two or three days.

OVER-HEATED COW

I have a cow that was driven when hot and she ran a good deal. She would breathe so as to be heard a good distance. We left her for a time and when we returned we found her lying down and shivering and jerking all over and could not get up.—E. J. K.

In case of this kind the first thing

In cases of this kind the first thing to do is to give a stimulant of some kind. A pint of whiskey, or two ounces each of aromatic spirits of ammonia and sweet spirits of ammonia, given hourly in water, as a drench until animal improves, will be good. At the same time the body should be showered with cold water from a sprinkling can and ice cold-packs put to the poll of the property of the cold water from a sprinkling can and ice cold-packs put to the poll of the property of the poll of the property of th

Killing Market Chickens

The method of killing the chicken by dislocating its neck is different from the old-fashinoed way of wringing or twisting the neck. When the chicken's neck is dislocated. And the head is pulled from the neck, the loose, unbroken skin of the neck forms a sack into which the blood of the chicken is as well drained of the chicken is as well drained of an axe: the market appearance of the chicken is improved by killing by dislocation; the flesh of the chicken is more juicy and edible. On the contrary, when chickens are killed by twisting the neck, death results mainly from strangulation. The body of the chicken is not freed from blood on account of there being no space in the neck into which the blood can flow. The appearance of the flesh of the chicken that has been killed by twisting its neck is reddish and blood can be plainly noted in it. In several cities in Canada a law is in force prohibiting the sale of chickens that are killed by twisting the neck.—F. C. Hare.

ABOUT RURAL LAW

In this column will be answered for any paid-up subscriber, freed charge, questions of law. Make your questions brief and to the point. This column is in charge of a competent lawyer, who will, from time to time, publish herein notes on current legal matters of interest to farmers. Address your communications to "Legal Column," The Farming World, Toronto.

FELL OFF A BRIDGE.

Q. I was crossing a bridge during a thunder storm late at night. The night was very dark and the lightning very vivid. Just as I got on the bridge a flash of lightning caused my horse to jump to one side, and his foot went into a gap in the logs of the bridge close to the edge, and there being no railing we were all upset into the river and I was injured. whis?—A. Sover damages from the township?—A. Sover damages from the town-

The season of th

RELIEF AGAINST MISTAKE.

Q. I entered into an agreement with A to sell him my sawmill for a certain price, but he was not to have certain of the machinery. We went to a conveyancer and had the agreement drawn up, telling him what it was and leaving it for him to have everything put in the agreement.



The Sugar Beet World

Devoted to Sugar Beet Culture in Canada

The New Sugar Mill at Ray-mont, Southern Alberta

Reference has from time to time been made in these columns to Southern Alberta as a promising field for the pro-duction of beet sugar, and more particuduction of beet sugar, and more particularly to the Raymond district where, under the management of Jesse Knight, the Utah millionaire, and his sons, the growing of sugar beets has passed beaund the experimental to the practical

manufacturing stage.

The town of Raymond is situated centre of an irrigation district. The is of great depth and fertility and is friable and easily worked. A great variety of crops including alfalfa, clovariety of crops including alfalfa, clo-ver and fall wheat are grown. Its ca-pabilities for beet production have been thoroughly tested and the promoters of the enterprise are entirely satisfied with the results obtained. The district is settled by Mormon colonists from Utah, who are skilled in the management of irrigated lands as well as in

growing sugar beets. The coal, lime and water problem have been satisfactorily settled. Mines some twenty miles distant supply coal of best quality at a low price. Lime is at present brought from Frank a distance of 110 miles and the necessary quantity of water is obtained from the

irrigation reservoirs.

The labor problem is likely to prove the greatest obstacle to success. The y of labor has been somewhat short of the requirements during the present season, though the area under crop is not one-half of what is looked for next year. The introduction of perfected machinery will, it is hoped, relieve the beet growers of their present difficul-

THE FACTORY

The factory itself is a half million dollar plant. Along with the necessary sheds and outbuildings it occupies an area of between four and five acres The main building is seventy by three hundred feet, and three stories high. It ed of steel and brick with metal roof and ed of steel and brick with metal roof and concrete floors. It is of fine design and appearance. In addition to the main building there is a boiler house two hundred feet long and beet sheds one hundred and twenty-five by three hun-dred feet. The sugar warehouse is fift- by one hundred and fifty feet and will accommodate two million pounds of sugar. There were employed in the construction of these buildings twentyfive cars of steel, fifty cars of machinery, fifty cars of lumber, one and one-quar-ter millions of brick and two thousand five hundred barrels of cement. In conjunction with the plant, there is a well equipped testing laboratory. Forty tons of coal and twenty tons of limetons of coal and twenty tons of lime-stone will be required daily when the factory is working at its full capacity of four hundred tons of beets per day. For a season of from sixty to eighty days the capacity of the factory ap-proaches ten million pounds of refined sugar. It is not expected, however, that the output for this season will be more than one-quarter of this amount, owing to the impossibility of getting a sufficient are of land in proper shape for beet cultivation this season, labor having been searce. having been scarce.

The constructing engineer, G. M. Bradwick, who has sole charge of the installation of the plant, states that he has never put up a more perfectly equip-ped mill or one that commences operations under more auspicious circum-stances. The season's manufacturing operations will shortly be commenced under charge of G. M. Hotchkiss, the

expert of the Dyer Company, who have expert of the Dyer Company, who have the contract for the erection of the mill. He will superintend the first runs of sugar until everything is in perfect working order.

Russia Gives In

It looks now as if Russia would give It looks now as it Russia would give her adhesion to the Brussels sugar con-vention. Domestic arrangements had respected her doing so previously. This vention. Domestic arrangements had prevented her doing so previously. This will complete the list and make the regulations of the Sugar Convention of Europe more workable.

Sugar Beet Culture

The co-operative sugar beet experi-mental work upon the farm of the Standard Cattle Company, at Ames, Ne-braska, during the season of 1902, was in part a continuation of previous work where conclusive results had not been obtained, and in part a test of me-thods of culture and combating disease thods of culture and combating disease that had not previously been under investigation. All the work was laid out with a view to solving problems in which the farmer or beet grower was particularly interested. As in previous years, the liberality of the Cattle Company made it possible to carry on the work on an extensive scale, and over zoo acres of selected land was used for the experiments. Most of the work was conducted upon what would commonly conducted upon what would commonly be termed a deep, friable loam, very uniform in physical character and fer-tility. This almost absolute uniformity of the soil upon the fields made it poswould ordinarily be admissible without danger of varying conditions.

In a test of twenty odd varities of su-gar beets, the results from home grown seed compared very favorably with those from the imported seed, which showed quite wide variations. The difference in this as well as in former tests seems to indicate that the quality of the seed is more important than the var-

An application of farmyard manure 22 tons per acre seemed to have no of 22 tons per acre seemed to have no effect upon the quality of the sugar beets, nor upon the yield per acre, but in the latter respect this year's results differ from those of previous years...

differ from those of previous years...

The use of salt as a fertilizer, if it had any effect, improved the quality of the beets produced but had no effect upon the susceptibility to disease. A comparison of early and late planting of sugar beets was decidedly in favor of early planting. A comparison of different depths of horse cultivation of sugar beets was in favor of rather deep cultivation. It should be remembered, however, that the season of 1902 was much wetter and cooler than normal. Experiments in previous years favored about three inches deep.

The yield of sugar beets was very con-siderably increased by deep hand-hoeing, when the beets were four to five inches high.

The presence of weeds in sugar beet fields very materially decreased the yield and sugar contents of the beets.

yield and sugar contents of the beets. Breaking off a part of the leaves of sugar beets at "laying by" time did not injuriously affect the yield or quality of the crop. Beets treated in this way were less affected by "leaf spot" dis-case than those not so treated. Continuing the cultivation of sugar beets after the leaves were full grown considerably increased the yield per acre—T. L. Lyon, Nebraska Experi-ment Station.

As a matter of fact, however, he only drew up an agreement for the sale of the mill and the price agreed on, and did not mention the machinery which was to be excepted from the contract. A has obexcepted from the contract. A has obme have the machinery, claiming that it was all sold to him under the written agreement and that nothing was excepted. 1. Can I compel him to de liver up this machinery to me? C. I. M.

A. I. Yours will be a hard case to prove as the writing will be presumed to contain the whole agreement. If you think, however, that you can prove that the agreement is as you say, and that the writing did not properly set it out owing to the mistake of the conveyancer, plan would be to bring an action to have it rectified on the ground of mistake, or to have it declared not binding on you.

HUSBAND RESPONSIBLE FOR GOODS SUP-PLIED TO HIS WINE

Q. I had been supporting A. s wife, who is a relative of mine, with his consent, and he was paying me for this. The wife after a time returned to her husband's home but was turned out of the house by him without cause, whereupon I again took charge of, and supported her. 1. Can I recover from the husband the am which I expend in this manner?—A. B. G.

A. I. Yes; the husband, by turning his wife out of the house, sent her forth as delegated agent to pledge his credit for the necessities of life suitable to her posisuitable to her posi tion, and you are therefore entitled to assert a claim against him for your expense in so supporting her.

UNREASONABLE DEMANDS ON APPRENTICE

Q. I am under twenty-one years of age I engaged with A as an apprentice. The apprenticeship articles provided that dur-ing the term of four years of three hundred and ten working days of ten hours each, I should give and devote to A, ten hours of each working day, or " such number of working hours as may be the regula-tion of the workshop for the time being or as special exigencies of the business may require." A is trying to make me may require. A is trying to make the work till eleven o'clock every night, from seven o'clock in the morning, without giving me any additional pay. 1. Can be compel me to do this, and can he come on my surety if I refuse?-B. C.

A. I. No. Such articles of appren-ticeship are unreasonable and cannot be enforced against you or your surety.

ORAL AGREEMENT AS TO BUILDING

ORAL AGREMENT AS TO BUILDINGS.
Q. I rented a farm from B. After I had taken possession under the lease, I agreed orally with B to erect at my own expense a rough-cast addition to a brick house on the farm, with the privilege of selling or removing this addition, I erected this addition, and afterwards transferred my interest to C. A subsequently sold the farm to D subject to the lease which was assigned to C. C being about to sell and remove the addition, D seeks now to preven him from doing so claiming it as part of the farm. I. Is he entitled to do this.—G.H.J.
A. I. No. D is not only bound by the

No. D is not only bound by the A. 1. No. D is not only bound by the terms of the lease, but takes the farm subject to any other rights or equities existing between the original lessor and lessee, including the oral agreement to permit the removal of the addition."

Poultry and Pet Stock Show

The eighth annual exhibition of poultry, pigeons, cats, dogs and pet stock, under the auspices of the National Fanciers' and Breeders' Association will be held at Breeders' Association will be held at Chicago on Jan. 25-30, 1904. Sharp Butterfield, of London, Ont., will be one of the judges. Excursion rates will be given on all railways. For particulars write Fred. L. Kinney, 315 Dearborn Street, Chicago.

FINANCE ON THE FARM

Trust Companies

A few years ago it would have been considered highly improbable that any man would entrust the administration of his affairs after his death to a joint stock company. The office of executor was looked upon as of an essentially personal character which one's most friend should be asked to undertake. might be an elderly man and unlikely to live to complete the administration. He might lack business training, be entirely unfamiliar with the duties of an executor or incompetent in other respects. Neverhis friend's business interests, sell property, pay his debts, invest the pro-ceeds, provide for the family and in due course distribute the estate. Much suffering and loss have resulted from the work such executors

It is now becoming generally recognized It is now becoming generally recognized that an organized company whose re-sponsibility is assured by its capital stock, which possesses a board of directors of high standing and trained staff of officers is the proper medium for the administration of trust of all kinds. Such a company of trust of all kinds. Such a company brings to the performance of its duties knowledge and experience which in the very nature of the case few private execu-tors can possess. It is not subject to the vicissitudes of health, residence or business and having undertaken a trust will carry it out impartially.

The success which the local companies here are meeting with is not surprising.

Business in Farming

Business in Ferming
The business end of farming covers a wide field. It covers more than the mere buying and selling. Business interpretations are supported in the series of the series a farmer who listists that rules part of the farm work shall be done thoroughly. He is on the way to success. It was an old Scotchman who said, "Ye dinya ken how to plow in this country, ye only seratch the ground," and that is about what most of us farmers do; we scratch the ground.

It is good business, too, to use the harrow, not the old-fashioned V-shaped drag, but the harrow of up-to-date patdrag, but the narrow of up-to-date pat-tern. They can be bought cheaply and will do excellent service if properly used. It pays also to use only good, clean seed. It is the height of business folly to sow poor seed full of weeds. It will cost more to get rid of the weeds afterwards than would pay for good seed one hundred times over.

Ontario Veterinary College

The 1903-4 session of the Ontario Veterinary College opened on Oct. 16th. The attendance was larger than usual, and the registration of first-year students humbered between eighty and ninety. The attendance of students from the United States again shows a marked in-crease, and they are a very fine and bright looking lot of young fellows.

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A Legal Investment

The suspension of two Ontario Loan Companies has been responsible for a very natural anxiety with respect to such institutions generally. It is reassuring, however, that at no time has there been any suggestion of relaxed confidence in the old established mortgage companies; recent occurrences have rather emphasized their stability. The Canada Pernanent Mortgage Corporation, one of the largest in the Dominion, may almost be looked upon as a national institution. The financial condition of this company leaves nothing to be desired, and will easily satisfy the most timid. Their four per cent. debentures are a logal investment for trust funds, authorized by Act of the Legislature. These debentures are also a favorite investment of both Fire and Life Assurance Companies.

Quality in Poultry

A pullet that molts out well as a hen—that is, showing as good quality in color or plumage as when she was a pullet, is more valuable as a breeder than if she shows a falling off in quality, and if in her second year as a hen her good quality is retained her value is even greater as a breeder than the year before, as she has shown a power of retaining quality, that is a very desirable element to establish in any strain. The same is true of a male bird. Too many birds fall off in quality in their second year, showing a lack of "staying quality," and are not as desirable as breeders as birds shat visit their quality to a good old age. It is true that birds showing this trait do not always

prove good breeders, but the tendency is in the right direction and should be cultivated to as great an extent as possible.

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PURE-BRED STOCK

NOTES AND NEWS FROM THE BREEDERS

These columns are set apart exclusively for the use of breeders of pure-bred stock and poultry. Any information as to importations made, the sale and purchase of stock and the condition of herds and flocks that is not in the nature of an advertisement will be welcomed. Our desire is to make this the medium for conveying information as to the transfer of pure-bred animals and the condition of live stock throughout the country. The co-operation of all breeders is earnestly solicited in making this department as useful and as interesting as possible. The editor reserves the right to eliminate any matter that he may consider better suited to our advertising columns.

Andrew Elliott & Son, Galt, Ont., write: "We have a number of young boars that are grand specimens of the Tamworth breed. They are sired by Paymaster, a Blain bred boar, and from Ruberta, one of the beat breeding sows we ever owned. She has produced for us the meaning stuff. She produced for us the first and second prize sows under six months, the first and second prize barrows under six months, and also the second at the Provincial Winter Fair at Guelph, in 1902, in strong company.

We learn that Mr. Alexander Galbraith, who is a present on a visit to this country, has purchased from Messrs. A & W. Montgomery twenty Clydesdale stallions for exportation to the States. Mr. Galbraith is the most extensive importer of Clydesdales into America, but he has rarely, if ever, taken a bigger or a better to than this which he is to ship in the end is Baron Robeill, which woo second at the Edinburgh "Highland," and had in different seasons the premburs of the Mid-Calder, Kelso, and Linithgow districts.—Another of the most noted horses in the lot is Woodend Gartier, which was a champion at Strings, and had in different seasons Strings, and had in different seasons the premburs of the Mid-Calder, Kelso, and Linithgow districts.—Another of the most noted horses in the lot is Woodend Gartier, which was a champion at Strings, and had first prize as a three-year-old at Kilmarnock. Woodend Gartier, which was a champion at Strings, and the strings of the Rose of the Calder of the Calder of the Strings of the Rose of the Strings of the Roses, Primate, Prime Shapely, Sir Christopher, etc.

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How the Strings and the

During the period from July 31st of Sept. and, 1903, twenty-two cows were approved for the seven day records for the American Holstein Freisian Association. The highest record was made by a twelveyaar-old cow, commencing 15 days after calving. She gave 337,5 lbs. of milk, 15,000 lbs. of fat, and equivalent butter, 19 lbs. 8,0 oz. The lowest record was made by a helfer, 23 months old, commencing 22 days after calving. She gave 25.6.2 lbs. of milk, 7.414 lbs. of fat, equivalent to 8 lbs. 10.4 oz. of butter.

The Farming World Man on the Wing

Most of the Shorthorn breeders of Ontario attended Mr. John Bright's dispersion sale at Whitty, but there was a number who failed to put in an appearance. Their absence, but one of our best men deferred starting on a trip around the world in order to be there. He stayed to good purpose, and that is the way it ought to be.

around the world in order to be there. He stayed to good purpose, and that is the way it ought to be.

J. Vipond, Brooklin, Ont, is a farmer who, while not actively engaged in breeding pure-bred live stock, is a tleast a good example of the kind of farmer who knows the difference in rearing that kind from that of washing his time and

money on scrubs. Years ago he purchased an imported Chydesdale marte, and has a moround him today an agregation of her progeny that show all-round good quality, and worth treble the value of the same number of animals eligible to draught classes only. Among his younger stock is a fine 1-year stallion, by Royal Cairnton, that was a prize winner at Toronto Industrial, taking second place in his class. Those who of thing cannot begin any to soon. It does not cost much more to raise them than the other kind.

R. F. Duck & Son, Port Credit, Ont., are bending some of their spare energies to getting a bunch of bacon hogs in shape for the Fat Stock Show at Guelph. They are liable to do some scoring as usual.

Veterans in the sheep breeding business are C. and E. Woods, of Freeman, Ont. Their flock of Leicesters show a uniform good quality that should commend their offerings to prospective purchasers in that line.

chasers in that line.

J. Devitt and Sons, Freeman, Ont., are old and successful breeders of Clydesdale horses and Shorthorn cattle. On their well-kept farm are to be seen a number of animals of both classes that only require the fitting to make them strong competitors in any company. Several Clyde stallions, well known and highly thought of as sires in the neighborhood, and quite a number of grand mares and fillies are to be seen on their farm, the progeny of their imported Clyde mare, Belle, by old Good Hope. Nickle Steel, a five-year-old stallion by McPherson, dam Granders' Lady, herealt a dought and the finest finish, with grand limbs and feet. A full brother, George McPherson, is also of good form and fine action, and there are a number of fillies on the farm, all eligible for registration, any one of which would be a prize to the average small breeder. Messrs. Devitt have also a good herd of Shorthorns, being mostly bred from the best blood in the herd of W. G. Pettit and

The people of Burlington will soon have a Dairy Farm second to none. Mr. Chas. Aylwyn is fitting up the stables of his large barn in the most up-to-date manner possible for the accommodation of his large herd of dairy cattle. The barn, which is 120 feet long and 50 wide is a splendidly built one and the location is a very favorable one for the placing of the fine stable under it to the best possible advantage. Mr. Aylwyn's herd of dairy cows consists of a large number of pure-bred Ayrshires and a few grades of this and other, strains, all splendid dairy animals. Situated within a foreding immediate transit to the city of Hamilton, the facilities for supplying milk to the city are unsureassed.

of Hamilton, the facilities for supplying milk to the city are unsurpassed.

The late importation of Clydesdales by Mesers. Smith & Richardson looks more like a winner for them every day. The World Man on the Wing was quite surprised to see the way in which some of that company are turning out. Ardlethan Premier—agrit— is fully vindicating, the favorable opinione expressed regarding him by leading horsemen, at



OAT DUST 18 A GOOD SUBSTItute for Bran or Shorts, and is very much cheaper. We are offering Oat Dust, also other cattle and hog feeds, in oar loadeal low prices. Can ship By Grand Trunk or Canadian Paefife Railways. Write for

JAMES WILSON & SONS
FERGUS. - ONTARIO



67 Esplanade Street, Toronto, Canada





The Farming World stands firm for the improvement of every class of Live Stock in Canada, and for the financial betterment of every breeder. As such, it appeals to all thoughtful, progressive stockmen throughout the Dominion, and its advertising columns become a valuable directory of the best berds in Canada.

the Industrial Fair, is growing well and certainly developing into a horse that will make things warm for all comers in the future. Horses of his size, combined with his quality, soundness, style, action and spirit are not met with every day. Their three-year-old Lavender, who was such a close competitor for first honors in his class at Toronto still continues to improve also, and gives good promise of coming out in his four-year-old form with more faitsh and bloom than ever. Their other stock are all going into winter quaters in fine

shape.

J. G. Clark, of the Woodruff Dairy and Stock Farm, Ottawa, Ont., writes us this week stating that he has a number of real bargains to offer among his stock, as he will need their stabling room this winter. If you want to hear about anything good in Ayrshire cattle, Clydesdale horses, or Yorkshire swine drop him a line.

The Breeding Sow

It is commonly believed among breeders of live stock, that if sire and dam be equally well bred, the former has the greater influence on the conformation and the latter on the nervous temperament and feeding qualities of the progeny. Whether this be true or not care should be taken in selecting the females of the herd to choose only those of a quiet, contented temperament. Few things are more ex-asperating than a roving, noisy, discon-tented sow; not only is she a continual asperating times the tented sow; not only is she a continual menace to fences and gates, but she is cross at farrowing time, and is quite as likely as not to destroy half of her litter in the state of some fit of nervous excitement. tion to this, a sow of this description is seldom or never a good milker, and every stockman knows that the profit or loss on a batch of pigs is determined largely by the start they get in life during the first six or eight weeks. The milking qualities of the sow is a matter too often overlooked or ignored when selecting the females for a breeding herd. Many men seem to take it for granted that if they can get a sow to produce a large litter she will, as a matter of course, nourish them afterwards. This is a grave mistake. Sows vary in their milking propensities as widely as the cows in an unselected herd, Among cows in an unselected herd, Among pigs the ability to give a large flow of milk is more a family trait than a breed characteristic; that is to say, different families of the same breed differ more in this particular than do the different breeds, considered as a whole. It is, there fore, largely a matter of selection. A well formed udder is, of course, essential. There should not be fewer than twelve, better fourteen, well developed, evenly placed teats, extending well up to the fore-legs. The sow should be large and roomy, with great length and depth of side; she must, however, be trim and neat in her outlines, showing no tendency to bagginess or flabbiness, and though not wild or nervous she must be active in her movements. A heavy, listless, clumsy her movements. A heavy, listless, clumsy walk should not be tolerated in breeding stock of either sex; it indicates a lack of vital force; and an animal with this



DAVID McCRAE, Janefield, Guelph, Canada. Importer and Breeder of Galloway Cattle, Clydesdale Horses and Cotswold Sheep. Choice animals for sale.

LLOYD - JONES BROS. Proprietors BURFORD, Ont.

Proprietors

BURFORD, Ont.
Choice Shropshire lambs, either sex, from
our Mansell ram. A few ewes being bred to the
Tanner ram or Marauder. Prices right.

.. Woodroffe Dairy Stock Farm..

Six grand young buils still on hand will be sold cheap, if taken before winter.

SEND FOR CATALOGUE OF STOCK.

September Yorkshires ready for shipment.

J. 6. CLARK, Proprietor, OTTAWA, ONT.

Pleasant Valley Stock Farm Canadian.and Imported Shorthorn Cattle

Ben Lemond (mp.), a grand individual of the famous Kiliblean Beauty family heads the herd. A few choice young bulls, one imported in dam, also a number of imported and home bred cow and heffers, all ages, for sale. Write or visit the farm, one haif nile from Moffst Sts., C.P.R. GEO, AMOS, Prop., Moffat Sts. and P.O., Oat.

TAMWORTH SWINE

THE IDEAL BACON WOG
A snap for thirty days in young boars fit
for service, from prise-winning stock; also
young boars of September farrowing. Must be
sold to clear out and reduce stock. Write now.
Address,
ANDREW ELDIOTT & SON,
Galt P.O. and Sta.

ONTARIO VETERINARY COLLEGE, Ltd.

The most successful Veterinary Institution.

Prof. A. Smith, F.R.C.V.S., Principal,

Temperance St., Toronto, Can.

T. H. HASSARD, V.S.

DEALER IN

CLYDESDALE
COACH AND
STANDARD
BRED
STALLIONS
MILLBROOK, ONT.

YOUNG MEN, Become Independent
Our School case give you a Velerinary Course in single
English Sanguage, at least during five rooms of your upon
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characteristic is not likely to be so prepotent as one with a more active, sprightly temperament.

The brood sows should be selected from prolife families. A sow must raise a given number of pigs each year to pay expenses, and each additional pig represents a profit. There is, however, a limit to the number of pigs in a profitable litter; very large litters are apt to be weak and uneven in quality. Few sows can properly nourish more than fourteen pigs, and even a litter of from eight to twelve large, strong, lusty fellows is much more profitable than a litter of sixteen or eighteen weak, flabby, and ill-nourished pigs.

Horses for the Farmer The sale of one hundred heavy draft mares and geldings to be held at Grand's Repository on Monday. November of Interest and the sale of the

The Agricultural College Sale
A large quantity of good stock was
distributed throughout the country by
the public sale of pure-bred stock held
at the Ontario Agricultural College,
Guelph, on Oct. 21st. There was a fair
turn out of farmers, and all the stock
offered sold readily, though prices for
a number of lots were low. The Shorthorn buil, King Edward (Imp. in dam)
tilton sale last agring, told for only \$105.
The highest priced buil was College
Senator, hardly a year old, a neat, tidy
roan, a little small but well proportioned, the making of a fine stock buil.
He sold for \$155 to D. Talbot, Everton.
The Shorthorn females sold reasonably.
The cow Amanda and calf only bringing \$120. The Holteins sold much below there value. The yearling belief
in one year of 10,277 lbs. milk, \$25 has,
fat and 410 lbs butter, sold for only
\$30. The little to-months-old Jersey
Belvoir College Boy, was practically
given away at \$8, not the price of a
good grade pig. He was small, but not
a bad type, James McKennie, of Scotch
Block, got a bargain. A buyer of one
of the Holseins made \$25 on his purcollege growing. The sold best at \$127 ceach, to J. C. Mills, Preston,
Messre. Thes. Ingrams and F. Sprage,
of Guelph, were the austionness. The

SOME ARE FATTENING HOGS

ARNEFA

ARE YOU? The quicker you get an animal ready for the block the greater the profit. By using CARNEFAC you put as much flesh on a hog in two weeks as you can in three without it. This is one of hundreds of testimonials:

TESTIMONIAL

The Carnefac Stock Food Co., Lockerby Mills, Paisley, Ont., Aug. 12, 1903. Gentlemen,—Your Stock Food did me a good turn this spring. I saved the life of a brood sow with it. One died just before I got the food; another one took the same trouble. When I gave her your food she got all right in a few days. I also had some shoats that got stunted in the winter. I fed them some of your food; they picked up and did well, and I got them away when the markets were high and got about \$14.00 more than if I had kept them for another week. So you see I saved one life, got my pigs away when the markets were high, kept the rest of my pigs in good health, all with one pail of your stock food. Yours truly,

(Signed) Wm. Brown.

There is no magic about CARNEFAC. It is simply a medicinal food tonic. An animal fed with it digests and assimilates properly making flesh on what an animal not so fed wastes. dealers have it.

CARNEFAC STOCK FOOD CO., 65 Front St. East, Toronto

The Clayfield Stock Farm

J. C. ROSS, Prop.

Importer and Breeder OF HIGH CLASS STOCK

> Clydesdale Horses Shorthorn Cattle Cotswold Sheep

JARVIS.

FOR

Large White Yorkshires of different ages, imported and Canadian bred; also Imported and Canadian

bred Bulls, Cows and Heifers, write H. J. DAVIS, Woodstock, Ont.

LEICESTERS ONLY—Young Stock for sale from our imported Stock Rame on pure-bred eves of best strains. Write telling what you want and get our prices. C. & E. WOOD, Freeman P.O., Burlington Jot. Station, C.P.R. and G.T.R.

Langdon SHROPSHIRES

My Breeding Flock-consists of Imported Stock Only : : : :

We have this year imported more Ewes from leading English breeders. Now for sale: 8 Ram Lambs by Mansel

prize winners out of Imported Ewes.

-Apply-

E. LANGDON WILKS

Blair, Ontario

IMPORTED Clydesdales and Shorthorns

MESSRS, SMITH & RICHARDSON Columbus, Ont.

-Importers of-Clydesdale Horses and Shorthorn Cattle

Stations: Oshawa and Brooklin, G.T.R., Myrtle, C.P.R.

40 miles east of Toronto Long-distance telephone at Residence, near Columbus. Telegraph, Brooklin

MAPLE LODGE STOCK FARM

Scotch Shorthorns, Choice Milking Strains, Prize Winning Leicesters, Young Stock for sale-imported and home bred.

A. W. SMITH, Maple Lodge, P.O., Ont.

AYRSHIRES

A number of choice pure-bred bulls for sale, or will exchange on suitable terms for pure-bred or grade heifers of dairy

C. S. AYLWIN, Freeman P.O., Ont.

GRAHAM BROS..

CLAREMONT, ONT.

Canada's leading Horse Importers

Cludesdales and Backneus Stallions and Mares.

Farm one mile from station on C.P.R. Write for Catalogue.

following is a list of the sales: CATTLE

Shorthorn bulla-King Edward, W. J. Meads, Ceylon, \$105; College Conqueror, John Harvey, Londesboro, \$65; College Couley Couleye Conquest, John McKellar, Belmont, \$105; College Commander, John By College Senton, \$105; College Commander, John By College Senton, Talbot, Edward College Senton, Talbot, Edward College Senton, Talbot, Edward College Senton, Talbot, Standard Li and Calf, Joseph Akitt, Inglewood, \$120; College Queen III, R. Rennelson, Galt, \$85; Holstein-Friesian, females — Lacto Meg, D. McLeod, Guelph, \$30; Meg, D. McLeod, Guelph, \$30; Meg, D. McLod, H. Welch, \$35; Jersey bulls—Belvoir College Boy, J. McKenzie, Scotch Block, \$8.

McKenzie, Scotch Block, \$8. SWINE

SWINE

Yorkshire sows—J. Hill, Wellesley, \$16; W. W. Ballantyne, Stratford, \$26; George Elliott, Kirkwall, \$15; J. Mc-Kenzie, Scotch Block, \$24; W. J. Lee-Kenzie, \$25; G. & E. Thompson, Guelph, \$30; J. Winght, Marden, \$25; S. Young, Guelph, \$30; J. Winght, Marden, \$25; S. Young, Guelph, \$30; J. Winght, Marden, \$25; J. C. Flatt, \$23; D. Stewart, Hamstead, \$20; J. Richardson, Rockwood, \$15; M. Fanney, \$12; T. Little, Kirkwall, \$15; J. Richardson, Rockwood, \$15; W. Kennedy, Erin, \$11; P. T. McIntyre, Mount Forest, \$7; R. Anderson, Eden Mills, \$12. Tamworths, sows—A. McKilligan, Galt, \$7; W. Grills, Galt, \$5; R. Gibson, Galt, \$7; W. Grills, Galt, \$7; W. Grills

SHEEP Lejcester rams—G. & E. Thompson, \$0; W. Newton, Limehouse, \$0; W. T. Hambly, Drayton, \$0; P. T. McIntyre, Mount Forest, \$7; J. McKenzie, \$7. Shropshire rams—J. M. McKellar, Belmont, \$11; R. Rennelson, Galt, \$8; W. L. Gordon, Elora, \$9; S. Galbraith, \$12; M. L. Gordon, Elora, \$12; M. L. Gordon, Elora, \$12; M. L. Gordon, Elora, \$13; M. L. Gordo Orangeville, \$7.
Oxford rams—J. C. Mills, Preston, Minn., \$17; J. C. Mills, \$17.

The Provincial Winter Fair

We wish to draw the special attention of our readers to the announcement of the Provincial Winter Fair that appears in this issue. Since its establishment twenty years ago the Fair has grown to be an important factor to the live stock and the poultry industries. Being under the con-trol of the Department of Agriculture, and being directed by the Live Stock Associa-tions, all efforts are aimed toward the education of our farmers along the lines of improved and more economical methods of rearing and feeding farm stock. object can best be accomplished by an organization such as is operated at Guelph, where no material gain is realized by any person officially connected with the Show.

When one remembers, that of cattle, sheep and swine there are in Ontario sheep and swine there are in Ontario 6,000,000 head, valued at \$57,50,000,001 is can be readily understood how greatly the wealth of the country can be increased by producing animals of a higher general average value per head. This average way be improved by one or both of two two producing animals of the particular preparation of the country of the second, by obtaining the maximum growth or production at the minimum of cost. To intelligently discuss these questions w intelligently discuss these questions would require volumes, and cause more reading than the usually otherwise buss farmer has time for. Those who have attended the Fair in past years can testify to the practical and concise manner in which these topics are dealt with by the lecturers, who are able to emphasize their points by using animals and charts for illustrating purposes.

WANTED



Turkeys, Ducks, Chickens and Geese.

Empty crates forwarded on applica-Highest market prices paid. Correspondence solicited.

F.J. Offermann.

301 Broadway Buffalo, N. Y.

POULTRY WANTED

BURLINGTON CANNING CO., 11d. will pay the market prices for any quantity of dressed Turkeys, Ducks and Chickens. Write us for quotations or

Burlington Canning Co., Limited, Burlington P.O. and Station, G.T.R.

CHAMPION BERKSHIRE HERD OF CANADA (Headed by the 1000 lb.)

SILVER MEDAL

AND OTHER NOTED PRIZE BOARS

I was awarded the above honors, besides to other prizes, at the late Toronto Exhibition, other prizes, at the late Toronto Exhibition, different ages, was freely complimented on by the best judges, many of whom assured me such the test judges, many of whom assured me such the HEAV LIST HORGS on the rounds of ANY HIRER ID in almost every class, and at every ages, the HEAV LIST HORGS on the strength of the test o

A GOOD LINIMENT

For 80 cents a gallon can be ade as follows: Absorbine, Vinegar, Water, Saltpetre (powde

This combination will prove satisfactory and successful for curing Bruises Strains, Collar Galls, to toughen the shoulders for work horses; will reduce Swollen Ankles, Bad Tendons, and all kinds a liniment would be generally

ABSORBINE

red)
1 ounce

at the store, or send to the manufacturer.

W. F. YOUMG, P. B. K., SPRIMERILE, MASS.
Lyman Sons & Co., Montreal, Agents
who will send it prepaid upon receipt of 2/0 for
who will send it prepaid upon receipt of 2/0 for
there gailons of thin an about 18 k. will make
three gailons of thin and the free bookiet
giving formulas of Veterlary Remedies.



ROCK SALT for horses and cattle, in ton and car lots. Toronto salt Works, Toronto

Besides breeding and rearing, another very important question is that of marketing the finished products. While the high ss article always brings a good price, we cannot expect to at once revolutionize the live stock industry and produce animals all of individual merit. By carefully study-ing the demands of the most likely markets and catering to their wants, the serious consequences of over-production are largely forestalled. This subject is also carefully discussed by those who are devoting their time to the work. The classifications of the control of the fications in the prize list cover beef cattle, dairy cattle, sheep, swine, poultry, pet stock and dressed poultry, dressed car-casses of cattle, sheep and swine. The regular and special prizes offered amount to more than eight thousand dollars. Such generous prizes make it advantageous for breeders and feeders to put forth their best efforts and bring out their stock in the very pink of condition. The educational value of the exhibits alone is well worth the time and money necessary for a visit to the Fair.

Western Stocker Trade

Live Stock Commissioner Hodson re-orts the trade in stockers between the older provinces and the North-West Territories to be in a very unsatisfactory condition. Many who have been shipping young cattle to the North-West this season have been very much disappointed in the nave been very much disappointed in the prices realized. One reason for this is that finished cattle are selling at low prices in the west. It is stated on good authority that one of the largest ranches in Southern Alberta sold its entire output of three and four-year-old cattle at \$32.50 per head. Naturally, therefore, men who paid \$22 per head for yearlings two years ago and have sold them this season for about \$32 are not anxious to buy stockers this fall at anything like the prices prevailing for the last two or three years. Winter feed is scarcer than usual on the ranches this fall and many cattlemen have scarcely hay enough to carry their breeding stock nay enough to carry their breeding stock through the winter let alone keeping stockers over. Then a great many of the stockers sent out are of poor quality and totally unfit to make the finest quality of finished beef.

The ranchers have also discovered that they must be more careful in the selection of their bulls than heretofore, and Ontario breeders will do well to make a note of this. During recent years every bull-calf that was eligible for registration was saved with a view to selling him at some sort of price for the ranches; but the ranchers have discovered that they must pay more attention to quality and breed-ing, and that first class bulls are cheaper at a good price than registered scrubs as a gift. It is safe to predict that in a ver will not be possible to sell inferior bulls to the ranchers at any price.

A Correction

Mr. James Smiley, Inwood, Ont., writes: "Allow me to correct a statement made in your journal in regard to the filly J. M. in your journal in regard to the filty J. M. Gardhouse purchased from me. His sire is Barnstone Boy, owned by myself, and not Belshazer owned by Bawdon & McDonald, as you stated. This filly also won a silver mgdal valued at \$25, given by the Canadian Bank of Commerce, Sarnia, for the best coft under three years old, any age or breed."

The Growers' Convention

The Growers' Convention
The annual convention of the Ontario
Fruit Growers' Association will be held
at Leamington, Ont., on Nov. 24th, 25th
and 26th, Among the speakers will be
Prof. R. L. Tatt, of the Michigan Agricultural College, Dr. Mills and Prof.
All Andrew College, Dr. Mills and Prof.
James Fletcher, and W. Adount, Dr.
James Fletcher, and W. A. Rickard, M.P.F.,
Newcastle, Only Ottawa, ar Newcastle, and V

Dentonia Park Farm.

COLEMAN, P.O., - ONT

For Sale During the next six weeks, young animals of both sexes

JERSEYS, GUERNSEYS and AYRSHIRES

Our prizes won at Toronto and Ottawa this year give only a fair idea of the quality of the stock. Our prices are consistent with such quality. Correspondence solicited. Photo-graphs and full particulars will be sent on

THE FARMERS' EXCHANGE

One Cent a Word CASH WITH ORDER

Advertisements under this head one cent a word. Cash must decompany all orders. No display type or cuts allowed. Each initial and number counts as one word.

SALESMEN WANTED, to handle our Choice Specialties during fall and winter. Whole or part time. Pay weekly. Elegant outfit free. CAVERS BROS., Nurserymen, Galt, Ont.

SITUATION WANTED by young Canadian married man, family of three, youngest seven, on a first-class farm, where he could live handy and board himself; thoroughly experienced, capable of taking charge of farm, Apply BOX 777, FARMING WORLD.

MAN WANTED—who can milk and look after herd of dairy cows. \$300.00 per year, free house and fuel, etc., to right man. C. S. AYLWYN, Freeman P.O., Ont.

FOR SALE.—150 birds in Barred Rocks, Silver, Buff, White Wyandottes, White, Brown Leghorns, Silver Spangled Hamburgs, Pekin Rouen Ducks, Embden Geese. R. LAURIE. Wolverton.

EGGS, from choicest "utility" and "fancy strains, Brown Leghorns, Black Minorcas, Barred Rocks, White Wyandottes. Circular giving particulars free. JOHN B. PETFIT, Fruithand, Ont.

WANTED — Energetic, responsible nien to sell fruit trees, etc. Cauvassell fruit trees, etc. Cauvasneueta made for whole or part time. We also have a special line of seed potatoes never before offered for sale in Canada. For best terms apply NOW. FELHAM NURSERY COMPANY, Toronto, Ont.

SPLENDID 150 acre farm in the County of Norfolk, together with crops, stock and impie-ments, offered for sale to close estate. This is an unusual opportunity to secure a first-class farm in perfect condition, with stock, etc. For full particulars write to 8. G. HEAD, Broker, Brantford.

IF YOU KEEP Poultry, Pigeons, Rabbits, Dogs, Birds of Cats, ask for our new Catalogue, MORGAN'S INCURATOR WORKS, London,

SHORTHORNS—The beef and butter combination. Scotch collies from imported stock Write for particulars. H. C. GRAHAM, Alles Craig, Ont.

300 BUFF ORPINGTONS for sale, 75 year ling hens and 7 June cockerels to match at bargains, to make room. My 1936 chicks bred from imported stock are good, prices reasonable, satisfaction guaranteed. J. W. CLARK, Importer and breeder, Oncodaga, Ont.

Market Review and Forecast

The Trend of Markets - Supply and Demand-The Outlook

Toronto, Oct. 31, 1903. In wholesale circles the prospects for the winter and spring trades are looked upon as very encouraging. The recent cold weather has stimulated trade in winter goods. The volume of business being done is on the whole ahead of this a year ago, showing that things are brisk in the country. The stock mar-ket has improved and Canadian securi-ties are firmer. Money is a little quieter and some call loans are reported to have been made at 5 per cent., which is fully one-half per cent. below what was asked a fortnight ago.

WHEAT

The wheat situation continues in about the same condition as at previous writing. The war scare in the East and the estimated shortage of nearly 70,000, ooo bushels in the world's crop as noted elsewhere in this issue, caused a little flurry in speculative circles, but is without any permanent value to the market. The movement among farmers in the western states to hold their wheat for a rise, has had a little effect, as there has been less movement of wheat in the country. Aside from this the prospects for dollar wheat in the near future are not very bright. Besides, it must be remembered that over four months of the present cereal year have passed and so far comparatively little of the world's wheat crop of 1903 has been marketed, so that the bulk of it is yet to go forward. Canadian dealers complain that ward. Canadian dealers complain that prices here are from I to 2 cents too high to admit of a profitable export trade. This prevents a keen, active demand and makes everything depend upmand and makes everything depend up-on the local milling market, which is soon supplied if the wheat movement is large. Grain dealers here quote red and white bring 82½, goose 74 and spring 79 steady at 70, and spring steady at 73c. On Toronto farmers' market, red and white bring 82 1-2, goose 74 and spring 79 cents per bushel.

COARSE GRAINS

The market for coarse grains continues steady. Oats are more than hold tinues steady. Oats are more than holding their own considering the large crop
there is to dispose of. Prices here are
go 1-2 to 31c. for No. 1 white at outside
points. On Toronto farmers' market
oats bring 43/c. a bushel. Barley is a
climed to be dult an pees arruped
utotations. an appeas arruped
steady. In
the Western States recopts are reported fair with demand

POTATOES AND BEANS

POTATOES AND BEANS
Increasing signs of rot are shown in recent arrivals of potatoes. Really sound lots are few and far between and dealers are apprehensive of being able of beinging potatoes here from the Maritime Provinces. Good potatoes to be more plentiful in Quebec as supplies at Montreal have been liberal. Car lots on track are quoted here at 55 to 60 cents and about 55c. at Montreal. The bean market has a quieter tone. Car lots on track at Montreal are quoted at \$1.60 to \$1.60 t

EGGS AND POULTRY

EGGS AND POULTRY

Eggs are firm and priess maintain the high level of two weeks ago. Prices are now 1-2 counts higher than at this time the same of th

easier in tone at quotations. On Toronto Market chickens are selling at 7 to 8c. ducks, oc. : turkeys to to geese at 7/2c., all live weight. Dressed birds have sold at Montreal at 13 to 14c. Dressed dry picked, and 11 to 12c. for scalded turkeys; chickens, 11 to 12c.; ducks, 11 to 12c.; and geese, 8 to 10c., in case lots

HAY AND STRAW

HAY AND STRAW

Though there is little change to report in hay, things are, if anything, a little on the quiet side. Here there is a little more baled hay coming forward though prices remain at \$8 to \$8,0 for car lots on track, Toronto. The export market is quiet. At Quebe spoints asles market is quiet. At Quebe spoints also lots, fo.b. No. 1 timothy is quoted at Montreal at \$8,0 to \$5,00 in car lots. Montreal at \$0.50 to \$10.50 in car lots. The United States market is reported firm for Canadian hay

The market for straw rules quiet but steady at quotations

FRUIT

Large quantities of apples continue to arrive in Great Britain from Canada and the United States. Exporters are busy buying up all they can, which is keeping the local supply short. Packers Reeping the local supply short. Factors are paying farmers fairly good prices for apples. We heard of one packer who paid \$1.85 per bbl. for apples all for apples. We heard of who paid \$1.85 her bbl. for packed and ready to ship. (a dealer makes a lucky hit. Occasio One dealer is reported to have bought an orchard Toronto for the lump sum of \$450 near This orchard turned out 1,000 barrels, and of course the grower was sorry for his bargain. There is a great scarcity of barrels and a pretty stiff price is asked for them. They are hard to get in any quantities. This barrel famine, if it continues, may lessen export and increase the sunoily on the local market. The bulk of those offering here are wind-falls, which bring from \$1.35 to \$1.75 per bbl. Grapes still continue to come forward in large quantities and prices rule steady. The price varies according to quality from 22 to 27 to 27 to 25 to 31 to 31 to 35 to 45 to 1 to 27 to 27 to 28 to 31 to 31 to 31 to 31 to 32 to 31 This orchard turned out 1,000 barrels,

DAIRY PRODUCTS

The cheese market has fluctuated somewhat since our last report. About ten days ago there was a little rush on to fill orders, which run up prices con-siderably in the country. Since then things have cooled off somewhat and prices at the country are a shade lower than two weeks ago, the ruling figure this week being 10½c. with 10½c. bid in some places. Factory men are inclined to hold and most of the local markets report no sales. The milk supplies beginning to fall off markets report no sales. The milk sup-ply is beginning to fall off somewhat, and with the beginning of November many of the smaller factories may be closing down.

There has been considerable activity in creamery butter of late owing to a good demand both for export and for local trade. Stocks of creamery are said to be light. Dealers here complain of the scarcity of good dairy butter. The creamery butter is always of uniform quality and satisfactory to handle. Some go so far as to say that the quality of dairy butter is going back rather than improving. On Toronto farmers' market pound rolls sell at zo to 23c. each

LIVE STOCK

The live stock markets have ruled fairly steady the last ten days. The ruling feature of this week's trade has ruling feature of this week's trade has been the dullness of the market for both export and butchers' cattle excepting for the very best quality. The quality of the fat cattle offering shows some improve-ment over those offered for several weeks past. The best exporters at To-onto cattle market sell at about \$4.60 per onto cattle market sell at about \$4.60 per onto cattle market sell at about \$4.60 per cwt, and medium at \$4.95. Export bulls are worth from \$3.50 to \$4.25 per cwt. as to quality. Export cows are worth from \$3.40 to \$3.00 per cwt. Choice picked lots of butchers' cattle, 1,100 to 1.175 lbs. each, equal in quality to the best exporters, sell at \$4.25; good loads best exporters, sell at \$4.25; good loads at \$4, and other quality at from \$2.25 to \$3.75 per cwt. Good feeders, 1,000 to 1,150 lbs. each sell at \$3.20 to \$3.75, and feeding bulls for the distillery byres at \$2.50 to \$3.12 1-2 per cwt. In the stocker trade yearling steers. 400 to 700 lbs. each, sell for \$2.75 to \$3.20 to \$2.50 per cwt. Mich cows and springers are cwt. Mich cows and springers are cwt. Mich cows and springers are

The Canadian Produce Markets at a Glance

The highest quotations of prevailing prices for standard grades of farm produce in the leading markets on the dates named. Poorer stuff lower.

		Toronto		Montreal		St. John		Halifax		Winnipeg	
Date	31		30		24		24		26		
Wheat, per bushel	\$ 0	78	\$ 0	78	\$.		\$.		\$ 0	831/2	
Oats, per bushel		31		341/2		43		43		33	
Barley, per bushel		45		50		53		54		35	
Peas, per bushel		631/2		62 1/2		74		75	1 0		
Corn, per bushel		54 1/2		57		55		55			
Flour, per barrel	3	10	4	00	4	70	4	60	4	70	
Bran, per ton	17	00	16	50	21	00	21	50	17	00	
Shorts, per ton	19	00	19	00	23	00	23	50	19	00	
Potatoes, per bag		60		58	1	15	1	15	1	60	
Beans, per bushel	1	80		6234	1	95	2	00			
Hay, per ton	9	50	10	50	14	00	14	00	10	00	
Straw, per ton	5	00	6	00	8	00	8	00			
Eggs, per dozen	1	20		19		19		19		17	
Chickens, per pound, d.w		10		11	per	145		50	per i	10	
Ducks, per pound, d.w		1.1		11		155		55	16.	10	
Turkeys, per pound, d.w		13		14		14		14		11	
Geese, per pound, d.w		8		9		12		14	1	10	
Apples, per barrel	2	60	3	25	3	00	3	00	6	00	
Cheese, per pound		111/2		111		12	"	12		12	
Butter, creamery, per pound		22		21		22	1	22		18	
Butter, dairy, per pound	1	19		16		19	1	19		16	
Cattle, per cwt	4	60	4	25	4	75	4	75	3	25	i i
Sheep, per'cwt		50	3	37 1/2	4	00	4	00	4	00	
Hogs, per cwt	5	50	5	50	5	50	5	50	5	50	1.1
Veal Calves, per cwt	5	50	4	50	4	50	4	50			11
			1		1		1		1	-1 -1	

worth \$30 to \$60 each. Calves sell at from \$2 to \$10 each.

There is a better demand for lambs

There is a better demand for lambs and prices for these are higher at from \$3.75 to \$4.00 per cwt. Sheep rule at from \$3.40 to \$3.50 for ewes, and \$2.50 to \$2.75 per cwt. for bucks.

The hog market has not changed much since last writing. Prices remain steady at \$5.40 per cwt. for select bacon hogs not less than 150 nor more than

200 pour ounds each, and \$5.15 for lights

HORSES

Trade in horses has been fairly good of late, there being a very good demand for heavy general purpose horses weigh-ing about 1,400 lbs. These have sold at for heavy general purpose norses weighing about 1,400 lbs. These have sold at Grand's at from \$140 to \$187.50 each. The big sale of British Columbia ranch horses, consigned by C. H. Hadwin, sold fairly well. There were 100 in the lot and they sold at from \$15 to \$82.50 each, or an average of about \$37. The consignment of broken polo ponies from H. R. Middleton, Okotoks, Alta., sold Prices ranged from \$100 to \$450 Trade at the moment is a little each. quiet and will be so till winter sets in when a large number of horses will be required for the lumber camps

TORONTO JUNCTION

Tuesday is the big market day of the week at the new Union Stock Yards Last Tuesday there was a run of 79 cars Last Juesday there was a run of 79 cars. The bulk of the export cattle are sold on this market. The quality on Tuesday was fair to good with a few choice loads of exporters and butchers' cattle. Prices were lower for all kinds, espe-Prices were lower for all kinds, especially exporters. These sold at \$4.20 to \$4.65, with two extra choice lots bringing \$4.75 and \$4.85 per cwt. respectively. The bulk of exporters sold at \$4.25 to \$4.50 per cwt. Prices for other kinds \$4.50 per cwt. Prices for other kinds market, reported above

MARITIME MARKETS

Halifax, Oct. 26th, 1903 Trade at this point is very active. All produce dealers report a good demand and the fall movement of grocery lines exceeds that of last year. Apple shipand the fall movement of a speed when the fall movement are heavy, the Dominion Atlantic Railway having to borrow additional rolling stock to prevent a freight blocked as valley points. The trade outade at valley points. The trade out-look for winter is good excepting on the Atlantic Coast where the shortage in the fisheries is being felt by traders to some extent. The flour market consome extent. tinues very steady although jobbers re-port some of the Ontario mills disposed to shade their quotations of two weeks ago. Others are as firm as ever in their ideas. Manitoba flours are very firm would be still more so only jobber here secured a large stock jobber here secured a large stock of Ogglive's before the advance and which he has been selling below the price late-ly asked by the mills. Corn meal is lower since the drop in corn. There have been no cargoes of P. E. I. produce at this port so far but several vessels are expected to arrive the first of the week. There have been considerable po-trooss arriving by rail and steamer and tatoes arriving by rail and steamer and the price has ruled high, but this is no criterion of the market conditions when the vessels come to hand. The Nova the vessels come to hand. The Nova Scotia potato crop is almost over owing to the rot which has ruined all chances of further supplies of these coming on the market. In view of this prices are the market. In view of this prices are expected to be high and it is not likely that any Island cargoes will sell here that any Island Cargoes will sell here this season under 35 or 40 cents per bushel. Oats seem to be going higher as present prices are below the parity of the Ontario and United States markets.

In dairy produce there have been windern fluctuations. About two some weeks ago cheese began to weaken and makers were compelled to accept a full cent less than previous offers. Buying orders by cable followed which again sent prices up and just at the moment there is quite a scramble to get possession of September make. Butter is firm and in only moderate supply. Eggs have again advanced and are now jobbing here at 10 to 20 cents for straight gath ered stock

Feedstuffs are firm. The Halifax city council last week accepted the following tender for one year's supply, viz. Hay, \$13.00; oats, 43c.; straw, \$8; bran, \$21; middlings, \$22. This is below the present market quotations on carload

Codfish have advanced twenty cents per quintal, the summer catch of Bank hish now selling at \$5. Spring mackerel have advanced 50 cents per barrel and lots offering are speedily picked There is great scarcity of cod and her feature of the country market is the large quantity of venison which is much more plentiful than in former seasons and is sold at a low figure. Moose have been very abundant in Nova Scotia and New Brunswick and nearly all our local hunters have had little difficulty in securing two each which is all they lowed to shoot in one season under the Nova Scotia law. A number of United States sportsmen have been in the prod the revenue derived from license fees has been unusually large

Breeding Draft Horses

The demand for good, sound, heavy draft horses is as keen as ever and likely to continue so. Though automobiles ly to continue so. of various kinds have rapidly come into use in recent years, they have failed to drive out the horse for heavy draft work in the large cities. The great bulk of the automobiles licensed for use in the large cities are for pleasure and light transfer work. Motor cabs and carriages are perhaps less numerous than a couple of years ago. The largest than a couple of years ago. The largest concern using such conveyances for hire in Chicago failed not long ago, and similar failures have resulted elsewhere, even in Paris, France, where automobiles have been given a more thorough test than elsewhere. The question re-solves itself into this, that while motor power may to a considerable extent supply the place of the driver and light delivery horse, it is not likely to serfitable employment of heavy draft horses in the cities. The demand for horses in the lumber camps is as keen as ever in the lumber camps is as keen as ever and with the development in the North country following the building of the new Grand Trunk Pacific, this demand is likely to be greatly increased. The farmer, therefore, will run no risk in breeding good sound heavy horses, and the having the better the better. the heavier the better.

The draft horse of to-day is a some what different animal from the so-called draft horse of a few years ago. out is not considered so to-day. but is not considered so to-day. To enter the true draft class he must weigh 1,600 lbs. up and if he goes over 1,800 lbs. so much the better. It is not an uncommon thing to-day to find team, weighing two tons, or close to that weight. The draft horse of to-day is the heavy horse of draft blood. He can only come from intelligent maning to how. horse of draft blood. He can only come from intelligent mating to heavy draft stallions and mares and by per-sistent following of such work for a number of years. The average farmer is most suitably situated for this work. provided he is willing to undertake it in an intelligent and persistent way. m an intelligent and persistent way. Referring to this question of breeding draft horses, Prof. Alexander, of the Wisconsin Experiment Section. Wisconsin Experiment Station, says:
"It is more sensible and profitable to

start with heavy mares weighing at least 1,600 pounds and over and breed them to sound, deenly bred, pedigreed

stallions of the same blood used in the formation of the mares used. Three or four mares of such weight and blood, intelligently mated should lay the founintelligently mated should lay the foun-dation of a fortune for any farmer who will agree to properly feed, handle, break and finish the market product. Reject mares that do not come up to the standard of weight and soundness and seek here and there until suitable mares are found, not grudging to pay a good price for the right article. Given the mares, see to it that the stallions used are of like quality, the same breed and

absolutely sound.

absolutely sound.

"Starting with one breed stick to it
through thick and thin. If the market is
though thick and thin. If the market
is dull it will revive again. It will be
lost by depreciating the sale stock by
mixing breeds and so creating nondescripts. The purer in blood the grade
stock can be made the better it will sell. Given the right type to start with and properly handled it should improve in quality and value right along and the selling of one good team will make a market for the next if it is equally good This is better and safer business for the farmer to be engaged in than the production of trotters or even production of trotters or even carriage horses. The latter classes of horses are a greater lottery. They require more expert handling, are more difficult to produce, are easily blemished, less likely to give uniform returns year after carriage year. Draft horses on the other hand may be profitably worked on the farm Draft horses on the other hand The brood mare may work right up to foaling time safely if not jerked, over-wrought or strained. Her fillies may be bred at three years of age, have two foals and still go to market at five years, selling at a profit if not found to be just what is wanted as breeders. There is on the other hand little use for trotting bred mares at farm work and their progeny is profitable only when developed at great expense to make fast time on the track. Such developing takes too much time for the average farmer to spare and if he does spare it and go into the business he is apt to become a trotting horse enthusiast and such men are rarely successful small farmers. Compare draft horse breeding with or-Compare draft norse breeding with or-dinary horse production in rural dis-tricts. Ordinary productions command an ordinary price. For the average or-dinary farm horse, there is merely a lo-cal demand or the surplus if shipped is a drug on the market and brings an ordinary price. On the contrary the draft horse of full weight and superior qual-On the contrary the draft ity is something out of the ordinary, in demand, scarce and therefore valuable. We cannot foresee a time when there will be too many first class draft horses to command remunerative prices. There to command remunerative prices. There never has been a time in the last twenty years when ordinary, light weight horses of nondescript breeding have been much sought after and saleable at prices above a low average. There will always be a low average. There will always be a low average. The will always be a low average. The will always be a low average to the propose to the prop him should commence breeding the right class of draft horses and stick to the business persistently and earnestly."

Grotesque Frizzled Fowl

Frizzled fowls are the most grotesuge members of the poultry family. Their name is applied from the peculiar manner in which their feathers curve upward and backward at the ends, as if in defiance of nature's laws. This curville. ing is most conspicuous in the hackle and saddle feathers. As these birds vary in color, there is no rule for judgvary in color, there is no rule to judg-ing their plumage except that it must have the peculiar upward curve; any color is admissible. The combs may be either double or single. Frizzled fowls are reported to be hardy, and very early and good layers.

You are to be the Judge



A BARREL

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could not controlled a time to the could not controlled a postage, which I took
trail, I ordered a postage, which I took
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special controlled a time to the could not controlled a time.

I should not be controlled to the could not controlled a time.

I should not controlled to the could not controlled a time.

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TORONTO

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