

#### THE FARMING WORLD



Please Mention The Farming World when writing Advertisers.

Che Farming World Devoted to Country Life in Canada

J. W. WHEATON, B.A. - Editor

D. T. MCAINSH, Manager The Farving World is a paper for farmers and stockmen, deveted to country life in Cansus, published on the lat and life of Bubscription Price-One year, strictly in advance, staty outs: two years, strictly in advance, staty outs: two years, strictly in advance, staty outs:

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THE FARMING WORLD,

THE FARMING WORLD. 50 WELLINGTON STREET WEST. - TORONTO Eastern Agoncy of "Nor-West Farmer." Always mention The Farming World when answering advertisements. It will usually be an advantage to do so. -----

#### Coming Events

Shorthorn Directors, January 16,

1005. Western Dairy Convention, Strat-ford, Ont, January 17-19, 1905. Dominion Shorthorn Breeders' Meeting, Toronto, Ont., January 17,

Meeting, Toronto, Ont., January 17, 1905. New Brunswick Farmers' and Dairy-men's Association, Fredericton, January 25-27, 1905. Canadian Stallion Show, February 1-4, 1905. The following associa-tions will hold their annual meetings during show week: Harness Hunter and Saddle Horse Society; Shire Horse Breeders, Hackney Horse So-ciety, Cydesdale Horse Breeders, Canadian Horse-breeders' Association, Canadian Horse-breeders' Association, Canadian Horse-breeders' Association, Canadian Horse-breeders' Annual Meetings, Montreal, February, 1005. Holtein-Friesian meeting, Feb. 1st, 1903.

Nova Scotia Farmers' Association, Truro, N.S., Feb. 6-8, 1905. Horse Fair, Calgary, 3rd week of March, 1905.

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## PUBLISHER'S DESK

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Attention is called to the new book just issued, Poultry Feeding and Fat-

We will send it postpaid to any sub-scribers who send us two new subscrip-tions to THE FARMING WORLD. .18

Advertisers should get into line for our Annual Special Poultry number, which will be published on Feb. 1st, and which reaches all the important poultrymen in the Dominion. 36.

Do you read CANADIAN GOOD HOUSE-KEEPING? If not, ask us to send you a free sample copy. 3

We would call attention to the an-nouncement of Mr. Alfred Hall, in our Farmers' Exchange column this issue, This will be a great opportunity for anybody wishing to go into stockraising and dairying.

#### AND CANADIAN FARM AND HOME

#### Poland Chinas Wanted

We have several inquiries for Poland China boars from St. Joseph and Manitoulin Islands.

#### Farm Help

Mr. Robert Verity, an experienced farmer, is selecting farm help at his office, in Leeds, England, and sending out the class of men that farmers require. Any one wishing to procure help, single or married, for the coming season should apply at once to 65 Front St. East, Toronto.

#### The World's Champions

We are indebted to the Wilbur Stock Food Company for a copy of their book, "Blue Ribbor Prize Winners and Champions of the World's Live Stock." This is an interesting volume full of illustrations of famous champions of the big show rings of the world. Among them are several Canadian animals that have won distinction at International shows.

#### Feeding and Fattening Poultry Poultry Feeding and Fattening, by George B. Fiske. Morang & Co., 90 Wellington West Toronto. Price 50

cents.

As the title suggests, this book treats of a most practical subject. It is one thing to breed poultry but it is another thing to feed and fatten it properly for market. It is the latter subject which Mr. Fiske takes up in his admirable work. Not only is the reader given valuable information as to feeding and fattening poultry, but particulars of special finishing methods as practiced by American and foreign experts are given, and also advice as to the best fowh, etc. The illustrations are of a high order, many of them explanatory of the context. They are numerous as well.

This book should supply a long felt want among poultry raisers. It deals with the end of the business aboot which least is known, and gives the information in practical form. The book is bound in cloth, contains 160 pages, and at 50 cents is one of the best investments in books about poultry and the farm.

# About Field Crops

The Cereals in America, by Thomas F. Hunt, Professor of Agronomy in Cornell University. Morang & Co., 90 Wellington West, Toronto. Price \$1.75.

\$1.75. This is a most valuable work, in which every Canadian farmer should be interested. To produce large yields of good quality the farmer must not only know his soil and how to prepare it for the coming crop, but should have an inimate knowledge of the crop itself. This knowledge Prof. Hunt, who is well known to many Canadians, has arranged in convenient form, and in such shape that any farmer can grasp it. The chief cereals grown on this continent are dealt with. For example, wheat is taken up in the following order: Structure, composition, botanical relations, classification of varieties, culture of wheat, harvesting, uses of wheat, production and grades of wheat.

The book contains 420 pages; is well illustrated and should form a valuable addition to every farmer's library.

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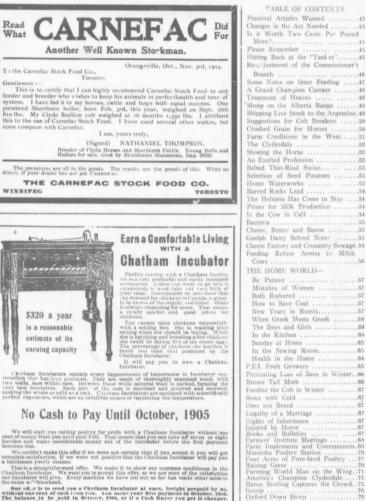
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Write us to-day for full particulars of our offer and mention this paper. aside for another time, as this special proposition may be withdrawn at any tim Don't put it

#### THE MANSON CAMPBELL CO., Limited Dept. 4 Chatham, Ont.

Manufacturers of Chatham Fanning Mills and Chatham Farm Scales Distributing Warehouses at Monireal, Que., Brandon, Mun., Calgary, Alta., New Westminster, B.C. Halifax, N.S. Factories at Chatham, Ont., and Detroit, Mich. 14

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please give the second copy to a non-subscriber.

# The Farming World

VOL. XXIV

#### TORONTO, 16 JANUARY, 1905

No. 2

#### Practical Articles Wanted

N OTHING is of more value to the reader of a farm journal than the practical experience of brother farmers. The experience of others will aid him in doing his own work better. To encourage more farmers to send in their experiences or views we are prepared to pay liberally for any practical and original articles dealing with 4ive farm topics, which we publish. They should not be long, but brief and to the point. Any farmer of an evening can prepare such an article.

There are a number of topics upon which the practical experience of farmers would be timely just now, such as the winter feeding of horses, cattle, sheep and swine, handling manure in winter, feeding the bacon hog, winter butter, conveniences on the farm, soil cultivation, use of fertilizers, growing clover, the farm fence, stable ventilation, home waterworks, power on the farm, the wood lot, preparing for spring, up-todate barns, house plants, and any other subject that is of interest to farmers. Let us have a liberal response to this request. We are prepared to do our share if you will do yours,

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#### Changes in the Act Needed

During the past year Supt. Cowan has made a careful investigation of the work being carried on by the various agricultural and horticultural societies in Ontario, with a view to obtaining information that would be helpful in dealing with any changes that might be advisable in the Agricultural and Arts Act. In a comprehensive statement of the results of his investigations recently made public Mr. Cowan advances some very strong reasons why a change in the Act is urgently needed at the present time, and why some things should be done to improve the work being carried on by the majority of the district and township fairs of this province.

That important changes are required in the operation of this Act every unprejudiced agriculturist will agree. As at present constituted the act permits of an unjust distribution of the Government grants-a most serious grievance. Then there are many societies that are neglecting their agricultural departments and devoting too much attention to undesirable features, and a change in the Act is required in order to compel these societies to live up to the objects for which they receive grants of public money. There are also in many sections too many societies, resulting in inferior shows and a rivalry that is neither conducive to wholesome exhibitions nor to the moral elevation of the community. It is surely time that something were

done to remedy matters. In the face of

the information supplied by Mr. Cowan in regard to horse-racing, fakirs, and questionable attractions at many of the local fairs, there can be no excuse for further delay in changing the Act. Prompt and decisive measures are needed if the local fall fair is to fulfil its mission—that of advancing the agricultural interests of this country.

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#### Is It Worth Two Cests per lb. More?

At the Dairymen's Convention at Brockville, Mr. J. W. Mitchell, Superintendent of the Kingston Dairy School is credited with the statement that the very best butter made from gathered cream is worth about two cents per lb. less than the finest butter made at the whole milk separator creamery.

Although Mr. Mitchell is a painstak-

# PLEASE REMEMBER

That our annual pointry number will be issued on Feb. 1st next. Tell your neighbors and friends about it, and have them send in their names for a copy. If you have pointry or eggs for sale an anouncement in this special number will reach many buyers.

Duyers. On May 1st the annual dairy number of TRE FARALING WORLD will appear. Last year's dairy number was a most valuable one and received many flattering comments. We can promise that the one for 1906 will be equally as good, if not better.

good, if not octed, with the These special issues, with the Exhibition number in September, help to make TIME FARMING Wonth the best value in agricultural journalism in Canda today, Kindly see that your neighbor knows about it. Liberal premiums are given for new subscribers.

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ing, careful and conscientious dairy authority, we question his power to back up the foregoing statement. In fact, the burden of proof, if we have regard to the awards at the leading exhibitions, and the prices paid for the butter made on the cream gathered and separator creamery systems in this province is against it. Taking a period of several years back we venture the assertion that as many of the highest awards in the creamery classes at the Toronto Exhibition have gone to cream gathered butter as to butter made at the whole milk creamery. Moreover, we believe that if a record of the values obtained by the best whole milk and cream gathered creameries in Ontario were published there would be no such difference as two cents per lb. in the values which the former obtained over the latter. In fact, in many instances, it could be shown that cream gathered butter

has sold as high as butter made at the whole milk creamery.

However, we have no desire to advance one method of operating a creamery over another. If dairymen prefer to operate a whole milk creamery, by all means let them do so, as they will get good returns by so doing. But farmers have shown a marked preference for the cream gathered creamery in recent years and it would be idle to persuade them otherwise. This being the case the aim of the dairy teacher should be, not to decry the system, but to improve it as much as possible. If the same attention were given to instructing the farmer how to care for cream as is given to instructing him how to care for milk for the cheese factory, etc., there would be less complaint as to the quality of the product of the cream gathered creamery. As Mr. Ruddick stated at a dairy meeting not long ago, there is nothing inherent in the cream gathered system to prevent first-class butter from being made. It is the coming system and the sooner our dairy authorities realize this and endeavor to improve the system the better for the butter industry of this country.

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#### Hitting Back at the "Yankee"

Prof. W. J. Kennedy, of the Iowa Agricultural College, who is absent in Europe studying agricultural conditions, recently addressed a gathering at the Scottish National Fat Stock Club, Edinburgh, in which he apparently indulged in a little too much "Yankee Spread Eagleism" to suit the campy Scot. The North British Agriculturist's comment on the speaker and his address makes interesting reading. It says:

"His nationality is a trifle mixed, for although he is of our Scottish blood, he is a Canadian by birth and an American by location. But the Scottish and Canadian elements in his intellectual constitution appear to have been completely subordinated to the genuinely American spirit which has taken possesion of him since he shock the dust of Ontario off his feet, and settled down in lowa. His speech on Wednesday last was a time specimen of Spread Eagleism, the motio of Scotsmen was to "go one better" than the Scotsmeri, and while the Scottish breeders were rightly enough aiming at producing the best possible class of farm live stock, they were doing so for the glory of America, because the Americans came over and took away the cream of the Scottish cattle. In regard to that, one may well ask the Professor how much "cream" of that description have the Americanswhere else during the last two yaars. One could almost count on the fingers of one hand lite beedigreed cattle that the Americans have taken from Great Britain within the last two yaars. the few that they have taken gould hardby he warmanice to show a high analysis as "cream." As compared with Argentime, in the importation of the cream of "scottish cattle the Americans are simply "not in it." Besides, the Americans appear to be holding the cream of pedigreed stock at a very how rate just now, for at all the sales of pedigreed cattle in America within the last two years the prices obtained have been very low, and much under the prices ruling in this country. The Professor also told the Scottish breeders that the Americans unto only took the chery also took out the cream of Scottish breeders to adjudicate in the fat cattle classes at the Chicago International Exposition. He said they began by taking out Mr. Biggar to judge there two years ago: then they took out Col. Ferguson last year; and they had taken out for Moge at the first Scotsman taken out to judge at the Chicago International. The first Scotsman taken out to judge at the Chicago Chicranional. The first Scottish, there the scontrol above tak Hr. Jas. Pier, we Scottroras, an Encledy, where the 4500 enimes bull. Duke of Connanght, served his day, was by birth and training an Angus man, and he "calved" the original Ericathe grate fourtions in their craze

stock in this country. From all this it would seem that the Americans have not yet been able to "go one better" than Scotland has gone."

#### Readjustment of the Commissioner's Branch

Last week an order-in-council was signed providing for a division of the work of the Agricultural and Dairy Commissioner's Department following upon the resignation of Prof. Robertson. The live stock, dairy and seed divisions, which were formerly under his supervision, will have a special commissioner for each, who will be responsible only to the Minister of Agriculture.

The live stock department will be continued under Mr. F. W. Hodson's charge as commissioner. He will also have supervision over the poultry division. Mr. Hodson's work in the interest of Canadian live stock is so well known to the readers of THE FARMING WORL that any extended reference to it here is unnecessary. Suffice it to say, that since taking up work at Ottawa he has brought the live stock interests of all the provinces into closer touch with each other and been the medium becomes Seed Commissioner, with full charge of this branch, a position which he is very competent to fill. His work is not as well known to the readers of The FARNING WORD as that of the other two Commissioners, and a more extended reference to it here may not come amiss.

Mr. Clark is the son of a practical his early education was acquired. He entered the Ontario Agricultural College in 1896 and was graduated in 1898. after which he was on the staff of the experimental department of the College for two years, under Prof. Zavitz. In 1900 he went to Ottawa to take charge of the Macdonald Seed Grain Competition. This work brought him in touch with the farmers in all parts of Canada, and he saw the many difficulties they labored under because of impure and inferior seed. Upon Mr. Clark's recommendation a seed testing station was established in 1902. Since that date the work of the Seed Division has developed enormously. Hundreds of samples of seeds have been tested for purity and vitality, and many seed fairs have been



G. H. Clark, Seed Commissioner.

for pedigrees were wont to pay fabulous prices. The Profesora los gave a gloxing account of the great work that was being done for the advancement of agriculture at the American Colleyes, at each of which the students could be numbered by the thousand. But, although the Agricultural Colleges in America are most liberally supported by the American Government, and althic bulleting giving utility of the endcultural experimentic arrived out by the teaching staffs of these colleges, yet the fact remains that, according to the endergy of these colleges, set the fact remains that, according to the endergy of these colleges, set the fact remains that, according to the official statistics of both countries, the average yield per acr of wheat in America is only 13 bushels, while that of Great Britin is 29 bushels. And how would Professor Kennedy explain the fact that while America held for many years the premier place among the nations of the world as exporters of wheat, the land of the Siars and Stirves has now dropped to a fourth-rate place as their experiments in the crowith alfeeding of live stock in America, the Iowa College have deemed it advisable and necessary to send Professor Kennedy on a mission to the land of his ancestors to make an exhaustive study for the information of American agriculturists of the system of farming and of breeding, rearing, and feeding live



F. W. Holson, Live Stock Commissioner.

through which inter-provincial trade has been greatly extended. Mr. Hodson is just in the prime of life, with many years of usefulness before him.

Mr. J. A. Ruddick, for several years Chief of the Dairy Division, becomes Dairy Commissioner, and will have full control of that important branch under the Minister's direction. For this he is well fitted. Good judgment, skill and intelligence have been shown by him in his quarter of a century of dairy work in Canada. A couple of years sojourn in New Zealand, and an intimate knowledge of dairying as it is practiced in all the provinces of the Dominion, have given him an experience in matters pertaining to dairying that few men at his time of life possess. We are assured that under his direction progressive dairy work in Canada will not suffer. Like Mr. Hodson, Mr. Ruddick is just in the prime of life.

A new branch of work which has developed in recent years is that of the improvement of seeds. Mr. Geo. H. Clark has had charge of this work under Prof. Robertson's direction. He now



J. A. Ruddick, Dairy Commissioner.

held in the castern provinces. Mr. Clark is secretary of the Canadian Seed Growers' Association, and has charge of the records of the history of seed of wheat, onts, barley, maise, flax, millet, peas and beans, and also seed potatoes produced by its members.

There are several other important branches of work of the Argicultural Department, such as fruit, cold storage, and markets extension, with regard to which, no anouncement has yet been made. Cold storage and markets will probably come under the supervision of the Dairy Commissioner. The fruit growers have strongly opposed making the fruit division a branch of the Dairy Department, as was first proposed. What decision the Minister has come to on this point has not yet been made public.

Prof. Day continues his discussion upon the feeding of steers in this issue. It will bear careful reading.

Prof. Robertson, who retired from the position of Agricultural and Dairy Commissioner on Dec. 31st, was presented by the staff with a handsome ha'll clock.

## Some Notes on Steer Feeding

In a previous article, the question of selected steers for feeding was discuss-ed in a general way. In the present one, a few suggestions relative to feed-ing steers will be offered. Those who read the last article would

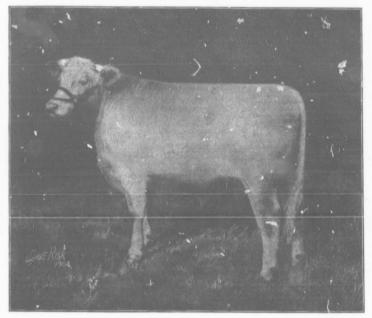
Inose who read the last article would probably be impressed with the fact that a very small error in judgment in purchasing would cause a loss, in place of a profit, to the feeder. If this is true in regard to selection, it is this is true in regard to selection, it is even more so in connection, with feed-ing. Errors in judgment in feeding cattie are extremely common, and result in a large financial loss to farmers every year. It is true that the most skilful

BY PROF. G. E. DAY, O.A.C., Guelph.

breeding, such steers will often give a good account of themselves. If the farmer has a field of rape into which to turn them, especially if there is a pasture field adjacent to it, these thin pasture field adjacent to it, these thin steers will make good gains on rape during September and October, and come into the stable in the best pos-sible condition for winter feeding. The main objection to this plan is the fact that feeding steers are often higher in price during August and September than they are later in the season. When they can be bought worth the money, however, the plan is a good one, for rape is not only a good food for steers, but it will also take the place of a thoroughly, and hence a serious waste is incurred. The probability is, also, that it will interfere with their subse-quent gains, and that the feeder will be disappointed in the gains made by his cattle when he sells them in the spring.

#### FEEDING THE MEAL

PERDING THE MEAL Long-keep steers are all the better to receive practically no meal during the first month they are in the stable, or, at most, merely a sprinkling of meal on their other food, say, between one and two pounds per day. Thus they become accustomed to meal, and the quantity may be gradually increased until, by the end of the second month, they may reach as high as four pounds each per day, should be made gradually, and the ea-tent to which it should be increased after



The yearling Shorthorn steer [Trout Creek Wanderer, 1st in his class at the Chicago International, 1904. Property of W. D. Flatt, Hamilton, Ont.

sionally, for no man is infallible in mat-ters pertaining to stock feeding. At the same time, there are certain general principles in connection with feeding steers with which it is well to be famisteers with which it is wen to be failh-liar, and from which it is not safe to depart. When the margin is so shall as it is as present, we must safe to every available ounce of of the foods we use, it was a profit upon our operatio

must be our watchword, and feeding means getting the areas gain in weight from a given amount of food.

#### LONG-KEEP STEERS

By long-keep steers is meant steers which, cn account of light weight or thin condition, have to be fed five or six months before they are ready for mar-ket. If they are young and of good summer fallow, so far as cleaning the

and of weeks is concerned. When the steers are taken into the stable, the greatest care is necessary to prevent bad effects from the change. Hard and fast rules cannot be laid down in connection with feeding animals of any kind, but the feeder must remember that these animals, fresh from the pas-ture, are used to bulky, succulent food, and he must make an effort to give them and he must make an effort to give them a ration approaching as closely as pos-sible to the one to which they are ac-customed. Some feeders, anxious for large gains in weight, commence feed-ing a heavy meal ration as soon as the steers are stabled. By doing so they are simply throwing away a large part of the meal they are feeding, for the steers, not being accustomed to con-centrated foods, do not digest the meal the point just mentioned, will depend upon the condition of the steers. As a rule, reasonably good long-keep steers can be finished for market by feeding, can be missive for market by zeeding, on an average, about half a pound of meal per day for every 100 pounds of their live weight. That is to say, if the average live weight of a steer for the whole feeding period is 1,200 pounds, the amount of meal required to fatter the amount of meal required to fatten him will average about 6 pounds per day. Of course, towards the close of the feeding period, it may be necessary to increase the meal ration to nearly a pound per day per 100 pounds of live weight, but since the ration was ex-tremely small at the beginning, and was daily ration will not exceed, to any considerable extent, the quantity stated considerable extent, the quantity stated. The feeder must ever bear in mind

that meal is the expensive part of the ration, and that the profits depend very largely upon the skill with which this important factor in fattening is handled. Light meal ratios to start with, and very gradual increase, are two general guides which should never be lost sight of in fattening cattle.

#### SILAGE AND ROOTS

The meal ration has been dealt with first because of its importance, but it is not by any means the only thing to be considered. It has already been stat-ed that the ration should at first be bulky and succulent. Roots or silag are of great value as a means of fur silage stages of feeding. A steer should re-ceive at least 30 pounds per day of roots, and a fair sized steer will take 50 or 60 pounds without injury. As to silage, there are many who believe that silage is good for dairy cows, but that it is of no use for faitening cattle. As in the case of roots, practice varies very much in regard to the quantity of silage used. Probably from 30 to 40 pounds per day is as much as it is advisable to feed a steer. The main objection to silage is fact that, occasionally, steers will found that will not eat it satisfacthe torily, but as a rule, they eat it readily, It is seldom that any difficulty will be experienced when the silage is mixed experiences when the snage is mixed with cut hay, cut straw, or chaff. As to the remainder of bulky food, chaff or cut out straw will answer very well for the first two or three months, after which it is better to add some cut hay to the witter. As the store there to the mixture. As the steers become fatter, it becomes important to stimufatter, it becomes important to stimu-late their appetite by striving to make the food as palatable as possible, and for this reason it is advisable to increase the proportion of hay in the mixture. If hay is available, it is as well to drop the straw or chaff entirely during the last six or eight weeks of feeding. The method of feeding described is feeding. The simulation wight are not large, but they are secured at low cost. In or ur experiments at the Agricultural

large, but they are secured at low cost. In our experiments at the Agricultural College we have obtained very much cheaper gains by this method than when we attempted to force steers from the start, and in some instances we secured just as large gains as we did under heavier feeding.

#### SHORT-KEEP STEERS

The same general principles apply in the case of short-keep steers as in the case of long-keep, with the exception that, since the short-keep steers are to be finished in three or four months. be anisated in three or tour months, it is necessary to increase the meal ra-tion more rapidly. Even in this case, it is easy to injure the steers very ser-ional by be feeding too heavy a meal ra-tion at the start. Three or four pounds of meal per day is a heavy enough ra-tion with which to start, and the increase should be gradual. In the course of a month, they may be nearly to their limit, though just what the limit should hund, hough just what the limit should be, depends upon circumstances. There are successful feeders who seldom ex-ceed half a pound of meal per day per hundred pounds weight of the steers. When it is required to have the steers inished by a certain time, it may be necessary to crowd a little, but when the meal ration approaches a pound per day meal ration approaches a pound per day per hundred vounds live weight, it is becoming very expensive. The amount of meal will also be influenced by the character of the bulky fodders used. If straw and chaff are fed, more meal will be necessary than when good hay is used, so that the quantity of meal must be left largely to the judgment of the feder. It is a fact, however, that a great deal of meal is wasted through over-feeding, and the feder must ever keep this fact clearly in mind. He must remember, also, that he is not dealing with machines, but with living creatures, and if he would feed to the lesst advantage, he must study his animals and strive to accommodate his methods to their individual require-

#### QUIET AND COMFORT

Small gains are sure to be the result, Sman gains are sure to be the result, if animals are not comfortable and contented. They must be freed from vermin at any cost. Persistent use of almost any of the standard sheep dips, will eventually destroy lice, but it requires several applications at intervals of seven or eight days. Noise, or rough handling should never be tolerated. man who cannot win the confidence of man who cannot win the confidence of the animals under his care, should never attempt to feed cattle. Clean mangers are essential to success. The steers should be fed only what they will eat up clean. To leave stale food in a manger with the object of compelling manger with the object of compelling the animal to cat it before receiving more, is a sure way of ruining a steer's appetite. If a steer should heave some of his food, it should be removed as soon as noticed, and a fresh start made with the next meal. Perhaps the ideal method of watering is to have water where they can drink at will. If roots are fed likerally, watering once a day is sufficient, otherwise twice a day is preferable. To turn steers out in a solid yard to drink ice water is not conducive to the best gains. to the best gains.

#### LOOSE OR TIED?

There is a difference of opion rearding the relative merits feeding steers loose or tied, and is no conclusive evidence in the y of experimental work to set the point. Good results can be obtained from both methods under skilful management, and it is largely a question of which method is mos. suitable for the conditions of each individual farmer. To feed loose, it is necessary to dehorm, and occasion-ally there will be found some sore heads from the operation, and this tells against getting the best results. There is no question, however, that in suitable sheds duction, however, that in suitable should be the steers are more comfortable when running loose than when tied, but in some experiments it would seem as though the extra exercise they took caused the consumption of more food caused the consumption of more room for a pound of gain, whereas other ex-periments show the reverse. Steers fed loose will ship somewhat better than those kept tied, and the method also gives a better quality of manure, though, as a rule, more straw is required. It is a question which each man must work out largely for himself, being guide?

#### KINDS OF MEAL

Corn is one of the very best single foods for fattening. It is better, how-ever, mixed with oats, or even bran, to improve its texture, as it is a heavy, close textured meal, that is not easily digested unless mixed with something lighten it.

Peas are also excellent, but not suit

Peas are also excellent, but not suit-able for feeding alone, being even heavier than corn, and requiring to be mixed with something more open in texture, such as oats or bran. Barley is usually counted somewhat "heating" and liable to cause skin troubles. When combined with other grains, however, it gives good results. Oats are not regarded as a fatten-ing food, but are easily digeted and are excellent for mixing with other grains. As a matter of fact, the greater the mixture of grains used for meal, the bet-ter the results.

the results.

The question of weight must never be lost sight of in feeding meal. Many men feed entirely by measure, and are

inclined to form their opinions of dif-ferent foods by the effects produced by equal measures, instead of by equal weights. A gallon of ground oats is a very different thing from a gallon of pea meal, and when feeding the lighter classes of meal, the bulk should be increased as compared with heavier kinds. If this point is not lost sight of the feeder will be surprised to find, after all, how little difference there is in the feeding value of differen, kinds of meal. A gallon of ground good results from almost any meal mixture, provided it is palatable. He must see to it that it is palatable, that it is mixed in such a way as to be di-

It is mixed in such a way as to be Gi-gestible, and that the guide as to quan-tily is *veright*, not measure. A good deal might be said in this connection, but space forbids. Feed-ing animals, as stated before, is a mat-ter of judgment, and the object of this paper is to stimulate the use of this essential faculty.

#### .58 A Grand Champion Carcase

Funk's Choice, a fifteen-sixteenths pure-bred Angus was the grand champ-ion over all competitors in the dressed carcase competition at the International. carcase competition at the international. He was thirty months old. He, with twenty-five others, was put into the feed lot on January 1, 1904. He was fed twice a day and allowed the range of a twenty-five acre pasture. This steer a twenty-five acre pasture. This steer was not halter broken till ten days be-fore the show, and at no time was he



picked out from the others for any special attention. He was not pampered or stall-fed, but was fed as thousands of other catile are fed on the Funk farms in central Illinois. He sold for \$15.00 per cwt., and dressed out as follows:

Live wt	. of	Funk	's (	the	лc	e.,	1,235 lbs.
Dressed	W	eight					824 lbs.
Per cer							
Weight	of	fat					107 lbs.
Weight							

#### 38 Treatment of Heaves

In all cases of heaves it is desirable In all cases of heaves it is desirable to change the ration for a time, and all water given the horse should be given before he eats. All food should be wet with lime water, and if con-siderable hay is used this should be well moistened before being fed. Use care in keeping the stall and manger iree from anything which will create dust, and have the stable well ven-tilated at all times. As a medicine give the horse one-half onnee doses of a solution of arsenic night and morning. This can

nair ounce doses of a solution of arsenic night and morning. This can be obtained at any drug store. An ordinary case of heaves will succumb to this treatment, but in bad cases add to the treatment advised ounce doses of glyco-heroin, given three times daily in the mouth, using a syringe. If the combined treatment syringe. If the combined treatment does not complete the cure the case

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## Sheep on the Alberta Range

#### I. MCCAIG.

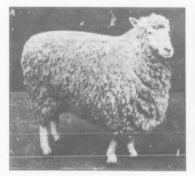
There is no doubt but that, measured ts fitness with respect to cli-soil and grass, Southern Alberta ite mate, should number a much larger sheep stock than it has at present. The total stock than it has at present. The total count is not above seventy-live thousand, and conditions generally favor the in-dustry. The land of the third prairie steppe in which Southern Alberta is situated is in most places rolling and dry and is covered with a good soil of mixed feed such as the buffale and bunch grasses, blue foint, while sage, in the counter are free from from Asia. or liver troubles. Enzootic troubles do not take hold easily and are easily stamp-ed out. The climate permits open air grazing throughout the year, which greatly reduces the cost of running sheep. If hay is put up it is only as a sneep. If hay is put up it is only as a safeguard against starvation in case of a tie-up during a spell of very bad weather or deep-crusted snow. It would no doubt be wiser to do more feeding. the expenditure of a little more

be an advantage; otherwise the sheep are better outside than in. A range lamb under ordinary conditions is no weaking and gets up and follows soon after drooped. It should be remembered that the natural thing for the lamb to do is to survive in the environment do is to survive in the environment native to its parents and so suited to it. Open lambing, if properly managed, is free from the confusion and fallh of the shed. Mature sheep do not suffer from severe wather, but there are some times losses from sheep being scattered in a storm and split up and worried by coyotes and wolves. If sheep bunch up or frequently if they are driven in a storm, they have and a goodinger is being driven over a cuthak in a storm smother. Another source of danger is being driven over a cutbank in a storm being driven over a cutbank in a storm and piled up in the deep snows accumu-lated there, and once the band is started over it is difficult to stop the rest from following. These are extreme cases, such as seldom occur, bud are all subject to good management and generalship on the part of the shepherd.

be good in a month or so, and touch the five cent mark or over by spring. The local market for it is proportion-ately larger than the local market for beef, in view of limited production. The nutton of the West is practically all Territorial, Manutoba has little and st

#### Shipping Live Stock to Argentina

Snipping Live Stock to Argentina For several months Mr. F. W. Hod-son, Live Stock Commissioner, Ottawa, has been investigating the possibilities of the Argentine Republic as a market of the Argentine Republic as a market for Canadian live stock. A good deal of information has been secured, and the time seems ripe for more active measures. If two or three leading Canmeasures. If two or three leading Cau-adian breeders were to visit Buenos Ayres, make themselves familiar with the conditions of the trade, and arrange for the handling of shipments by a trustworthy Canadan agent, there would seem to be little doubt of establishing a profitable market for our pure-bree cattle and sheep, particularly Short-horns and Lincolns.



Yearling Lincoln Ewe-Ist at Toronto, London, St. Louis and Chicago, 1904. Owned by J. T. Gibson, Denfield, Ont.

labor, ewes could be brought through in stronger condition, and quite a num-ber of weak late lambs of the previouber of weak late lambs of the previous year saved. In heavy snow, accompanied by hard frosts, little, late lambs cannot keep up on the coarse, poor feed that mature sheep can thrive on, their theces are light and they die of absolute cold. If they had a good quality of hay, with some oats, and little traveling except for three or four hours a day, they would repay the extra care. The weak lambs should be taken out of the bunch as they seem to need it and put back when they have gained strength avain. A little more care and labor would put the sheep business on a bet-ter hasis.

Would pit the sneep missiless on a vec-tive Marking bleed on the the bands with-out either hay or shelter except natural shelter. They have their lambs come about the first of May, and when the lambing season begins they just hold the eves in a sheltered valley or along the slopes of a sumny coulde with water along its little depressions. The ewes dropping lamba as the flock graze, stay lacks and they are bunched by the shep-move a little. If it comes snow or a very cold rain during lambing, lambing in the open will involve some loss. A tight-roofed shed and feed will then

The present season has been highly The present season has been highly favorable to slepierd's on the range. The spring losses are scarcely worth mentioning. The grass came early and there was no bad weather during lamb-ing time. The summer has been rather too dry, and it has affected the hay un-favorably by lessening the quantity of it from too quick ripening of it, and making it less substantial in quality. Hay will be a high price in the range country before spring. A wood deal has already had to be imported for town use by rail to sponlement the small local has already had to be imported for town use by rail to supplement the small local offerings, and the price of baled is now from \$11 to \$13 per ton. Grain will be equally dear. Owing to the drought the out crop in the southern part of Al-berta was rather light, and the price at the opening of the grain season was an easy forty cents per hundred above the opening prices for the past two years, prospective high cost of feed for prospective high cost of leed for the winter does not alter the fact that sheep men are prospering. In addition to the weather favoring their work, markets have been satisfactory. Wool went at 14 and a tenth cents this year, which is three or four cents this year, which is three or four cents above the ruling prices for the past four or five years. Mutton started well, but followed the sump in beef down to about the same price per pound. It will undoubtedly



Grade Wether, 1st Prize at London and 1st and Champion at 8t. Louis and Chicago, 1904. Weight, 250 lbs. at 18 months. Owned by J. T. Gibson, Denfield, Ont.

It is reported on good authority that 20 per cent. of the bulls sent from Great Britain are shauchterd in quarantine at Buenos Ayres for tuberculosis. Many that fail to pass the test in Britain are bought by speculators and heavily in-sured till after the test on arrival in South America, the rate of insurance being 25 per cent. Though the specula-tors are coining money, such methods cannot fail to create an unfavorable tors are coming money, such methods cannot fail to create an unfavorable impression, and if Canadian breeders will send only first-class animals that are sure to pass the tuberculin test they ought to win the confidence of the

#### HANDLING THE STOCK

HANDLING THE STORE The following interesting statement of how consignments of live stock are handled at Eurons Apres is furnished by Messrs. Bullrich & Co., the leading auctioneers of that city: We enclose herewith statement of all the concence to subidi live stock is sub-

We enclose herewith statement of all the expenses to which live stock is sub-jected after landing, which we should pay and charge in the account sales of the animals consigned to us sending net proceeds in draft at sight on any

#### WITH REGARD TO CATTLE

It is advisable to send only Short-horns, each consignment consisting of

THE FARMING WORLD

not over fifteen animals. The pre-ferred ages are: bulls, from two to ferred ages arc: buils, from two to three years; cows, from four to six years; heifers, from eichteen months to two years. Cows are preferred with calf at foot, and heifers served-if pos-sible only a short time before loading them—as it is not advisable to ship them when far advanced in pregnancy. All the cattle must be heavy-fleshed, blocky the cattle must be neavy-mession blocky and short-legged, of early maturing qualities, and roam, dark roam or red in color (the two colors last mentioned preferred). The best season for sale is from August to the middle of No-vember; at said time animals ought to be in our premises, so that prospective be in our premises, so that Hospective shippers will have to take into con-sideration the sea voyage of about one month, the forty days' quarantine, and ten days' exhibition in our yard hefore the sale. We do not advise sending

them out of season. them out of season. We enclose a list specifying all the documents required by our authorities -pedigrees and all documents required have to be legalized by the Argentine Consul at the port of loadinor—and in the case of Shorthorn pedierres they must be absolutely eligible for our herd must be absolutely engine for our nerg book; for this purpose it is necessary that the last male and female named in the pedigree, which may not show any interruption, have to be entered in the English or North American herd heads with date of hirth in or before book, with date of birth in or before the year 1850.

#### THE CHIEF BREEDS OF SHEEP

imported are pure-bred and pedigreed Lincolns and a few Merinos and Black Faces. It is not advisable to send horses and pigs on consignment for private sale or public auction, because our breeders order these animals almost exclus-

ively from the farms. The greatest risk importers have to face is the sanitary inspection (quaranface is the samtary inspection (quaran-tine, tuberculin test, etc.) to which im-ported stock is subjected, and it is, consequently, convenient and advisable consequently, convenient and avvisaue to insure the animals while in quar-antine, and if possible, cattle argainst the test, on your side. Quarantine lass as follows: cattle, 40 days; isores, 6 days. Finally, we beg to ent, on all the sales of hive note, is paid by the buyer, with the exception of poultry, for which we choose verybe per cent. Generation of the seles

charge twelve per cent., keeping in-cluded, to the seller.

#### EXPENSES.

At the landing stage or embarcadero :--Unloading, per head-

Cattle	\$2.00	currency
Horses	2.00	
Sheep	50	44
Pigs	50	
Each coop of poultry		.44
Feed, per head and	diem	
Cattle		44
		44
Horses	2.00	14
Sheep	40	
Figs		-01
Poultry (1 day quaran	-	
tine)		- (1

Entrance and crane fee per head-

Sheep and pigs ...... Halter, per head— Cattle and horses ..... .60 currency.

Clearing at the custom house :-

Stamps for clearing, \$1.00 for \$1,000, declared value.

Stamps for documents, etc., \$16.50. Fee of custom house broker, according to shipment.

Driving from landing stage pens to auction mart:

Cattle and horses, per head .....\$2.00 currency. Cattle and horses in bull

14

At the auction house .--

11	ced per	head	per	diem	
Cattle	and he	orses		\$2.00	currency.
Sheep				.50	11
Large	pigs .			.80	**
Small	pigs			.40	

Receiving animals and delivery at auc-

tion mart is gratis. One dollar Argentine currency is equivalent to 44 cents Canadian money.

DOCUMENTS REQUIRED BY CANADIAN GOVERN MENT

Certificate made out by the Minister of Agriculture and legalized by the Argentine Consul, showing that the catle plaque has not existed for ten years in the country from which they proceed: and that methan advent years in the country from which they proceed; and that neither pleuro-pneumonia nor foot-and-mouth disease has existed there during the last six months; as recards sheep it must be shown that no case of smallpox in sheep has occurred during six months; as regards horses a similar certificate in reference to glanders and lampas. Pro-vision is made for the inspection of ships bringing live stock, and for serversation and overcation, or destruction if they and quarantine, or destruction if they have the prescribed diseases of animals not found in perfect sanitary condition. The captain of any vessel with live stock on board, or the agents of the

respective steamship companies, must present on arrival of the steamer a list specifying the number, variety, sex, breed, owner and consignee of the ani mals, and the port and date of embark-ation. Besides there must be specified in the said list the number of animals that died during the voyage and the cause of death; there must also be presented a statement signed by the captain stating that the vessel has not loaded, during the thirty days before shipping during the thirty days before shipping the animals on board, any class of live stock in any country from which im-portation is prohibited by our authori-ties, that the vessel has not been in contact with prohibited countries after leading and has not called at any port of unbacture that the animal have loading and has not called at any port of such country, that the animals have not been in contact with any animal proceding from any prohibited country during the voyage, and that the remarks regarding the stock that died during the voyage are truthful. W. A. C.

#### Suggestions for Colt Breakers

As we usually have from ten to fifteen head of draft-bred horses, I will try to tell how they are broken. We always halter-break when young, and handle frequently until three years old, when their harness education commences. First, the colt is quietly harnessed in

the stall and left awhile to view him-

Then a strap is fastened on the end of the harness tugs, and the breaker stands behind the colt far enough to be out of reach of his heels and rubs him with the tug, as he would be rubbed when hitched.

We found this a good thing.

If the colt is going to kick in harness, e thus find it out before hitching. When he will stand around and behave nicely in the stall he is bridled, leaving the halter under the bridle. Next is the leading.

This is beside a well broken horse, also harnessed; the colt always on the

The halter strap is securely tied in the hame ring of the older horse, so the horse cannot break away.

The breaker mounts the older horse and leads the colt by a strap on his

We mostly hitch to a sled; the colt is still tied to the lead horse and the breaker dismounts.

One takes the lines and another leads the colt until he gets well started.

16 January, 1905.

We seldom have any trouble and soon have the colt driving nicely. We well remember one mettled, rather

nervous colt, that at first harnessing could not be induced to leave the stable until a quick move rattled the harness; then his conclusion to go was so sudden that no one went with him. Finding himself loose, his first gesture

was to jump over a twenty-foot bank, then canvass an acre lot at a gait that was wonderful.

He was soon captured and seemed to forget his caper, and made a good work horse of high order.

On the other extreme, a 1600-pound three-year-old paid no attention to har-

ness, or anything except feed. So much confidence had we in his sluggishness that his first trip was made to the land roller, to which he paid no more attention than had it not been

Their dispositions are like people's-no two exactly alike.-The Horseman.

#### Crushed Grain for Horses

The following suggestive remarks on the preparing of food for horses is taken from Hayes' book on stable man-agement, and will be found helpful to horsemen:

My experience in countries where the soaking in water of grain given as food for horses is generally adopted has contor noises is generally adopted has con-vinced me that this practice is hurtful to digestion, because it not only satur-ates the grain with water, but also facilitates the swallowing of the food before the grain has been fully masticated. Gram in India and corn in South Africa are the chief grains that are soaked in water before being given to horses. Both are best prepared by being broken and by being given dry with bran, chop, or, in the case of maise, with the cob cut up. Bruising is spec ially applicable to oats, as it increases the difficulty of swallowing this grain without thorough mastication, and by breaking its husk it exposes the interior of the grain to the full action of the digestive juices. Owing to the smooth-ness of the surface of almost all the grains given to horses, they can be much easily swallowed without being properly masticated when given whole than when bruised; hense the advis-ability of this process. If the horse was in a state of nature, the covering of the grain would oblige him to chew the ear, cob, or pod before he could swallow its contents. There can be no question as to the advantage of bruising pats and other grain for old horses, and for those whose chewing powers are impaired. Colin, however, maintains that in ordinary cases the bruis-ing of corn does not improve the di-gestibility of grain. Nevertheless we gestibility of grain. Nevertheless we find that, in the experiments from which he drew his conclusions, the period of mastication was 4% per cent. longer, and the amount of saliva secreted was 17 per cent. greater with bruised cats than with whole cats. I have found, especially in training racelorises, that horses do better on the former than on this catter tool. If ear then when on this catter of the stream when in this conclusion by the fact that, when such animals are fed on bruised oats, less husk is found in their dung than when they are given whole oats. Leav-ing oats out of the question, there is no doubt that the crushing or coarse grinding of many kinds of grain-corn and barley, for instance-greatly im-proves their digestibility and wholesomenes

The breaking or grinding of grain should be strictly limited to that which should be strictly limited to that while the strictly limited to that while the strictly limited to the strictly linited to the strictly limited to the strictly limited to th



First Prize Shearling Cotswold Ram at the World's Fair, St. Louis Owned by J. C. Ross, Jarvis, Oat.

# Farm Conditions in the West

#### FROM OUR WESTLEN CORRESPONDENT

THE HOLIDAY SEASON

Standing on the station platform almost any day during December at the time of the departure of the eastbound through trains one would think that the population of the prairies was of a migratory nature, flitting to milder climes at the approach of winter. The three month holiday excursions annualthree month holiday excursions annual-ly organized by the railroad companies have been more largely patronized than ever this season. This policy of the railroads, interested as they are in building up the country, is certainly a wise one, for several reasons; first, because there is no batter immirritien because there is no better immigration agent than the successful settler himself; of making the settlers thoroughly con-tented than by giving them an opporrented than by giving them an oppor-tunity of seeing the conditions others are living under, and lastly, but per-haps the most far-reaching benefit, is the excellent opportunity thus afforded for the curing of the "bachelor" evil. Year by year the settlers are becoming better able to afford a holday, and many who started with little or no capi-tal a few years ago are no v visiting the old homes in the east, and perhaps families of prairie born youngsters, the hope of Canada. This year a very large number have taken advantage of the excursion rates to the Pacific province, and not a few wheat growers who have grown wealthy have been lured away by the greenness

have been lured away by the greenness of distant pastures and the odor of fruit blossoms made so realistic in the advertisements of the land speculator. Manitoba and the Territories have, however, no reason to feel jealous if a few ever, no reason to feel jealous if a few of their sons act again on the advice of Horace Greely and "Go West." The success of fruit growing in Briths Columbia means the bringing of this lixury so much nearer the prairie set-iler, and the development of her great most necessary makedia bening of that most necessary makedia bening of the proper development of farm life on the plans.

A SPIRIT OF RESTLESSNESS AND "ITS CURE"

There is undoubtedly a prevailing no-tion that the crop of 1904 has not been a profitable one to the producer. Blame is being variously placed, but a deal of criticism is bestowed upon the grading of the wheat. Results, however, as tabulated by the several crop statistics tabulated by the several crop statistics do not show cause for much dissatisfac-tion. 'At the beginning of harvest great things were expected, crops looked like 40 bushels of one hard, but they did not pan out, and so there was disappoint-

In spite of the favorable reports is-sued by crop statisticians we farmers have a hard-up feeling. We have not made as much money out of the crop as we had hoped for. The estimate of the *Free Press* of 75 cents per bushed as the average price received by the farmer for his wheat seems too high. There is a lot of dissatisfaction in some the wheat, and the Grain Growers' Asso-ciations have a lot of work yet ahead of them. Referring again to the *Free Press* estimate, which has no doub been carefully compiled, 55,000,000 bush In spite of the favorable reports is-Press estimate, which has no doubt been carefully compiled, 55,000,000 bush-els of wheat at their estimate of 75 cents to the farmer equals forty-one and a quarter million of dollars of money created by the comparatively few far-mers of Manitoba and the Territories in wheat alone. Coarse grains not yet marketed to any great extent have been a fair crop, and hay and feed is plenti-ful. Land values too have tended steadily upward, but of course a man does not actually have any more cash in his pocket because the land he occupies has increased in value from \$15.00 to \$30.00 per acre. In the face of all these facts it does seem rather strange that money is so scarce and that we are all "hard-up," but it's reality all the same. Of course nearly all of us have been buying more land in order to secure enough for each of the boys before values get too high, and some who had borrowed money from the banks know they have been collecting very close this past year.

Speaking generally the districts mak-ing the least money out of this crop, owing to rust or other drawbacks, are among the oldest settled and usually most successful, and consequently where the settlers are best able to withstand a temporary check. The country as a whole is prosperous, and the outlook even more full of promise than ever before.

Any local discontent there may Any local discontent there may be can be attributed largely to the lack of home environment. Wheat growing does not tend to home building. The farm work is done with a rush in a mechanical sort of way, the only object being to get money and to get if quick. No permanency or settled plan of build-ing up the home life, or thought for the country's future. Such conditions breed a spirit of realtesmess. A change will most surgly come how:

A change will most surely come, how-ever, better buildings are being erected and the homes surrounded with more modern conveniences and comforts. Trees and shelter belts are being planttrees and shelter belts are being plant-ed, grass rotations are being introduced, fencing is coming more and more into favor and the more general introduction of live stock is bound to follow, and with it the whole situation will change and our people become a people of home builders.

GRAIN GROWERS' CONVENTION.

The Manitoba Grain Growers' Associ-The Manitoba Grain Growers' Associ-ation hold their annual meeting at Brandon on February 8 and 9. An excellent programme has been arranged, including addresses by Chief Grain In-spector Horri, Experimental Farm Su-perintendent Bedford: James Murray, of the Seed Grain Division, and Mr. Wm. Whyte, 2nd vice-president of the C.P.R. and others. This association has already a membership of over 3,500 and is accomplishing excellent work. and is accomplishing excellent work.

LIVE STOCK CONVENTIONS

In the Territories, where Dr. Elliot is proving himself a most efficient Com-missioner of Agriculture, plans are be-ing matured for an extended series of live stock judging institutes. A large number of local meetings are to be held and then to wind up the series and instruct and enthuse the workers fat stock shows are to be held at Regina and Calgary.

In Manitoba no Institute work has In Manitoba no Institute work has been done for the past year or so, but under the auspices of the provincial Live Stock Associations stock judging schools have been held at a number of central points. The meetings are to be held again this year about the end of February February

A NEW DEPUTY MINISTER OF AGRICULTURE

A NEW DEFUTY MINISTER OF AGRICULTURE According to press reports a change is being made in the Manitoba Depart-ment of Agriculture. Hugh McKellar, who has been Chief of the Department for 12 or 13 years, retiring and W. J. Black, B.S.A., receiving the appoint-ment of Deputy Minister, Mr. Black of the Former' Advocate in Win stars of the Former' Advocate in Win stars for a couple of years, is young, ener-getic and in many ways well qualified for the nosition. for the position.

Agricultural societies, farmers' in-stitutes and such like institutions will stitutes and such like institutions will not make much progress unless system-atically assisted. A vigorous campaign along this line of work is now in order and will doubtless receive the immediate

and will doubless receive the immediate attention of the new Deputy head of the Department of Arriculture. In the Torritories liberal assistance is being given to the Grain Growers' Association, the farmer' institutes, local fairs and live stock arsociations. Expert judges of live stock arsociating supplied to all local shows asking for them. Schools of stock judging are being us at all famerer' institutes, and Manitoba should not be behind.

#### The Clydesdales

'Mid the Belgians of beauty and the

Percherons of pride Percherons of pride There is nothing in the showyard that can match you, bonny Clyde, For you take me back in fancy to the Scottish Borderside.

And I see you in the stubble drawing cannily and slow With your strong neck arching double

to the hand you love and know, And a cloud of white behind you where the feeding sea-gulls go.

And you take me back in fancy to the things that I would learn To the long ploughs creaking over from the braeside to the burn,

To the flash of feathered fetlocks on the

To the flash of feathered fetlocks on the headlands when you turn. It is this that makes me watch you with a mingled joy and pride For if others step as highly still you take the biggest stride For you bridge the broad Atlantic to the bomy Bordreside!

WILL H. OGILVIE.

#### .5 Shoeing the Horse

The following timely hints on shoc-

The following imely hints on shoc-ing the hore are given in one of our exchanges by an American horseman; "Farmers should study their horses' feet, examine the hoods, and become acquainted with the sort of shoc that each animal demands. There is a diver-sity of opinion as to the manner in which a shoe should be placed on the horse's hoof. Some think that the frog should be placed on the ground and with the wall of the hoor should bear the weight of the horse; and there are others who believe that the frog should not be on a level with the surface of the shoe. There are good things to be said in favor of either method, but however they may differ on these two methods, there may differ on these two methods, there are certain salient points that constitute proper horseshoeing, and with which every farmer and horseman and every man who drives a horse should become

"It has been found that a heavy shoe, which keeps the frog from the ground. will wear out as soon as a light one will wear out as soon as a light one that allows the frog to touch the sur-face: that the heavy shoe is much more likely to come off and be lost, and that it greatly increases the labor of the horse in traveling. Light nails should always be used. They will hold the should always be used. They will hold the should always be used. They will hold the should always hours and the should always and the should always the should be always and the should always and hourse ones. As the above protects that heavy ones. As the shoe protects that part of the hoof which it covers, while the remainder is constantly wearing away, it becomes necessary to remove it occasionally, and by paring off the more rapidly growing part to bring the bring the different portions into their proper relative positions. Some horses need more frequent shoeing than others, but the average is once every four or five weeks, where the animal is continually on the road. Of course, where the horse is not worked constantly, it is not necesas not worked constantly, it is not neces-sary to have him shod as often as this. Neither the frog nor the sole should be removed, and the wall of the hoof should be cut away only enough to take off its surplus growth. The rasp should never be used on the wall of the foot, either for making a groove in which to sink the nail clinches, or for the purpose of improving the looks. The

purpose of improving the looks. The nails must not be too tightly driven, and in removing an old shoe, eare is needed to prevent injury to the foot. "In recent years patented and special-ly deviced shoes for horses with feet of peculiar forms, have come upon the market, and many of these are good. In this way horses that have suffered with foot diseases which were aggravated by the ordinary shoe, were given relief by these shoes of special patterns."

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#### An Exalted Profession

The farmer should feel proud of his profession, as it is one of the most useful and necessary occupa-tions. He does not sit on the ragged tions. He does not sit on the ragged edge of doubt as to the permanency of his position. No master has a mortgage on his labor or his products. He is a king among men and his home is the abode of contentment. He studies the laws of nature and de-rives maintenance from her bounteous stores. When times are hard and laborers are clamoring for work he has plenty of business to occupy his time. If the farmer commences with has plenty of business to occupy his time. If the farmer commences with small capital his investment is sure to increase, for the earth often re-wards the husbandman a hundred fold. The proper management of small undertakings leads to larger-divers about of the the farmer al-ways has a surplus to sell that makes him indenendent, even in strennous ways has a surplus to sell that makes him independent even in strenuous times. The farmer is the foundation of the commercial prosperity of the country.—Drovers' Journal.

#### 36

#### He Stopped the Paper

I've stopped my paper, yes I hev; I didn't like to do it, But the editor he got too smart And I allow he'll rue it.

I am e man as pays his debts, And I won't be insulted, So when an editor gits smart, I want to be consulted.

I took his paper 'leven years, An' helped him all I could, sir, An' when it comes to dunnin' me,

I didn't think he would, sir But that he did an' you kin bet

It made me hot as thunder, Says I, I'll stop that sheet, I will, If the cussed thing goes under!

I hunted up the measly whelp,

An' for his cunnin' caper, I paid them 'leven years an' quit! Yes, sir, I've stopped his paper.

Manson (Ia.) Democrat.

#### .18 In the Ring

"Would you like the date put in our engagement ring?" "By all means; and then, if there's

room, run in some little motto like 'Any port in a storm,' or 'A bird in the hand,' or something pretty libhand,' or something pretty like that, you know."

#### 38

"Faith, he's a moighty foine docter. He atended O'Pheelan whin he was sick av l' appindicoits. "Pode out yez tongue, he says: "bedad. O'I'll have th' opprate on ye, he says. "Divil a bit will O' be opprated on," says Pheelan. "Then ye'll be a dead man b' woo clock, 'he says. So he coorated." "An saved O'Pheelan's loife?" "An saved O'Pheelan's loife?" "He died at thray. "-Kansas City Tournel"

First Scot-What kin' o' mau is Mc-

Pherson? Second Scot—A gey queer kin' o' man. I went to his hoose and he askit me to tak some whuskey. When he began to poor it oot I said. "Stop! Stop! And he stonnit! That's the kin' o' man he is.—The Tattler.





A trio of Thin-rind or Hampshire hogs. Winners at St. Louis. Owned by John Goodwine, Jr., Potomac. Ill.

## Some Interesting Farm Topics

#### Belted Thin-Rind Swine

A breed of swine that was represented at the late International Show, at Chicago, was the old Hamphire, or belted Thin-Kinds, a breed that most people in Canada seem to have forgotten. The accompanying cut is an illustration of Originally breed in the County of Hampshire, Eng, they were one of the early breeds introduced into Canada, and as early as the year 1835 they were seen to be the second second second second they were appeal bree for some time. Imported to the west of the Alleghanics as early as 1836, into the the martially settied State of Kentucky, they were a great improvement on the common breeds of that country. The characteristics of the breed are a

The characteristics of the bred are a thick, low-ext conformation, a fine head with note of medium length, ears small and pointing slighth forward, shoulders deep and of medium width, ribs well sprung, with back of medium width, the whole being about equal width from shoulder to ham. The skin is fine, thin and smooth, the coat line and straight, running over the shoulder. They are claimed to be hardy, active, prolific, able to stand feeding without breaking down, and to be of docile, quiet disposition. When from five to six months of age they are said to be excellent for bacon purposes, and this claim was to some extent vindicated at the Chicago Exposition, 1900, when they won second prize foot bacon type and a log of the lard. dressed 500 per cent. meet and

A fine herd of these hogs were shown this year at the International, by Mr. John Goodwine, of Potomac, III., who besides these is also quite an extensive breeder of Shorthorn and Polled Durham cattle and several breeds of fowl, including Golden Seabright chickens and domesticated wild geese.

#### Selection of Seed Potatoes

The Illinois Experiment Station has recently issued some valuable information on the selection of seed in potato growing that is well worth considering. After dealing with the question of propagating new varieties the circular says: Leaving the question of originating new breeds from seed and artificially by the farminous varieties, the thing or the farminous varieties, the thing or the farminous varieties, the thing with the groatest care and then give it the best possible culture, by which we are satisfied he can easily double his cron and nerhaps treble or quadruple it. This may seem like drawing a long how, but we call their attention to the experience of Professor Girard, of France, who has probably culture than any other main. He has been experimenting eleven years with the idea of increasing the potato yield of France from an average of about 125 bushels per acre to the yield in

Saxony, where a common harvest is from 450 to 450 bushes per acre. He worked out rules of culture and emisted about 600 worthy co-operators who pledged thmeseives to follow his rules, and the results were that 231 of these 600 obtained erops of 450 bushes or more per acre in a year of prolonged drought. Our readers may, therefore, such results were obtained. We can only give them Professor's Girard's directions:

First, planning should be done as soon as it is practicable after the danger of bard frost is past; second, the ground should be heavily manured; third, the seed bed should be prepared to sixteen inches in depth and the ground well worked during the season, care being taken to keep the growing potatose covered; fourth, whole, medium sized tabers were planted mineteen inches apart in the row and the rows twentyfour inches apart; fifth, Bordeaux, mixand the crop allowed to grow until every portion of the vine was dead. How many of our readers will test this method, say on an acre or half an

How many of our readers will test this method, say on an acre or half an acre, next year, and thus determine the possibilities of potato growing on their soil?

soil? To show how little chance even a good variety has for success we were informed last spring that it was cheaper to buy seed potatoes in one of the best growing potato sections of Minnesota than it was to buy potatoes for the table; in other words, the farmers in that section sold their best potatoes and planted the poorest.

tion sold their best potatoes and planted the poorest. Then again, farmers are too stingy of seed and cut frequently to two eyes and perhaps one. We visited three years ago some of the best potato growers in England and Scotland. We found that they uniformly planted what they called "big seed" and often as high as twenty and even thirty bushels per acre. By "big seed" they mean a medium or over medium sized potato planted whole, cutting only the very largest potatoes in two.

We think Professor Girard's success, however, is due as much as anything else to the deep and thorough cultivation and heavy manuring. We saw a field of potatoes on Lord Rosebery's estate the yield of which was estimated when in full bloom at 600 bushels, per acre. The South papers reported the yield later as 860 bushels, and that on a large On very rich land, heavily manured hoth with barn yard manure and by commercial fertilizers selected by the chemist with reference to the wants of that particular field, and then planted with the very choicest whole seed and given thorough cultivation.

#### .st Home Waterworks

The new system of underground "air pressure" water tanks for farm and vil-

lages, promises to revolutionize that class of homes as much as did the wire fence telephones, as it gives to the farmers all the water privileges enjoyed by their city cousins. With a small outlay, from \$40 to \$140, everyone in the country may have water under pressure, i.e., for the bathroom, closet, kitchen, sink, stock water, lawn sprinkling, and last but not least, for fire protection.

(Hills, for me processon. The principle unvolved in this new luxary is as old as the "penstock" of 1346, by which our grandfahers conside to the watering trough at the house through hollow logs. The windmill or gasoline engine now takes the place of the hillside spring; iron ppes displace the wooden logs and the faucet holds the water in reserve until it is needed. Science has, however, added a new feature, viz, the until the artic spring to the watering trough as the spring to the unit of the the spring the spring time of the under science and the spring time of the spring is and the spring time of the spring is and the spring time of the spring is and the spring time of the spring trough and the spring time of the spring trough and the spring to the spring trough the spring trough and the spring trough the spring trough and the spring trough the spring trough the spring to the normal pressure of the levated tank. Again, from the under side of this iron boller, the water is taken in iron pipes underground below frost to the fire house to the top of the house. Any plumber, who can cut a thread or wipe a joint, is capable of this, and and unimited amount of this kind of aver, as every man who owns a windmill must spon set the advantage of this plan over that. The material and habor needed to carry the water a lundred jett from the windmill into the house should not cort over \$100. It consists of a on-inch galvanied ip poket bolk. A small one will atte only as noro holier of any size, the dimensions of which must depend upon the size of the poket-bolk. A small one will atte only as preferely as a larger one will, the only is that.



"When the wind blows" (not) "The waters will flow" (still.)

Supposing the windmill is in operation; a hundred feet of iron pipe should not control of the state of the should not capable of sustaining a hundred pounds per square inch, should not cost more than 346, and automatic cut off \$15, four faucets \$5, a steam water gauge to register the pressure \$10, the labor of digging should be but little and a plumber's time may cost \$12, making a total of \$100, which will add to the conventione and protection of the home more than a like amount excended in almost any other direction. There is no good reason why every windmill owner should not enjoy this luxury. At some later date 1 will explain how the hand force pund proposition will give a constant or the normal structure of the home or chamber to bar any one from enjoying this greaters D. SENTER. CLARENCE D. SENTER

#### Correspondence

#### Barred Rocks Lead

Editor THE FARMING WORLD:

My attention has been drawn to a any accention has been drawn to a statement in your report of the poultry exhibit at the Winter Fair, Guelph, in which you say that "the show of White Wyandottes was larger than that of any other single breed."

The following are some of the en-tries in the classes for varieties most largely represented at the show--Bar-red Rocks 151, White Rocks 148, Buï Orpingtons 129, White Wyandottes 128, S. C. White Leghorns 116, and S. C. Brown Leghorns 111

A. P. WESTERVELT, Sec. Parliament Buildings, Toronto, Ont.

#### .15

#### The Holstein Has Come to Stay

Editor THE FARMING WORLD: Twenty years ago the Holstein cow was practically unknown to the dairywas practically unknown to the dairy-men of Canada. The first arrivals in this country found the field already occupied for many years by the Ayr-shire, the Jersey and the Shorthorn grade. Every cry that ignorance and prejudice could devise was directed against the black-and-white milk ma-chines, but all without avail. Little but lithe negative as uproceed and by little prejudice was uprooted and farmers were induced to try the new breed. In nearly every case a trial was sufficient to convince a man that he was on the right track. The aver-age Canadian dairyman wants a cow that will give a good flow of milk of average quality, suitable for the cheese factory in summer and the creamery in winter, and yielding in the latter case plenty of skimmilk for the latter case plenty of skimmilk for feeding pigs and calves. The Hol-stein has proved that she can fill the bill to a nicety. Consequently, we find all the best dairy districts thickly dotted with grade Holsteins. Indeed, dairy instructors, who are in the best during the past scano of low prices the owners of black-and-whites were the only factory, astrong who made the only factory patrons who made any money at all. Economical milk production necessitates the use of the very best cows, and this means that the Holstein has come to stay.

the Holstein has come to stay. One of the most potent factors in bringing the Holstein cow to the attention of the practical farmer has been the public test. Probably three-fourths of all the honors in allow-ground dairy tests during the past ifteen years have been carried off by cows of this breed. At the present time the leading public test in Can-ada is that conducted at the Ontario Idolsteins have always stood remark-ably high in these Provincial com-petitions, and this year they made practically a clean sweep. The fol-lowing hist gives the records for ag hours of the best six cows in the show, everyone a pure-breed or grade show, everyone a pure-bred or grade Holstein:

		100	
Cow.	Lbs. milk.	Per ct.fat.	Points.
Pearl	127.14	3.65	140.64
Ianthe Jewel Mechthilde	. 118.15	3.95	140.20
Queen De Kol	. 105.08	4.65	137.48
Queen Pietertje Mercedes Adelaide Brooks		3.35	135.58
DeKol Violet	. 122.01	3.45	132.20

Points were allowed for amount of fat and of solids not fat, also for length of time in milk. Twentythree cows were in the test, including Holsteins, Jerseys, Shorthorns and grades. The best Shorthorn scored 120.92 points and the best Jersey. 79.06 points.

St. George, Ont. G. W. CLEMONS. Secretary, Holstein-Friesian Association.

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#### Prizes for Milk Production

The prizes were awarded on Dec. 30, by the Prince Edward Island Dairy Association, for the largest amount of milk produced per acre under cultiva-tion and the winners were as follows:

Prince County-Colin T. Wright, Kinkora; J. A. Woodside, Kensington; Bruce Dawson, Tyron; J. Cadigan, Palmer Road; A. A. McPhee, Lot 16. Wright,

Queen's County-James Inman, Vic-toria; J. Howatt, French River; Mar-garet Jack, Mayfield; J. R. Edwards, North Wiltshire; J. A. Ferguson, Marsh-

King's County-J. Graham, Gas-pereaux; J. A. McKinnon, Rollo Bay; Charles McNeill, Lower Montague.

The prizes were as follows: The sum of \$264.00 divided equally among the three counties to the patrons contributing the largest amount of milk to cheese and butter factories per acre of land under cultivation. Forty-six dollars for the cheese season and \$22 for the butter season to each county.

Cheese season from June 1st to Nov. st. Prizes-1st \$20.00, 2nd \$10.00, 3rd \$7.00, 4th \$6.00, 5th \$5.00.

Butter season from Nov. 1st to June 1st, 1905. Prizes-1st \$10.00, 2nd \$7.00, 3rd \$5.00. Each patron competing must Prizes—1st \$10.00, 2nd \$7.00, 3rd \$5.00, Each patron competing must have at least 15 acres of land under cultivation, and the milk produced have an average of at least 3.5 per cent. of fat.—A. R.

#### 3

#### Is the Cow in Calf

In these days when dairying must be managed skilfully and methodically is important that the cows be bred with reference to the time when they will be fresh at season when the greatwill be fresh at season when the great-est profit can be realized from the milk. It is always a source of anxiety to the dairyman who plans to have the cows in his herd freshen at a certain season, as to whether his cows were success-fully served at the time intended.

The cow to be tested is milked separately and as soon as possible after the milk is drawn we dip a straw or timothy stem in the bucket of milk. Have a stem in the bucket of mink. If and and allow one drop of the milk to fall in the water—only one; if the milk quickly dissipates and renders the water murky. the cow is not in calf, but if the milk drop sinks to the bottom of the glass before mixing with the water, she is pregnant

If you are not sufficiently expert, take the milk of another cow that has newly calved, and pursue the same treatment with both, at the same time, and you will not fail to note the difand you will not fail to be the off milk ference in the way the drop of milk will mix with the water. I have prac-ticed this method of determining preg-uancy in my herd for years and I never knew it to fail.—Kate M. Busick, in H. P. Register.

M. Crapaud—"Ah! So zis ees your leetle son? He looks to be similaire to

Popev---"Yes, he's very much like me." M. Crapaud--"Ah! How do you call eet? 'A cheep of ze old blockhead,' ees eet not?"--Philadelphia Press.



nearest agent. Catalogue and dairy booklet free.

Empire Cres Separato Co.

28.80 Welling St., West,

## In the Dairy

#### Bacteria

The students stared, amazed, aghast, As through the Dairy School there passed

A youth who bore mid cream and ice A banner with this strange device: Bacteria

His face was pale, and very sad, He had not heard of Koch's new fad. With trembling voice, and many a sigh, He gasped that weird and awful cry:

"Use not the milk," the "Doc" advised, "Unless it has been sterilized, And bottled, drugged, closed from the

air, Until to come would never dare, Bacteria."

"Oh, stay," the maiden said, "explain"; "You must have got it on the brain, "Such things are only in your eye," But still came only this reply, Bacteria.

"B'gosh," the farmer said, "young man," "F'you say there's bugs in my milk can "Or in my cow, I'll thump ye, see." But still that voice pealed fearlessly,

That youth did travel far and wide, He travelled on until he died. And everywhere, both far and near, He shrieked that awful word of fear, Bacteria.

But as he lay upon his bier, Upon his face no sign of fear, The students whispered that where he Had gone, he never more would see: Bacteria

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#### Cheese, Butter and Bacon

Cheese, Butter and Bacon The Dairymen's Association of Eastern Ontario have another success-ful convention to add to the many that have gone before. Brockwille was the place selected for holding the göth annual meeting and January 4 to 6, 1090, the time. The feature of the opening session was the address of President Deby-shire. After bestowing liberal praise upon the instructors and both the Provincial and Dominion Ministers of Agriculture, he gave some interesting

Agriculture, he gave some interesting figures regarding last season's trade. The total make of cheese in Canada The total make of cheese in Canada during 1904 was about 2,700,000 boxes, valued at about \$20,000,000, as com-pared with 3,000,000 boxes in 1903, valued at \$27,000,000 packages of butter, valued at

nearly \$2,000,000 over 1003. The bacon exports were \$14,000,000. thus making the total receipts from cheese, butter and bacon, \$41,500,000 or \$45,000,000 short of 1903. Messrea, J. H. Grisdale and C. F. Whitley, of Ottawa, gave some valu-able data upon the building up of a dairy herd and the testing of cowa. The former stated that the average finite during the season, thus showing that the best cash return from her could not be more than \$200. The average milking season was seven norths, and if the average cow did milk for nine months she could not possibly give a return of more than \$30 for the season. Mr. Whitley gave the results of a test made of seventy-two dairy herds. The total yield of twenty-two cows for last June was y7,845 lbs. Of milk, or 322,5 lbs. of butter fat. The average per cow was 811 lbs. of milk, testing 4 per cent, or 32.4 lbs. of butter fat.

MANAGEMENT OF A DAIRY HERD

was the topic chosen by Henry Glen-denning, Manilla, for a good practical talk. Profits in dairying depended in talk. Profits in darying depended in a very large measure upon the cost of production. Among other difficulties the daryman had to contend with were the horn-fly and a shortage of pasture in July and August. The former could be kept in check by spraying with petroleum, the short-age in pasture could be overcome by growing supplementary feed. Slage was a good food for dairy cows. A cow shoupcers shu dame used regu-larity on the lower portions of the body, and less dirt would adhere to trouble the milker.

trouble the milker. The evening session of the first day was taken up with addresses by John Gould, of Ohio, and Prof. J. W. Robertson, of a more or less general character. Prof. Robertson gave the experience of a farmer in Oritario County, who raised the income of his farm from S00 in 1887, up of 64,400

#### KEEP UP THE QUALITY.

Thursday, January 5 was the prac-tical day of the convention. Chief



J. N. Paget, Canboro, Ont., President of the Western Dairymen's Association, who will preside at the Association's Convention at Stratford this week.

Instructor Publow reported that 615 factories had been visited by the in-structors during the season of 1904. In the 450 tests of milk made 306 cases of adulteration were detected. Fines amounting to \$857 had been im-read inone fat men posed upon 54 men.

Practical addresses were also given by Supt. Putnam, Dr. Connell, Prof. Dean and J. A. Ruddick, who strong-ly advised the general adoption of cool-curing by the factories. Prof. Dean stated that he had experimented Dean stated that he had experimented during the past season with 32 cows, weighing from 81 pounds up to 1,430 pounds, and the net profit on each cow varied from 98c. up to \$39. Emphasis was laid upon the need of improving the dairy products of east-ern Ontario. The Hon. Mr. Fisher, and C. C. James, Toronto, were among the speakers of the day.

#### WITH THE BUTTER MAKER.

With the BUTTER MAKER. Friday morning was butter-makers' day. Supt. Mitchell, of the Kingston Dairy School, discussed the merits of the cream-gathering system as com-pared with the separator creamery system. He stated that it was quite impossible to get pure flavored butter system. He stated that it was quite impossible to get pure flavored butter from ordinary cream gathering. The best of gathered cream butter would

be worth about two cents er pound less than the finest separator butter. This is a pretty strong statement, and we doubt if it can be backed up by facts. Mr. James Stomehouse state transmers had decided to system should be improved at my apossible. A W. Woodward urged that cream be made into butter as early as possible. A W. Woodward urged that cream be made into butter as early as possible. A well delivery to beloding of cream before churning at-fected the flavor of the butter. For the "stemth" time the old of-fected the flavor of the butter. For the "stemth" time the old of-fected the flavor of the butter. The stemt is the the old of the only we wane was that of G. Publow, who was made and vice-president, but he did not replace apone else, as a new onche, that of ath vice-president, but he did not replace apone else, as a new onche, that of ath vice-president, but he did not replace apone else, as a new onche, that of ath vice-president, but he did not replace apone else, as a new onche, that of ath vice-president, but he did not replace apone else, as a new onche, that of ath vice-president, but he did not replace apone else, as a new onche, that of ath vice-president, but he did not replace apone else, as a new onche, that of ath vice-president, but he did not replace apone else, as a new onche, that of ath vice-president, but he did not replace apone else, as a new onche, that of ath vice-president, but he did not replace apone else, as a new onche, the not ath vice-president, but he did not replace apone else, as a new onche, the not ath vice-president, but he did not replace apone else, as a new onche, the not ath vice-president, but he did not replace apone else, as a new onche, the not ath vice-president, but he did not replace apone else, as a new onche, the not ath vice-president, but he did not replace apone else, as a new onche, the not ath vice-president, but he did not replace apone else, as a new onche, the not ath vice-president, but he did not but helse.

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#### Guelph Dairy School Notes

For the creamery butter-makers' class at the school in December cream was collected twice a week so as to give students practice with this method of conducting creameries. We regret that conducting creameries. We regret the quality of butter made from cream was wholly unsatisfactory. this the quarky of univer made from this cream was wholly insatisfactory. Ex-creme was wholly insatisfactory. Ex-order the second second second second of patterization. On the two second second other half was ripened without patteriza-tion. In the judgment of the instructors and class the pasterization added at least one eern per pound to the value of the butter. However, this butter was worth at least tive cents per pound *kss* than the butter made from the whole milk delivered. From our ex-perience during several winters we should judge it a very difficult matter to make first class butter from cream col-lected twice a week. We should not care to risk our reputation on such butter.

care to tisk our reputation on such butter. The creamery class made an experi-preservatives at the rate of one-quarter and one-half per cent, and one print with salt at the rate of three-quarter propulse of the second second second propulse of the second second second propulse of the second second second determs. F. At the end of about three which salt alone was used had a decided "f" havor, while those with preserva-tives were sweet and nice. Those with one-guarter per cent, were quite apreservaline" smell and tase. Those with one-quarter per cent, were quite apreservaline " smell and tase. Those with one-quarter per cent, were quite apreservaline" smell and tase. Those with one-quarter per cent, were quite the per cent is liable to impart an objec-points for creamery me who use this method of preparing saltess butter, for being the bast secand in which it was under the britsh markets. MILK INSPECTURE, MEALERAR AND FROUCEERS

#### MILK INSPECTORS, DEALERS AND PRODUCERS

The city of Ottawa has the honor of Ine city of Ottawa has the honor of being the only city in the province whose Board of Health took sufficient interest in the milk supply of the city to send their inspector, Mr. George C. LaFlamme, their inspector, Mr. George C. LaFlamme, for instruction in up-to-date methods of producing milk, testing milk, the bac-terial contamination of milk, etc. We feel quite sure that nearly all the men whose duty it is to inspect dairies, offer suggestions as to improvements, see that milk sold to customers is of proper quality and not adulterated with im-pure water, skim milk, ect., would be glad to avail themselves of a short dairy course along these lines. It is expected that the course will

be repeated during the latter part of April, 1905. As it is absolutely free of cost, except for board and railway fare.

attend the next course. We should like to emphasize the fact that this course is for the benefit of every person who is producing milk for sale in town or village, and also for sale at cheeseries and creameries. A part of each day is spent in the dairy stable, feeding and caring for the cows, and noting cleanly methods of milking and proper means of caring for milk. H. H. DEAN

#### 3 Cheese Factory and Creamery Sewage

An important part of every cheese An important part factory or creamery equipment is an arrangement for disposing of waste. Unless this can be discharged into flowing water, some suitable sewage system is necessary.

is necessary. The accompanying diagram is that of a septic tank, in which the waste is oxidized or decomposed by bacterial action. The scheme is not a new one, but if properly managed in a very ef-fective way of disposing of all cheese factory and creamery waste. action of the seen from the diagram that the will be seen from the diagram.

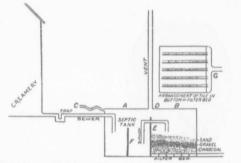
this system of sewage dispesal consists chiefly of a septic tank, A and B, with

# illustration. Of course, where there is limbe slope the method of filtration indistration. Of course, where there is little slope the method of filtration would not be practical. In that case the liquid would have to be discharged near the top of tank B, and preferably in the manner in which tank A is emp-ticd into tank B.

The liquid from tank B should be conducted away by means of 4 or 6-inch drain tile laid underground. The liquid thus conducted away will not give rise to bad odors after undergoing the process of purification herein explained. Diagram G shows the arrangement of the tile in bottom of tank B. The tile is covered preferably with sand, gravel and charcoal. The cost of putting in such a tank as here described is about \$25.—New York Creamery.

#### 3 Feeding Refuse Apples to Milch Cows

Every season the disposition to be made of low grade appices is a matter of more or less moment to many far-mers. To be in a position to give some exact data as to their value as load for at least some classe: of live svock, a lew experiments in feeding then were conducted here in the autumn. Among others the some to study their effect upon milk secretion and upon the health



water-tight partition in the middle,

a water-ngar partition in the indule, making in reality a double tank. This tank may be located either above or below ground, near the factory, and may be constructed of wood or cement. As already mentioned, it serves the pur-pose of a germ incubator, the germs

pose of a germ incubator, the germs causing a rapid decomposition or oxida-tion of the waste that flows into it. The tank should be built air-tight, except in two places, C and D. At C is an air indle, consisting of a goose-neck pipe, which renders the vent or air outlet at D more effective. This year consists of a 10 more the cubics with the construction of a start exception of the form of the form shaft exception of the form of the form space cubics are shown. ing off the foul gases caused by the decomposition of the material within the tank. Through the partition E is placed a siphon in the manner shown in the illustration. The object of this siphon is to withdraw the liquid from near The bottom, leaving the soliment and the bottom, leaving the soliment and flocculent material undisturbed in the subsequently decomposed through the continued action of the germs or bacteria that work upon it. The partition at F simply serves to hold the larger portion of the coarse, undis solved material in the first half of tank

 A. The decomposition is not complete as the liquid flows from tank A into tank B. The latter tank therefore serves to any complete and the waste. complete the purification of the waste, either by further oxidation or by pro-cesses of filtration as shown in the

Four grade cows, about 6 months in milk, were selected. They were fed on the usual ration of ensilage pulped roots and hay for two weeks, then put on a ration of meal, luay, ensilage and roots and apples. Below are submitted a few particu-

lars:

Inrs: Number of cows in experiment 4. Average ration fed each cow during two weeks previous to apple feed experi-ment and after apple feeding experi-ment, *T/2* Hs.

Feed consumed by group in average two weeks:-Ensilage and roots, 2,800 lbs.; hay, 224 lbs.; meal, 420 lbs.

Value of feed in average two weeks, \$7.75; cost to feed one cow one day, 13.9 cents; milk yielded by growp in average two weeks, 1,353 lbs.; daily average for cow during two weeks, 24.3 lbs.

Average ration for each cow during two weeks on experiment :--- Apples, 25 lbs.; ensilage and roots, 20 lbs.; hay, 4 lbs.; meal, 71/2 lbs.

Feed consumed by group in two weeks while experiment lasted :-- Apples 1,400 lbs.; ensilage and roots, 1,120 lbs.; hay. 224 lbs.; meal 420 lbs.

Value of feed, other than apples, fed value of feed, other than apples, red during two weeks, \$5.0; cost to feed one cow one day (apples, not valued), 10.9 cents; milk yielded by group in two weeks, while eating apples, 1.395 lbs.; daily average for cow during two weeks, 24.0 lbs. Difference in milk yield in favor of apple ration, 42 lbs.

Average weight of cow going on apple feeding period, 985 lbs., average weight of cow at end of apple feeding period, 1,008 lbs. Gain in weight, on average, 23 lbs.

Average weight at end of last two weeks, 992 lbs. Loss in average weight during two weeks, 16 lbs.

It is only fair to credit the refuse a being worth the value of the food saved in the two weeks. On such a basis, therefore, refuse apples may be valued at \$2.4 oper ton or about 7 cents per bushel when roots and ensilage are

valued at \$2.00 per ton for cattle feed. By way of comment, it might be added that the cows seemed to relish the apples, which were of different sorts, and to thrive upon them as shown by the quite considerable gain of 23 pounds per cow Considerable gain of 23 poinds per cow made in 14 days while on apples; where-as during the subsequent two weeks a loss of 16 pounds per cow is shown. The health of the cow secence to be very favorably affected by the apples,

Calves given a few of the apples each day seemed to like them, and did well on them.—J. H. Grisdale, Agriculturist,

#### .18

#### Well Worth the Money

We are taking THE FARMING WORLD and think it a good farm journal, and well worth the money.

# CHAS. H. FOSTER, Middlesex Co., Ont.

When the Rev. Dr. B---- obtained the honorary degree of Doctor of Divinity, a farmer in the parish took Divinity, a farmer in the parish took an early oportunity of stating the news to his shepherd, with whom the mini-sterwasaparticular fate. The "You yori f ster was a particular favorite. "You'll be glad tae hear, John, that the Un-versity has conferred on oor minister a doctor's degree." "Weel" said the a doctor's degree." "Weel," said the shepherd, "I'm no the least surprised at that, for mair than twenty years since le cured a dog o' mine a colic."





The art of saying appropriate words in a kindly way is one that never goes out of fashion, never ceases to please, and is within the reach of the humblest. W. Faber.

There is joy in forgetfulness. So I try to make the light in others' eyes my sun, the music in others' ears my symphony, the smile on others' lips my

#### .12 Be Patient

Be patient When trials have clouded your day Be patient

When sorrows have saddened your

Be patient

Though hopes have departed, though fortune has fled; Though storms have extinguished the

Though life with its grief bids you long for the dead; Be patient, He understands all.

Be patient. Thy God hath a star for thy night. Be patient. The end of all darkness is light. Thy griefs, though their purpose be hid from thine eyes, Shall yet be revealed in the bliss of

the skies When thou in His likeness at length shall arise.

Be patient, He understands all.

#### Mistakes of Women

NE of the mistakes of women is NE of the mistakes of women is not knowing how to eat. If a main is not to be fed when she is, she thinks a cup of tea and anything handy is good enough. If she needs to save money, she does it at the butcher's cost. If she is burd she will not waske nor-without food. A man eats if the sherif is at the door, if his work drives, if the undertaker interrunts: and he is right. undertaker interrupts; and he is right. A woman will choose ice cream instead of beefsteak, and a man will not. Another of her mistakes is in

Another of her mistakes is in not knowing when to rest. If she is tired, she may ait down, but she will darn stockings, crochet shawk, embraider doilies. Does she not know that hard work tires? If she is exhausted, she will write letters or figure her accounts. She will augh at you if you hinted that reading or writing could fail to rest her. All over the country womers' hospitals flourish because women do not know how to rest.

hospitals nourish because women do not know how to rest. Another mistake on the list is their constant worrying. Worry and hurry are their enemies, and yet they hug them to their bosoms. Women cross bridges before they come to them, and even build bridges to cross. They ima-

bridges before they come to them, and even build bridges to cross. They ima-gine misfortune and run out to meet it. Women are not jolly enough. They make too serious business of life, and lauch at its little humors too seldom. Men can stop in the midst of perplexi-ties and have a hearty laugh, and it keeps them young. Women cannot, and that is one reason why they fade so early-there are other reasons, but we will pass them now. Worry not only wrinkles the face, but it wrinkles and withers the mind. withers the mind

#### Both Bothered

The neighbor leaned upon her gar-den-rake and called over the fence.

"I noticed a light in your house last night, Mr. Bimley," she said "Are your baby's teeth bothering him again?"

"Don't know how much they're bothering him," he answered, short-ly; "but they're bothering the life out of me." .57

#### How to Save Coal

Every stove and every chimney has a way of its own, and one must know all about those "ways" first. I never put a poker in the top of the fire, but do all my clearing from the bottom. In the evening, if the furnace fire is poor, we put on a little coal, turn on all the draughts, and when the coal is half burned, poke ashes and cinders out from the bottom grate, thus giv-ing it plenty of air, and then we put ing it plenty of air, and then we put on first a layer of stove coal, packing on mrst a layer of slove Cost, packing it down solid, and top off with a layer of nut coal to fill in the hollows. Over all we put on a thin layer of cinders or ashes, and when the little blue fames leap merrily through these we know it is time to shut off the main deveable - little base closing them know it is time to snut on the mann draughts, a little later closing them all for the night. You have then a good, clear, solidly packed fire, well banked, which will last and give chimney. Use stove coal, with a fine top dressing, and pack even and solid —that is the most economical method. I use much less coal in preparation than do some of my friends.-Canadian Good Housekeeping.

## 34

#### New Year's in Russia

The peasants of White Russia keep and peakants of white Russia keep up a strange custom, by which they symbolically convey the idea that the New Year brings to every man his al-loted share of weal and woe. On New Vear's Eve they take about from house to house two youths. One, called the "Rich Kolyada," is clad in festive attire, and wears a wreath woven from ears of rye. The other, the "Poor Kolyada," is dressed in rags, and his wreath is made of threshed-out straw. When they come to a cottage, they wrap up both youths in cloth, and tell the owner of the house to choose one of them. Then visitors sing a song predicting a good harvest or poverty and death, ac-cording as his choice turns out. The singers receive gifts, which take the singers receive gitts, which take the place of the ancient sacrifice to the gods. On New Year's Eve, boys go about from house to house, scattering grains of different kinds, chiefly oats.

grains of different kinds, chieny oats. All labor during the "Holy Evenings" or Soyatki, between Christmas and the Epiphany, is regarded as a sin; be-cause the new-born divinity is said to come down upon the earth, and wander

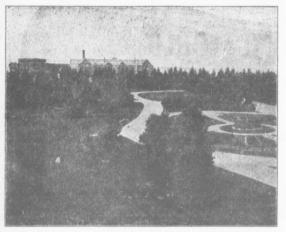


[An Ontario woman hunter in the Rockies and what she got

may look dead, but when all the draughts are turned on, in five or ten draughts are turned on, in hve or ten minutes the furnace is ready for an-other good feed of black diamonds. Of course, during the day we do not bank the fire. It is only in very, very cold weather that we find it necessary to attend to the fire in the middle of the turne of the second second second second second the second second second second second second the second of the day; generally mornings and evenings suffice. My range fire I treat about the same. It is a mistake to use large (egg) coal, though dealers often urge its use, for it requires a lot of draught to keep it alive, and more than half the heat is thus lost up the

about; and all sorts of hidden treasures about; and an sorts of midden treasures are revealed during that period, it is believed. The *stypatki* end with the feast of the Epiphany. On the eve, a curious custom is observed. The young girls go out into the open air, and address this prayer to the stars :

r to the stars: O, Stars, Stars, Dear little Stars! All ye, O Stars, Are the fair children, Ruddy and white, Of one mother. b through the christened Send forth through the christened world, Proposers of marriage.



The O.A.C. Grounds and new Macdonald baildings at Guelph. (Courtesy of the O.A.C. Review.)

# WHEN GREEK MEETS GREEK By Carroll W. Rankin, in The Youths' Companion

**\*\*I** HATE a collar-band that's too wide!" muttered Alma, critically inspecting the neatly made

ally inspecting the nearly made waist, the result oi her mother's three days of patient labor. These sleeves aren't half full enough, and I wanted hooles, not buttons; I never get what I want." Weary Mrs. Boyce, however, paid no heed. An open letter fluttered no heed. An open letter fluttered for and the made a bair opp flution by into the made bair opp flution by into the made bair opp fluttered for and uncle Timothy".

Weary airs, however, pain no heed. An open letter futtreed from her hand. She dropped limply into the nearest chair. "It's your Granduncle Timothyl" she gasped. "Near" asked Alma. "Yes," saide Mra. Boyce, "lis past our turn" "Is it our turn?" asked Alma. "Yes," said Mra. Boyce, "its past our turn" "Doro Mrs. Boyce was greatly per-furbed. She had spent arrying mor-ings with grumbling Alma, and al-though trying mornings with that in-considerate young person were no novelty, their frequent recurrence made them no easier to hear. Grand-uncle Timothy's news found the poor badgered lady quite unfitted for the receiving of unexpected exit lidings. In deed, close association with Alma when the give association with Alma when the give association with a first apple, there was the choosing of the poods, a fearfully trying process, for no material, however, beautiful, was precisely the shade that Alma hest her affections on. Mrs. Boyce, who had supposed herself, until disillusion-ed by Alma, fairly skillu with her-meaking. For sweet-tempred, easily pleased Ruth, two years older than Alma, the tak was a genuine pleas-ure; but sewing for the yoonger girl was a burden almost too great to be borne. During her small, girlhood Alma

During her small girlhood Alma had been delicate, and, it must be con-fessed, decidedly ill-tempered. As she grew older she grew

stronger, but, unfortunately, so did her temper. There were moments-usually when she was among strangers-when she was fairly amiable, but there were other moments when the girl's outbursts of acute dissatisfac-

there were other moments when the girls outbursts of acute dissatisfac-tion drove harassed Mrs. Boyce to "I'd rather have every tooth in my head extracted." the poor lady had confided to Ruth that morning, "than make that tan etamine for Alma, but she was so dissatisfied the last time I employed a seamstress that I'm simply afraid to try it again." "Are you going to make it like my bite tafted?" Ruth had saked. The part of the state of the state of the the pleats, that she won't have tucks, rulles or bias folds, and that off-the-shoulder effects are going out." "What does she want?" "Well, so far," said discouraged Mrs. Boyce, "she has spent three hundred and sixty-four days a year mentioning things she doesn't want.

hundred and sixty-lour days a year mentioning things she doesn't want, so she hasn't had any time left to say what she does like. She's precisely like your father's Uncle Timothy. I suppose I spoiled her when she was little. If I had it all to do over again I'd bring her up very differently."

At that moment a peevish voice floated down the stairway. "Mother," it wailed, fretfully, "did I hear you say you were going to make tomato soup for dinner? I'm just sick of

soup for dinner? I'm just sick of tomato soup!" "What kind do you want?" asked far too tolerant Mrs. Boyce. "Oh, I don't know!" Alma had re-turned, impatiently. "Anything but tomato or bean or pea or mutton " or-

"How would you like potato soup?" "I hate potato soup. Isn't there some kind we've never had?"

Afterward, for almost two hours, Mrs. Boyce, with fashion-plates and patterns all round her, had gazed de-spairingly at the tan etamine. For

the same length of time Alma had

the same length of time Alma had disapproved of every suggestion her mother had offered. Then came Uncle Timothy's unexpected letter. Uncle Timothy's unexpected letter. Uncle Timothy was, if such a thing were possible, even harder to please some slight excuse for irascibility in his case, ior from infancy he had been troubled with nervous dyspepsia. Naturally, he was not a desirable visitor, which was peculiarly unfor-tunate, for visiting was poor Uncle Timothy's only occupation.

Timothy's only occupation. Invariably it was Uncle Timothy's inconvenient habit to announce his coming by one train and to arrive on next, giving the prospective host or hostess no opportunity to escape the threatened visit. His letters never The infrastence visit. This fetters never failed to fill the receipient with con-sternation; yet Uncle Timothy led a respectable, upright life, had no vice except the one vice of universal dis-satisfaction with everybody and everything, and was scrupilously near in appearance. He was old, he had no children of his own, and each one of his flock of grown-up nieces and nephews felt he was entitled to consideration and tolerance; but enter-taining Uncle Timothy was certainly more a duty than a pleasure. Mrs. Boyce lived farthest from Uncle Timothy. He had spent some

ever-to-be-forgotten weeks with the nervous little woman when Ruth was eight years old, but for eleven years she had, owing to distance, escaped a second visit.

Now she was to have six weeks of Uncle Timothy—too much for any woman to contemplate with equanimxoman to contemplate with equanim-ity. At first she sat limp and deject-ed. Presently she began absent-mindedly to snip Uncle Timothy's letter into tiny fragments. It looked to the two girls, who were busy with their embroidery, as if their dismayed mother were deeply engaged in mak-ing plans for the comfort of the coming guest, but they were mistaken. "Girls, said Mrs. Boyce, rising sud-denly, and in her agitation scattering ''I know it's covardly.-I know I ought to be ashamed of myself.-but --but I'm all worn out. I haven't a scrap of courage, and-girls, I'm go

-but I'm all worn out. I navent a scrap of courage, and-girls, I'm go-ing to run away!' "Run away!' echoed Alma. "Yes-to your Aunt Emily's.

"Yes-to your Aunt Emily's. Really, girls, I haven't the courage to plan meals for your Uncle Timothy. I-I just can't do it. You've kept house before, and Hannah is perfectly house before, and Hannah is perfectly competent to do all the cooking. I ought to-O, dear! I've been sewing too steadly, or something. It isn't right of me, but I'm-I'm not able to stand Uncle Timothy." "You sha'n't have to," said Ruth, gathering her mother into her strong

gathering her mother into her strong young arms and presenting a rounded shoulder to be wept upon. You may be perfectly easy in your mind, mother. I'll look after Uncle Tim-othy. There, you've had a lovely cry. Now let's go pack your trunk. It'll were the strong we were the strong of the strong termine the strong were strong of the strong of the strong str certainly do you good to go to Aunt

certainly do you good to go to Aunt Emily's." Mrs. Boyce departed at noon. When Uncle Timothy arrived, an hour later, he looked at Ruth and said, "Humphi" Then he looked at Alma, and said "Humphi" again, but there was a vast difference in the two "humphs."

"humphs." "You've a sort of dried-apple coun-tenance, haven't you?" said the al-ways brutally frank old man, eyeing Alma with quick disapproval." Got a peevish disposition, I guess." From the very first moment Alma's allen eyes blued themselves with an

odd, irresistible fascination upon Uncle Timothy's wry countenance. It (Continued on Page 61.)

#### AND CANADIAN FARM AND HOME

A.R. mark

C .....

THE BOYS AND GIRLS

62

#### Work and Play

The busy sun got up today. "Now while the children are at play, I'll do my work," he said.

At six their play was still not done. "Tut, but I'm tired!" said the sun, "It's time to go to bed." 38

#### When Snow First Came

#### BY DONALD A. FRASER.

Many hundreds of years ago, so the Vancouver Indians say, when winter came around there would be plenty of cold weather, with wind and rain, but no snow. It is with the first arrival of snow that our story has to do. In a village on the west coast of Vancouver Island the cold weather came on as usual and found the In-dians prepared to receive it. Each Many hundreds of years ago, so the

came on as usual and found the in-dians prepared to receive it. Each house had its winter provisions in. Long rows of Salmon, split open and kept flat with little sticks, hung along the rafters, and everywhere were strings upon strings of dried clams, both fish and clams growing browner and browner every dow, with the and browner every day with the smoke; for these Indians did not have stoves or chimneys in their houses, but built their fires on the earthen floor and the smoke wandered all over the house till it escaped through holes in the roof.

At one end of the village lived a voung widow named Ayish. She was the finest-looking woman in the tribe, and all the young braves were con-tinually making love to her. This, of course made her very vain. She began to think she was much better than all the rest, and that nobody could do anything as well as she. Her fish were always the best smoked, her

hish were always the best smoked, her mats the pretitiest woven, and so on, till, you may be sure, nearly every other woman was jealous of her. Away at the other end of the vil-lage lived Igwa, the oldest and ugliest woman in the vilage. Nobody ever spoke to her except to scold or growl at her. She never minded, however, but just went on with her own work and kept herself to herself.

One morthing old Igwa, as usual, was the first one up in the village. She kindled her fire and then went one kundled her fire and then went outside. O, what a sight met her eyes! Everything was all white, white. She could not think what had harvened. Stooping down she picked up some of the white stuff. How cold it was! She tasted it. "Cold, cold," she said, "too cold to eat."

eat

Taking a little into the house she

set it near the fire. It soon melted. "It will not cook," she said. "The fire only turns it to water; it is no good." Then she went on getting good." Then and her breakfast. The village was soon astir, and the surprise at the new

great was the surprise at the new white substance that covered everything

Some one looked towards Ayish's some one looked towards Ayish's house and cried, "What is the matter with Ayish? She must be crazy." She was throwing all her winter's

provisions of salmon and clams out-side. They all ran to her and inquir-

side. They all ran to her and inquir-ed what she was doing. "Why I am throwing away these old things," she said, "I am tired of eatime them, and I am going to lay in a supply of this nice new food that the Great Spirit has sent down from the clouds in the night." "O, how clever Aysih is to think of that? they all cried. "We will do the same."

the same." In a little while all the Indian houses were emptied of their winter supplies, and every one was busy carrying in baskets of snow, and ranging them on the rafters and around the walls

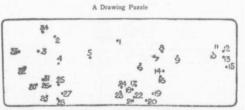
All did this excepting old Igwa. All did this excepting old tgwas. When she saw what her neighbors were doing, she quietly went to work, gathered up the scattered fish and clams, and piled them up in her own house till it was so full that she had scarcely room enough left to turn around. around

This went on all day, and at night the Indians went to bed as usual. During the night a thaw set in which, combined with the heat of the fires combined with the heat of the irres in the houses, caused the snow piled up inside to melt. Ayish was awak-ened by a cold drop failing on her face. She started up. The sound of dripping water could be heard all over the house. "Surely the roof must be leaking," said Ayish to herself. Getting up she peered through the darkness over her head. There, from every one of the baskets of the new food that she had gathered so care-fully the day before, the water was

fully the day before, the water was falling in tiny streams.

"O foolish woman that I am!" she cried; "I thought I had gathered food, but I have gathered nothing but frozen water.

In the other houses it was just the same. And when morning came, they all rushed to Ayish's house and re-proached her for deluding them into throwing away their good food for this frozen water.



Join with a pencil line the dots shown in the picture, beginning with 1, then 2, and n. When you have finished this a certain reptile will be revealed.

Then they went down to i house and begged her to give back their food. But she said, if you want it back, you will ha buy it back." With that they began to thr

with that they began to the her; but she appealed to the who said that she was in the a "She has taken that which you thrown away as useless," he said the people, "and now it belong

So each man had to buy back So each man had to buy back clams and his salmon from old Ig, who thus became the richest per in the tribe, while poor Ayish lear a lesson and was not so proud of ) after that.

We, too, might learn this less from Ayish; never part with the e until you are sure that the new .4



Can you tell how many circleia shown here? -11 .15

#### Done to a Crisp

les

A small boy was undressing other evening before the open fii his nursery. His mother gave his nightshirt and told him to h

ns mightshirt and told him to have to the fire to warm. She left the room for a minutip returned quickly when she hear boy say to his father: "Papa, is this shirt done when it' brown?"

ال

#### Sleeps in the Snow

A Minnesota mother puts her 18-A annesota motier pus ner lo-months-old baby to sleep in the snow. She says: "Little Corinne sleeps out of doors every day. One day when it was ten degrees below zero she slept for six hours in her basket out stept for six nours in ner basket our on the upper porch overlooking the lake. Yesterday when the n-aid brought her in she was covered with about three inches of snow. The basket in which she was lying was completely covered with snow. She had a hot water bag at her feet and was well tucked in, and was perfectly happy. She seldom has a cold, and the strangest part of it is that she never takes cold except inside the house, and putting her outside will cure a cold immediately. She is a cure a cold immediately. She is a fine baby, and is always well and strong.

"You say you got rid of that coun-terfeit quarter I gave you, Sam?" "I certainly did bos." "But don't you know it was wrong to pasa it?" "I didn't 'zactly pasa it, boss; you see, I was pasain 'round de plate in church las' Sunday, an' I jist exchanged it!" .18

Fred--"What do you think of my argument?" Will--"Sound; it is cer-tainly sound." Fred--"And what else?" Will-"Nothing else--merely sound."





E.W. GILLETT COMPANY

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THE FARMING WORLD

16 January, 1005.

HF KITCHF

#### Cranberries

Although cranberry sauce is cran-Although cranberry sauce is cran-berry sauce wherever the dish is known, it may not be amiss to put before even such skilled cooks as are our readers a lew recipes for cooking cranberries. To a quant of well-washed berries add a little less than a pint of water, and stew for ten mantes. Add they one pool of the stew of the simple. Without both the simple to simple. without holing, for fitness immetes. A restriction of poless of value to simmer, without boiling for fittern minutes or so. Turn out to cool and that is all there is to it. Taking this sauce, our English cousins have a happy knack of adding to it when it is cool some whipped cream and theu using it as a kind of filling for short-cake, to be served with the afternoon tea. Perlaps it needs a bit more sugar used in this way, but that may be and the agarantees the short the moulds with paste, fill with the cran-berry sauce, cover with paste, bake, and serve with whipped cream. To make cranberry jelly cook a quart of the berries in half a pint of water for twenty minutes, then sieve

quart of the berries in half a pint of water for twenty minutes, then sieve them through a fine sieve and add to the juice one pound of sugar. Cook for ten minutes, boiling hard all the time, and turn into a mould. Let stand for several hours before using. If it is not to be used with meats, but is to go to the table as a sweet, then surround it with whipped cream or

#### Four Good Ones

HUNTERS' PUDDING .--- One cup of suct HUNTRAS PUDDIA.—One cup of suet chopped fine; one cup of molasses, one cup of milk, three cups of thour, three level teaspoontial of baking powder, one-half teaspoon each of cloves, mace, and allopice; one tea-spoonful of cimamon, one-half cup of raising chopped fine, one hala cup of raising chopped fine, one hala to the support of the support with lemon sauce. with lemon sauce.

BREAKFAST ROLLS .- Sift together BREAKFAST ROLLS.—Sift together a quart of Hour and a .teaspoonful of salt, and rub into the flour a table-spoonful of butter. Dissolve a third of a yeast cake in warm water, and stir it into a cup of fresh blood-warm water. Add a heaping tablewarm water. Add a heaping table-spoonful of sugar and pour all into the flour. Mix to a sponge and set to rise for six hours. Stir thorough-ly and set for two hours longer, then add just enough flour to allow you to knead it, turn upon a bloured board and knead for three minutes. Cut into rounds, butter these light-ly and fold over upon themselves, making a half-circle. Set to rise for two hours and bake in a hot oven.

making a nurtence. Set to the two hours and bake in a hot oven. WaINKLES-Soak one pint of stale bread over night. Drain thoroughly in morning. Add two eggs, one-fourth teaspoon sait, one tablespoon-ful of lard and butter mixed, flour spoon baking powder. Drop on a well butterted pan far enough apart so they will not touch. Bake in a quick oven. Eat with syrup. PRUNE CONSTARCH.-Soak the prunes over night, and boil them un-til just tender. Then make corn-starch of two eggs, three table-spoonfuls of sugar, one quart of milk, and two tablespoonfuls of cornstarch. Put the milk on in a double boiler and bring to a boil.

Beat the eggs and sugar and add to them the cornstarch thinned with a little milk. Then add to the milk, stir until it thickens, and take from the fire, adding a little vanilla and the prunes, chopped into small bits. Stir well and pour out to cool.

#### Winter Hints

Winter Hints Winter shortcakes are easy des-serts. They are made with a cake foundation, using canned apricots or preserved strawberies or other pre-serves. Whipped cream is served with the shortcake, and the appear-ance of the dish is improved it the cream is piped over the top in fancy torms. forms.

Canned fruit may be used for des-serts in many ways. The juice in the can should be heavily sweetened and boiled down to a syrup. This makes can should be nearly sweetened and boiled down to a syrup. This makes the fruit richer. Common canned peaches heated in a thick syrup and served with cream are very good in-deed. Canned raspberries make a delicious charlotte russe.

delicious charlotte russe. A small ham may be steamed in-Stead of boiled. Prepare the ham in the usual mamer by soaking it in cold water for eighteen hours, and after-wards scrubbing and trimming it. Put in the steamer over boiling water and cook, allowing half an hour to each pound of ham. The reason ham decook, allowing half an hour to each pound of ham. The reason ham decook, allowing half an hour to each pound of ham. The reason ham decook, allowing half an hour to each pound of ham. The reason ham decook, allowing half an hour to each pound of ham. The reason ham decook, allowing half an hour to each pound of ham. The reason ham decook and half and half and half water ham be able to be able to be able when the state of the state of the point of the state of the point for the state of the state

#### Chalk for Dirty Spots

A friend has found a way to make her tablecloth do service for a little ner tablecion do service lor a little longer time, even after numerous spots disfigure its snowy whiteness. She rubs a piece of chalk over the spots as they appear. This has a magical effect, and completely con-ceals them from view. If the spots are of grease, the chalk has a tend. magical effect, and completely con-ceals them from view. If the spots are of grease, the chalk has a tend-ency to absorb it, instead of simply concealing it, so that When the cloth at last goes into the wash tub, it is often impossible to find the spot, the chalk having entirely effaced it.

#### Worth Knowing

That a teaspoonful of sugar added to pancake batter will make the cakes a golden brown. That salt fish are best and guickest

freshened by soaking in sour milk. That a glass of buttermilk taken the

last thing at night will cure stomach

That fresh meat beginning to sour, will become sweet again if placed out of doors over night. That kerosena will soften boots and shoes that have been hardened by water

That a spoonful of raw cornmeal, That a spoon of raw cornneal, moistened with water, taken on an empty stomach, will cure constipa-tion, if persisted in for some time. That a teaspoonful of turpentine put into the boiler with white clothes will old the miterature

into the boiler with white clothes will aid the whitening. That clear boiling water poured through tea stains will remove them. That salt will curd new milk; hence in preparing dishes containing milk, the salt should not be added until they are cooked.

#### When Greek Meets Greek (Continued from Page 58.)

seemed oddly familiar. Where had she seened oddy familiar. Where had she seen that puckered, peevish mouth, those fretful eyes, the little, dissatis-hed wrinkles in the forehead, the thin, pointed nose with its half-scorniul, wholly disapproving lifti "When I was young."

"When I was young," snaped Uncle Timothy, "it wasn't considered polite for young 'olks to stare their elders out of countenance! If that's coffee I smell, I don't want any," "Would you rather have tea?' ask-ed Both

ed Ruth.

ed Ruth. "Nol' thundered the visitor. "I drink hot water, and I won't touch that if it isn't exactly right." Ruth regarded the guest with an odd mixture of amusement and pity, but between Uncle Timothy and Alma there was certainly no love lost. If was evident that this beligerent pair was evident that this beligerent pair were antagonistic from the moment of their meeting, but they preserved a kind of armed truce. Ruth manag-ed for several days, with Hannah's help, to keep the grunnbling guest from the volcanic outbreaks for which he was famed, but the atmosphere was far from serence.

"I think," said Alma, one day, when "I think," said Alma, one day, when the sisters were in the kitchen, try-ing to cut bread to a thickness that shown one with the nearest ap-traction of the said of the said of the was able to teel, "that further involu-has the vilest disposition of amounty has the vilest disposition of amounty has the vilest disposition of amounty and-vinegar expression! I wish I knew whow the reminds me of; it bothers me because I can't hind out. "Well, you needn't be bothered any longer," said outspoken Hannah, who had lived with the Boyces for tweive years, and was therefore privileged. "Go look in your glass, Miss Alma, and you'll see the living image of him. Ite's enough like you, barring age. "I think," said Alma, one day, when

He's enough like you, barring age, to be your own twin." But horrified Alma did not need to look. It was the disheartening truth,

look. It was the disneartening truth, with no room for doubt. She herself was the unfortunate person of whom shriveled, vinegary-countenanced Un-cle Timothy so unpleasantly reminded her

her. "Of course, soothed Hannah, cheer-fully, "your face is smoother, the limes aint so deep and puckery, like your dideen eating choke cherries, and your voice ain't quite so much like a rusty saw, but in another twenty years—" year

"Well, maybe there is a family re-semblance," admitted Alma, grudg-ingly, "but don't you dare to say that my disposition is like his!"

mg.ug, position is like his!" "My saying so wouldn't make any difference," said candid Hannah, "but two dispositions more alike 1 never did see."

did see." This was at noon. At six that night Hannah confessed to having felt il all day. By midnight she fcar-ed she had quinsey. Isy morning, when the doctor was hastily sum-moned by Ruth, who had been called to the sufferer's bedside at daybreak, the faithful maid learned that her mialdy, a case of grown in abaud In Hannah's case, however, the dis-case was aggravated by a severe cold. She was really ill and in need of care-ful attention. ful attention.

Now delicate Alma had been sedu-lously safeguarded against all the usual childish ills, and it seemed far usual childish ills, and it seemed far from wise to expose her now to mumps, so Ruth, who had survived a double attack, decided to sequester herself in Hannah's part of the house. This, of course, left Uncle Timothy to Alma's tender mercies, Alma to Uncle Timothy's; and a worse ar-rangement could not be imagined.

#### AND CANADIAN FARM AND HOME

# THE WONDERS OF ELECTRICITY Now Used for Purifying Flour

The New Process Makes Bread and Pastry Lighter, Sweeter, Whiter and More Wholesome-Womer of Canada Delighted.

#### What is Electricity?

nobody knows, not even Edison. What does it do?

everybody knows.

It runs street cars-telephones-automobiles,

furnishes light-heat-power

-detects and defeats disease

-enables the doctors to see clear

through a man. Performs all sorts of wonders

-not least of which is acting as

#### Nature's Great Purifier

because when the world's dust, dirt and disease germs have been taken up by the air, and hang over the earth in cloude-

electricity shoots lightning through the clouds

-flash !-boom !-rumble !

-down comes the rain, the atmosphere is purified and we exclaim

"how nice and fresh the air is since that thunder storm !"

#### Electricity in the Flour Mill.

Something like that but minus the thunder and lightning,

-silently-swiftly-surely

electricity performs its miracle in the "Royal Household" mill-the only mill in the Dominion of Canada where electricity is used for purifying purposes.

When the grinders - separators sifters-air-filters, have ground and reground - purified and repurified the

Alma made an honest effort to pro-vide Uncle Timothy with meals to his liking; but to her granduncle's mind, she failed so lamentably that

relations very speedily became strain-ed. The toast at breakfast-time was

ed. The toast at breakfast-time was really excellent, the dainty luncheon was certainly palatable, the boiled water at night was of the proper temperature, and the cook was anxi-ous to please. But Uncle Timothy had been awakened during the night by Hannah's groans, he disiked Alma quite as thoroughly as Alma disiked him. and he falty declined to he sat-

quite as thoroughly as Alma disliked him, and he fally declined to be sat-isfied with anything she offered. He was perfectly candid, too. He said that in all his sixty-nine years he had never known such a disagreeable girl, nor had he attempted to worry down such absolutely detestable meals

Alma, who was proud of her abilit

Alma, who was proud of her ability to cook, was at first dumb with amazement. She was doing her best for Uncle Timothy, and he grumbled, grumbled, grumbled. Very well, she wylid show him what she could do. wylid show him what she could do. He should have perfectly sumptuous meals.

But the perfectly sumptuous meals, too, failed to please him. In fact, they made him ill, and for twelve hours more Alma labored faithfully

meals.

meals.

flour again and again, all down through the seven floors of the big "Royal Household" mill until it is nearer perfection than flour ever was before-electricity

says-"I can do more than that" and sending its mysterious charge of

#### Electrified Air

through the flour, removes the last, least trace of impurity-gives it new life and greater energy-makes a flour that is

pure enough, sweet enough

white enough,

to be worthy the name and fame of "Royal Household"-the flour that is more delicious-more healthful-more satisfying than any other flour in the world.

-the flour that makes the bread apastry used on the tables of Royalty-the flour that thousands of Canadia

women are now using to make bett bread-better pastry than they ev made before.

Every day hundreds of testimonicils are coming to the Ogilvie Flour Mi<sup>ils</sup> Co. Ltd., Montreal, from women who a<sup>re</sup> using Royal Household Flour, according to the "Royal Household" recipces and say they are delighted with it.

The recipes will be sent free for this asking

-ask for them -"FLOURFAX."

if not altogether uncomplainingly," to make her querulous guest conticut-able. Her efforts, however, were 'not appreciated. Just before dusk on the third clay of Hannah's illness, Mrs. Boyce un ex-pectedly returned. Alma gave a u-lighted cry when her mother walk

lighted cty when her mother walk-ed in. "Where's Uncle Timothy?" asked the returned traveller, who appeared much benefited by her trip. "On a feather bed on the sewing-room floor," returned Alma, in a tone of deep aversion. "He said his bed was too soft, the couch too hard, the other spare-room bed was too springy, and that the walkapare every place else made him dizzy. But what brought you home? "An accusing conscience, 1 (Continued on Page 67.)

## Liquor and Tobacco Habits A WoTAGGART, M.D., C.M., 75 Yonge St., Toronto, Canada.

19 Songe SH, Roronato, Canada. References and Dr. McTargarzi traportesional atandig and personal integrity permitted by: Hon. O., W. Kons, Premiter of Ontario. Rev. John Potta, D.N. Victoria College. Dr. McTargarzi vegetable remembles for the Interpensive home treatments. No hypodermic interpensive home treatments. No hypodermic integration of the property of the property of the biometime and a certainty of care. Consultation or correspondence invited.

#### THE FARMING WORLD

16 January, 1905.



MY Guide, Thou knowest the per-plexities of my life. I do not wish hurt myself or others by my free-m, nor do I wish to make them think nor a la and narrow them think on a hard and narrow thing. So me to Thee, asking Thee always ow me what to do, what not to do. the world of joy let me never forthe worsa of Joy let me never for-thee. In every denial and hard-et me think of Thee. And make with Thy freedom and bound why love. Amen.

#### The Hurrying Hours

often the thought comes home to me

to me the moments hurry away, e many things 1 intended to do tehow, some time, some day1

are promises that have not been

kept, Thougn I always meant to be true, But time is too short for all the things

That a girl intends to do. o-day is the only day we have; Of to-morrow we can't be sure;

The o.To seize the chance as it comes along 's the way to make it secure.

#### Love for the Church

d.

11

a Ve ought to have a love for the learch that would lead us to labor ho its advancement. We ought to love a love for the Church that would love a so act consistently with its hole a love for the Church that would lay us to act consistently with its up to the act consistently with its opp for the Church that would lead provide the Church that would lead crist's name you are invited to ally construction of the Church. "Come Cpu with us, and we will do the year of the Lord hath spoken good yenerning Israel." Christ has the Hurch; He wants you in it. Unite i juriselves with His people. Enroll - Amers the State of the side. So it will be the provide the Church's stake. Do if or the Lord the side. Do it for 'ur own sake. Do it for others' ckee.

foke. fow ought to have a love for the part of the pray of the p

Particle that would lead us to pray if her prosperity, pray for its pastor, ay for its members, pray that many shall be added to it. There is no limit to the power of a praying Church. A great many people seem to forget that the Church is a divine institution, and will asy the Church is too proid or that it is plenty good enough, and forget that it is spoken delights to dwell. It is moken of as a royal city. Mount Zion, where no expense has been spared to make it beautiful and attractive. Christ loved the Church and gave Himself for it, "that he might present it to himself, a "that he might present it to himself, a glorious church, not having spot, or wrinkle, or any such thing; but that it should be holy and without blemish."

#### Eternity Monotonous?

There are people who look a little askance at the idea of eternal life, because they fear that after innumer-able ages it may become monoton-ous. But think!-does this life ever become monotonous to those who are all the time working, learning, and growing? Does the artist ever grow weary of painting, or the musician of

composing, or the singer of singing, as long as his powers are not only unimpaired, but steadily expanding? Even men of business get to be so enamored of their business as to be restless, lost, without it. Life never restless, lost, without it. restless, lost, without it. Life never becomes monotonous, uninteresting, to those who are worthily and con-genially employed. In the future life, with enlarged, possibly with addition-al, faculties, and with endless oppor-tunity for their exercise and expan-sion, is in too likely that there will be continual joy, ever satisfied yet ever renewed, in using and improv-ing them?

#### The Happy Life

One may live a life shut in From God's sunshine and His

From God flowers,

Howers, And close the eyes to all that's fair In Nature's plains and bowers; But the happy life is led by one Who sees in darkest night The rays of sunrise ere they come, Before the morning bright.

. . . . .

#### Take the Days as They Come

Take the Days as They Come The Master will mix the hours as it pleases Him, and so you should accept them with a mirmutless april. If the our exposes is and through you. Bright and dark days will often stand close together, but each shall come to declare His message. In painting china the artist outlines the piece of work in a duil black, and then "fires and burnishes" it, and lot it comes forth in the beautiful color of gold. God has a golden thought and pur-pose back of each dark experience, and when he has tried us, He will bring us forth as gold. Yes, to take life as it comes; not to be so anxious and when He has tried us, file will bring us forth as gold. Yes, to take life as it comes; not to be so anxious about the form of the day as the life of the spirit it should enshrine—this is the secret of unfolding God's noble thought in terms of generous and Christlike living. The crown of the morrow lies in that approach to the Christ character which a life of faithfulness to-day makes real and abiding.

#### Cheer Up

Scowling and growling will make a man old;

man old; Money and fame at the best are be-guiling; Don't be suspicious and selfish and cold-Try smiling.

Happiness stands like a maid at your gate; Why should you think you will and

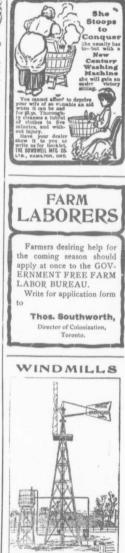
her by roving? Never was greater mistake than to hate-

#### Try loving

#### Your Reward

Your work will bring you love. You may meet with much ingratitude; some to whom you look for sympathy may pierce your hand like a broken staff. Your heart may be wounded by the serpent's tooth of unthankful-ness; yet if you truly labor with the devoutness of an apostle and the hero-ism of a marter, you will corne size

devolutiess of an apostic and the hero-ism of a martyr, you will come into a large estate of love, and your name will be fragrant throughout the eternal summer of the heavens.



Brantford Steel Windmills are in ass by themselves. There is only er st—that's ours. Write for Catalogu We also manufacture

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GOOLD, SHAPLEY & MUIR CO., Limited BRANTFORD. CANADA

16 January, 1905

#### AND CANADIAN FARM AND HOME



#### May Manton's Hints GIRL'S DRESS WITH HANDKERCHIEF DERTHA, 4852.

marray, 4852. Simple frocks made with shaped berthas are exceedingly becoming to little girls and are as fashionable as they are attractive. This one shows the long waisted effect that is so popular, and is made of gendarme blue cashmere, combined with a syske of last and bertha and suffs of the ma-last and bertha and suffs of the design is equally as well suited to all simple and childish materials. And, when liked, the bertha can be made from embroidered edging, mitted at the points.

inde 'from embroitered' edging, mitred at the points. The dress consists of the body lin-ing, which is faced to form the yoke the full waist and the skirt. The waist is gathered at both upper and lower edges and arranged over the lining and the two are joined to the skirt, the seam being concealed by the sash. The sleeves are in bishop style with straight cuffs and the bertha is arranged over the waist, outling the shallow yoke.

#### BLOUSE OR SHIRT WAIST 4854.

Plain shirt waists always are in de-mand and always fill a need. This one shows the new sleeves, that are till at the shoulders, and includes a wide box plait at the centre front. The model is made of Russian blue Sicilian mohair stitched with corticelli silk and is worn with a belt and tie of black taffeta. All waisting materi-



als are, however, equally appropriate

als are, however, equally appropriate, the many mercerized cottons as well as wool and silk. The waits consists of the fitted liming, which is optional, fronts and back. The back is plain across the shoulders, drawn down in gathers at the waits line, but the fronts are gathered at their upper edges also so forming becoming folds. The sleeves are in shirt style, gathered into straight cuffs, and at the neck is a regulation stock.

#### MISSES' FANCY BLOUSE 4843.

MISSES' FANCY REQUER 4843. Broad shoulders make the latest edict of fashion and are rendered ex-ceptionally attractive in this very pretty blowse, which includes the shal-low round yoke which halos makes one of the latest and newest features. The model is made of tobacco brown veiling, with yoke and cuffs of erry lace and the trimming band of silk embroidered with little circles and stitched with corticelli silk. It can, however, be reproduced in any sea-sonable material and is quite as well adapted to the odd waist as to the frock. The waist and sleeves are

both gathered at their upper edges and joined to the band which closes with the waist at the centre front, while the yoke is closed at the left shoulder scam. The collar is one of the new ones, of the turn-over sort, and can be alshed and worn with a tic, as illustrated, or left plain as preferred. tie, as il preferred.

The waist consists of the fitted lin-ing, which is optional, fronts, back, sleeves, yoke and trimming band.



4843 Misses' Fa 4908 Collarettes and Plouse, 12 to 16 yrs. Muff, One Size.

When the lining is used the sleeves are faced on indicated lines to form are faced on indicated lines to form cuffs, but when it is omitted cuffs of the required depth are made separate and joined to the lower edges of the sleeves. The waist is gathered at its lower edge, made to blouse slightly at back as well as front, and is closed invisibly by means of buttons and loops.

#### COLLARETTES AND MUFF, 4908.

Collarettes and muffs are essential to the well dressed woman, and this season abow almost unprecedented variety. The models illustrated are all correct and all admirable, while the suitable materials are many. As illustrated the collarette to the left, in pelerine style, is made of velvet edged with fur. The four-in-hand seard is made of squired with ermine tails, and the muff is made of the als as the many fur plushes and vel-vets are much in vogue for these last. The muff is particularly attractive made of any one of these with frills of lace at the ends, and the scarf can be fur trimmed whenever desired, al-though velve with ruches of chifton Collarettes and muffs are essential though velvet with ruches of chiffon is much liked.

is much liked. The collarette to the left is made with a seam at the centre back, which renders it in every way desirable for marrow material. The scarf also is made in two pieces, marrow at the neck and broader at the ends, and the muff includes both muff and lining.

The price of each of the above patterns postpaid is only to cents. Send orders to The Farming World, Morang Building, Toronto, giving size wanted. 38

#### Meets Every Desire

THE FARMING WORLD is, in my humble 1 HE PARAING WORLD is, in my humble opinion, one of the most aggressive, all round journals from start to finish pub-lished in Ortario. It not only contains valuable information for farmers and stockmen, it also contains crumbs of comfort and bright, practical reading comfort and bright, practical reading er, of the family far to for every member of the family.

JOHN ROBBINS

Elgin County, Ont.



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# The Nationa

#### The Most Modern, Substantial and Beautiful Cream Separator

The Record is that the best farmers trying different makes of separators before purchasing, make the National their choice.

If you want one for yourself, or your friend, send us your address. A Free Trial given at our expense and risk of sale. Every machine guaranteed for two years, by the manufacturers. Sold on most liberal terms to good farmers.

Agents wanted in every township.

The T. C. Rogers Co. Wholesale Agents **GUELPH**, Ont.



THE FARMING WORLD



#### Rheumatiz

When you've got the rheumatiz— S'pose you know jes' how it is— Ail the fellers in the kentry wants to make the case their biz; Tellin' you What to do When you've got the rheumatiz.

"Tell you what!" says Elder Brown, "Got ter git the swellin' down! Brother Ike-he was that bad Thought we couldn' save the lad. Both his legs was full o' pains; So I says to old Doe Haines, "Doe, I reekon this won't do-Doe, 1 reckon this won't do— Got ter pull the youngster through I' Got so multicker off the shelf, Soaks inter lke fer fair— Made him boory, 1 declare. Then 1 wraps his legs in wool, Gives en quite a hefty pull, And, by gravy, the next day Re, he 'lowed he felt O, K."

Ike, he 'lowed he teit O. K.' "Rheumatiz?" says Jabez White. "Glder'll fix you out all right, Drink a gallon, good and hard, Gallop up and down the yard--Use warm water fer you: eyes; Stuff your ears with cotton batten, Git that dope--the name is Latin--Somethin' like 'idecadine,' An' you'll soon be feelin' fine!' "Cider nuthin' 'says Lem Jones, "Rheumatiz is in the bones, Git a quart o' catnip tea, Jes' as hot as it can be, Let it cool and drink it down Nuthin' better in the town."

"No use talkin," says Eph Law, "What you want's a good big chaw Off a plug o' niggerhead, Then undress and go to bed. In the mornin' fill your jaw With another good big chaw!"

When you've got the rheumatiz— S'pose you know jes' how it is— All the fellers in the kentry wants to make the case their biz; Tellin' you

What to do, When you've got the rheumatiz.

#### ئې Too Rapid Eating

Too Kapid Eating One of the most fruitful causes of all-health and bad complexion is the habit of rapid eating. It is growing more and more prevalent in this country. We really haven't time to eat properly, and we have very little time to siece, yet we hope to retain youth and beauty. With the habit of rapid extinct

youth and beauty. With the labit of rapid cating comes an increase in the amount of liquids taken during the meals. Food properly masticated can be easily swallowed, but if ill chewed it must be washed down with liquid. This, of course. lessens the flow of saliva, dilutes the gastric juices and inter-feres greatly with the process of di-gestion. Those who have tried thoreauch

gestion. Those who have tried thorough mastication of their food with no liquid, unless at the end or a half hour after the meal, have learned that the food tastes better, the meal is more satisfactory and the appetite is appeased with less food, the diges-tion is aided, leaving one much more sumfortable than the hasty meal. A comfortable than the hasty meal. A

few days trial will convince the most

few days trial will convince the most skeptical, for the stomach responds promptly to decent treatment. It ex-pects it. It deserves it. One of the greatest mistakes of the greatest curses is the nervous dys-persia caused by it. 38

#### Sore Throat and Cough

Sore incost and cough Put a teaspoonful of powdered bo-rax into one tablespoonful of honey. Dissolve over heat. When cool, apply it repeatedly with a camel's hair brush to the throat and roof of the mouth. This will soon effect a cure and allow the patient to swallow com-

month. I nis will soon effect a cure and allow the patient to swallow con-term. The sense of the patient of the swallow con-term of the sense hard breach holding it until it warms benefit will soon be received, for the nitrogen which is thus refined, as it were, acts as an anodyne to the mu-coust membrane, stopping the desire to cough, so allows the throat and lungs a chance to heat. The inces-samt and constant hedring cough on the hogy-allows no time to head p. This is the case with children, they keep it up, but sometimes by coaxing or promises of presents, you can succeed in having them hold their breath and so get a little relief. Ner-vous set helps it along, too.

#### 38 Laugh

Laugh Learn to laugh. A good laugh is better than medicine. Learn how to tell a story. A well told story is as welcome as a subheam in a sickroom. Learn to keep yourd is to be over for your lifs and sorrows. Learn to stop croaking. If you cannot see any good in the world keep the bad on cares to hear whether you have the earache, headache or theumatism. Dorder, but they are out of place in real life. Learn to meet your friends with a smile. The good humored with the synch whether and is a nuis-ance as well. .12

#### Apples Are Healthful

Apples Are Healthful A good ripe raw apple is one of the easiest substances for the stomach to manage, and while the apple is worth more as a health giver in its natural state it is also exceedingly wholesome cooked. Apple sauce eaten with pork assists in the diges-tion of the meat, and many persons who cannot eat pork without dis-comfort can do so if accompanied with plenty of well cooked apple sauce not too sweet. .12

#### Try a Bran Bath

Try a Bran Bath Women who suffer from weak cir-culation of the blood are being re-commended to take bran baths. A quantity of ordinary bran is pat into a bath of tepid water, and the rub-bing of the rough particles of bran not only cleanses the skin, but has the effect of causing a slight chafing that sets up a healthy glow

16 January, 1905.



are fruit juices in tablet form. The greatest known cure for Stomach Troubles, Constipa tion, Biliousness and Sick Kidneys. 50 cents a box. All druggists have them.

Old Men and Women Do Bless Him. Old Meer and Women Bo Miess Hum. Thommal of populs come read very year of cancer and other malignant diseases. Out of this number a great many very old poople, whose ages range from sevenity to one hundred age, sent of home treatment. A free books age, sent of home treatment, a free books age, sent of home treatment, a free books age, sent of home treatment, a free books est, telling what have any of the treatment. Drawer 508 Arilinampolis, find [11 enterthiesed, est, this out and send it to some suffering one.]

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AND CANADIAN FARM AND HOME

16 January, 1905.

# Nine Nations

#### Now Use Liquozone. Won't You Try It--Free?

Millions of people, of nine different | Millions of people, of nine diliterent nations, are constant users of Liquozone. Some are using it to get well; some to keep well. Some to care germ diseases; some as a tonic. No medicine was ever so widely employed. These users are everywhere; your neighbors and friends are among them. And ball the people you meet - wherever you are -know some-one whom Liquozone has cured.

If you need help, please ask some of these users what Liquozone does. Don't blindly take medicine for what medicine cannot do. Drugsnever kill germs. For your own sake, ask about Liquozone; then let us buy you a full-size bottle to try.

#### We Paid \$100.000

For the American rights to Liqu We did this after testing the product for two years, through physicians and hostwo years, through physicians and nos pitals, after proving, in thousands of difficult, cases, that Liquozone destroys the cause of any germ disease.

Liquozone has, for more than 20 years been the constant subject of scientific and chemical research. It is not made and chemical research. It is not made by compounding drugs, nor with alcohol. Its virtues are derived solely from gas-largely oxygen gas—by a process requir-ing immense apparatus and fourteen largely oxygen gas—by a process requir-ing immense apparatus and fourteen days' time. The result is a liquid that does what oxygen does. It is a nerve food and blood food—the most helpful thing in the world to you. Its effects are ex-

#### Prince Edward Island Fruit Growers

The Fruit Growers' Association of E.I. met in Charlottetown Hall, on P.E.I P.E.I. met in Charlottetown Hall, on Dec 21. There was a large attendance of energetic, enthusiastic horticulturists. of enerveic, enthusiastic horticulturists. The meetings were pronounced a great auccess. The fruit experts present were A. McNeill, Chief of the Fruit Division; W. T. Macoun, Horticulturist, Experi-mental Farm, Ottway, W. S. Blar, Nappan, and G. H. Vroom, Chief Fruit Inspector for N.S. Excellent addresses Sentor Ferguson, A. Martin, M.P., and others.

others. The exhibit of apples was a very large one, and far outclassed not only in plate exhibits, but also in boxes and barrels packed for export, anything ever before shown here at his season of the year. A large number of di-ferent varieties of apples were exhibit-

#### ISLAND APPLES

ISLAND APPEES As commercial apples for the Island Mr. McNeill especially recommended Alexander, Wolf River, Gravenstein, Baxter, Wealthy and Riuston Fippin. He would not grow the Spy here at al. Ben Davis and Shark will not do so well here as in other parts of Can-ada. The McIntosh Red does well here, also Russets and Bishop Pippins. Kings are not prolife enough. Mr. Vroom claimed that the Baldwin could be successfully grown on P.E.L. Mr. McNeill said that the Melntosh Red can be grown successfully here if handled with proper care and intelli-gence.

Senator Robertson said that he be Senator Robertson said that he be-lived we should find a market for our fruit not only in Great Britain, but in the great Northwest. The Freed Orchard in Kny's County had been planted over 100 years ago, and trees in k are still bearing. The "Clarke Tree" is known to be over 110 years

hilarating vitalizing, purifying. Yet it is a germicide so certain that we publish on every bottle an offer of \$1.000 for a disease germ that it cannot kill. The reason is that germs are vegetables; and Liquozone-like an excess of oxygen-is deadly to vegetal matter.

There lies the great value of Liquozone It is the only way known to kill germs in the body without killing the tissue, too. Any drug that kills germs is a poison and it cannot be taken internally. Every physician knows that medicine is almost helpless in any germ disease.

#### Germ Diseases.

These are the known germ diseases. All that medicine can do for these troubles is to help Nature overcome the germs, and such results are indi-rect and uncertain. Liquonone attacks the germs, wherever they are. And when the germs which cause a disease are assuroyed, and forever. That is inevitable.

bacess - Anne ronchitis lood Polson right's Dises owel Trouble oughs-Colds onsumption onic - Croup

wer Troubles alaria-Neuralgi any Heart Troub les-Pneumonia

old, and another tree at Newton, Belfast, is 93 years of age, and it bore fruit last year. Mr. McNeill stated that by the exer-

Mr. McNeill stated that by the exer-cise of brains and care \$50 to \$75 an acre, clear of expense, can be made out of apple growing, and he knew of no better or more profitable use to make of land.

#### SOME DIFFICULTIES

Mr. J. Johnstone read an excellent paper entitled "Some Difficulties of Is-land Horticulture." He advised the growing of windbreaks, as much injury is done to trees for want of shelter. <sup>13</sup> uone to trees for want of shelter. Spraying and pruning should be at-tended to properly and more co-opera-tion is needed. President Burke said that co-operation was the main thing before the Association.

#### GUIDES TO SUCCESS

Mr. Macoun followed with an address, Mr, Macoun followed with an address, "Guides to Success in Fruit Growing," showing the need of good marketing, best location for an orchard, selection of best varieties, careful planting, avoid-ance of over-pruning, proper spraying, protection of trees from mice by placing thick building paper around the trunks and from sun-scald, by wrapping birch bark around the tree. He considered all of P.E.I. one grand orchard site, and in the few acres where good angles canin the few acres where good apples can-not be grown, we can grow cranberries. He said we should plant more trees. In planting trees never let the roots get dry. Spraying is necessary.

#### CRANBERRY CULTURE

C. R. Dickie, in his address on cran-C. R. Dickie, in his atories of vian-berry culture, said that of late consider-able attention is being paid to this branch of horticulture. There have been two very bad seasons. The year 1903 was bad, owing to the drought. This year there were only a particul aroo. Ha had there was only a partial crop. He had

Tuberculosis Tumors-Ulcera Varicocele hea-Gloot cocelo len's Disease

All diseases that begin with fever-all inflam-tation-all catarth-all contagious diseases-all the walts of impure or peisoned blood. In nervous debility Liquozone acts as a vitaliser, complishing what no drugs can do.

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tor ti blank 458-46	his offer may not appear again. Fill out the cs and mail it to the Liquozone Company, 4 Wabash Ave., Chicago.
	isease is. are nover tried Liquezone, but if you will y mea 50c, bottle free I will take it.
\$35	Give full address-write plainly.

only 15 bbls. himself, when he should have had 100. In the whole neighbor-hood 150 bbls. were shipped, where On every there should have been 500. On every farm there are sections suitable for cranberry culture-low, swampy or bar-ren places. The ground should be laid off in beds 50 or 100 feet or larger, but not too large to lose control of the water. These beds should be covered with s inches of dry, sharp snad. Flood-ing the cranberrise ensures a crop every season and preserves the plants from frost. His oldest plantation is 32 vers old, and the growth is still. there should have been 500. 32 years old, and the growth is still vigorous.

#### MODEL ORCHARDS

Mr. Ready submitted his report on model orchards. There are nine of them here, three in each county. A circular had been sent to the managers of each in order to find out the comparative climate adaptability of the various varieties, the causes and extent of the in-juries, and also what educational work has been attempted, and what success attained. Winter killing was the most frequent cause of damage, with one or two reports of harm done by sun-scald

There is on the farm of Mr. Peter Martin an apple tree 93 years old, which is still bearing.

Senator Ferguson said that of the late fall or early winter varieties the Baxter Lall or early winter varieties the Baxter or Le Rue is very promising. The McIntosh Red, is a beautiful apple of ligh quality and an excellent bearer. Ile advised fruit growers to plant the varieties which have proved most auc-cessful in Nova Scotia, where the cli-mate resembles our own.

#### STRAWBERRIES AND PLUMS

Mr. Macoun delivered an excellent address on Strawberries. Among the most productive he mentioned Burback,

Greenville, Enhance, Glemmery, Wil-liams, Lovette and Warheld. Mr. D. J. Stewart, of Bastehurst, read in the standard state and the standard state ing." He and theat the plum thrives on the Island with intelligent care. By the latter is meant: (1) A proper care in selecting a site for an orchard; the site ought to be sheltered on the north and west. (2) The purchase of good healthy stock from some reliable nur-sery. (3) Proper care and cultivation by manuring each year and growing a crop of roots or potatoes until the roots of the trees occupy all the ground. (4) Care of the tree. (5) The selec-tion of suitable varieties.

(4) Care of the free. (b) the selec-tion of suitable varieties. Rev. Father Burke, the well-known and energetic president of the associa-tion, submitted a lengthy, interesting report. Nearly all the old officers were re-

elected.

elected. Lieut.-Governor McKinnon becomes patron and Mr. D. P. Irving, Vernon River, and D. L. Stewart, Montague, directors.

directors. President Burke was unanimously elected for another term, the general opinion being that no other could fill the position as well.—A. R. 38

#### Preventing Loss of Bees in Winter

Preventing Loss of Bees in Winter Seeing that every colory has a fertile queen, of the best wintering strain, and thirty pounds of winter stores, would reduce the percentage of winter loss very much. The colder, it is the more compactly bees cluster. If stores more compactly bees cluster. If stores do not reach the cluster they may not be able to break the cluster to reach the stores, and starve. This is frequently the case during prolonged cold spells, and only a moderate amount of stores in the hive.

In the nive. The moisture given off by the bees should be expelled from the hive. After allowing in outside wintering sufficient packing to protect from cold, there are two methods advocated. By means of one, the fresh air is brought in at the entrance of the hive, and the air laden with moisture and carbonic acid gas carried off at the same open-

The other method is to bring in the pure air at the entrance and carry the foul air by the pressure from the fresh air entering the hive, and the natural tendency for the warmed air to rise, by these means to carry the exhausted air through the packing above.

Arthur C. Miller, in the Review, lays down in no uncertain tones that the entrance is the proper opening for fresh air, and also the outlet for foul.

The entrance is the proper opening for fresh air, and also the oulet for foul. In a stove we have the place where the fresh air enters, as in the hive we have the entrance to the hive. In the wood and fire we have combustion and oxida-tion, as with the bees and honey we have combustion and oxidation. When the fresh air entrance becomes the na-tural oust if or the smoke and earbonic will be the natural outlet for the exce-hausted air of the hive what has a to the smoke and earbonic magnetic structure of the hive hausted air of the hive hausted air of the hive. In the common entrance and outlet we have what is known in science as a friction of air currents, the bees wast-ing energy in expelling it, as they do in forcing the warmed atmosphere down. Another objection is that more or less of the exhausted, impure air, must be drawn back into the hive by what is known as diffusion of gases. But ym colder diffusion of gases. But ym colder diffusion of the side of dangerous that this advice has led to the lows of many a colony of bese during the past winter, is that as the moisture-laden air returns to the colder nart of the hive winter, is to that as the moisture-laden air returns to the colder part of the hive, it condenses and freezes, the distance inside the hive the moisture condenses depending upon the cluster, the size

of the hive, the size of the entrance and the efficiency of the packing. Such conditions were common, and the cold anomitions were common paramite, which and damp atmosphere with the frozen entrance destroyed the bees. Let me say that cold alone' rarely kills bees. I saw in Norfolk during the latter part of March bees alive and appa-ently in fair condition that had been standing out all winter in hives, with upper stories, and a  $j_5$  inch hive cover, the combs and the bees in the lower chamber of the hive did not even have a limit and the bees the mean the combs and the bees been the meanes there surely in abundance, but no moi-ture lingered in the atmosphere about the bees. the bees

the bees. - The right method is the chimney principle; the foul air carried away at the top, packing enough to keep the bees warm, but not so abuniant or so compact that the foul air could not rise through the packing on the hive. Here where the moisture leaves the hive the hive is warm, the heat of the cluster and the air rising and no conden-reaches the top of the packing, or until it strikes the under cide of the outside is strikes the under ide of the outside case cover. Here it can be disposed of at favorable periods by allowing moderate ventilation under this cover. The common opening ventilator is wrong in principle in any climate, but par-ticularly injurious and dangerous in a cold climate. I trust I have made this clear.

In inside wintering there have been heavy losses, chiefly in repositories which could not maintain an even and sufficiently high temperature. The moisture above mentioned has also not been carried off, this combination with the temperature sendition in baryou with low temperature resulting in heavy

Our own repository, which will hold Jood colories, and has this winter 700 in it, is specially built with the object of securing a uniform but sufficiently high temperature. The fresh and the foul air is not brought in at the same entrance, but for convenience and economy of space the back of the hive is raised two inches on the stand and \$\frac{1}{2}\$ inches from the bottom board. is raised two inches on the stand and 3% inches from the bottom board. Through this rear opening the foul air escapes.—R. F. Holtermann, at Bee-keepers' Convention.

#### 38

#### The Brown Tail Moth

The Brown Tail Moth This destructive pest has reached Maine and is now in close proximity to some of the second second second second Bulletin tos the Maine provinces. In Bulletin tos the Maine provinces and and points out the danger of allowing it to get a foothold. If destroys hard-wood trees as well as raspherry and blackberry bushes. The poisonous ef-fects of the hairs are worse than "iyy" poisoning. Citizens of the State are urged to make themselves acquainted with the pest in order that they may recognize it and have it destroyed.

An attendant in one of the branches of the New York public library noticed that a little negro boy who came fre-quently to the library invariably went to the same shelf and took the same book, which he seemed to enjoy im-mensely. Curious to know the name of the book, she followed him to the shelf, where she found him looking at a picture of an old darkey being chased by a bull. A wide grin stretched from side to side of the little follow's face. "What's the ioke?" asked the surprised attendant. "Golly the ain't ketched 'im yet!" replied the delighted child.

16 January, 1005.

# DEAFNESS CAN BE CURED

I Have made the Most Marvellous Dis-covery for the Positive Cure of Deaf-ness and Head Noises and I Give the Secret Free.

With This Wonderful, Mysterious Powe Have Made People Deaf For Years He the Tick of a Watch in a Few Minutes

Send Me No Money-Simply Write Me About Your Case and I Send You the Secret by Return Mail Absolutely Free.

After years of research along the lines of the deeper scientific mysteries of the occult and invisible of Nature-forces I have found the cause and cure of deafness and head noises, and I have been enabled by this same mysterious knowledge and power to give to many unfortunate and suffering persons per-many unfortunate to all suffering persons per-

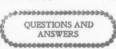


I Have Demonstrated That Deafness Can Be Cured-Dr. Guy Clifford Powell.

Corred-Dr. Guy Cillford Powell. Be for hearing again: and I say to these who have thrown saws their money on cheap douches, and the list of innumerable trash that is offered the pable through flaming etage cirrel. I ask no money. My treatment method is one that is as simple it can be traily, absolutely free, and you gay for it only after you are thoroughly covinged that is will be the source of the source of the rule, absolutely free, and you gay for it only after you are thoroughly covinged that is will cure you, as it has others. It seems now method how long you have been deal nor what samed your desfues, this new and permaently. No matter how many co-this new mage method your one of the source of each of the source of the source of the source of the source mage method with the source of the entry out. I prove this to your entire satis-faction before you gay a court for it. Write with the trained method of the for it. Write with the trained and were and full infor-mation by return mail.

#### Only Once

Only Once It was a pitiful mistake, an error sad and grim. I waited for the rail-way train, the light was low and dirariage stepped a lain with the same looking up and down the place, she straight unto me came. "Oh, fack" she cried, "Oh, dear old Jack" and kissed me as she spake; then looked again, and, frightened, cried: "Oh, what a bad mistake!" I said, "For-give me, maiden fair, for I said, "For-give and as regards the kiss yeak." An I stughtway give "ye-often stood upon the platform din; but only once in a man's whole life do such things come to him.-Tit-Bits.



#### Feeding a Colt in Winter

I have a young Clydesdale foal that would like to winter well. I am I would like to winter well. I am giving it a quart of new milk, a little oatmeal porridge night and morning, and corn mixed with bran and linased cake. Will the cow's milk make the hoofs brittle? Is my system of feed-ing all night?—C. R. milk night and morning, in addition to the corn, bran and linased cake make a splondid ration for a young

to the corn, bran and linseed cake make a splendid ration for a young colt. If you can get the colt to take this it should do well. It is all non-sense about cow's milk making brittle hoofs. Milk contains a large quan-tity of the elements necessary for horn formation. If such were the case what about the hoofs of calves? They would also become brittle.

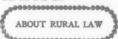
#### .58 Sows With Cold

I have a couple of sows that wheeze a lot as though they had something in their nostrils. They eat heartily and have access to a well-bedded stable and a straw stack for sleeping quarters. They usually sleep about the stacks. Is the ailment contagiquarters. T the stacks. ous?—A. H.

The trouble is not likely to be contagious, and is probably caused by the sows catching cold or getting dust into their lungs from sleeping about the stack. Give each a dose of Epsom salts, and feed soft foods for a while. .58

#### Does Not Breed

Does Not Breed I have a beifer that dropped a calf when she was two years old and has failed to get with calf since. She is in good condition. What would you advise me to do with her2-J. C. &. Unless there is some important reason for doing otherwise, our ad-vice, if the heifer is in good condi-tion, is to sell her for beef, as treat-ment would necessitate thinning her down in flesh, and the possibilities of down in flesh, and the possibilities a permanent cure are uncertain. The treatment recommended is to feed treatment recommended spare rations, open the mouth of the womb when she is in heat and breed at time of next heat. until she is in calf. Follow this plan



#### \$

In this column will be answered for any In this column will be answered to any aid-up subscriber, freeof charge, questions of ww. Make your questions brief and to the coint. This column is in charge of a comlaw. point. etent lawyer, who will, from time to time, sblish herein notes on current legal matters of interest to farmers. Address your com-munications ' to "Legal Column," The munications ' to "Legal Farming World, Toronto.

#### Legality of a Marriage

Q .-- 1. If the bridegroom signed the bride's name, in the bride's absence, on the marriage certificate, would the marriage be legal? 2. Would it be a

marriage be legal? 2. Would it be a legal marriage if a girl were married by the name her mother bore, that is, after her mother had been divorced and married again 2-A. Subscriber. A.--1, Yes. The certificate has noth-ings to do with the legality of the mar-riage, it is only proof of the marriage. The marriage would just be as legal if there were no certificate at all. 2. Yes. It is the person who is married,

not the name. The above fact would not affect the legality of the marriage, but might give rise in later years to difficulties as to proof, unless the girl had been in the habit of going by her

#### **Rights** of Inheritance

ragns of inneritance Q.--. Is an illegitimate child entitled to any share in his father's property as against his father's brothers and sisters?--. L. C. A.--. No. He cannot inherit any-thing from his father, but his father may will his property to his illegiti-uale son.

mate son.

#### Injured by Horse

Q .-- A has a balky horse. He told Q.—A has a ballcy horse. He told his hired man to get on its back and try and ride it. It would not go and A struck it with the whip. The horse started off and despite the efforts of the hired man to stop it, it ran against and knocked over B, who was severely in-jured. The hired man called to B but he did not get out of the way in time. 1. Can B recover damages from A? 1. Can --O. B.

—O. B. 1. A.—I. No. What A did could not be called negligence, and the hired man did all he could to avert the accident. Even if A's act had been negligent we would think the consequences were too the hire with liability for the remote to fix him with liability for the accident.

A counsel had been cross-examining a witness for some time with very little effect, and had sorely taxed the patience of the judge, the jury and everyone in court. At last the judge intervened with an imperative hint to the learned gentleman to conclude his cross-examination. The counsel, who received this judicial intimation with very bad grace, before telling the witness to stand down, before telling the witness to stand uown, accosted him with the parting sarcasm: "Ah, you're a clever fellow, a very clever fellow! We can all see that!" The witness bending over the box quietly retorted, "I would return the compliance if I were not on oath." compliment if I were not on oath.

#### When Greek Meets Greek

(Continued from Page 61.)

(Continuea from Fage oi.) shouldn't have run away, and I wasn't thoroughly happy until 1 had decided to run back again." "Mother," demanded troubled Alma, "do you think I'm like uncle Timothy? Of all grumbling, hyper-critical mortals..." critical mortals-"Well," admitt

"Well," admitted Mrs. Boyce, try-ing not to smile, "there have been moments when you've reminded me of your Granduncle Timothy. You

of your Granduncie Timothy. You certainly have characteristics.--" "Then I'll get over 'em!" declared Alma, grimly. "I don't like what I'm coming to --an Uncle Timothy in petticoats! Ugh!"

Oddly enough, a few days later, Uncle Timothy, recovered from his illness, expressed a fear that he was growing like Alma, who for the mo-ment had forgotten her intention of reforming,—a seventeen-year-old habit does not vanish in a moment,—

habit does not vanish in a moment,---and was grumbling bitterly because the etamine skirt sagged in the back. "I abominate a skirt that hangs in scallops!" said Alma, twisting to east a displeased glance over her shoulder at the long, graceful folds behind her. "All the skirts you make, mother, go up and down in waves." "In a loud whisper, "uncle Timothy, in a loud whisper, "uncle Timothy, "In a single whisper, sometimes," confessed ruthful Ruth, with the smile that came near to pleasing even cap-

that came near to pleasing even cap-tious Uncle Timothy. "Well, if that's the case," he re-

turned, "I'd thank anybody that'd just say 'Alma' whenever I seem to be getting cantankerous. If 1 thought 1 was getting as hard to please as she is I'd-I'd join a don't-gumble club." It really seemed afterwards as if Granduncle Timothy's visit had proved generally beneficial, for it was noticed by all the large family connection that with time Alma certainly grew swetter, far more considerate toward sweeter, far more considerate toward her mother, and decidedly less petu-lant; and that Uncle Timothy occalant; and that Uncle Timothy occa-sionally stopped short in the middle "Alma!" and then became, in his suddenly altered mien, almost lamblike.

Books and Bulletins SILAGE VS. GRAIN FOR DAIRY COWS-Bulletin 155. Experiment Station, Wooster, Ohio. TRADE AND NAVIGATION, TABLES OF.-For the Dominion of

Canada for the year ending June 30th,

VARIETIES OF STRAWBERRIES. Wooster, Ohio. FORCING TOMATOES.—Bulletin

Experiment Station, Wooster.

TREES AND SHRUBS TES MANITOBA AND THE NORTH-WEST TERRITORIES.—Bulletin 47.

Experimental Farm, Ottawa, SOY BEANS, FEEDING EXPERI-MENTS, ALFALFA.—Bulletin 106, Experiment Station, Orono, Maine. Experiment Station, Orono, Maine. FUMIGATION APPLIANCES.

Report of Inspector.—Department of Agriculture, Toronto. REPORT OF THE AGRICUL-TURIST.—Central Experimental Farm,

DISEASES OF PLANTS.—Bulletin 36. Department of 'Agriculture, 'To-

DESTROYING BLACK FLIES .-Bulletin 112. Experiment Station, Dur-ham, New Hampshire. PROTECTING COWS FROM

ham, New Hampshire. PROTECTING COWS FROM FLIES.—Bulletin 32. Experiment Sta-tion, Storrs, Connecticut. FOOD VALUE OF MILK SOLIDS. —Bulletin 31. Experiment Station,

FOOD VALUE OF MILK SOLUDS. -Balletin 31. Experiment Station, Storrs, Connecticut. REGISTRAR OF LIVE STOCK, REPORT OF, FOR 1903.—Dept. of Agriculture, Toronto. REPORT OF THE HORTICUL-TURIST.—Central Experimental Farm,

Ottawa. NATIONAL LIVE STOCK CON-VENTION, REPORT OF, FOR 1994. —Department of Agriculture, Ottawa. FEEDING CATTLE.—Bulletin 85. FEEDING CATTLE.—Bulletin 85.

FEEDING CATTLE.—Bulletin 85. Experiment Station, Lincoln, Nebraska. DESTROYING PRAIRIE DOGS.— DESTRUTION Bulletin 86. Experiment Bulletin 86. Experiment COW PEA IN THE NORTH-COW PEA

vania. GRAPE CULTURE.-Bulletin 128.

State College, Pa. ALFALFA CULTURE IN HUMID LANDS.—Bulletin 129. State College,

Pa. CENTRIFUGAL SOIL ELUTRIA-TOR.—Bulletin 89. Experiment Station,

Logan, Utah. HOME-GROWN PROTEIN, ET

HOME-GROWN PROTEIN, ETC. -Balletin 98. Experiment Station, Col-lege Park, Md. SWEET CORN.—Bulletin 96. Experi-ment Station, College Park, Md. PEANUTS.—Bulletin 84. Experi-ment Station, Fayitteville, Arkansas. BROWN TAIL MOTH. ETC.—Bul-letin 103. Experiment Station, Orono, Maine

Raine. REPLACING GRAIN WITH AL-FALFA, ETC.—Bulletin Vol. XVII. FALFA, ETC.-Bulletin Vol. No. 4. Experiment Station, Knoxville,

#### THE FARMING WORLD

# Farmers' Institute Meetings

Supt. Geo. A. Putnam has announced the places and dates for the regular and supplementary meetings of the Far-

#### REGULAR MEETINGS

FEGULAR MEETINGS Division 1-Jan. 20th, Kincardine; 21st, Kipley; Feb. 1st, Dunganon; 2nd, Auhurn; 2nd, Bruskel; 4th, Wroxere; 6th, Teeswater; 7th, Lavery's School House; 8th, Lakelet; 1th, Cargill; 10th, Port Eigin; 11th, Tara; 13th, Hepworth; 14th, Wiarton; 15th, Hanover; 10th, Durham; 17th, Glenallen; 18th, Dray-ton; 20th, Painerston; 21st, Farvell; 22nd, Cedarvale and Coun; 23rd, Cun-mock; 24th, Marsville; 23th, Frin; 37th, Horning's Mills; 2nd, Riverview; 3rd, Rilessy; 4th, Laurel. Speakers-W. F. Kydd, Sincore; G, Barbour, George-town; Miss L. Gray, 630 Bathurst street, Toronto.

Detroit, and L. Gray, 600 Ealmirst street, Division w. -Jan. 234, Thamesville, Feb. 1at, Tecumschi, 2nd and 3rd Essex; 4th, Woodker et dh. Yalettar, 7th, Rom-ney; sth, Rodney; wth, Highgate: 10th, Dutton; 1th, Shedder; 1sth, Mellourne and Middlemiss; 1ath, Walker's School House; 13th Bruechield; 2nd, Eszler; 2nd, Parkhill; 2ath, Ailsa Craig; 26th, Petrolia; 1sth, Wyoming; 20th, Thed-ford; 21st, Bruechield; 2nd, Eszler; 2nd, Parkhill; 2ath, Ailsa Craig; 26th, derton; March, 1st, Wilton Grave; 7th, Kimtore; 3rd, Spakers-Pred A. Shep-pard, Queenstown; John Donaldson, Port Williams, N.S.; Miss Blanche Maddock, Guelph; A. B. McDonald, Appin. Appin.

Maddock, ousephi, A. B. McKouman, Division 4—Jan. 31st, Scotland; Feh. Ist, Oshwekin; 2nd, Ancaster; 3rd, Stoney Creek: 4th, Campden: 6th, St. David's; 7th, Niagara Falls; 8th, Hum-berstone: 9th, Pellenn Centre; 10th, Cathoro; 11th, Koller; 13th, Caledonia; 14th, Onovdaga; 13th, St. George; 10th, Vitoria; 3rth, Langton; 18th, Delhi; 20th, Courtland; 21st and 22nd, Aylmer; 23rd, Waterford; 24th, Bealton; 23th, Norwich; 27th, Mount Eign; 28th, Mor-riston and Aberloyle; March 1st, Speed-side; 7nd, Breslau; 3rd, Waterloo; 4th, New Hamburg; 6th, Wellesley, Speak-ers-G. H. Hutton, Easton's Corners; J. L. Hibburn, Leamington, Roka, Miller, Stoniffer; Brunswick Ave, Toronte

Miller, Stouffville; Miss Millar, Guelph; Mrs. Joy, 317 Brunswick Ave., Toronto. Division 11—Jan. 31st and Feb. 1st, Vankleek Hill; 2nd, Glen Robertson; 3rd, Maxville; 4th, North Branch; 6th, South Branch; 7th, Northfield; 8th, Osnabruk Centre; 9th, Newington; 10th, Brussell): Uth Kentwers; 10th Chaeter.

sho, renerang: srd, Vasey; oth, George-town: 7th, Nassagaweya; 8th, Water-down; 9th, Rockton: 10th, Freelton. Speakers-T. H. Mason, Straffordville: Harold Jones, Maitland; Anson Groh,

#### SUPPLEMENTARY MEETINGS

SUPPLEMENTARY MEETINGS Division an-Feb. 2nd, Tiverton: 3rd, Underwood; 4th, Burgoyne and South-ampton; 6th, Allenford; 7th, Mar; 8th, Spry; 9th, Lion's Head; 1th, Eamwood; 18th, Mildmay; 14th, Walkerton; 15th, Belmore; 16th, Lucknow; 17th, Holy-

rood; 18th, Harriston; 20th, Clifford; 21st, Drew; 22nd, Ayton; 23rd, Hol-stein; 24th, Dromore; 25th, Elmville; 27th. Crediton: 28th, Grand Bend: 27th, Crediton: 28th, Grand Bend; March 1st, Zurich; 2nd, Hensall; 3rd, Bayfield; 4th, St. Columbian: 6th, Greives; 7th, Harlock; sth, Bluevale; 9th, Ethel; 10th, Molesworth; 1th, Fordwich, Speakers-Dr. H. G. Reid, Georgetown; J. L. Warren, Acton; G. Murrdie, Seaforth; Mrs. Colin Campbell, Goderich, Lan 2012 Caminder Edu

Toderich. Division 4- ann. 31st. Twistock; Feb. 1st, Sebringville; 2nd. Fullerton; 3rd, Staffa; 4th, Krikton; 6th, Granton; 7th, Lucan; 8th, Lobo; 9th, Adelaide; 10th, Sylvan; 1th, West McGillivray; 13th, Greenway; 14th, Fuller's; 15th, War-wick; 10th, Forest; 17th, Camlachie; 1sth, Sarnia and Bunyan's School House; 20th, Courtwright; 12th Wilkes-port; 22nd, Becher; 23rd, Rutherford; 24th, Oakdale; 23th, Inwood; 27th, Sheiland; 28th, Alvinston, Speakers-Robt. Thompson, St. Catharines; D. James, Langstaff.

James, Langsiaff. Division & -Feb. 1st, Princeton; 2nd, Drumbo; 3rd, Innerkip; 4th, Hickson and Cassels; 6th, Brooksdale and Em-bro; rth, Thamesford; 5th, Dorchester; 9th, Harrietsville; 1oth, Ghuworth; 11th, Lambeth; 13th, Hyde Park; 14th, Bryan-ston; 13th, Wellburn; 16th, Thomdale; 17th, Mount Bridges; 18th, Appin; 20th, bee's; 23rd, Simoore 24th, Twrrell; 23th, Windham Centre; 27th, Kelvin, Speakers-9, W. Clark, Cainsville; A. C. Hallman, Breslau; A. B. McDonald, Appin. Appin

Appin. Division 7—Jan. 31st, Corinth: Feb. 1st, Port Burwell; 2nd, Mount Salem; 3rd, Mapleton; 4th, Cowal; 6th, Middle-march; 7th, West Lorne; 8th, Duart;

Jas, Fort Burvelli, 2no, Adomit Salemi, 3ard, Mapierous, 4th., Cowal, 5th., Middlemarchi, 7th., West Lorner, 8th., Duart; 9th., Kidgetowa, 10th., Buchenian, 11th., Gab., Dover Centrey, 10th., Hub, Eur. Sch., Comber, 13th., Belle, River, 2noth., Old Castle: 21st, Canard; 22nd. Anherst-burg; 23rd, Harrow; 24th., Kingsville; 23th., Leamington; 27th and 28th., Wheatley. Speakers-W. S., Fraser, Bradford; W. E. A. Peer, Freeman; L. N., Newman, Ottawa. Division 8-Jan. 30th, Smithville; 23th., Leamington; 27th and 28th., Wheatley. Speakers-W. S., Fraser, Bradford; W. E. A. Peer, Freeman; L. N., Newman, Ottawa. Division 8-Jan. 30th, Smithville; 31th, Neilandport; Feb. 1st, Marshville; 20th, Cambrasi; 7th, Decewsville; 5th, Rainham; 9th, Chenpside; 10th, Fairground; 10th, Tilbohurg; 7th, Brownsville; 31th, Bergesville; 28th, Berdenburg; 27th, Hartow; 18th, Bergesville; 28th, Catheret; 28th, Martoret; 28th, Berger, Chrone, Scharret; 20th, Stherret, Warkworth; Miss L. Gray, Toronto; Mrs. Jens, Perker, Markov, Bard, Andrey, Bard, Scharret; 28th, Scharret; 28th, Scharret; 28th, Scharret; 28th, Scharret; 28th, Scharret; 28th, Berger, Stherret, Vitoria; George Carlow, Warkworth; Miss L. Gray, Toronto; Mrs. Jens, Perker, 28th, Scharret; 28th, Scharret; 28th, Scharret; 28th, Scharret; 28th, Scharret, 28th, Beart, Scharret, 28t

ers-G, C. Caston, George Carnow, Shearer, Vittoria; George Carnow, Warkworth: Miss L. Gray, Toronto: Division 9-rFeb. 1st, Allenburg; 2nd, Quacker Road: 3rd, Crowland: 4th, Air Line; 6th, Willoughby; 7th, Ridge-arc sah, Stevensville; 9th, Brown's Air Line: 6th, Willoughby; 7th, Ridge-way: 8th, Stevensville: 9th, Brown's Road: 10th, Virgil; 11th, Grantham; 13th, Jordan Station; 14th, Beansville; 15th, Grinsby; 16th, Wilnona; 17th Tapleyton; 18th, Binbrook; 20th, Gjan-Tapleyton: 18th. Binhrook: 20th. Gim-ford: 21st. Carluke: 22nd. Jerseveile: 23rd. Landen: 24th. Scotts and Sheffield; 23rd. Kirkwall: 27th. Westver: 28th. Millerove: March 1st. Carlisle: 2nd, Js-lington: 3rd. Elia: 4th. Keinburg: 6th. Maple: 7th. Thornhill: 8th. Unionville; 2nd, Boxgrove: 10th. Westord. Speak-erts-Elmer Lick. Oshawa: Erland Lee; Stomy Creck: Miss B. Millar, Gaelpit. Division 10-Feh. 2nd. Milliganic: 4th. Lawford and Cainsville: oth. Whites, and Moyle's: 7th. Man's and Glemorris; (Continued on Page 78)

(Continued on Page 78.)



16 January, 1905.

## Farm Implements and Conveniences

#### To Save an Axe Handle

A simple device is shown in accom-panying illustration to save an axe han-dle from wearing out at the weakest point, and is very easily made by taking



the end of a tin can, bending it at the dotted line and tacking it on the axe handle to letter A. It is easily and quickly done, and will well repay any-one for the time and trouble.

#### 34 An Earmark for Sheep

A French sheep farmer has invented a new form of metal earnark for sheep, which he has given to the country. It possesses several advantages, among which are that it is economical when made by a country smith or when turned out in large numbers in a factory. It may be altered in shape and in marking to suit individual requirements. may be made in soft iron, in white metal, or in nickel. The flat portion is pierced with five holes, which are used by the



designer to have reference to lambs. The figure 4 relates to the year of birth of the sheep. The holes may be omitted and a letter or letters stamped on the flat surface to show the ownership or to refer to a record of pedigree. The mark is fixed to the sheep's car. and the open end of the metal is passed through. By means of a pair of pincers the ring is formed, and the mark is securely fixed—*Australian*. designer to have reference to lambs. .58

#### To Prevent a Cow Sucking Herself

A farmer, writing to the "Breeders' Gazette," gives the following mode of preventing a cow from sucking her-self. Put on a strong halter and a sur-cingle round her body just behind her



front legs, as shown. The a succe-an-old fork handle will do-to a ring in the halter, pass the stick between the cow's front legs, and tie the other end to the surcingle, letting this end front legs, as shown. Tie a stick-an

hang three inches or four inches below the surcingle. This will prove no inconvenience to the cow, and she will be unable to suck herself while she 38

#### A Handy Farm Ladder

This ladder is made in two sections varying to any convenient height. The sections vary from 10 to 12 feet and are very desirable. These ladders are held very desirable. These ladders are held together at the top with a strong wrought iron strap hinge, so placed that the two sections can be closed together or used singly, if desired.



This is a very convenient device to use in orchards for pruning trees. It is also handy at harvest time. With use in orchards for pruning trees. It is also handy at harvest time. With two ladders of this sort, a board can be placed from one to the other and make a very convenient platform of any desirable height. The device is simple, cheap and easily made at home.

#### .18 Chaff Forks

Figure 1 represents a home-made fork with tines about 2 ft. long, and having a spread of 20 in. The teeth are straight above, and curved towards the point. They are fastened by screws to the 3 in. hardwood head, and strengthened by an hardwood head, and strengthened by an iron rod near the head, and by a round wooden rod, which passes through them, and to which they are tacked fast. The head is strengthened by a similar piece of oak or ash, half-an-ineh thick, screwed upon tis edge, and through which the hand a good hold, and is fastened by hand a good hold, and is fastened by



#### 910. 1

\*\*0.1 wiring to the top side of the head. Such a fork may be made quite light, and the six times being only 4 in. apart, will handle either chaff or light straw to good advantage. We give, by way of comparison, a simple chaft fork (the fully splitting a single piece of hickory or ash, handles and times being formed of the same atick. A time-ferule or the same atick. A time-ferule or the some and the same store of the same store. or ash, handles and times being formed of the same stick. A ring-ferule or band of wire is placed at the point beyond which the splits may not go, and, after the splits are made, the times are spread part by wedge-shaped pieces of wood. These forks are easily made, and are the very best stable forks that can

be used. There is no danger of pricking horses or cattle with them, and if one be carelessly left in the stable, or falls down, neither man nor beast is likely to be hurt.

"Why did the congregation hurry out so suddenly after the benediction?" "The sexton makes them leave their umbrellas in the vestibule, and those who get out late haven't much chance of a choice."

The rain it raineth every day Upon the just and unjust fellows; But, chiefly on the just, because, The unjust take the just's um-



The above is "Queen Ideal." fourceen months old, roon beifer, winner at Chi-cago International Exhibition, over all comers, including the World's Fair champion. It can safely be said this animal is not outclassed the world over. She is the property of R. A. and J. A. Watt, Salem, Ontario. Messrs: Watt feed Worthington's Canadian Stock Timic, Read what they say of it: Gentlemen:--We have used your Stock Food with much success. We find it especially good for animals out of condition, or for horses that are not working.

Yours truly, R. A. & J. A. WATT. Salem, Jan. 5, 1905.

Salem, Jan. 5, 1905. W. H. Service, of Stayner, Contario, in ordering a 50 lb, pail, Dec. 37th, says: "1 am not sending for the pail of your Stock Food for a trial, I have had ex-perience with in please forward at once," Adam N. Darling, Mildmay, Ontario, writing Dec. 30th, says: "I have fed a good deal of your Stock Food and I would like some more. Please send me 200 lbs. of Worthington's Stock Food. Have a large stock to winter over, and can easily feed 200 lbs. of it to 60 pigs and 38 cattle. I enclose money order and 38 cattle. I enclose money order for it."

We are determined to convince stock-We are determined to convince stock-men and farmers that we have the best Stock Food ever compounded, while it costs less than half the price of any other stock food. Take advantage of our special offer, good ill tolk February. We will ship, all charges prepaid, two 25 h, pails at \$1.50 each or one 50 h, pail at \$2.57, and include with either Dougal's orrjennia English Sheen Dip and Cattle Dressing for killing vermin on stock. on stock.

on stock. Farmers should avail themselves of this special offer while it lasts. Remem-ber we guarantee Worthington's Stock Food to give entire satisfaction. If it does not we will reform monev. Send in your order today, it will have our prompt attention. Write for free pamph-

THE WORTHINGTON DRUG CO.,

Agricultural Chemists, Guelph, Ont. General Agents for McDougall's Sheep Dip.

BARREN COW CURE Makes any ani-mal under ten fund money. Given in feed twice a day. Particulars from L. F. SELLECK, Morrishung, Ont.

## In the Poultry Yard

#### A Manitoba Poultry Fattening Establishment

A Maincoa Pourty Fattening I am setting up a fattening establish-ment here. I spent the past year in by the setting my software birds. I now have be able to breed largely in the spring. For my cockerels at Christmas I got 17 cents a pound, and hear they were thought a lot of at Winnipeg, although really they were not fattened as well as I shall be able to when I have every-thing fixed up. The only thing is, I doubt if Winnipeg (anyway, as yee) will on the market. The firm I sent to said: "They were thought a lot of and were beautifully foresed, etc., but not many could aford to have them." I believe mine will be the first really utily poultry farm and fattening depot to be established in the West, and as I have any amount of wheat harvest, I

put my birds out on after harvest, I hope to do well.

PHILIP SULLIVAN, Miniota.

#### Four Acres of Pure-bred Poultry

Mr. C. E. Hodgins, a leading poultry raiser of the Eastern States, gives his experience in The Ploughman as follows:

lows: Our location seems well adapted for poultry, as the soil two feet under the surface includes considerable clay, which holds moisture and gives us thrifty grass all through the seasom.

all through the season. We have about four acres which we devote to poultry, and the tract is sup-plied with running water and shade. Our favorite breeds are the White Wyan-dottes and White Rocks, which we have been breeding for about ten years with very good success. In our judgmend, for all phones, we have amount prime for one throusand hirds, but three hun-for one throusand hirds, but three hun-

The and purposes, two better offects called not be found. We have sample num-for one this sand brids, but threads and fourthy reliance in a side same with us and taken up because we enjoy it. In mating up our pens in the fail, we take special care in picking out good, strong females of proper shape and makeup for good breeders. We like our females up to standard weight; for we look to the females to produce size and to the males for symmetry. We do not mate up large pens, but small pens, and we plan to have two or three do not mate up large pens, but small pens, and we plan to have two or three extra male birds that we can change about. We dislike to put a male bird in a pen and leave him there every day during the breeding season. If you cannot have extra male birds, we advise taking the male bird out occasionally

We give our hens plenty of litter and insist upon the scratching shed and pre-fer the oiled muslin to windows. During insist upon the scratching shed and pre-fer the olded muslin to windows. During the winter we give them plenty of work, mixed grain being fed in the litter morn-ing and night. Our mashes are fed the noon, during the warm part of the day. Our experience is that has hen fed with more the strength of the strength age and beets. Beets are easily raised and poultry are very fond of them, bon't overfeed during the winter, but beep them strong and healthy. As we our eggs. We use incubators will later in the scoon when sitting while are taken off after thirty hours a light feed of one of the popular ad-our strength in the scoon when sitting while are taken off after thirty hours a light feed of one of the popular ad-our strength offer during hours and seed. After there days we scatter in cut down or dry sand to give them more skewer is the looking for food. No mash is ever fed. After four weeks we com-

mence feeding larger grains and don't forget to include the hulled oats. We think very highly of dry bran mixed with a good grade of beef scraps fed every other day. As they grow older and stronger give them all they will be to melen the they are server

every office day. "As they grow older and stronger give them all hety will eat up clean. 'As the season grows warrier see that they are kept free from lice and give them plenty of room nights, as close, heated quarters will hinder their growth and often breed disease. Jour birds. Do not think that you can raise fine show birds because you pay some good breeder three or five dollars for a cockerel and breed it to hens of ordinary quality. It is just as impor-tant that you have good females as males. Many breeders are standing still because they think they must get new bockerel just they must get new bockerel just work of here to breed one of our own birds, that we knew was well breed, than to risk new blood of which we did not know the history. Many good-looking birds have poor breeding back of them, and they are they inherit from they are their good points. grandparents than they are their good

#### 25 Raising Geese

# <text><text><text><text><text><text><text>

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16 January, 1905.

Farmers' Sons Wanted with knowledge of farm to work in an office, 600 a month with advancement steady employment; must be houses and reliable Branch offices of the association are being established each Province Apply at once giving full par s. THE VETERINARY SCIENCE ASSOCIATION

#### STEREOSCOPE AND VIEWS FREE TO EVERY BOY OR GIRL

TO EVERY BOY OR GIRL We will give any boy crigit like strate, quality Berencorps, finely finished, best lenses and exclusion there are any strategies of the strategies of the for all willing purposes, equal to Under-the for all willing purposes, equal to Under-the Strategies of the strategies of the result like Powder retail as the powelers and many strategies of the state of the Strategies of the Strategies of the Strategies of the state of the Strategies of the Strategies of the Strategies of the state of the Strategies of the Strategies of the Strategies of the state of the Strategies of th

An Extra Present Free Multi-starte and the startest startest and the startest products and be prompt in soling them, and return us the money within 15 days, we will give you FREE in addition to the Bteresecope 6 manuful assorted Steresecopic Views, which win make you Leagh as Grow Fat. Don't wait Pulvo Manufacturing Company Toronto, Canada

# 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 positry. Any information as to importations made, the sale and purchase of stock and the condition of here and flocks that is not in the nature of an advertisement will be velcomed. Our desire is to make this the medium for converying information as to the transfer of purehered animals and the condition of ive stock throughout the country. The cooperation 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 matted to our advertising colvann.

Farming World Man on the Wing

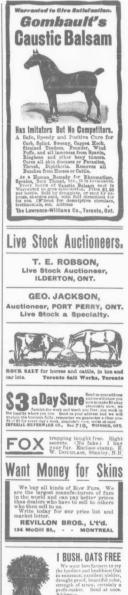
#### MR. HOGATE'S SALE.

On January 6th a splendid consigntiverpool, being shipped by Mr. J. B. Hogste, of Saraia, Ont. They wild the splend shipped by Mr. J. B. Hogste, of Saraia, Ont. They wild the splend by Mr. J. B. Hogste, of Saraia, Ont. They wild the splend by Mr. J. B. Hogste, J. Saraia, S. S. Saraia, Saraia, S. Saraia, S

Animala with such strains of blood as these possess should find a ready market anywhere. Parties requiring first class-breeding animals will do well to go to this sale, and not only bid, but bid well. A few of the pedgrees and descriptions of the individuals are: Nateby Ronald, a yaerling stallion sire the famous Gun-None (288), dam Black, vol. 27, sired by Sir James II (6393). This is a great, upstanding colt of great promise, and should, from his great breeding and appearance grow into a stallion of the first order, descended as he is from the great Bar None, and on his dam's side from such a stallion as he is from the great Bar None, and on his dam's side from such a stallion as he is from the great Bar None, and on his dam's side from such a stallion as be is from the great Bar None, and on his dam's side from such a stallion as fir James. He was noted to for great credit to whoever gets him. Nateby Orin is a yearing stallion, bay in color, and sired by Bodenham King (1777), gs. Hesterton (1368), a get of the famous Carbon (3323), who was sired by the celebrated Lincolnshire Lad zafu (1365). His dam was also noted as a great breeder, her progeny having sold at most remunerative prices in the old country. Judging from his parents this grand young horse should do may happen to fall: Nateby Triumph (vol. 26), a yearling Shire stallion, is also sired by Gunthorpe Advance, a get of the famous Bar None. He is a nice bright bay, dam Briton's Gem, vol. 20, got by the renowned Stroxton's Tom (1587), gd. Briton's Queen, by Protection (3960). He is a colt of great size and scale, and is just the sort to improve the stock of any district he may be seent into. His sire, Gumthorpe Advance, was the sire of many good prize winners in his day, and his grandsire, Bar None, was in his time unbeatable in England. His dam is also a great welfalty mare, being site past lew years won either first or championship at London Shire Horse Show, and was recognized as the best stallion in England.

the best stallion in England. Nateby King, vol. 27, another yearling stallion, bay in color, is by the same noted sire, Gunthorpe Advance, and his dam is Jennet, vol. 23, a good daughter of Earcall Wymn (14620), gd. by St. Kilda (1034), gg.d. by celebrated Cardinal (2407). This coli is, therefore, a wonderfully well bred one, being from prize winners on both wymn proved himself an illustrious sire, two of his get being winners at the London Shire Horse Show in one year. With ordinary luck this colt should prove a stallion of the first rank, and a bonanza in any horsebreeding community. Monarch, vol. 26, a by yearling stallion, is a bay, sires, and a bonanza in any horsebreeding community. Monarch, vol. 26, a by yearling stallion, is a bay, sires, Cardon, by Lincolnhire Lad and, dam Star, vol. 25, by Samson of Willington (15810), g.d. Maritana vol. 18, by Viking Bnd (12504), is a great big growing colt, with tremendous power and setivity, and should, with ordinary luck, grow into a great, good horse, with esceptional action and scale. He is undoubledly one of the tam is a big weighty mare and she traces back to Cardinal, the sire of the renovned Vulcan (425). Esclean Enterprise, vol. 27, is a brown two-year-old. He is sired by Gunthorpe Advance, which is all that is necessary to say of his breeding on that side. His dam is Pink, vol. 20, by Simon Ture (2003), g.g.d., Gracy, by Simon

well-bred mare as Pink (26549). Nateby Swell (21700) is a two-yearold, bay in color, with white stripe on face. His sire is no less than the famous Timon (5394), g.s. Rupert (3907), g.g.s. Cromwell (2415). His dam is Mopsy, vol. 22 (33184), by King Arthur (7283), g.d. Brown, by Gallant Emperor (446). With ordinary luck this animal should grow into a great big good horse. He is bred form a strain of horses noted for soundness,



Darch & Hunter, London

THE FARMING WORLD

Reasons Why CAIRNBROGIE Is a Mecca where all Clydesdale Fanciers Meet on this Continent in quest of their

# Idols and Ideals in Clydesdale Perfection

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At the 1904 Industrial held in Toronto, which is conceded to be the most attractive show of its kind in America, our recently imported Clydesdales were awarded prizes as follows :-

Stallions-4 years old and over, 1st and 2nd Prizes

Stallions-3 years old and under 4. 1st and 2nd Prizes

Stallions-2years old and under 3, 2nd Prize Stallions-1 year old and under 2, 1st Prize Mares-3 years old and under 4, 1st Prize

Mares-2 years old and under 3, 2nd Prize Group of Ten Head-Any age or draught breed, Sweepstake Stallion-Anyage 1st Prize Sweepstake Mare-Anyage On ten head we won five firsts, four 2nds, three grand Champions

If further reasons are requested as to why the public generally should regard ours as the Premier Clydesdale Stud of this continent, we will state that in the Canadian bred classes we won first in his class and champion honors on McAritie's Best (430), while the get of our Matchless Macqueen won five firsts, one second, and one third, first for two animals under two years old, the produce of one dam, and first for family group under two years old. This is now the fourth year in succession that this much coveted award has been given to the get of our invincible son of McGregor (1487), who, in turn, was the most famous son of the renowned Darnley (222).

A personal examination of our Clydesdales is cordially invited. Correspondence with intending buyers solicited.

Long Distance Telephone.

**GRAHAM BROS.** Claremont Ont., P.O. and Sta. C.P.R.



SARNIA, Out. Branch Barn at Lennoxville, Que. J. B. Hogate, Proprietor. IMPORTER OF CLYDE, SHIRE AND HACKNEY STALLIONS. 30 initiation of the second se

J. B. HOGATE, Sarnia, Ont., or Lennoxville, Que.

#### CLYDESDALES AND HACKNEYS.

importation of **Clydesdate Stallions** has arrived here, and is of the same high y as usual, carefully selected from among the best Studs in Scotland. My old and all lovers of a good **Clyde** are invited to see them. I have Two First-Class yet for sale, well work the price put on them. Phone to residence. My new importatio class quality as usual, customers and all love Hackneys yet for sale WM. COLQUHOUN, MITCHELL, ONT.

the desired, being is all that could very popular gunthand yields and that could very popular gunthand yields and yields for the renowned structure of the transmission of the second structure of the transmission of the Structure of the transmission of the transmission from his breaching and appearance is bound to grow into a fine horse. His sire, Gunthorpe Advance, and his grandsite, Bar None, are too familiar to need any further comment. His of need any further comment. His draw, also, and her sire, Structon to need any further comment. His draw, also, and her sire, Structon draw appendic the second back draw and the site of the second back in color, with star in face and white hind feltocks. He is sired by George Wellington (10075), g.s., Wellington Prince George (14437), g.g.s., Albert Edward (4307). His dam is Tidy, vol. 25, by Don and (12989), g.d., Hack Uess, vol. 21, by Oliver (3343). This is a horse that will somewhat the happen to side and back in the happen to side and back in the happen to side the biggest and best moving horses in England, and is sing any amount of good ones. His dam also is a famous breeder. Esklean Gay Boy is a bay three-year-old Shire stallon arised by Groups

This dam also is a famous breeder. Esklean Gay Boy is a bay three-year-old Shire stallion sired by Gun-thorpe Advance, dam Pink, both al-ready commented on, he being a full brother to Esklean Enterprise. He is a young stallion with all the fire and dash of a hackney. His ances-tors on both sides have been noted and dash of a hackney. His ances-tors on both sides have been noted for soundness, a thing that has been noted on his sire's side back to old Champion (302), and on his dam's side to Honest Tom (1165), who was three year-old bay satisfies and the sired by Gunthorpe Advance. His dam is Hazel, vol. 22, by Duke of Clarence (13098). His gd is Sweep, by Brentes (6829), gg.d. Pink, by Brentes (1982), gg. Sweet Press, by Brentes (1982), gg.s. Conquer-ing Harold (15258), gg.s. Conquer-ing Harold (15258), gg.s. Conquer-shire Lad and (1355). His dam is Nd. Y. ob, St. by Jolf Con (4490), Nd. Y. ob g.d. Jet, by Ploughboy sth (660i). He is a whole colored brown, rising four years of age, and just the sort to im-prove any district he gets into. His sire is a horse of exceptional weight and soundness, and his grand-sire. Conquering Harold, was sold for dioco recently, and his dam, a great mare by Jolly Tom, is just the mare to breed a stallon from.

to breed a stainon irrom. Among the mares are Jewel's Flower, vol. 27, a yearling roan by Harbling Harold, gs., Harold (3703), gg.s. Lincolnshire Lad. Her dam is August Blossom, vol. lo, by London Fashion (17703), gd. Jessie, vol. 5, by British Ensign (3723). She is a filly of great weight and power, and ever purchases her; with ordinary luck she will make a mare of 1,800

Please Mention The Farming World when writing Advertisers

16 January, 1905.

and one which, as time goes on, keeps improving. His sire, now 20 years of age, 1s as fresh and sound as a two-year-old, and his services are

as a two-year-old, and his services are in great demand, and his dam also is a great, good mare. Nateby Chief-tam, vol. 20, is two years old, bay in color. His breeding is all that could be desired, being sired by the now very popular Gunthorpe Advance, and bis dam is Merican's Gem. vol. 20, who

7.9

AND CANADIAN FARM AND HOME

# 42 CLYDES HEAD SHIRES HACKNEYS 42 IMMENSE AUCTION SALE

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Will sell by Public Auction at

# BOND'S HORSE EXCHANGE, TORONTO Shopherd Shocks station FEB. 2, 1905

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Including a number of well known prize winners. Stallions include 1 2-year, 2 5-years, 2 4-years, 6 3-years, 11 2-years, 5 1-year-old Fillies; 5 3-years, 5 2-years, 5 1-year, rising 2-years-old.

#### SALE TO COMMENCE AT 1.30 P.M., SHARP.

**TERMS OF SALE** Mares and Fillies cash; Stallions, one-half cash, or 30 days, accepted same as cash; balance payable May 1st, 1906, or approved joint note at 6%. Bring references and save delay. All Stallions sold for \$1,000.00, or upwards, will be guaranteed a sure foal getter. Should they not prove so, on their return to my barn, another equal in value will be given in his place. Stock will be sold absolutely without reserve. For Catalogues or further particulars write to

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Long Distance Telephone at Residence, near Columbus. Telegraph, Brooklin.

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Ibs., and could her dam and sire be seen, bidding for her would be very spirited. Francess, vol. 26, is a bay yearling, sired also by Crossmoor Carbon, dam Hildsh, vol. 23 (J7826), Lodry, by Cressy (4330). It will be seen that this young mare is a de-scendant on both sides of the fam-ous Harold (3703), the sire of many prize-winning animals. Crossmoor Carbon is a tremendous weighty and sound horse, while her dam is one of the biggest and best mares living, and a noted prize winner. This is a rest. Thornley Blue Bell is a blue roan, one year old. She is a dau-ghter of Harbling Harold (15647) and Thornley Get, vol. 18, by Thornley Tom (13702), gd. Polly, vol. 15, She is, willout doubl, one of the best mares ever been exhibited, but is bound to win wherever shown. She lbs., and could her dam and sire be She has never been exhibited, but is bound to win wherever shown. She is the ideal of what a mare should be, and whoever gets her will lay the foundation of a stock that will always command big prices. Her sire, the good horse Harbling Harold, is over

# **Bowhill Stock Farm**

SHORTHORNS-English Lady, Elvira and uchess strains. LEICESTERS-Bred for wool and early

Breeding Stock for Sale GEO. B. ARMSTRONC, TEESWATER P.O., ONT. Teeswater, C.P.R. Mildmay, G.T.R.

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Choice young stock from grandly-bred Scotch topped cows topped cows. A number from choice milking strains. This herd headed by Scotland's Challenge (imp.) Well-bred Lincoln sheep. Also Barred and White Rock Poultry and Bronze Turkeys. R. CORLEY,

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Choice young bulls and heifers of finest South breeding, herd headed by imp. Sost-land's Fame. Young stock from imported size and dams, and choicest breeding. My stock and prices will interest you. Write to orcallon DAVID H. MILNE.

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#### **ELMHURST STOCK FARM**

Have only at present to offer my stock bulk Fancy's Pride Imp. (1883). — 36023 — . . . He is four years of age in April. a grand, thick, massive have do up to have a start of the theory of the have do up to have a start of the theory of the prize winner, Pride of the Realm (7233), and he dam was Pancy 1301, who traces straight to Buchan Lassie (630). Fedigree and particulars, furnished on application. W. J. Bucons, Prop. Clinton P. O. and Stas, O. T. H. Huron Co., Ont.

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# Hawthorne Herd of Deep Milking Shorthorns

Aberdeen Hero (imp.) at head of herd. Present offering, 6 good young bulls by Scotch sires. Come and see what we have. Londesboro Sta. and P.O.

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.

#### THE FARMING WORLD



#### 16 January, 1005.

Hollymour Mitchell, Ont.

Scotch Shorthorns.-A few young stock of both sexes, bred from very choice imported sire and dams. Write, or call on

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Of the best breeding. Canadian bred bulls sired by Imported Bapton Chancellor. Also cows and heffers. A number of choice Yorkshires, all ages, for sale. Write

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Shire and Clydesdale Horses, Shorthorn Cattle Choice Stock on hand at all times. Customers never disappointed.

J. M. GARDHOUSE, Weston, Ont.

SPRINGBROOK STOCK FARM.—A few splendid bull calves by im-ported aires and dams; also two fine young helfers. Herd headed by Golden Conquercer (imp.) gloqo. Write for prices, or call on AMOS SMITH, Huron Co., Trowbridge P.O., Listowel Station.



Some splendid offerings in young Scotch and Scotch Topped Shorthorn bulls and heifers, Prices right.

JAS. DOUGLASS, Caledonia P.O. and Sta.

#### DOUGL н. CAMPBELLFORD STA., G.T.R. WARKWORTH, P.O.

Breeder of SHORTHORN and AYRSHIRE CATTLE, YORKSHIRE SWINE.

Young stock of all ages and both sexes for sale.

#### PLEASANT VALLEY SHORTHORNS

For Sale 3 YOUNG BULLS of wardron ages, sired hysomort based flow) bulls in country, and out of good Sociol dama. Also enversi YOUNG HEIFERS bred to thim, 10th Lanameters Several young Yorkshires of good breeding. Mont P.O. and Station C.P.R.

SHORTHORN CATTLE MAPLE AVENUE STOCK FARM and LINCOLN SHEEP If you want either, write us today.

F. H. NEIL & SONS, BOX 35, LUCAN, ONT. Telegraph, Post Office, R.R. Station.

Clayfield Stock Farm Clydesdale Horses, Shortl Shorthorn Cattle, Prize-winning pure-bred stock. Young animals of both sexes for sale. Write or call on

#### J. C. ROSS, Prop., Jarvis P.O. and Sta., Ont.

You must not imagine that because we sold some Sherthorns at Hamilton recently we have no more to offer,

BECAUSE we have quite a number yet, both male and female. and GOOD ONES TOO.

Write us if you are in the market (it only costs 2 cents), and we will frankly tell you whether we have what you want.

John Olancy, Manager. H. OARQILL & SON, Oargill, Ont.

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2,200 lbs. in weight, and her dam will scale over 1,800. Nateby Depper, vol. scale over 1,800. Nateby Depper, Vol. 27, is a bay, two years of age. She is sired by Harbling Harold, her dam is Munchausen (6190), g.d. Jewel, vol. 3, by Prince of Wales (1809). She is a In autoritation of Wales (1897), g.a. Jewer, vol. a, by Prince of Wales (1896) ibnorve-mara bout her, having been brought ing on poor land, and with good treat-nent shout her, having been brought ing on poor land, and with good treat-nent she will grow and do well, and develop into a fine brood mare. She is descended from good stock, and should be a money maker for her pur-chaser. Rosetta is a two-year-old bay, sired by D'Arcy Chancellor, gas. Iron Chancellor (14677), dam Star, vol. 22, by Fen Champion (3865). This is a fine young mare with Clydesdale quality, and will lay the foundation to good stock. Princess Adelaide, vol. 27, is a bay mare, two years old. She is a daughter of Gunthorpe Ad-vance (13160), dam Hazel, vol. 22, by Duke of Clarence 4th (3098). This me young mare is own sister to that fine Duke of Clarence 4th (2008). This me young mare is own sister to that fine young stallion Esklean Waggoner. A description of him and his breeding appears. She will be found to have appears. She will be found to have those good hard wearing legs, will feet, fetlocks and feather of the first order. She will make a valuable breeding mare. Nateby Madge, vol. 26, is a fine chestnut two years old, a daughter of Gunthorpe Advance, dam Loity, by Cressy (4330). She should make a grand breeding more, and style, and is from a grand mare by Cressy, a half-brother of the fam-ous Vulcan. Thornley Lass, is a beau-tiful bay mare by Gunthorpe Advance, and dam Thornley Lass, vol. 18, by ividi bay mare by Guithorpe Advance, and dam Thornley Lass, vol. 18, by Orange Prince (14760). She has the feet fetlooks and feather every horsenan likes to see. She will make a good investment to whoever gets her, be-ing bred on the right lines to make an ideal brood mare. Thornley Dol-lof age. Her aire is Harbling Harold, her dam Thornley Jet, vol. 18, by Thornley Tom (13702). She is of great weight and character. She blood, and traces back to the most noted horses in eart horse history. Mated with agood stallion she should product something of exce ablack three year-old. She is a great big young mare, just the sort to breed a stallion from. She is descended from the best strains of Shire blood in England. Her sire, Tatra 2nd, is a winner at the London and many county shows. Her dam by North-ern King, he by What's Wanted, is a great breed, as the sort to breed a stallion from. She is descended from the best strains of Shire blood in England. Her sire, Tatra 2nd, is a great breed, as the sort to breed a stallion from while by North-ern King, he by What's Wanted, is a great breed, as the sort whore a dvance, daw mond as ever. She is great breed, as the Guithorpe Advance, daw wide, with fine legs and feet, the proper Bar None type. Many of her dam's produce have been winners, and at fourteen she is as fresh and sound as ever. She is a fresh and bound as divertien she is as fresh and sound as ever. She is as fresh and sound as ever. She is as fresh and bound as failer fourteers she is as fresh and bound as failer here here as the bound as player and the best hourd as player as bould breedid, powerful horse, she should produce prize winners. She is beed from strains of the and dam Thornley Lass, vol. 18, by Orange Prince (14786). She has the feet

All who are interested in a good draft horse or mare should not fail to attend this sale, which takes place at Bond's Horse Exchange, situated near the Repository, Toronto. The sale will be on the second day of the Stallion Show, February and, 1902, Write for catalogue to J. B. Hogate, Sarnia, Ont.



\*\* NETHER LEA" AYRSHIRES Officing: this month 4 bulls, 15 mont, 3 cholics franced. S most, bull and heifer calves just franced. Napoleon of Auchenbrain (imp.) 4 head of herd, whose dam has a secord of 78 has per day. Prices low. T. D. McCALLUM. Dauvillo, Que.

#### MAPLE CLIFF DAIRY AND STOCK FARM Breeders of Clydesdales, Ayrshires, Tamworths and Berkshires.

For Sale-Special offering this month of boars of both breeds fit for service.

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#### Aberdeen-Angus Cattle

Choice young stock from our prize-winning herd. A few of both sexes for sale. Call on or write to W. R. STEWART. Lucaaville, P.O., Ont.

#### Hereford Bulls at Buyers' Own Prices

Sired by imported bulls and out of imported or home-bred dams. A few helfers also on Offer. We have six good things for the coming shows at prices that will make them go.

Near Orangeville, Ont. W. H. HUNTER, The Maples P. O.

#### Ashland Stock Farm. Pure Scotch-Topped Shorthorns, Cows bred from imported stock of grand Scotch breeding. Young stock of both scree for sale.

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Shorthorns, ülydesdales and Shropahires for Sale. Bulls and helfers of approved breeding and quality. Clyde fillies, imported and home bred. Shearing and ram lambs, imported. Mansell. Prices Moderate. G. A. ESCODIE. Becheada, Ont. Motuff tille Sta.

#### FRONTIER FARM, Lewiston, N.Y. BREEDERS OF REGISTERED

Polled Jersey Cattle, Red Polled Cattle ...Cheviot Sheep...

Now for sale, one Folled Jersey Bull, 2 yrs, old, Red Folled Bulls, one 5 yrs, one is mos, and one 1 mos, old, also few formice. Chevitot Sheep to exchange for registered Jersey Owwand Heifers. A. MOHB, Lewiston, N.Y.

ONTARIO VETERINARY COLLEGE, Ltd. Most successful Vet. Institution in America. Prof. A. Smith, F.R. O. V.S., Principal, Temperance St., Toronto, O n.

#### America's Champion Clydesdale

The outside front cover illustration of this number is a true and life-like picture of the season, the three-yearold Baron Sterling, one of the best colls ever sired by the most famous sire of them all, Baron's Pride. best error of his day, and a som of the worldfamous Darnley. Baron's Bride, best error of his day, and a som of the worldfamous Darnley. Baron Sterling thus combines in rich measure the best blooks and breeding in the Clydesdale studbooks, and a som of the worldfamous Darnley. Baron Sterling thus combines in rich measure the best blooks and breeding. As a yearling he won first prize and championship at Edinburgh, and at the Highland Show, an Aberdeen, where the very bead honora. Again, as a two-year-old he won first and championship at the famous shows he had it all his own way, and, after his first season in the stud in Scotland, he was purchased at a rather sensational figure by Mr. Thomas Graham, of Graham Bros, Claremont, Ont, and imported to Camda Hinkisal, Toronto, the Countral, at University, Toronto, the Countral, at Louis he was not shown there, but at the International at Chicago, he vindicated hinself as the champion of America, by winning the champion of America, by winning the champion blue was purchased way. He was one of the sensational features of the show.

was one of the sensational realities of the show. Baron Sterling was recently disposed of to Messrs. Hodgkinon & Tisdale, of Beaverton, Ont, and these gentlemen are to be congratulated on their acquisition of so fine a stud to head their stable of imported and Canadian-bred Clydesdale mares and fillies.

#### ېږ.

#### Baron Sterling Captures the Crowd

The Chicago Daily Drovers' Journal in reporting the Clydesdale show at the International has this to say of Baron Sterling, Graham Bros.' Champion stallion:

"From the instant that Baron Sterling stepped with lordly grace into the arena and flashed his brilliant eyes at the great crowd that filled the vast amplitheatre it was evident that he was a royal animal. If he was a frue exponent of the blood lines of his dittinguished size, then he decords framesonality were lines of symmetry and elegance. Substance was harmoniously blended with faultless proportions, while every movement demonstrated agility and power. If an artist were commissioned to paint a show draft animal it would be difficult to find a more perfect Clydesdale model. Baron Sterling carried the audience by storm with blod commanding action. Netherton, and Prince Daundless are superlative specimens, but paled before the critical perfections of their powerl livel. The stock shows, but had never come into competition with the class that Baron Sterling exhibited. It was an example where the crowd encored the verdict of the judges.

Correspondence solicited.

DENTONIA PARK FARM

We have a number of young stock of both sexes for sale.

JERSEYS, GUERNSEYS AND AYRSHIRES

of dominion to And And

Prize-Winners Wherever Shown.

Prices consistent with quality.

#### Gossip

## Mr. W. A. Kerr, Hamilton, Ont.,

writes: "As a new subscriber I am taking the liberty of advising that Robt. T. Craig, V.S. of Market street, Hamilton, has purchased the imported Shire stallion, Jubilee Victor 11422. This grand speci-men of the draft size was bred by Baron Rothshilds and imported by the well. Rothchilds and imported by that well-known importer, T. J. Berry, of Hen-sall, Ont. He is a horse standing fully 16½ hands high, in color black with small stripe on face and three white ankles, weighing when in stud condition ankles, weighing when in stud condition about 2,000 Ubs., closely coupled, short, strong back, excellent feet and legs beautifully feathered, good silky coat and actioned like a Hackney. He will make the season between lisis own stable and the counties of Wentworth and Halton. It is to be hoped that the en-terprise shown by Dr. Craig in purchas-ing such a high-classed horse will be amply rewarded."

#### YORKSHIRES! VORKSHIRES!

Choice young stock of good quality and best strains. Pairs not akin. Prices right.

ALBERT SNELL, Hagersville P.O. and St'n

#### MONKLAND HERD YORKSHIRES

Good Quality. Easy feeders

JAS. WILSON & SONS. Fergus P.O. and Sta., G.T.R. and C.P.R.

#### Linden Oxfords

Do you want a good yearling ram or ram lamb, imported or homebred, cheap? Also some choice ewes for sale R. J. HINE,

DUTTON.

Elgin Co.

#### HILLHURST FARM.

Harnpahirs Down Sheep, the coming breed, direct importations. Scotch topped Shortherna from imported aires and dams of deep milking direkas. JAS. A. COCHRANE, Hillhurst Station, Compton Co., P. Q.

**ELMDALE STOCK FARM** Octawold Sheep Berkshire Swine Close to or direct from imported stock. Good young stock of both seven to select from. Prices reasonable. Write or call. J. SLATER, Buttonville P.O., Unionville Sta. Midland, Ry; Thornhill, Metropolitan Ry; Markham Tp., Ont.



# THE FARMING WORLD

#### Oxford Down Sheep

Your correspondent lived for nearly 40 years in that part of England where Oxford Downs are the common sheep of the district, in fact, the home of the breed. He knew John Treadwell, of Upper Winchendon, intimately well, having often done business with him, and as this gentleman took first prize for rams at the Royal of England for For rams at the Koyal of England for twenty years in succession it must be admitted that his sheep were the true type of the breed, in addition to which descendants of his rams may be found in every sheep country in the world. Mr. Treadwell won a twenty guinea prize offered by the writer at the Brock.

prize offered by the writer at the Buck-ingham Show for the best pen of sheep. They were Oxford Down ewes of the Very finest type, size and quality. The Oxford Down is derived from a cross between the Hampshire Down and Cotswold, and the main object of this was to produce a sheep that combined both wool and mutton in a greater ratio than either the Hamps, Shrops or South Downs. The breed is, comon source Lowns. The breed is, com-paratively speaking, a new one that requires considerable forcing to bring forth all its most excellent qualities of size, wool and mutton.—J. G. V. F. Johnson, B.C.

#### .58 Manitoba Breeders

The annual conventions of the Man The annual conventions of the Mani-toba Breeders' Associations will be held during the latter part of February. Stock judging courses will be made a special feature of these meetings. The speakers this year will likely be chosen from among local experts. Several pro-minent agricultural legtures will also be brought in to assist in the meetings.

#### The Angus Breeders Meet

The Angus Breeders' Society of Canada met at the Commercial Hotel, Guelph, during the Winter Fair. The meeting was attended by members from different parts of the province, and each one seemed to have the same convictions that the days of the Angus are just about to dawn upon the people of Canada, especially upon those who have visited the International at Chicago, the greatest exhibition of fat stock on the American continent, where the Angus came out on top every time, just where we hope to see them in the near future at our own Winter Fair.

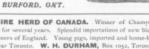
The additional \$50 given by this society to the sweepstakes prize at the Winter Fair at Guelph, should the winner be from an Angus sire, should induce some of the best breeders of Canada to experiment on the Angus, which would most certainly give good results. The few 'Angus grades shown in 1904 gave a fairly good account of themselves, especially in the block test.

J. W. BURT, Secretary,



ship at leading shows for several years. Splendid importations of new blood, the championship winners of England. Young pigs, imported and home-bred . for sale. Pens at Islington, near Toronto. W. H. DURHAM, Box 1052, Toronto.

Advertise in The Farming World.



#### 16 January, 1905.

#### Faith in the Shorthorn

In his address before the annual meeting of the American Shorthorn Breed-ers' Association, President S. F. Lock-

ridge, in discussing the status of the breed for the year, said: "The Shorthorn industry shares with other interests in the general confidence. Not since this association was incor-porated, it seems to me, have we had such cause for faith in the future of the breed. while the average prices the breed. at public sales have declined from those of a few years ago, yet we should con-sider the fact that these prices repre-sented inflated conditions that were not conducive to a healthy and regular trade. It has been unfortunate for the Shorthorn breeding interest that it has been subjected, within the last thirty years, to periods of inflated prices, at which times we have had an invasion of our ranks by a class of dealers who in the very nature of the case should not have the best interests of the breed at heart, but were influenced solely by the dollars and cents involved-mere speculators in pedigreed stock, who, when depressions came, deserted the colors as rats fly from a sinking ship. One of the most damaging results of this booming process is the eliminating from our ranks of the small breeder and steer producer whose means will not permit of extreme prices, and who consequently seeks other sources for consequently seeks other sources for his sires or forsakes the field altogether. But the present conditions are such that this class of producers can obtain improve blood at a fair valuation, and the indications are that they are tak-ing advantage of their opportunity in large and increasing numbers.

#### .18 Deputy Minister for Manitoba

Mr. Hugh McKellar, who has held the office of Deputy Minister of Agri-Agriculture for Manitoba for a number of years, has resigned. W. J. Black, B.S.A., editor of the Western Edition of the editor of the Western Edition of the Farmers' Advocate, has been appointed to succeed him. In Mr. Black the far-mers of the prairie province will have an energetic and painstaking official.

#### 34 The Guelph Sale

The Guelph Fat Stock Club held a The Gueign Par Stock Gub heid a meeting on Dec. 31st to arrange for the annual sale of pure-bred stock to be held during the early half of March. The report of the committee appointed to interview Mr. Hodson and Mr. Westervelt was presented. The live stock associations, Mr. Westervelt stated, would arrange for advertising the sale throughout the Northwest. The asso-ciations would also pay \$50,00 ciations would also pay towards the freight to an any point towards the frequent to any point west of Lake Superior on any car of stock bought by one man at any of the auction sales held under the general rule. It was proposed that the Guelph Fat Stock Club should guarantee anything required for these services over \$500. The number of animals to be offered at the sale would be 50 males and 25 females. In order to pay the ex-penses of the sale \$4.00 per head and 3 penses of the sale \$4.00 per head and 3 per cent. of the amount would be de-ducted from the selling price of the animal. All animals entered will be in-spected before being accepted. Entries close on January 20th. Ten do'lars must accompany each entry as a guarantee of good faith that the animal will be offered

"I never see the iceman stop before your house any more, Mrs. Flipper-leigh." "No; since the Buxtons, next door, fell into their fortune they've been so cool to us that we don't need any help from the refrigerator."-Chicago Record-Herald.

# Market Review and Forecast

#### The Trend of Markets - Supply and Demand-The Outlook

#### Toronto, January 13.

Toronto, January 13. Trade generally in wholesale circles is fair. Country trade is reported to be fairly good, though farmers are not marketing grain very freely. The pro-spects for spring trade are bright, and the general outlook good. Money is somewhat quieter on call, with time loans steady.

#### WHEAT

The wheat markets have improved considerably since last writing, and higher values are the rule. Russian ex-ports have fallen off, and with Australia about 20,000,000 bushels behind in the crop of 1904-05, values in Europe are likely to go higher instead of lower. likely to go higher instead of lower. The Argentine is to be heard from yet, however. The growing crop in the United States is reported to have great-ly improved during the last month. May wheat lias sold in Chicago recently at 11435c. Much higher prices are looked for between now and May and one large operator has stated that we are bound to see \$1.50 wheat before next harvest. How far such statements can be relied upon no one can say. Both Winnipeg and Chicago prices are advancing and holders here are looking for advances. Red and White are quoted here at \$1.05, spring at 95c to 96c and goose at 88c

#### COARSE GRAINS

The market for coarse grains has rul-ed on the dull side of late. At Montreal dealers are loaded up pretty well with oats, and the market is on the dull side. There are no export orders, as prices on this side are too high. Quotations here are 32c to 331/4c, as to quality and point of shipment. There have been some export orders for peas, have been some export orders for peas, but prices are too high. Barley con-tinues dull. Corn has an easier ten-dency. New Canadian yellow is quoted here at  $41/_{2c}$  and mixed at 41c f.o.b. Chatham freights.

#### HAY AND STRAW

There have been liberal exports of anadian hay recently. The English Canadian hay recently. The English market is steady. The demand from Canadian hay recently. The English market is steady. The demand from Nova Scotia has fallen off and conse-quently things are quider in Quebec, where farmers are holding for higher values than the buyer is able to pay. The impression at Montreal is that prices will go lower. The market here is fairly firm at quotations. For up to a high firm.

figure

#### POTATOES AND BEANS

Under a good demand there is a bet-ter tone to the potato market at Mont-real, where 75c per bag is freely paid for car lots.

The bean market is quiet at Montreal and prices are unchanged. The market here rules steady at \$1.45 to \$1.50 for hand picked and \$1.40 to \$1.45 for prime.

#### EGGS AND POULTRY

The egg market rules steady, with the supply of new laid short. Stocks are said to be lighter than expected, and there will be no cheap eggs for a while. Prices here are about the same for held stock. On Toronto farmers' mar-ket fresh eggs bring 35 c to 46 a dozen. There was a big holiday trade in descad populary and anite a large stock

dressed poultry and quite a large stock of high priced turkeys was carried over, especially at Montreal, where an unset-tled feeling has resulted and holders are selling out at about 15c for choice stock. Geese supplies were pretty well cleaned up. The market there is still glutted with chickens, while the demand for ducks is slack. Here trade is quiet, with light receipts. Turkeys are quoted

at 12c to 15c, ducks 11c to 12c, geese 10c to 11c and choice chickens at 12c to 14c per lb. in a jobbing way.

#### SEEDS

SEEDS "This is just between seasons in seeds, though it won't be very long, and prices are uncertain. At Montreal the demand is slow at timothy \$2.50 to \$12 and also \$3; red clover \$8.60 to \$12 and also \$3.25 to \$13 per ext. and flaxseed \$1.25 to \$13 per bashel. Here alsike is quoted at \$6 to \$7.25 per bushel for prime, \$5.50 for medium and \$2 to \$4 for common, and \$3.26 to \$7.55 for red clover Lo.b. Tomono. Timodby is quoted at \$1 to \$1.50 per bashel. Toronto. Timot \$1.25 per bushel.

#### DAIRY PRODUCTS

There is an upward movement in cheese and values have reached 11c. It looks now as if last season's trade would close out on a high level, leaving things in a satisfactory condition for beginning

the season of 1905. There are few export orders for but-Zealand and Australia seem to have control of the English market at present. control of the English market at present. Some western dairy has recently been shipped to New York, where extra creamery is quoted at 28c to 281/2 per Ib. The local market here is firm at 22c to 24c for creamery prints, 22c to 23c for solids and dairy tubs at 16c to

#### LIVE STOCK

The live stock market has a better tone, especially sheep and hogs. The quality of the fat cattle offered has been better the past week than for some time. Trade for the better classes is firm. Ex-Trade for the better classes is nrm. EX-porters are quoted at from \$4.25 to \$5.00 per cwt, but the bulk sell at \$4.40 to \$4.75. Export bulls bring from \$3.50 to \$4 per cwt. Choice butchers' cattle are worth from \$4.20 to \$4.30, good cattle \$3.80 to \$4.10, medium \$3.40 to \$3.60, and inferior to common \$2.50 to \$3.25 per cwt. Feeders of choice qual-ity, 1,050 to 1,150 lbs. cach, sell at \$3.60 to \$3.75, and feeders. 800 to 1,000 lbs. each, \$3.25 to \$3.50 per cwt. Stockers 500 to 700 lbs. each are worth \$2.50 to \$3 per cwt. Milch cows and spring-ers are worth from \$30 to \$60 each. Calves are firm at \$3.50 to \$6.00 per cwt. The run of sheep and lambs has been

light of late and prices are firmer and higher. Sheep sell at \$4.50 to \$4.75 per cwt. for ewes and \$3.25 to \$3.75 for bucks and lambs at \$5.50 to \$6.25 per

Hog prices have advanced 10c, and quotations are \$4.90 per cwt. for selects and \$4.65 for lights and fats. The run has been light.

#### HORSES

There are signs of activity in the horse market, though buyers still hold back a bit in prices. Dealers, however, re-port a brisk enquiry for both heavy draught and high-class carriage horses. draught and migh-class carriage norde-Good quality horses are reported scarce all over and prices are like-ly to continue high. The follow-ing are Burns & Sheppard's report for the week ending January 7th, at the Repository, Toronto:

the week ending Junar, Repository, Toronto: Single roadsters, 15 to 16 hands, \$150 to 3225; single cobs and carriage horses, 15 to 16.1 hands, \$200 to \$209; matched pairs and carriage horses, 15 to 16.1 hands, \$400 to \$500; delivery horses, 1,100 to 1,200 Hos, \$125 to \$170; general horses, 1,200 to 1,100 to 1,200 tio3, \$1.3 to 3,00 to 1,200 to 1,350 lbs., \$135 to \$175; draught horses. 1,350 to 1,750 lbs., \$140 to \$220; service-able second hand workers, \$80 to \$120; serviceable second hand drivers, \$75 to \$100.

#### MARITIME MARKETS

Halifax, N.S., Jan. 9th, 1905. The markets here continue unchanged nee last reporting. The general opin-The markets nere continue unchanged since last reporting. The general opin-ion is that everything is pretty dull in produce lines, with not much either com-ing in or going out. In eggs the mar-ket remains firm, under a quiet demand Supplies here are not very large, but very few are coming forward. Dealers in very few are coming torward. Dealers in the upper provinces are holding for higher prices. They say they would clean out their stock at present prices, but expect to do better later on. Cold storage stock is quoted there at 18e and 20e, and limed at 19e. Fresh eggs here are quoted at 25e, and limed at 33-84c. The market for butter is firm, under are able areall demand Cherse has

a rather small demand. Cheese has made little change, there being but a

#### 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.

	To	onto	Mo	ntreal	St.	John	Ha	lifax	Win	nipeg	
Date		12		10		10		10		9	
Wheat, per bushel	\$ 1	05	\$ 1	08	s .		\$ .		\$ 1	01	
Oats, per bushel		33%	11	391/2		44	P	45		31	
Barley, per bushel		45		44		52		53		35	
Peas, per bushel		67		661/2		76		76			
Corn, per bushel		41%		50		60		61			
Flour, per barrel	-4	35	5	35	5	85	5	8o*	4	80	
Bran, per ton	18	00	18	00	21	50	22	00	14	00	
Shorts, per ton	20	00	21	00	22	00		00	16	00	
Potatoes, per bag		80		65		30bu		30bu		75	
Beans, per bushel	1	45	1	40	1	65	1	70	- 1	50	
Hay, per ton	8	00	9	50	13	50	14	00	7	00	
Straw, per ton	6	50	6	00	9	00	9	50			
Eggs, per dozen		21		25		25		25		29	
Chickens, per pound, d.w		1.4		12	per	10		10		1232	
Ducks, per pound, d.w		1.2		10	pair	10		10	16.		
Turkeys, per pound, d.w		15		15		17		17		18	
Geese, per pound, d.w		11		12		16		16		12	
Apples, per barrel	2	50	3	00	3	50	3	50	4	00	
Cheese, per pound, d.w		11%		11		10%		11		1.1	
Butter, creamery, per pound.		24		21 1/2		23		23		26	
Butter, dairy, per pound		18		17%		19 .		18		18	
Cattle, per cwt	5	00	4	75	4	75	4	75	3		
Sheep, per cwt	- 4	75	4	50	4		4	50	4	00	
Hogs, per cwt	- 4	90	5	00	5		5		5	00	
Veal Calves, per cwt	0	00	5	50	4	50	4	50			
									1.		



#### THE FARMERS' EXCHANGE One Cent a Word CASH WITH ORDER

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FARM LABOR-The undersigned, late of the Ontario Bureau of Immigration, now in England, selecting experienced and inexperi-enced farm laborers. For information apply R. VERITY, 65 Front St. E., Toronto.

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FOR SALE—One of Brant County's fine farms. First-class brick house, fine barns and outbuildings. 2 miles from Paris, 9 miles from City of Brantford. Price \$0,000. For full par-ticulars and complete catalogue of farms apply S. G. READ & SON, Brantford, Ont.

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#### THE FARMING WORLD

small demand. Owing to the large ship-ments to England and the increasing

ments to England and the increasing demand for home consumption, the price of greese and turkeys is higher. There is a small advance in the price of oats, on account of the shipping season being closed from Prince Edward Island. There is also a large increase in the price of hay, owing to similar reasons. Owing to the holiday season and the scarce supply, the price of apples is higher. The vegetable market remains unchanged.

unchanged. 32

#### Will Refine Cane Sugar

Will kenne Cane Dugar The Wallaceburg Sugar Company closed its campaign on Dec. 21st last, its plant having sliced 30,600 tons of beets and produced 8,000,000 pounds of sugar. R is reported that, beginning Feb, 15th next the plant will refine raw cane sugar and continue in operation throughout the year.

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#### Practical Hints on Sugar Beet Culture

Last issue we published a brief report of some interesting meetings addressed by Dr. Shutleworth and Mr. Simgson Rennie in the interest of sugar beet growers. At the Breslau meeting the question was asked whether there are some soils that will not produce typical beets. "Yes," said Dr. Shuttleworth, "on a black muck with a cold bottom, on sod plowed alte in the fall, on land plowed and manured in the spring, not properly brought into fine condition of collivation, particularly if sown on high ridges." Beets grown under such con-ditions will nearly always be unshapely and will be less profitable both to the grower and factory. The question was asked by Joseph Cressman whether timolity sod was as good as clover sod to plow down for beets, "Not as a rule", said Dr. Shuttleworth, "unders plowed very early in autumn, manured if the sold weets on the ordinary depth of about seven or eight incles. At the time of plowing it is a good plan in order to secure a deep soil hat will grow a long well formed beet, to run a narof some interesting meetings addressed by Dr. Shuttleworth and Mr. Simpson a long well formed beet, to run a nar-row grub-hook or sub-soiler in the bot-tom of the furrow behind the plow that will stir the land to the depth of several inches below the plow.

Joseph B. Hagey remarked that he had a number of unshapely beets which he attributed to blanks. In order to secure attributed to panks. In order to secure a full heavy crop, early sowing is im-portant, and it is highly necessary to sow plenty of seed; otherwise nine times out of ten the stand will be blanky. Joseph Cressman said that with the ex-ception of the outside rows, his betts We when happed.

Mr. Moses Devit remarked that he sowed on ridge stwenty-two inches apart, not sowing a very large quantity of seed, but the stand of plants was not very good, there beang a number of blanks. He said he harvested early in Septem-ber and his average test was a trifle better than 15 per cent. Mr. J. B. Hagey said: "I manured my land in the spring, which is probably the cause of a num-ber of unshapely beets which were in my patch." Mr. Simpson Rennie in this connection stated that in his opinion Kentville, NS. Xinss Isabel Rife, Hes-peler; C. W. Hougall, Gaelph. The chairman, Mr. A. C. Hallman, explained to the meeting that he had sown some of his beets on the flat, two ridge apart, and an any thick as wide than he intended them to be "The ridges, which were rolled before sowing, were gone over twice with a turnip seeder, which enabled me to use a fairly large amount of seed. The stand of plants as a result was splendid. My yield will be about eleven Mr. Moses Devitt remarked that he sowed on ridges twenty-two inches apart,

10 January, 1994.
to twelve tons per acre. My experi-tione," said Mr. Hallman, "reads me to the conclusion that it is the length of the beet that adds largely to an increase of tonnage. My beets this year were not quite so good as last year, probably due to the wei, and, therefore, my ton-mage was less than the previous year, when it reached fourteen tons to the acre, which it considered a very good to be the wei, and, therefore, my ton-sone acreage than one can be delived to be the set of the set of the social set of the inclusion. Mr. Remit set set of the set

form. At the close of the Breslau meeting, which was interesting throughout, Messrs. J. B. Hagey, A. C. Hallman and A. S. Shoemaker, were selected to receive a barrel of the molasses each for experimental feeding.

#### .18 Forestry Convention

The American Forestry Convention The American Forestry Congress as-sembled at Washington on January 3rd. The following Canadians were in at-tendance: E. Stewart, John M. Macoun, W. T. Macoun, R. H. Campbell, Dr. Robert Dell, Dr. James Fletcher, N. H. Faull, J. M. Clark, G. A. Drummond, W. H. Addison, Toronto; G. Y. Chown, Kingston. Kingston.

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#### Farmers' Institute Meetings (Continued from Page 68.)

(Continued from Page 68.) 8th, Branchton; 9th, Galt; 10th, Hes-peler; 11th, Preston; 13th, Kossuth; 14th, Ayr; 16th, Roseville; 10th, Strasburg; 17th, Mannheim; 18th, New Dundec; 20th, Haysville; 21st, Baden; 22nd, Philipsburg; 22rd, Crosshill; 24th, Hei-delburg; 25th, Elmira; 27th, Winter-bourne; 28th, Emotville; March 1st, Helwood; 23td, Hillsburg; Speaker--S, Pearce, London; Miss Isabel Rife, Heneole;

peler: J. W. McDougall, Guelph. Division J.B.-Jan. 314. Altona; Feb. 1st, Goodwood; 2nd, Zenbyr; 3rd, Udora; 4th, Sunderland; 6th, Canning-ton; 7th, Brechin; 8th, Upthegrove; 9th, Oakwood; 10th, Little Britain; 11th, Valentia; 13th, Kimmount; 14th, Omennec; 17th, Manverés Station and Bethany; 18th, Cavanville and Mill-



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brook; 20th, Garden Hill; 21st, Canton; 22nd, Keneal and Orono; 23rd, Solina; 24th, Cadinus and Nestleton; 25th, Co-lumbus; 27th, Greenback; 28th, Kin-sale; March 12th, Greenback; 28th, Kin-sale; March 14th, Garleton Fläce; C. Ust, Jan, Jan, Jan, Jan, Hung, Toronto; Miss L. Gray, Toronto. Division 14-Jan, 31st, 4th Line; Feb. 1st, Ennismore; 2nd, Stewart's; 3rd, Westwood; 4th, Havelock; 6th, War-saw; 7th, Jouro; 8th, Hillier; 9th, Wellington; 10th, Bloomfield; 11th, West Lake; 13th, Cressy and Waupoos; 14th, Milford; 13th, Cherry Valley; 16th, Demorestville; 17th, Ameliasburg; 18th, Wooler; 20th, Brighton; 21st, Colborne; 22nd, Castleton; 22rd, Henelasburg; 18th, Wooler; 20th, Brighton; 21st, Colborne; 20th; 5th, Havelock; 6th, War-bourg; Speakers-A, E. Sherrington, Walkton; R. H. Field, Addison; Mrs Division; Be-Jan, 3tt, Bath; Feb. 1st, Odessa; 2nd, Silswille; 3rd, Switzer-Ville; 4th, Selby; 6th, Enterprise; 7th, Turworth; 8th, Tweed; 9th, Queens-moro; 10th, Eldorado; 11th, Marmora; 13th, Springbrook; 14th, Moira; 15th, Speakers-Henry Glenham; 27th, Sunbury; 28th, Wolfe Island; March 1st, Gananoque; 2nd, Lands-downe; 3rd, Delta; 4th, Stella; 6th, Emerald, Speakers-Henry Glenham; 27th, Sunbury; 28th, Wolfe Island; March 1st, Gananoque; 2nd, Lands-downe; 3rd, Delta; 4th, Stella; 6th, Emerald, Speakers-Henry Glenham; 27th, Sunbury; 28th, Wolfe Island; March 1st, Gananoque; 2nd, Lands-downe; 3rd, Delta; 4th, Stella; 6th, Frankford *Drawion* 16-Jan, 31st, Mountain Grove; Freh 1st, Shrahot Lake; 2nd Frankford.

Frankford. Division Grove; Feb 1st, Sharbot Lake; 2nd, Bradshawi; Srd, Piccadilly; 4th, Cain-town; 6th, New Dublin; 7th, Addison, 8th, Rowi Corners and Fairfield Fast; 9th, Mailand and Algonquin; 10th, May-mard and Downile; 11th, Roebuck; 13th, Ventnor; 14th, Stanley; 18th, Mains-ville and Cardinal; 10th, Brinstoris; 18th, Aulteville; 20th, Moothend; 18th, Brinstoris; Gromers; 17th, North Williamsburg; 18th, Aulteville; 20th, Monilente; 21st, Greenfield; 27th, Martintown; 28th, Monckland; March 1st, Avonmore; 2nd, Moose Creek; 3rd, Berwick; 4th, Haw-

thorne: 6th, Cumberland: 7th, Chute au Blondeau; 6th, Ste. Anne de Pres-cott; 9th, Dalkeith. Speakers-J, H. Smith, Frectori H. C. Emerson, Corty-thermine, and Sterner, Sterner, Sterner, Sterner, Bishop's Mills; 3rd, Hickston and Miller's; 4th, Burrit's Rapids; 6th, North Gower; 7th, Manotick; 8th, Merivale; 9th, Stittsville; 10th, South March; 11th, Carp; 13th, Stewartsville and Burnstown; 14th, Admaston and Northcote; 15th, Gratton and Eganville; 16th, Cohden; 17th, Beachburg; 18th, Admonte; 20th, Pakenham; 21st, Carle-ton Place; 22nd, Claylor; 32rd, Middle-ville; 28th, Uatson's Corners and Lan-ark; 35th, Balderson; 37th, Innesville; 28th, Lombardy. Speakers-W. Elliott, Galt; W. C. Shearer, Bright. Galt; W. C. Shearer, Bright. 3

#### Two Ways

There are two ways of conducting the subscription business of a paper. One is to continue to send the paper along at the expiration of subscription, whether at the expiration of subscription, whether the subscriber desires it or not, thus involving him in a debt which he may not wish to contract; the other is to discontinue the publication at the end of the contract unless the subscriber sends his renewal or requests to have his paper continued. THE FARMING WORLD follows the latter system. We stop our paper at the expiration of subscription.

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