



## SUCCESS

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2nd. All subscriptions will be discontinued on expiry unless promptly renewed.

3rd. The editorial features of the paper will be strengthened and the paper in every way improved during the year.

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## Che Farming World

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J. W. WHEATON, B.A.

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## PUBLISHER'S DESK

#### A Fine Puzzle

"Our readers ca secure one of the "20th Century Puzzles" by sending a two-cent stamp to E. W. Gillett Co. Limited, Toronto, Ont., and mentioning that they read about it in this paper. There will be considerable amusement for the children as well as for the older people in trying to solve this fine puzzle.

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competent omce neip.

The several departments are again well filled with earnest, ambitious students, and this year bids fair to become the most important in the history of this excellent college. Graduates and senior students are being sent out each senior students are being sent out each week into business appointments, leaving room to new students, who are admitted at any time throughout the year. The latest catalogue of this college, entitled "The Story of a Business School" is most instructive and interesting, and may be obtained by postal request.

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ploning.
Graduates—Charles W. Bandy, Litchfield, Ill.; C. F. William Bauer, St. Louis, Mo.; Anson W. Beach, Iroquois, Ont.; Henry M. Berthiaume, Woonsocket, R. I.; William, J. Boddy, Valkerton, Ont.; Thomas E. Bowes, Cas'ederg, Ont.; George Bulgin, Elmira, Ont.; William S. King, Katonah, N.Y.; Jas. McDermid, Harriston, Ont.; William H. Mahoney, Rochester, N. Y.; James Henry Mann, Grand Valley, Ont.; P. Ernest Pallister, Ottawa, Ont.; Thomas A. Parker, Lynn, Mass.; Daniel J. Selfert, Linwood, Ont.; John E. Taylor, Toronto, Ont. lor, Toronto, Ont.

#### Farm Separators

Farm Separators

A most attractive piece of printing has just reached us through the mail. It is a new illustrated descriptive catalogue of the De Laval Crean Separators, showing the construction and workings of their different machines. Each style of machine is carefully described and the prices given. A copy of this handsome catalogue may be had free, by addressing the De Laval Crean Separator Co., York Street, Joronto.

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One bright girl, speaking of the U.S., which replaced the cumbersome machine of many parts that had been used, said: "Why, its the same as washing dishes for two and for forty." The U.S. not only makes more and better butter for the farmer, which means more cash, but it makes life easier for his wife and children, which means health @ happiness. For Manitoba and the West we transfer our Separators from Chicago and Minneapolis, and for Eastern Provinces from Quebec, Sherbrooke, Montreal and Hamilton.

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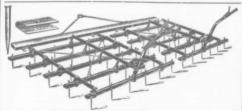
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## THE BLAINE HARROW MFG. CO., Limited 48 Richmond St. West, Toronto, Ont.

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# The Farming World

## And Canadian Farm and Home

Vol. XXIII

TORONTO, 15 JANUARY, 1904

No. 2

#### Our Dairy Interests

N industry that brings in from \$30,000,000 to \$35,000,000 annually is no small factor in the country's prosperity. Somewhere between these figures will be found the value of Canada's exports of butter and cheese for 1903. An industry of this magnitude involves no small responsibility upon those concerned with its progress and development. It will not run itself. The greatest skill and care must be exercised in keeping up and improving the quality.

That the dairymen realize their responsibility as they never did before, was shown by the splendid gathering at Belleville last week. Those present were there not for fun and entertainment, but to discuss problems of manufacture and to learn from one another how to overcome difficulties and better equip themselves for future effort. The best methods of caring for milk, of improving quality by careful inspection and instruction, and of preserving the finished article in the best possible condition till it reaches the consumer, were fully dealt with, and the dairymen of Eastern Ontario should be better equipped for the work of 1904.

The great feature of the work of the past season was the splendid system of syndicate instruction so successfully carried on. So successful was this, and so great the demand for instructors that the Association finds itself at the end of 1903 about \$3,000 in debt. This deficit should, however, be made up by an increased Government grant. There were over 500 factories grouped in the syndicates and the number will be largely increased during 1904. Therefore, not only will the Government have to come to the rescue to meet the deficit, but a largely increased grant for 1904 will have to be made.

Cheese was the important topic for discussion at the convention. While as much prominence as possible should be given to this subject, the butter-making side of the business should not be neglected. Only on the last day of the convention was any special attention given to butter-making, and that only in a half-hearted way. Butter-making is an important part of Canadian dairying, and if more attention were given to it at our dairy conventions it would develop more in the country. The dairyman should have more than one string to his bow.

The transportation side of the business is of the utmost importance. Though considerable has been done in the wa# of refrigerator and ventilated cars, refrigerator compartments and cooling rooms on ocean steamers, perfection has not been reached in any one

of these particulars. In the case of ocean transportation and the handling and caring for the product on the docks on both sides of the Atlantic a great improvement is needed. We understand that an increase of 45 per cent. is made in the charge for carrying butter in refrigerator compartments, over the ordinary charge, and this after the steamship companies have received tens of thousands of dollars from the government to assist in fitting their vessels for this work. After the plant is once installed it surely will not cost 45 per cent, extra to operate it. There is a weakness at this end of our transportation system that should be looked into.

#### Keep Out Inferior Stock

Is it not about time that something were done to keep out the inferior breeding stock that is coming into

## Our Poultry Number

The February first issue of THE FARMING WORLD will be our annual poultry number. Special matter and special illustrations are in course of preparation and we can promise a good practical issue on that date.

Advertisers desiring space in that issue should make application at once. The number will be specially valuable for reaching poultry farmers in all parts of the Dominion. A small advertisement in our cent a word column is sure to bring results. Try it for the poultry number. Copy for Tire Fasarsac Words. Try it for the poultry number than the 10th and 25th of each month for the issues immediately following. Will our advertising friends please remember this?

Western Canada from the States to the touth of the line? This grievance, and it is a serious one, has been in existence for several years and seems to be growing more acute as the years go by, and yet no definite action has been taken by the Government to remedy matters. Surely this condition of affairs will not be allowed to continue.

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The regulations as at present enforced, allow inferior stock with any kind of a registration certificate to be admitted by the customs authorities. The worst offenders are a number of breeders of Percheron horses, whose stock, not eligible for registration in the recognized Standard Herd Book of the United States, are, because they are registered in some mongrel herd book, allowed into Canada free of duty.

If we understand the spirit of our horse breeders aright, and we think we do, they are quite willing that good breeding stock shall be imported into Canada so long as the stock so imported is eligible for registration in Canadian herd books, or are registered, or are eligible for registration in the standard books in the United States, recognized in this country. But they are not willing to submit to Canada, and especially the West, being made the dumping ground for a lot of inferior breeding stock, that are of no use to this country or any other country. This class of stock has been imported into the West by the hundreds the past year or two, and is not only working to the injury of the horse industry of the West, but putting our breeders to unfair competition. In the Western States there are said to be nearly as many records for certain breeds of horses as there are families in those breeds. It is not fair, therefore, that these "spurious" records should be recognized by Canadian custom authorities, and every animal with a certificate allowed in free of duty.

Another grievance that the Westerners have is that the Canadian customs officers along the line in the West are not sufficiently informed as to what a proper pedigree is, nor are they sufficiently informed as to what records are reliable and what are not. In other words, many of the inferior horses are allowed in, more through ignorance of proper records than a weakness of the regulations. If properly qualified inspectors were employed to look after this matter during the importing season the grievance would not be so serious.

But, however this may be, the regulations should be such that no animal unless recorded in some herd book, recognized as a standard in the country, could get in free of duty. A tast of the regulations the Americans are now enforcing in regard to Canadian pure-bred stock entering their country, would be only fair and just to the Canadian breeder.

While the Government is at it they should consider another matter of, perhaps, equal importance. That is the bringing in of cheap, trashy ponies or bronchos, that, not finding profitable sale in their own land, are brought into Canada by the thousands every year. They do neither the country nor the fellow, who invests his \$25 or \$30 in one, any good. We understand that the number brought in during 1903 was away up in the thousands (nearly 30,000, so it said), and these are allowed at a merely nominal duty of from \$3 to \$5 each, according to valuation. The remedy is to raise the minimum of valuation to at least \$100 per head on all horses coming into Canada, or better still, to the

American minimum of \$150 each. This would effectually shut out the trashy stock and allow into this country only such animals as would prove of value on the farm or elsewhere.

#### Accessories to the Meat Trade

While the dressed meat trade is a big question that should receive every consideration at the hands of those undertaking it, there can be no doubt that its establishment would mean much to Canada at this juncture. Not only would it be the making of the great cattle industry of this country, but other industries of more or less importance would grow up around it. In Chicago a few weeks ago we were handed a little folder distributed by one of the great packing houses of that city. The following extract therefrom shows what becomes of the non-edible parts of a heef carcase:

Horns-For combs and handles, and for making fertilizer and glue.

Hoofs—For knife handles, buttons

and fancy articles, the inferior grades being converted into fertilizer. Hides—Trimmed, salted and packed,

and then sold to tanneries.

Bigod—The first flow is caught and

taken to the albumen factory. Albumen is used for holding dyes, making paints and clarifying sugar. Blood not retained for albumen is used for high grade

Intestines-Such as are valuable, are used for sausage casings. Others are used for shipments of lard, others by putty-makers, and some by gold-beaters.

The accessories, while small in themselves, in many cases mean the whole profit in the business to the great American packer. By having these by-products to dispose of and to convert into the varied and useful articles named. he is able to pay more for the live animal than he otherwise would. In this will, to a large extent, be found the explanation of the higher price paid for the animal on foot in the United States than in Canada, where only live cattle exports and the local markets form an outlet for our beef cattle products.

Protecting the English Breeder Our Scottish correspondent, "Thistledown," in dealing with the cattle embargo question in last issue, candidly admits that the reason Canadian store cattle are not admitted to the United Kingdom is because the English breeder and stock raiser does not want them. Under present conditions the breeder is afforded such security that there is an increase in the number of cattle reared. The retention of the embargo is then not a case of keeping out disease but of protecting the British breeder from the competition that the admission of Canadian stores cattle would give him.

The real reason is out now, and Canadians know exactly where the British Government stands on this question. It is protection in its most aggravated form. The milder form of levving a tax or duty on the imported article is passed over, and our store cattle are shut out altogether. But as we pointed out a few issues ago, Canadians need

not feel grieved over it. There are other ways of benefiting our cattle trade more effectively than by having the embargo removed. It is up to our governments to bend their energies in another direction and enlarge the market for our cattle by securing the establishment of the dressed meat trade in this country on a large and extensive scale.

It may be said that our range cattle trade will not be benefited as much in this way as by the removal of the embargo. But that is open to question. There is a large amount of rough feed grown in the West and the quantity is increasing every year. Could not this be utilized for finishing range cattle for market? Moreover, why should all our Western wheat be shipped out of the country as wheat? Would it not pay to grind it into flour at home? This would save freight in conveying the product to the consumer and would leave the by-products, such as bran and shorts, for feeding at home. These, with the coarse grains grown, would go a long way towards finishing our range cattle for market. In this, as in other lines, the more products ready for the consumer we can turn out the better. We keep all the profit there is in the business in our own country.

#### 0 Stallion Inspection

During his address on horse breeding, at Guelph, as noted in January 1st issue, Mr. W. S. Spark stated that he had been in consultation with the Hon. Mr. Fisher in reference to devising some plan for the inspection of stallions used for service in Canada. While nothing definite was stated as to what the proposed legislation, if any, would be, we gather from Mr. Spark's remarks that the subject is being seriously considered by the Minister and that something in the way of voluntary inspection, especially as to unsoundness, might possibly be provided for.

It is to be hoped the Minister of Agriculture will consider the matter favorably. Some provision for the proper inspection of stallions, voluntary or otherwise, is urgently needed in this country. Every breeder who understands his business, knows that it is not safe to breed to an unsound horse. And yet there are hundreds of stallions used every year that are unsound. It may be said that the farmer or breeder should not use these. But the average farmer or breeder is not a skilled veterinary surgeon and, therefore, not in a position to know whether the stallion he has selected for use on his mares is physically sound or not. Therefore, inspection by competent authority is necessary.

The voluntary plan, as hinted at by Mr. Spark, would provide for the owner to have his stallion inspected by a duly authorized person, and to receive a certificate as to his soundness on the payment of a certain fee. This would help to separate the "sheep from the goats, as it were, and enable the owner of the sound horse to get full value for that

quality. But why not go further and compel all stallions used to 'e examined as to soundness.

Another phase of the question is the inspection of stallions as to their breeding and conformity to type. Should there be inspection, voluntary or otherwise, on this point, is the question many will ask? While private enterprise and the right of the individual to do as he pleases should be considered, it does seem as if voluntary inspection by a properly qualified individual or body of men as to breeding and quality, would do good. It certainly could do no harm. By making the inspection voluntary, the stallion owner could take advantage of it or not just as he wished. It would put a premium upon good breeding and enable the average breeder to ac intelligently in selecting a stallion. There is too much haphazard breeding in this country at the present time and anything that will tend to uniformity and system will greatly advance the business of horse raising in Canada.

#### 0 Poor Railway Service

The reports of the late trains and inefficient service on the branch lines of railways in Ontario are too serious to be lightly passed by. It is these branch lines that more directly touch the farming community and it is this class that will suffer most by the delay. If the farmers' product is seriously delayed in shipment he suffers, and some one else gets the place in the market that should have been his. Business is injured all along the line, and while the business man of the back country town or village suffers most directly, the farmer also feels the effect.

The railway companies must wake up to the fact that this country is not a backwoods, where any kind of an old service will do. The railway equipment and service of twenty or even ten years ago will not do today. The trouble is that these back districts that are at the present time being treated so unfairly by the railways have progressed much faster than railway equipment and accommodation has, and the present trouble has therefore arisen. This would be a good case for the new railway commissioner to begin work upon.

### Animal and Plant Breeders

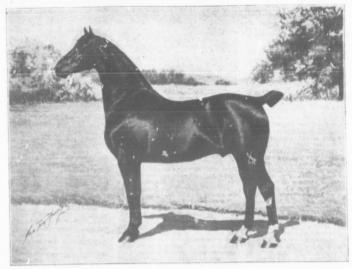
Hon. John Dryden has been elected chairman of the animal section of the American Breeders' Association, the first annual meeting of which was held a: St. Louis in December last. The Association includes both animal and plant breeders and also scientists who are interested in the study of heredity in plants and animals.

## Can't Give it Up

"Please find enclosed my renewal to THE FARMING WORLD. I thought at one time that I would give it up, but it is getting so interesting that I can't think of giving it up now.

"Wishing you every success in the in-

coming year."
Yours truly H. A. WEST, Kent Co., N.B.



Champion Hackney Stallion of America, Saxon = 97 = winner at Toronto Spring Show, 1903, and Chicago International, 1903, property of Graham Bros., Claremont.

#### Have the Farmer Represented

It was announced the other day that the Hon. A. G. Blair, late Minister of Railways, at Ottawa, had been appointed and had accepted the chairmanship of the new railway commission. The ex-minister's training and experience of the past few years should well qualify him for doing good work in this important position.

The other commissioners have not yet been named. It is to be hoped that the farmers' interests will not be overlooked in further appointments. The interests of the farmer are the most important in the country and merit some special recognition on this important commission

#### Horse Breeders' Grievances

Horse Breeders' Grievances
Representatives of the Canadian Horse
Breeders' Association waited upon the
Dominion Government on Friday last
and asked that the custom duties on
horses coming into Canada from the
United States be raised to \$30 on animals of the value of \$150 and under,
and that a national record be kept, not
only for horses, but for all kinds of
stock. They also urged that some
means be adopted to prevent inferior
horses being brought into Canada on the
strength of surious pedigrees. It was
shown that inferior poines and lowgrade was being sent into Canada
in In many instances
horse the of the property of the prop hey were pure-bred ani mals, they were simply culls. In this way armers are defrauded and horse breading seriously injured. stances were given where advantage was taken by dealers of the settlers' regulations to bring in horses for sale.

The deputation was replied to by the Mon. Messrs. Sifton and Fisher, who, though non-committal, expressed symmetry with the benefits of the settlement of the settlemen

pathy with the breeders and promised that the whole question would receive every consideration. The latter thought it

possible to adopt regulations that would safeguard our own people. In the matter of national herd books, the Minister of Agriculture stated that the initiative must come from the live stock breeders.

A meeting had been called for March
next to discuss the question.

next to discuss the question.

The delegation was composed of: J. M. Gardhouse, Weston; Henry Wade, Toronto; A. J. M. Robinson, Peter Christie, Manchester; Fred Richardson, Columbus; John Bright, Myrtle; S. McBride, Wm. Hendrie, Hamilton, Dr. Cremer, Regina; and W. R. Stuart, Fort

#### Sheep and Wool Decrease in 1903

The National Association of Wool Manufacturers estimates the number of sheep on hand in the United States, April 1, 1903, at 39,284,000 head against 42,184,122 head on the same date in 1902, a decrease for the year of 5,000,-122 head.

122 head.

The wool clip of 1903 is estimated at 245,450,000 pounds of fleece and 42,900,000 pounds of pulled wool, making a total wool product of 287,450,000 pounds of wool in the grease. The corresponding figures for 1902, as esticorresponding figures for 1992, as esta-mated by the same authority, were 274,-341,032 pounds of fleece wool and 42,-000,000 pounds of pulled, making a total wool product of 1902 of 316,341,032 pounds. The estimated decrease in the wool clip of 1903 as compared with that 1902 is, therefore, 28,891,032 pounds

The average weight of fleeces in 1903 is estimated at 6.25 pounds, a decrease of .25 pounds from the average weight in 1902, which was put at 6.50 pounds. The average weight of fleeces in 1901 was 6.33 pounds, and 6.46 pounds in

#### Manitoba Agricultural College

The Manitoba Government has purchased a site for the new Agricultural College just west of the Winnipeg City

limits. The site contains 117.40 acres and the price paid was \$15,000. It is reported that \$100,000 will be expended in buildings and improvements. The location of the College near Winnipeg would seem to indicate that it is the inwould seem to indicate that it is the in-tention to utilize as far as possible the educational facilities provided by the University of Manitoba in connection with the new College.

#### Farmers' Institute Report

Farmers' Institute Report
The report of the Superintendent of
Farmers' Institutes for Ontario appeared last week. It is a most valuable
grown to rapidly the past couple of
years that a separate volume is devoted
to this department alone. There are
now 52 women's institutes in the province, with a total membership on June
30 last of 4.505. During the year 610
meetings were held with an aggregate
attendance of 22.013.
The total membership of the resoules.

attendance of 22.013.

The total membershin of the regular Farmers' Institutes on June 30 last was 2.754. During the year, 827 meetings were held with an aggregate attendance of 126,450. Among the special subject discussed was that of "good seeds." Several successful seed fairs were held by local institutes last spring. Upwards of 4,000 institute members visited the Ontario Aggicultural College during June last. A more friendly during June last. A more friendly local institutes and the different fair local institutes and the d

#### 0 Correction

In January 1st issue, in report of Guelph Dairy test, Scotland Jean, an Ayrshire cow, is reported to have given 139.10 lbs. of milk in the 48-hour test. This should have been 79.57 lbs. of

## Correspondence

#### Government Should Lend Help Editor THE FARMING WORLD .-

I am in full sympathy with what you are advocating in having dressed meat plants established in this country. In fact, I have felt for years that it is almost imperative that this be done, and

I do think that our governments would be doing a noble work for the country if they would lend assistance.

W. D. FLATT Hamilton, Ont.

Why are So Few Sheep Kept?

Editor THE FARMING WORLD,—
With regard to your question, "Why
are so few sheep kept?" I believe the
principal cause is fear of dogs. There are very few sheep breeders who have not suffered from the ravages of dogs, and it is very discouraging when a man has bred up a good flock to have, per, haps, the work of years destroyed in a few minutes. It is not only the worried sheep that are ruined, but the rest of the

sheep that are ruined, but the rest of the flock don't seem to flourish afterwards. We have been fortunate so far, al-though we keep about 100 sheep on the farm, divided in different lots, we have never had a sheep worried, although our neighbors have suffered more or less at different times. I sometimes think our immunity is due to the fact that we

our immunity is due to the fact that we have had no dog of our own for some years. I think when a dog is kept others are more likely to come around.

I know it is a difficult matter to make a law to give adequate protection. I think if sheep raisers were given a little more liberty (legally) to shoot down any useless cur that might be running at large in season and out of season, it would influence the owners of such dogs to keep them at home.

would influence the owners of such dogs to keep them at home.

I certainly think the keeping of sheep the most profitable branch of the live stock industry in Ontario. I am satisfied mutton can be produced cheaper than either beef or pork—especially when we consider the cost of labor in handling a flock of sheep—and the comparatively cheap buildings necessary for their protection, as suitable buildings can be constructed a great deal cheaper than would be found requisite for the successful handling of other kinds of

> R. J. HINE, Elgin Co., Ont. P

#### Agricultural College Work in Canada

To the Editor THE FARMING WORLD:

Your plan of one agricultural college for all Canada, with less pretentious schools for each of the provinces, has some attractive features. Such a system is in harmony with present day

ideas, and is carrying out on a larger scale the principles that are leading to the centralizing of schools in the country districts.

To dispute the soundness of the principle at present would only be placing oneself in antagonism to forces beyond one's control.

beyond one's control.

In Germany, however, which, it is said, sets the pace for the world in educational matters, nearly severy state has a well-equipped agricultural college, requiring that all applicants before they are admitted as students must have a liberal education. Besides these, there are a number of smaller schools usually connected with experimental farms in the several states. In those are taught the special branches of agriculture followed in the section in which the school is situated. Boys can enter these latter who have an ordinary com-mon school education, and short courses are arranged for as in this country.

The awakening clearly perceptible at the present time to the importance of more specific knowledge of the principles as well as the practice of agriculture is leading the management of some of our art colleges to talk about some of our art colleges to talk about agricultural courses in connection with the classes in these institutions, and it is quite possible that something may be art apped in this way before very long, doing in part the same work that is done in the secondary schools in the secondary schools. that is don-

to a central college, I think Can-ought to be able to support more an one. With but few exceptions every state in the union has its own agricultural college. It is true these agricultural conege. It is true these colleges have not in the past been particularly well patronized by the farmers, and as a consequence, have not benefited them to the extent hoped for. The last ten years, however, have brought about a great change, and the halls of these colleges are now being filled with students who expect to make farming their life work.

You intimate that the growth of the You intimate that the grown of the gould have developed as fast as its promoters desired or expected, but when you can state of a school at the close of its first thirty years of life "that it has been also been as the content of t is the best all round equipped institu-tion of its kind in the world" it surely can scarcely be said of it that "it strugit surely gled many years for the recognition of its worth or the approval of its work." When it is remembered that at the time it was founded the prejudice against scientific farming, or even faragainst scientific farming, or even far-mers who had studied their business in part from books, was only just be-ginning to give way, and that many farmers at that time, though they may

have had the disposition to send their

have had the disposition to send their sons to the college, could not spare their labor from the farm. Yet in spite of this, and weight fact that Ontario was comparatively a new country, the college that the men of thirty years ago had faith enough to start stands today first among the agricultural colleges of the world.

If, under such circumstances, Ontario has accomplished so much in so sort has accomplished so much in so sight a time, is there not encouragement for the other provinces looking at the changed sentiment everywhere in relation to agriculture. I do not quite changed sentiment everywhere in re-lation to agriculture. I do, not quite like to give up the hope of seeing in our eastern novinces a college doing the work that Dr. Mills in his very able address in Amherst two years ago told-us that such an institution would do for the uplifting of the farmer and the business that he followed. If Guelph should undertake to do If Guelph should undertake to do Canada it would not be provinces of Canada it would not be provinces of Large institution. In ten years, under present conditions, if the average year-ly increase were the same as that of

ly increase were the same as that of the year 1902 over 1901, there would be five thousand students in attendance. be hive thousand students in attendance. This is not allowing for any increase in population, which we are led to believe will nearly double itself in that time. While it is true there is scarcely any limit to the size of a university, it has not been proved that the very large institution does better work than large institution does better work than the one of more moderate size. There are close observers of these things who say the smaller institution is preferable. When a college has students to form large classes, the advantage of still larger classes is doubtful. All things have their limitations of New Brunswick and Nova Scotia announced.

with a considerable flourish of trum-pets that they had agreed to unite and establish an agricultural college for the Maritime Provinces and they should in-vite Prince Edward Island to join them, I was very glad to hear the announcement, and I sincerely hoped they had the wisdom to find the right kind of a working basis, and the executive ability to carry the plan into successive the control of ability to carry the plan into success-ful operation. It has turned out other-wise, and Nova Scotia has undertaken to provide her own college. I do not know what New Brunswick intends to do in the premises. She has three art colleges, all of which are cramped in their finances, and short of material in their class rooms. The University the three that set's a great of public or New Brunswick is the only one of the three that gets a grant of public money, and the belief held by many has always seemed to me sound, that this money ought to be so expended that the artisan and the farmer would re-ceive greater benefit from it.

HOWARD FREAMAN, Point de Bute, N.B.

#### THE FARMERS' HANDY BOOK

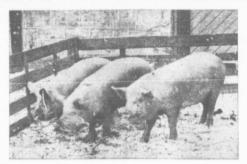
The Farmers' Handy Book will be ready for mailing about the end of the present month. Those who have seen the proofs of the leading sections pronounce it the best thing of the kind in print. Thousands of copies are best thing of the kind in print. Thousands of copies are already be poken, and the indications are that the book will run into a second edition. We strongly advise every reader of The Farming World to remit his subscription promptly, and thus secure an early copy of The Handy

It is a work that no person engaged in agriculture can afford to be without, and as it is sent free to paid-up subscribers to THE FARMING WORLD, there is no excuse for any farmer or live-stock man missing it.

#### \$2.50 WORTH for \$1.25

THE FARMING WORLD is 6oc. a year in advance, and is the best agricultural paper in the country. The Farmers' the best agricultural paper in the country. The Farmers' Handy Book is the only thing of its kind published in the English language, and is made especially for Canadian framers. Canadian Good Housekeeping is the only household magazine published in Canada, and one of the finest periodicals published in any country. It is full of illustrations and deals with practical subjects. Published every month, over 100 pages cach issue. Its subscription price

is \$1.00 a year.
We will send The Farming World one year, Canadian Good Housekeeping one year, and a copy of the Farmer's Handy Book to any address in Canada for \$1.25. Address: The Farming World, Toronto.



Three Yorkshires—First prize pen of pure-bred bacon hogs on foot, and champions in the Carcase Classes, Winter Fair, 1903, owned by J. E. Brethour, Burford, Ont.

## Breeding Qualities of Young and Old Sows

The Wisconsin Experiment Station has recently completed an important series of experiments along the line of feeding and breeding hogs, the results having recently been presented to the public in bulletin No. 104, the author being Prof. W. L. Carlyle, who by the way, is a Canadian. The following brief table was made us from the record of twelve sows, four in each class named:

	Large.	Medium.	Small,
Average weight of sows at farrowing, lbs	482	307	328
Average weight of litters at birth, lbs	27	16	14
Average number of pigs in each litter	9.3	6.7	5.5

The above results are certainly very The above results are certainly very striking. Not only were litters larger in the case of well matured sows, but the individuals of the litter were lustier at birth than is the case with young sows. The lesson to be learned from these figures is that when one has succeeded in testing out this, young sows the herd should be strengthened by cutting out all sly breeders after the first litter is farrowed, and holding on even for a number of wears to hose that produce large, strong litters. There is too much of a tendency to market sows after much of a tendency to market sows after they have reached the age of two or three years.

three years.

It must not be inferred from the above table that it is never advisable to breed from young sows. Only by testing them in this is one able to ascertain whether they shall be kept in the head or not. The beginner in the business must generally start in this way; that is, he must purchase young sows in the fail or during the winter and have spring, because men will not part with their yearlings or two-year-old sows at anything like reasonable prices.

Another interesting feature is touched on in the bulletin mentioned, namely,

the effect of age on the size and weight of litters. Some interesting data are given in the following brief table:

	of pigs.	Weight of
Sows 4 and 3 years old	9 7.5	19.7
Sows r year old	7.8	14.2

The above figures simply corroborate those given in the first table, and they emphasize the importance of holding on to sows even if they are somewhat advanced in years, so long as their breeding qualities do not seem to be impaired with age.

## The "Large Black" Hogs for Bacon

The Central Experimental Farm has

The Central Experimental Farm has been experimenting for the past year or two with a new breed of hogs for the partial state of the partial s thick and wedge-shaned over the shoul-der, that is, they get thick on top, and this thick fat, which is right between the shoulders, when the carcass is cut down the back, falls rapidly away, in the same way as does the fat on the "razor back," and, therefore, this carcase is objectionable for bacon. We have tried their crosses with the Berkshire,

the Tamworth and the Yorkshire, and the crosses did not have this peculiarity so distinctly marked. Probably the crosses are more thrifty than the purebreds of any of the breeds named, but of course that is a peculiarity of crossbred animals. We get more hardiness and 'hrift in cross-bred pigs. They are always thriftier and hardier than the

always thriftier and hardier than the pure-breds.

We fed ten pigs, pure-breds and crosses, on oats, peas and barley, with a little skim milk, and we found that the Large Blacks and their crosses gained quite as rapidly and as economically as did any of the other breeds. Therefore, the only objection to them are these two peculiarities mentioned, the razor-back shoulder and a rather too creat development of belly meat, which is cheaper than the other cuts.

#### Hauling out Manure in Winter

Hauling out Manure in Winter
Though not generally practiced, the
manure car: be hauled out during the
winter when there is the most leisure
about the farm. The yard is dry in
winter and the manure can be haufled
to better advantage than in the specific of
the most of the standard of the standard of the
manure was and the fall. when everything is wet and the fields soft and difficult to cross with heavy loads. Besides the plant food will be preserved.

joads. Besides the plant food will be preserved.

Hauling during the winter will save labor and the labor will be distributed to better advantage, thus avoiding the mencessary rush in the spring, when the seeding has to be attended to. When measure lies piled up in the barnyard all winter long, there is always a loss of valuable plant food due to rapid fermentation, and also by the heating and washing during the spring when heavy from the seeding plant food due to rapid fermentation, and also by the heating and washing during the spring when heavy is lost by this great amount of nitrogen; but the seed of the most soluble compounds of non-gen, phosphoric acid and potash, are lost through leaching and washing. If hauled out during the winter these soluble compounds, instead of running to waste, are absorbed by the soil and there had the seed of the

enough to prevent the manure accumulating in large heaps. Try this plan this winter and see how it works.

#### 0 Barmen and Gordon Highlanders

A few days ago a countryman went into a bar of a large hotel in Glasgow and asked for a bottle of stout. Tendering a shilling he received back sixpence change. "Hiv ye ever been in the Gordon Highlanders" he inquired. You received the barman; "but why do you the barman; but why do you will be barman; but why do you to the barman; but why do you agran, and at chalinging," was the restrictment of the state of the state



Prize Winning Yorkshire Barrows, property of R. F. Duck & Son, Port Credit, Ont.



Prize Winning Yorkshire Bacon Sow at Guelph, 1903, Lake View Nettie, property of R. F. Duck & Son, Port Credit, Ont.

Prince Edward Island

Prince Edward, Island
Cold weather. As the snow came in very small installments up to the 30th of December, the sleighing has been very poor. But on the 30th inst. several inches of snow fell just in time to make the travelling good for the celebration of New Year's Day. New Year's market was well attended, and sales were brisk. A large amount of poultry was on sale, geese sold for 10½c, per lb.; turkeys, 13 to 14c, per lb.; fowl, 8c, per lb.; live port, 4½c, dressed, 5½c, per lb.; live port, 5½c, potatose, 32c, per bus.; hay, 6c to 65c, per cwt; straw, \$5.50 per ton; becf. small, 8 to 12c, per lb.; lamb, toc, per lb., and very scarce; cattle, dressed, 5 to 6c, per lb.; oatmeal, 3c, per lb.; flour, per bl., \$5.00; dacks, per lb. 0 to 10c.; eggs, 35c. per doz.; butter, fresh, 23 to 24c, per lb. per doz.; butter, fresh, 23 to 24c. per lb.

per dox; butter, tresn, 23 to 24c, per to.
On Dec, 22, Mrs. S. Wonnacott, of
Hunter River, sold a goose (which
weighed 10 lbs.) for the sum of \$2.0c.
The annual meeting of the Farmers'
Institute was held at Morell on Dec, o
President J. Webster occupied the
chair. The financial statement was
presented, which showed a collection of presented, which showed a collection of \$119.10 during the year, which was all expended in the interest of the club, excepting a balance on hand of \$82,6. The stitute is in a flourishing condition. It is to be a superior of the four short of the stitute is in a flourishing condition. It is to be a superior of the four short of the stitute also owns two pure-brid Ayrine bulls, and one Shorthorn, which took the prize in 1002 in competition with the Maritime Provinces. The Institute meets on the 2nd Wednesday in every month. Subject for next racting: "Hog Raising."

The annual meeting of the Alberton.

The annual meeting of the Alberton Farmers' Institute was held on Dec. 19. The Institute is doing good work. This year they have 91 members. They have The Institute is doing good work. This year they have of members. They have purchased during the year \$25000 worth of pure-bred Shorthorns, \$45000 worth of seeds from W. Rennie, Toronto, and \$25000 worth of binder twine, from the Farmers' Binder Twine Co., of Brantford. Ten educational meetings were held during the year ductational meetings were held during the year.

The annual statement of the Daily-men's Board of Trade, for 1903, has been submitted. Eleven meetings were held during the year. The first meeting was held on June 19th, and some of the officers were re-elected.

In all, 23,171 cheese were boarded, all

except a few hundred being colored, sold on board, 13.775. Last year 23,053 cheese were boarded and 10,803 sold. The present sales are reported the best in the history of the board.

in the history of the board.

Last year less than half sold, and this year about two-thirds. The price paid was also the highest. In 1890, the average price was 9.96: in 1900, 10.20; in 1901, 9.25; in 1902, 10.16; in 1903, 10.40. The highest price was paid on September 25 by A.J. Biffin, who bought the output of a few factories at 1.2c; in 1903, 10.40. the lowest price, 91/4c., was paid on

July 24.

The schooner that Wedlock Bros. loaded late in the fall at Bay View, is frozen in the middle of New London

Bay, On Dec. 21, the S.S. Stanley discontinued running between Summerside and Cape Tormentine, and went on the Georgetown and Pictou route, with the S.S. Minto. Both boast leave each side every week-day morning.—A. R.

In and About Quebec

In and About Quebec
During the month of January, Farmers' Institute meetings will be held
throughout the Province. In the English-speaking districts the lecturers engaged are Messrs, A. P. Ketchen and
A. S. Spark. Similar meetings will also
held at some sixty points in the



# \$6.50 Heavy Tweed Overcoats for \$2.59

Our Semi-Annual Sale is on. We have called it Freeze Out because we intend to freeze out every garment at and We have 50 below cost. Men's Heavy Dark Tweed Overcoats, sizes 36 to 44, tweed lined, Regular Price \$6.50; Freeze Out Price \$2.59. If you want one send vour money to-day-if it doesn't suit you when you get it send it back and get your money. There is no easier way of making money than by finding it, and this is where you find Three Dollars and Ninety-one Cents.

## Do It To-day

## OAK HALL

Canada's Best Clothiers J. COOMBES, Manager

115 King Street East Right Opposite St. James' Cathedral

TORONTO

Neck and Shoulders above all Competitors 

French-speaking counties. The speak-French-speaking counties. The speak-ers for the coming campaign have al-ready been engaged, but it is to be re-gretted that we can avail ourselves of so few competent lecturers from our own Province. Many of the gentlemen who will tour parts of the Province this January in the interests of the farmers, live outside of Quebec, and it is becoming recognized that our inter-ests demand that we train lecturers from our own sons. To this end, the Dairymen's Association of the Province of Quebec, suggests that inducements Dairymen's Association of the Province of Quebe, suggests that inducements be offered to their Inspectors to undergo a special course of training to enable them to address Institute meetings during the winter months. At present only a small portion of the Province is reached by the lecturers, and there remains a large field to cover. This dearth of available speakers can certainly be sup-plied by the cheese and butter factory inspectors who would no doubt be thankful to secure occupation during the winter months, more in keeping with their summer vocation and more apt to add to their prestige than their present win-

With systematic organization and thoroughly trained speakers, these in-With systematic organization and thoroughly trained speakers, these in-stitute meetings have exercised a tremendous influence on the development of agriculture, particularly in the Province of Ontario, and this influence is increasing year by year. There is no doubt that, under proper management, similar results will be attained in the Province of Quebec, where our farmers were of the province of Quebec, where our farmers were of requestly shown themselves are so frequently shown themselves are resultural methods.

agricultural methods.

The annual statement of the Dairy-Quebec Dairy Association will be held in Sherbrooke on Jan. 26th and 27th. The Association is especially fortunate this year in their choice of a town in Which to meet, and a large attendance is hoped for. The programme has been arranged with an equal number of addresses in booth French and English by the most prominent agriculturists and dairymen in the Dominion, including Hon. S. A. Fisher, Hon. Addlard Turgeon, Ex-Governor Hoard, M. G. A. Gigault, Prof. J. W. Robertson, Prof. F. T. Shutt, Messrs. J. H. Grisdale, J. C. Chapais, J. A. Ruddick, L. A. Tourchot, J. A. Vaillancourt, H. Nivin, Gabriel Henry, O. E. Dalaire, J. D. Leclair, E. Bourbeau, and J. A. Plamondon.—H. W. P. The annual statement of the Dair



Champion bacon hog carcases, Winter Fair, Guelph, 1903. Owned by J. E. Brethour. The animals alive are shown on page 57.



South Elevation

Up-to-date hog pen, property of J. E. Brethour, Burford, Ont.

## Syndicating Pure-bred Bulls

Perhaps there is no one subject within the catechism of the breeder that has received more attention than that of the use of the best sires. Lecturers have spoken everywhere and have made it the first ommandment in their ode, and the first axiom in their geometry. Papers and journals, everywhere, good, bad and indifferent, have worn it threathers must be the second of the secon threadbare, and where and what is the result? Repeating it to the breeder of experience and skill is a vain repetition, experience and skill is a vain repettition, for he knows it and remembers it first, last and all the time. Equally, it seems like folly, pure and undefiled, to go on repeating it to the other fellow, for he seems to be an incorrigible disciple of the text, "between two evils choose the cheapest."

cheapest."

In dealing with a question of the kind it is always wise to first investigate the cause. Why is it that in many sections, where first-class pure-bred sires, kept in the stables of a local breeder of pure-bred stock only, these



Front of Hecthour's pens, showing arrange and of wire. The darker portion at the bottom the front of cement troughs. By setting the x4 posts flush with the front sta wire will ome about 2 inches inside the trough; this llows the feed to be poured in the trough. The wave eight wires are 2½ in, and x1, the next five in, and the top two 4 in. Three upright wires re locked to each horizontal wire.

are not made more use of? One rea-son is that the rank and file of farmers are not made more use oi? One reason is that the rank and file of farmers
will placidly content themselves with
the services of any scrub male that happens to be nearest, and even then, will
in many cases pay for their service a
content of the many cases and their service a
content of the most pre-bred male for the
purpose a profitable investment. Another of the most prevalent reasons for
this state of affairs is the dissinclination
towards the investment of the amount
of the first cost. Another is probably
the mixed nature of farming in many
places. This is very common, and it is
noticeable that in sections where both
cattle feeding and dairying are more or
less attempted by most of the farmers
at once, and where the use of the pureat once, and where the use of the pure-bred male of the dairy breed is objec-tionable on account of the "extra" poor tionable on account of the "extra" poor beef qualities of the steers, and on the other hand they can only improve the beef qualities without at the same time affecting an increase in milk, indeed, often at the expense of it, that this sort of apathy is most noticeable.

To help matters, we have a suggestion to offer that would, we are satisfied, meter with the approval of satisfied, meter with the approval of where wood blood is not at present

where good blood is not at present easily available. It is the putting in operation of some modification of the system considerably in vogue among

horsemen o's syndicating pure-bred; males in such communities. Modificamales in such communities. Modifications of this system would be, of course, based on the much lower original cost in the case of pure-bred cattle. The following is one that has been suggested by a practical and experienced stockman, and looks like a practical one. Suppose the cost of a pure-bred Short-horn bull of good quality, or of gilt-edge breeding, to be Stoo. to \$\frac{1}{2}\$CO. A syndicate of ten farmers, at a cost of from ten to fifteen dollars each, not more than they would each pay for even scrub service on an equal number of cows, could secure the best individuals in the beef-making world, and the improved quality of their first crop of collection of the could place this money in the hands of could place this money in the hands of would place this money in the hands of would, in all probability, be a person used that the person description and the could place the summer of the could place this money in the familia. A good form of payment for this care and trouble would be an arrangement that at the end of three years the caretaker become the full owner of the caretaker become the full owner of the animal. There would be a great all round benefit derived from this system and there are not many sections where at the end of the first or second term at the end of the first or males in such communities. Modifica-tions of this system would be, of course, and there are not many sections where at the end of the first or second term there would not be several men will-ing to buy and keep high grade animals of their own. It only requires a trial to convince anyone of the substantial advantages to be reaped from the employment of really good pure-bred

This is one suggestion to meet the question of cost. In the case of the other difficulty, that of the locality, where the dual purpose animal in desired and the general tendency is to fall short of either, the question is much harder to answer. This is an age of specialization, and the first reflection brings the impulse to utter the command. 'choose ye which way ye will go.' Yet even here it is well to pause go.' Yet even here it is well to pause to be left unsaid. Too radical to appeal to the taste of all, forcing others into a line uncongenial, a verse from the book of the experienced beef breeders This is one suggestion to meet the

might be aptly quoted for the guidance of those whose circumstances force them to call for dual qualities in their

"The effects of careful breeding are "The effects of careful breeding are not to be gainsaid. That you cannot breed a good beef animal from parents of dairy type does not require to be repeated. Neither, on the other hand, can beef animals readily produce dairy cows that will readily compare with the best in dairy breeds. But there is, and always will be, as much in feeding as there is in breeding. As it is recognized by breeders of dairy develous. The other products of the product of the product of the determinance of the product of the determinance of the cows that high feeding of young calves develops "beeliness," to the deterioration of milking qualities, so in the Shorthorn heifer calf, plain feeding in calfinod will permit of the development to the highest degree possible of her milking qualities. In this way way the young Shorthorn heifer might be developed into a cow of at least fair quality for milking purposes, while her brother may, at the same time, be pushed along into



CROSS SECTION

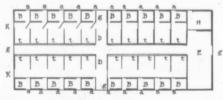
BUSTHOUT'S HOD PEN.—Darker portions showing cement valls and floors. a b, 6 ft. cement floor for common vall; cd, 6 ft. cement floors for cement valls; cd, 6 ft. cement floors for cement floors. The cement floors floor floors floors

a beef steer of the profitable and re-munerative kind."

So much for this side of the question. So much for this side of the question. Whether purely beef, purely dairy, or dual purpose animals will be kept is a conclusion that everyone must arrive at for himself. All beef breeders admit that in no case is crossing the breeds possible. But the co-operative plan of purchasing bulls, whether for either purpose or of whatever breed, is a question worthy of serious consideration, in many localities, and good work in this line could be done by work in this line could be done by work in this line could be done by arrangement for syndicates of this kind arrangement for syndicates of this kind at Institute meetings throughout the province and elsewhere generally. A small amount of practical work along this line would be productive of more real good than a baloonful of hot air, or a carload of argument in any other

J. W. SANGSTER. 0

Ham soaked in milk over night will be found exceedingly tender and sweet when used for breakfast the next morn-



GROUND PLAN BRETHOUR'S HOG PEN, 100 x 33.—Lower half shows arrangement of pens with short between the closed when cleaning out, manure passing out at doors K K. Top right section show dividing doors half open. a a a, Small doors, 24 x 36 in, from pens to outside year of the control of the c

## Farm Implements and Conveniences

#### A Handy Farm Truck

With this truck one can pick up a barrel or bag of grain, fruit or vegratables and wheel it away, even over a rough path, something almost impossible with the small, double wheel grocery and freight trucks. A blacksmith



will mount a wheel beneath a frame, as shown in the cut, and the frame ought to be within the ability of anyone handy with tools. A medium-sized, single-wheeled truck will do much work, and do it easier than is possible with a small, double-wheel truck.

## A Handy Gate

Very often it become necessary to pass frequently through a field where stock are kept, and the following description of a gate is most suitable for this purpose. It will keep out aimianls, but can be opened readily to persons on foot. It is an ordinary small gate which will be the same of the



person. These two posts are at the two ends of a V-shaped end in the fence. The cut shows the construction of the most of the state of

#### The Tools upon the Farm

There are many loves which nature Sends, to cheer life's dreary route, Some so soothing, entertaining, We could scarcely do without. But to me, a humble farmer, Usefulness gives added charm, And my heart beats with affection For the tools upon the farm.

They are partners, ever ready
Their allotted tasks to do,
Asking little compensation,
Never, then, until 'tis due.
And I glow with satisfaction
As I shelter them from storm,
For my trustiest licutenants
Are the tools upon the farm.

At seed time and at harvest
They are ever at command,
Eager to perform their duties
If I only lend a hand.
Hence a scarcity of labor
Fails to waken much alarm,
I can ask for double duty
From the tools upon the farm.

You may prate about the glories Music lends unto the soul, As the airs of Bach or Handel O'er your senses gladly roll; But for entertaining anthems, Fraught with inspiration warm, Let me listen to the humming Of the tools upon the farm.

#### A New Harrow

Pethaps in no line of human effort is more skill and invention displayed than in the manufacture of agricultural in the manufacture of agricultural in the manufacture of agricultural interpetation of the control of the line peter there was no more room for the inventor's skill. But such is not the case, as is here shown. We give herewith an illustration of the Blaine Patent Harrow, now being introduced to the Canadian farmer. This harrow seems to have many advantages that are peculiarly its own. One of its chief features is the simple method employed in holding the teeth firmly in position in the U-bar. This bar has an upper and lower flange in which corresponding holes are made. Though these holes are directly opposite each other, their angles do not range, consequently when the tooth is forced in by a powerful market, a twisting strain is given the tooth, which will not move.

This bar is the result of a happy idea, and as the round part is in front when in use, there is no projection or other

chance for weeds or dirt to clog. But should this happen in very weedy land, all the driver has to do is to slope the teeth by means of the lever and everything will immediately be cleaned off without stopping the team. Then again, out, and but few malleable parts. The construction of this harrow is simplicity itself, whilst at the same time the matter of strength in every part seems to have been prominent in the mind of the inventor. There are several other commendable features about it, amongst which may be mentioned its flexibility to adapt itself to uneven surfaces. The teeth may be moved to any angle desired, when in use for cutting sod or harrowing in seed, or the teeth can be the points are entirely clear of the ground when the harrow is being hauled from field to field, (which may be done without being loaded on to a wagon). As recards size, a pair covers from every first the points are entirely clear of the ground when the harrow is being hauled from field to field, (which may be done without being loaded on to a wagon).

without being loaded on to a wagon).

As regards size, a pair covers from to ft. 6 in. to 11 ft. in width, and each section is provided with 30 teeth, each one being so arranged as to cut new ground, so that every inch of the soil will be uniformly worked.

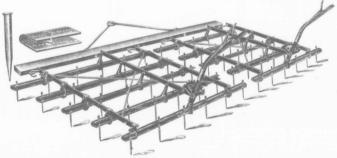
#### To Relieve a Choking Cow

A farmer turned his cattle into an orchard where there was a lot of fallen apples—a bad place for cows. One cow became badly choked with an apple. His neighbor happened to have a piece of rubber hose, about three feet long, rather stiff. They greased this with lard, held the cow's head up, and shoved the hose down her throat, pushing the apple down into the stomach. A piece of rubber hose is just the thing for this purpose, being flexible and soft, yet stiff enough for the purpose.

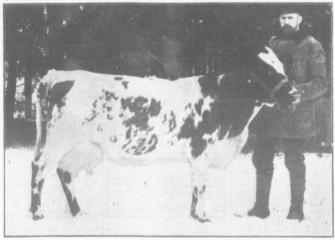
#### To Equalize Draft

A device for equalizing draft so that one horse of a team may not shirk his duty and put the whole burden upon his mate is described by an eastern paper as follows:

"The improvement consists of a set of hames for a double team made of tubular metal, to render them light without sacrifice of strength. The hames are set in a framework, also of tubular metal, the fastening being of a swivel character at the top and bottom to permit of accommodation to the individual movement of the animals. The connecting framework is of a flexible nature, so that there is no interference whatever with the freest movement on the part of either of the horses. The effect of this connection between the animals can only be to make each one assume a share of their common load."



The Blaine Patent Harrow



Ayrshire cow, Sarah 2nd, Champion Provincial Winter Fair, 1903. Owned by H. & J. McKee, Norwich, Ont. See January 1st issue.

## Dairying Has Progressed

## Eastern Dairymen at Belleville-Education the Keynote

In the City of Belleville, on Jan. 6-8 last, was held one of the most successful dairy conventions ever held in Eastern
Ontario. It was the 27th annual gathering of the Eastern Ontario Dairymen's
Association. The attendance was large,
and the interest in the proceedings of a most earnest kind, indicating that our dairymen have not reached that goal where further knowledge of the busi-

where further knowledge of the business is unnecessary.

President D. Derbyshire, of Brock-ville, in his annual address, empfiasized the need of still further improvement.

We must have cleaner stables, cleaner factories and better regulated curing rooms. Progress had been made during rooms. Progress had been made during 1003, but we must reach out further. He estimated that the value of cheese exports last year would reach \$88,000,000, and butter \$7,000,000, and bacon \$16,000,000, or \$7,000,000 nor \$7,000,000 nor \$7,000,000 more than in 1902. At least twenty-flee syndicate instructors will be needed in 1904 to cover the work, as against twenty-flee you cover the work, as against twenty-flee you cover the work, as against twenty-flee you cover the work, as a ten shillings above Canadian creamery in the British market, and English ery in the British market, and English and Scotch cheese at eight to ten shil-lings per cwt. above ours. It should be the aim of the Canadian dairymen to improve the quality of the product till it is the standard of these other makes.

it is the standard of these other makes.

After referring to the importance of
the educational work being conducted
for the benefit of the dairyman, Mr.
Derbyshire strongly deprecated the making of winter cheese. Make butter from
November till May, and confine cheesemaking to the other six months of the
year. This would tend to equalize matters and been cheese of our confine. year. This would tend to equalize mat-ters and keep cheese of not fancy quality off the market.

off the market.

THE DAIRY COW
In the hands of Henry Glendinning,
Manilla, Ont., the dairy cow received a
good send-off. Care should be exercised in milking her. Rapid milking

gives most milk. In the care of the cow the aim should be to continue during the year, June conditions. A good horn-fly remedy was to spray the cows with crude petroleum. Apply it in the stable to the whole herd about three times a week. Milking cows do not retimes a week. Miking cows do not require exercise in winter. His practice was not to let his cows out in the winter, but the stable should be bright, warm and well ventiated. Cows should not be given ice-cold water. The food should be palatable, bulky, succulent and cheap. A good daily diet for cows was: corn silage, 40 pounds; clover hay, 10 pounds; pea meal, 4 pounds, and wheat bran, 4

GRADES OF CHEESE AND BUTTER
Mr. J. A. Ruddick, Chief of the Dairy
Division, Ottawa, brought before the convention the resolution, passed at the dairy conference last fall, advising three dary conterence last fall, advising three grades for cheese and butter instead of two as is now the case. There was need of a third grade so as to give the pro-ducers of the very finest all the credit they might get. In New Zealand a large number of grades had been found they might get. In New Zealand a large number of grades had been found beneficial. He also introduced the resolution passed at the same conference recommending the licensing of cheese factories and creameries. Subsequently a resolution, moved by J. R. Dargavel and seconded by J. W. Hyatt, that in the control of the second of the second of the licensing of cheese factories and creameries, and appointing J. R. Dargavel by the licensing of cheese factories and creameries, and appointing J. R. Dargavel, Henry Glendinning, G. G. Publow, D. Derbyshire and R. G. Murphy a committee to collect information, make a report, and, if thought advisable, prepare a draft bill for presentation at next annual meeting, was passed. PLASUER AND FROPTIT

The evening sessions of the convention were more of a public character and the citizens crowded the opera house on

both nights to hear the addresses which were liberally interspersed with excel-lent music. On Wednesday evening were inerally interspeases.

Hent music. On Wednesday evening Mr. Ruddick, in response to the address of welcome, stated that the Eastern Dairymen's Association was organized in Belleville 27 years ago by Mr. Ket-

chum Graham.

Mr. Thomas McGillicuddy, Toronto,
speaking of the march of modern dairying, stated that at a convention held only 13 years ago, winter dairying, dairy schools, and the silo were first talked of Twelve years ago the Babook tester appeared on the scene and legislation against bogus butter passed. Bacteriology, as an aid to dairy science, was first discussed by the convention seven years

ago.

The Hon. Mr. Dryden's address dealt somewhat with the aids given by the Provincial Department of Agriculture to the dairy industry. The further important of the dairy industry. Provincial Department of Agriculture to the dairy industry. The further improvement was a question of men, on the farm and in the factory. To make the best possible product, these things were necessary: Education, unity and harmony, diligence, perseverence and authorisms.

On Thursday evening the programme was of a semi-concert character. The speakers were Prof. Dean, C. C. Jones

and J. A. Ruddick.

Prof. Dean had as his topic the Agricultural College and the Dairy School.

Some new features would be introduced into the school work this year. Instruction would be given in the making of Cheshire and Stilton cheese. Instruction in making cheese boxes would struction in making cheese boxes would also be given. More uniformity in the teaching methods, the lengths of the courses, etc, was needed in the dairy schools of the province.

The experimental side of the school work was dealt with. Milk for home use in work was dealt with. Milk for home use in the cities could be best preserved by pasteurizing to foo degrees and cooling immediately to 40 degrees. After this treatment it will keep from 4 to 5 days at 70 degrees. He emphasized the need of more inspection of the milk supply in cities and towns. In cold curing he can be considered by the ice and mechanical refrigeration processes, the latter method was found to give better results, the air in the chamber being purer and drier. There was a little too much moisture in the ice method, though it was much the cheaper. Under present conditions the mechanical plan was too expensive for practical purposes. After six weeks the cheese ripen at about the same rate whether in a cold or warm place. More ther in a cold or warm place. More rennet should be used where cheese go directly into cold storage. Cheese put

directly into cold storage. Cheese put in boxes in cold storage right after being made, cured better than the cheese on the shelves at the same temperature.

Mr. James took as his text the evolution of agriculture in Ontario during the past 25 years. Agriculture was now developed along many lines and the farmer was in a more prosperous position in consequence. To show the advantage to the farmer of having more than one line of agriculture, Mr. James than one line of agriculture, Mr. James compared five counties around Belle-ville with three counties in Western Onville with three counties in Western Ontario. In the former, dairying alone was largely carried on, the five counties producing cheese to the value of \$3,741,000, or \$746,000 per county, while the three Western counties produced cheese to the value of \$2,001,000, or \$754,000 per county, but in addition bacon products to the value of \$2,453.000. For every \$1.00 the farmer of the large counties produced \$1.00 for bacon, while the farmer of the five Eastern counties refarmer of the five Eastern counties re-ceived only 40 cents for bacon for every

\$1.00 from cheese.

A great deal of attention was being paid in our system of instruction and paid in our system of instruction and education in agriculture to the farmer and latterly to the farmer and latterly to the farmer's wife. It was now time to do something for the boys and girls of the farm. Agriculture in public schools should receive more attention. The farmer could bring this about if he would only demand it.

Mr. Ruddick followed in a brief talk on the work of the Dominion Department of the property of the

cars for butter started from 48 different points in Canada to Montreal. The railways furnished 105 iced cars per week for cheese in 1903. Government con-tracts with oc a vessels for cold storage chambers expired last year, yet 42 steamers sailing from Montreal had these chambers in operation last year, 14 had cooled air chambers for

SYNDICATE WORK

The morning and afternoon session were of the most practical kind and subjects of vital interest to makers and patrons of cheese factories were fully

discussed.

Mr. G. G. Publow, Chief Instructor, reported on the syndicate work of 1903. 552 factories contributed \$15 each towards the work. These were organized into 22 syndicates with an instructor over each. These made in all 3,317 visits 44,310 tests for adulteration were made, and only 359 cases of adulteration found, while 10,693 fermentation tests were made with 9,020 more or less tainted. Thus showing that the instructor's is more needed to look after the flavor of the milk than for the dishonest patof the milk than for the dishonest pat-ron. 250 factories made improvements during the year to the value of \$43,000. Many factories are not in good condi-tion. Not more than 25 per cent, of the factories fulfil the requirements of an up-to-date properly equipped factory. up-to-date properly equipped factory. There were few complaints about the milk in May or June; the cheese was good and the weather cool. Early in July the instructors reported the cheese bad in flavor, and too much acid. On investigation the trouble was traced to a yeast plant found to be very prevalent in unclean whey tanks, and occasionally in the trees, etc., near where the milk



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was kept over night. This difficulty arose in non-syndicate factories also. With this exception, there was greater uniformity in the quality of the cheese made. The chief general defects were in flavor, texture and finish.

Dr. INSANITAMY PACTORIES.

Dr. INSANITAMY PACTORIES.

Of cheese factories and creameries from your control of the property of the property of the property of the property located and can't be drained to

a sanitary standpoint. Many are not properly located and early the drained to advantage. Often the construction is bad. Make-room should have water-tight floors, which should slope to drain. A good cement floor built from the ground up is best and will last at least 15 years. Have drain pipe of glazed tile and built roo feet from factory before discharging. The septic tank system for disposal of the waste was best. No shallow wells should be used at fastories. posal of the waste was best. No shal-low wells should be used at factories as the drainage gets in. Keep the factory inside and whey tanks clean. Keep tanks away from the well. If cans are not kept clean, factory will be seeded with bad germs.

He had investigated the difficulty with acidy and bad-flavored cheese at the factories and found it due to yeast germs tactories and found it due to yeast germs which grow readily in some whey tanks. The whey showed these germs, which caused an open, acidy bitter cheese, with numerous pin-holes, which afterwards developed into a slit-like form. The remedy was to thoroughly cleanse the whey tanks, and keep them clean,

the whey tanks, and keep them clean, keep the milk away from the trees and dust and cool to 60 degrees.

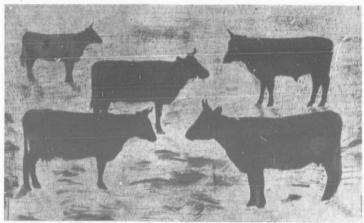
The discussion following these two addresses was of a most practical kind. In reply to a series of questions Mr. Publow stated that the maker should Publow stated that the maker should not have to clean the whey tank; patrons should get a man to do it. The Tweed syndicate, where only five factories return the whey, won most prizes at Torotto last year. Milk should be cooled immediately after milking to 60 degrees or 65 degrees, and kept covered up in a cool clean place over night. Twenty-line per cent. of the patrons during the per cent. of the patrons during the green to 60 degrees to 60 degrees to 60 degrees to keep till Monday. There is not honor enough or makers would not take milk they know to be would not take milk they know to be bad. If a maker knowingly takes in bad milk he should pay the loss, if any. In-stead of demanding a guarantee, fac-torymen should hire a man and if he is good dismiss him.

no good dismiss him.

An important point fully discussed was of what material to make whey tanks. A good solid, well-made cement tank, properly set, would fill the bill, but it should be elevated. Cement tanks are universally used in New Zealand. A tank made of the same material as an iron boiler is good, but too expensive. A galvanized iron tank was good. A galvanized from tank was good a detenguality of this expressive for a better quality of this milk cans.

TRANSPORTATION Mr. Ruddick took up the preservation and safe transportation of butter and cheese. The finest Canadian butter cheese. The hnest Canadian butter gives good satisfaction, but is not uniform, and is said to deteriorate when landed in England. Should be kept cool en route. Of 400 cars examined, the temperature ranged from 46 degrees to 60 degrees. But this service was better than when the temperature ranged from the form that the cool of th to do degrees. But this service was per-ter than what the creameries provide at the factories. Butter may be held a few days at the factory at 40 to 45 degrees but no longer. Butter at the creameries should be kept at 30 to 36

To prevent mould, thoroughly disin-To prevent mould, thoroughly disin-fect creameries by washing whole in-side with a solution of 1 pint bichloride of mercury to 1000 parts of water. For-malin may be used as a spray. Mr. Ruddick then outlined the work of the cool-curing stations since their inception, with a special reference to



Group of Pure-bred Ayrshires, property of W. H. Tran, Cedar Grove, Ont.

that of 1903. In 1903 over 47,000 cheese were handled at the four stations. The saving in shrinkage by cool-curing in 1902 was 1.50 per cent. and in 1903, 1.23 per cent. From July 8 to August 25 the shrinkage on a cheese in the ordinary room was 3 b.1 oz., and in the cool-curing room ! b. oz. per box of 85 lb. The quality was much improved by cool.

Paraffining helps to preserve weight and prevents mould. Many shipments landed in Britain with 25 per cent. of the boxes broken. Boxes should be cut 5 to the inch, and well made.

#### MILK FOR CHEESE-MAKING

Prof. Dean, in an address on this subject, emphasized the need of attention to ject, emphasized the need of attention to first materials, such as the soil, the plants grown on it, and the animals. Alfalfa was recommended as a member of the clover family that would reduce the cost of milk production by nearly one-half. Study the individual animal. At the College the highest indivudual cow record was 10.214 lbs, and 418 lbs. of fat given by a grade Holstein, and the lowest, 3,775 lbs., and the average for the herd of 30, 6,711 per cow, and 2,76 lbs. of butter. Cool milk to 60 or 65 degrees.

#### BUTTER-MAKING

The last day of the convention was devoted chiefly to butter-making. Mr. J. W. Mitchell, Supt. of the Kingston Dairy School, gave a well prepared paper on export butter. Milk for butter should be pasteurized. A good clean-flavored active starter should be used. He attributed some of the rancid flavor day, into the pool gream of the property of the day into the cool cream of the previous

Instructor Publow discussed the work of the coming season. He thought inspectors should have the power of health inspectors and be able to condem factories that were not in good sanitary condition. A better appearing cheese would be the demand in future. To show the loss to the patrons by sending poor milk, Mr. Publow stated that at one factory the inferior milk had been made up separately. One pound of cheese was made from 10½ pounds of the good milk while it took 14 pounds of the inferior milk to make a pound of the inferior milk to make a pound of the inferior milk to make a pound of of the inferior milk to make a pound of

OFFICERS FOR TOOA

The officers elected for the present year are: President, D. Dertyshire, Brockville; ist Vice-Pres, J. R. Dargavel, Elgin; 2nd Vice-Pres, John McTavish, Vancamp; 3rd Vice-Pres, L. L. Gallagher, Wilton; Directors: E. Kidd, M.P., North Gower, Wm. Eager, Lems Whitton, Wellman's Corners, T. Lems Whitton, Wellman's Corners, T. Lames Whitton, Wellman's Corners, T. Banker, Marida James R. Anderson, Ameliaaburg, and James R. Anderson, Ameliaaburg, and Sanderson, Ameliaaburg, and Sa

liasburg.

The financial statement shows the Association to be \$3,000 behind. The increased instruction had caused a large additional expense.

#### 10 Dairy Don'ts

Don't turn the cows out in the cold Autumn rains and storms Don't scrimp the feed when the cows leave the nasture.

Don't keep a cow that is not earning

her feed. Don't breed to a scrub sire.



G. Murphy, Secretary of the Eastern Ontario Dairymen's Association.

Don't milk with wet hands.

Don't allow the milk to stand in the

Don't mix water with the milk to raise the cream.

Don't guess the temperature of the cream by sticking the finger in it. (A thermometer costs 25 cents.)

Don't salt butter by guess, weigh or measure it.

Don't use cheap, coarse salt, only fine dairy salt is fit.

Don't touch the butter with the hands. Don't think rinsing will keep cans and dairy utensils clean; add boiling water, washing powder, muscle and sun-shine.—L. W. Lighty.

#### How to Mix Cement

How to Mix Cement
Cement is coming gradually into use
as a substitute for lumber in the building of floors and the erection of silos
and other farm buildings. The value
of the cement structure.
The substitution of the proportional
to a large extent upon the proportion
in which to mix cement, sand gravel.
The amount of cement to use will depend upon the character of the gravel
and sand, and therefore, it is difficult to
law down any hory or, it is difficult to and sand, and therefore, it is difficult to lay down any hard and fast rule that will exactly serve in all cases. The fol-lowing is a test or method recommend-ed by the United States Government for ascertaining the right proportions to use and may be found helpful to those receipts generate.

to use and may be found helpful to those erecting cement structures:

Take of gravel a certain measure and shake it down to compact it; strike off the top with a straight edge; then measure water and pour into gravel until all voids are filled. The water used will show the amount of the mixture of cement and sand that will be required to make a prose concrete.

cement and sand that will be required to make a proper concrete.
Repeat the operation, using sand instead of gravel, and the amount of water absorbed by the sand will show the amount of cement to add to the sand. But it must be borne in mind that the cement and sand mixed with that the cement and sand mixed with water will not fill the same amount of water will not fill the same amount of adding the water that is, one cubic foot of cement and the sand will not, when mixed with water, make three cubic feet of mortar.

## The Workers in Women's Institute

#### Hints on Home Making-Women's Work-Co-operative aundries

A few years ago there was not such a thing known in Ontario as a Women's Institute, but during she week of the Fat Stock Show, in Guelph, over 125 delegates from the 31 institutes now existing gathered in convention to discuss means and ways of making that valu-able institution of still greater useful-ness. Superintendent G. C. Creelman, owing to illness, could not be present, and his cheery presence and wise coun-

and his cheery presence and wise counsel was much missed.

It seemed but fitting that the first meeting held in the new McDonald Institute should be composed of a body of such representative women from all

over our province.

Miss Laura Rose occupied the chair, and gave the opening address. After heartily welcoming the ladies, Miss Rose based her remarks on a question lately put to her by a society girl, "Will lately put to her by a society girl, "Will this training along domestic science lines tend to a refinement of kitchen work?" Miss Rose showed that all honest work was honorable and was respected just in proportion to the amount of skill and brains there was put into it put into it. Housework has been too long confined almost entirely to the ignorant classes, and as a consequence the work was thought ignoble, but when this most important of all work passes into the hands of educated, skilled workmen, the service will be better, the pay more in proportion to the importof the work, and the workers will

ance of the work, and the workers win find their proper place in society. Dr. Mills, of the O. A. C. gave a splendid address, outlining the work taken up in the McDonald Institute. There are two years' courses for teachers and housekeepers, while three-month courses make it possible for those to courses make it possible for those to attend who can only leave home for a short time. Every branch of household work is taught, from washing clothes to making dresses. The chief aim is to make our girls more capable to care for homes. The foundation of our for homes. The foundation of our country depends on the condition of its home life, and the home life is determined mainly by the mother in it. Dr. Mills paid a high tribute to the generalty of the princely gift, made, the 4-Donald who, by his princely gift, made, the 4-Donald Institute a possibility.

WOMAN'S WORK MISS Agnes Smith presided at the afternoon session and after a few earnest words regarding the Institute work, introduced Miss Martha Van Renssalaer, of Cornell University, Ithaca, N. Y., the chief speaker at the convention. Miss Van Renssalaer has a manner of acceptable of the control of t power and information that she made listening a restful pleasure. She spoke on "Woman's Work," and instead of going into details of the various occu-pations of women, as might naturally be expected, she enlarged on methods of expected, she enlarged on methods of saving strength and steps,, and the man-ner of doing properly simple things. She emphasized the importance of using the limbs more and saving the trunk of the body, which holds the vital organs. This she illustrated by picking up a paper, first by bending directly over and grunting as she did so, then by bending e knees and so not straining the body the knees and so not straining the body. Men do not tire as much as women because they know the art of working without so much body motion. A man saws wood all day and does not complain; a woman washes a few hours—a similar exercise to sawing wood—and she is tired out. The man uses his arms, the woman both her back and arms.

Our houses are not built with a view to saving steps, nor are they appointed so as to be most convenient. The pegs are put up too high, the sink and stove are too low. Many women tire because they do not stand properly. They allow the weight of the body to rest on the heels instead of on the ball of the foot. This strains the muscles in the back and also makes a woman a bad figure. Van Renssalaer here used a rather striking and amusing illustration. She said, when we build our homes we plan said, when we build our homes we plan to have the parlor and sitting rooms in the front, but the kitchen and all that pertains to it in the rear. Now, let me suppose that the head and chest—the insuppose that the head and chest—the in-tellectual and emotional—represent the parlor, while the digestive organs the kitchen, and see that the former is kept to the front and the latter held well in the rear. This gives the right poise to the body and dignity to the carriage. The great need of the women of Am-erica is to learn the meaning of the

word rest. A German physician, after studying American faces, said: "They have some terrible disease—what I should call Americantis." When we go to church or to a concert we lean forward in a tense attitude instead of set-tling ourselves comfortably and resting while we listen. We go to the station and find the train half an hour late, then we impatiently stamp the foot and quite upset our nerves over the delay instead of quietly contenting ourselves until the belated train arrives. We want to learn to let go of ourselves, to sit or lie down as frequently as we can, and relax all our muscles—then shall we have better

our muscles—flen shall we have better health and better tempers. All says Van Rensselaer's talk will do good, for she had an audience before her of earnest workers, willing to put into practice any good suggestions and to tell to others the helpful advice given.

to tell to others the helpful advice given.
Mrs. Willoughby Cummings, of Toronto, gave a detailed account of the
work taken up by the National Council
of Women, and how closely the interests of the Council and the Women's
Institute were connected, and that by working together greater influence could be exerted in having needed reforms brought about. All are working to make happier homes and better citizens, and to succeed we must be united for

and to succeed we must be united for the common good of mankind. Colonel Ferguson, of Scotland, was introduced, and the ladies enjoyed his happy little speech, given in the broad

Section.

Wednesday morning session was devoted to the reading of reports and discussion, Miss Blanche Maddock presiding. Space does not allow for the giving of these reports, but nothing siding. Space does not allow for the giving of these reports, but nothing would tell more forcibly the strong hold the Institute has taken and the genuine approval it has met with. Halton Co.

carried of the palm, having five branches with a membership of 507. The discus-The discussion was mainly on the source and dishough much talking was done, nothing definite was arrived at.

womn's Institutes as schools
Miss Bella Millar took charge of the
last session. Mrs. Andrew Kenny gave
a talk on
Schools of Domestic Science." Mrs.
Kenny said the Institute is to the women in the country what the domestic science school is to the women of the town. The ladies get together, relate their experiences, tell of their failures and successes, and so prove mutually helpful. The Institute has been the helpful. The Institute has been the means of developing many a hidden tal-ent and making women think better of themselves and vastly better of their neighbors. That women should know something of business matters was brought out by reference to Prov. 32-16: brought out by reference to Prov. 32-10: "She considered a field and buyesh it," which showed an understanding of the soil and its value. There would be less business failures, Mrs. McTavish said, if women took more interest in their husbands' affairs and knew how matters stood. Plainer living, higher thinking, and more rest were the essentials which would sale better women of our Can. would make better women of our Can-adian girls. Teach children to be inadian girls. Teach children to be in-dustrious in youth, even encourage them to make patch-work quilts, and not to have them playing the piano while the mother is working herself to death in

Miss Millar introduced a discussion on co-operative laundries, saying they could be carried on in connection with creameries and cheese factories. Many ladies said they would welcome such an arrangement.

arrangement. The delegate from South Ontario brought in a resolution that bakers' bread should be put into paper bags before leaving the bakery. Miss Agnes Smith, at he request of Mrs. Willoughby Cummings, had the ladies copy the following questions. Answers to be sent in later in order to ascertain somewhat of existing condi-

farm life a desirable one for

I. Is farm lite a desirable one for women?
 On how many farms is milking still done by women?
 How has the establishment of dairies, cheese-factories, and egg-collecting affected the pocket money of women?

4. On how many farms are daughters remaining at home to help mother?

5. What are the occupations of the daughters who have left home?

6. What is the average acreage of the

6. What is the average acreage of the Canadian farm and how much help is employed?
7. On how many farms is good help engaged by the women? If there is ill-ness, what is the disease?
A pleasant "At-Home," presided over

A pleasant "At-Home, presided over by Miss Watson, lady principal of the McDonald Institute, and Mrs. Mills, brought this successful convention to a

## Canada Permanent Mortgage Corporation

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The within makes the without. This applies with force to the home. It is true the same house may hold an exacting husband and a forgiving wife; a kind brother and a aclish sister; an indifferent child and a watchful parent; yet from this home soil is developed a family life as distinct as any physical type which can be easily traced from child to parent.

#### Every Year

There come new cares and sorrows
Every year;
Dark days and darker morrows,
Every year,
The ghosts of dead loves haunt us,
And disappointments daunt us,
And disappointments daunt us, Every year.

"You are growing old," they tell us, Every year; "You are more alone," they tell us,

Every year;
"You can win no new affection,
You have only recollection, Deeper sorrow and dejection, Every year."

Too true! Life's shores are shifting, Too true! Life's shores are shi Every year; And we are seaward drifting, Every year; Old places, changing, fret us, The living more forget us, There are fewer to regret us,

But the truer life draws nigher,
Every year;
And its morning star climbs higher,
Every year;
Earth's hold on us grows slighter,
And the heavy burden lighter,
And the Dawn Immortal brighter,

Every year. -Albert Pike.

0 Our Queen at Home

By Sarah A. Tooley in the Christian Endeavor

Queen Alexandra begins her day with very little more formality than any lady of the higher classes, performs her toilet with the aid of a maid or "dresser," and is not surrounded by a bevy of ladies-in-waiting, as was the custom at

ladies-in-waiting, as was the custom at court in past reigns. She invariably breakfasts in her own apartments; and, as every moment of the royal day must be utilized, the time succeeding breakfast is devoted to the discussion of matters of various kinds with the Hon. Charlotte Knollys, who with the Hon the thing very lass been chief woman of the bedchamber to the Oueen.

Queen.

As the British public considers itself cheated if our beautiful Queen appears in the same costume twice, it is inevitable that the consideration of dress forms an important item in Her Majes-ty's day. Not only has time to be given to the selection and approval of new costumes, but there is the further choice of the dresses which she proposes to wear at the various public functions and private entertainments in the day's programme. In the busiest part of the season the Queen may have to make a season the Queen may have to make a

change of dress four times in the day. Never, probably, was any royal person more persistently besigned by begging letters than is our kind-hearted Queen, and a portion of each morning is devoted to a consideration of philauthropic other documents of a philauthropic

character.

By non Her Majesty has usually attended to pressing business matters. She has approved or dictated replies to a variety of correspondence; has considered the merits of this or that institution desiring her patronage, and decided the amount to be forwarded to such and such charities; has intimated her pleasure to hear a rising musician perform, her willingness to view some work of art, or to give sittings to a painter or photographer. Materials and designs have been approved, and orders sent to

photographer. Materials and designs have been approved, and orders sent to the modiste and milliner. Probably guests are expected at the palace, and the royal hostess assigns rooms and personally supervises little matters for their special convenience and comfort. In this respect the Queen is a most thoughtful hostess. She loves



OUR GRACIOUS QUEEN, ALEXANDRA.

to make people about her comfortable. She is careful to see that the rooms of her friends and guests have the pictures, dlowers and little things calculated to give them pleasure. So far as matters of the culinary departments and the table go, it will be readily understood that, as the King has one of the first chefs in the world, with a little army of cooks under him, the Queen does not enter into this province of housekeeping. Her personal preferences are known and catered for.

After twelve o'clock Her Majesty, if

known and catered for.

After twelve o'clock Her Majesty, if
the weather is tempting, will walk in the
beautiful gardens of the palace, accompanied by her pet spaniels, and not intrequently takes her kodak to snap little
scenes. If the weather is not inviting,
the Queen will remain in her boudor
and pass the time before luncheon in
family letter-writing. Sarcely a day
passes without her writing to the King
of Denmark while long epistes of sisterly gossip so constantly to Russia and
Gminden. Music has always been the
Queen's favorite recreation; but today
she devotes quite as much time to water-

Queen's favorite recreation; but today she devotes quite as much time to water-color sketching and photography, for which she has a special studio.

Next comes luncheon, at which the King and Queen spend a social hour with various members of their family.

Sometimes they are joined by the Prince and Princess of Wales, the Duke and Duchess of Fife, the young Princesses of Connaught, or one or another of His Majesty's sisters. They are rarely, if ever, without family visitors to lun-

Afterwards the King returns again to his state duties, and the Queen probably will receive in audience wives of ably will receive in audience wives of distinguished foreigners or ambassadors before she sets out for her aftermoon drive in the Park, provided that no special public function—which is more likely to be the case—claims the royal attention. The afternoon is also utilized by the Queen for calling on members of her family or private

If Her Majesty takes tea at home, she is usually joined by children or grand-children; and a very cosy and merry meal it is, when she herself pours out tea quite in the family style at a set table. The King, like any other busy man, puts in an appearance if he can.

The time which intervenes between

The time which intervenes between tea and dinner is passed for the most part part in relaxation—family talk, music, reading, and letter-writing, until the time arrives to make the evening toilet, which, when the Queen is in London, is an important matter, as she indon, is an important matter, as she invariably has some state concert, reception, or dinner to attend if she is not
herself entertaining people at the palace
or holding an evening court. No matter how busy the day has been, Her
Majesty has to brace herself up for
great social efforts in the evening, and
it is not until most of us have enjoyed
some hours of sleep that the Queen gets
her well-earned repose.

her well-earned repose.

And yet the calm, beautiful face of hers shows no wrinkles, and the hand of time has scare left its finger on her perfectly moulded cheek, or spoiled the outlines of her graceful figure. Truly a woman of wonderful tact, endurance, and spirit, is Queen Alexandra, and in her own personality is an excellent re-commendation for hard work.

#### The Way of the Good Woman

The Way of the Good Woman

If some women would only bear in
mind that they may need the world's
good word themselves some day they
would be more careful in what they say
and how they say it. Charity is of
thought as well as deed. It is not restricted to the feeding of the hungry and
needed among the rich as among any
other class. The woman who would be
a pattern of her sex will cultivate a still
congue. If she would be a blessing to
humanity she will temper justice with
nercy, and above all she will keep her
verdicts to herself when she sits in judgment on her friends.—Philadelphia Telegraph.

#### Others Think So, Too

"I think very highly of THE FARMING WORLD. Have been a subscriber for a number of years, and would not do without it.

H. COBEN, Kinmount P. O., Ont.



CHAPTER X.

"It's the safest place," said the captain o Ginger. "The Condor can't spare im, and it wouldn't pay to put him "It's the safest piace," said the captain to Gingera. "The Condor can't spare him, and it wouldn't pay to put him among strangers; though I always found Hickory a fellow to be trusted." "So he is," said the mate, "and what's more, he knows how to mind his own business."

"For that reason we must keep a strong hold upon him. Once loosen it and he might bolt, which would be against our interests, even if he didn't

You are right there, captain. "And to strengthen our hold I'll put nim in my own house. Dr. Tweedle and the Chinaman to look after him, and my sister and Roxy to keep him straight."

straight."
"And generosity will bring it's own reward," said Ginger with a frown. "Why shouldu't it." in a questioning tone. "The lad will be glad to come back when he's well again. How long do you suppose it will take?"
"Two or three mouths, anyway, for

"Two or three months, anyway, for the leg to get strong."

"e'll give him till Christmas. After that he can help to refit the brig."

"She needs it badly. This might's gale has rattied her worse, than ever captain. How many years did you say she'd been running?"

"the worse was the strength of the str

"Forty odd, and it's twenty since I bought her."

On reaching Roxy Cove next morning, Ginger and Skittles helped Hickory over the gangway. Notwithstanding all their efforts the leg received many a wrench before they got him comfortably seated on a blanketed board at the bottom of the boat. "Skittles will row us over," said the

captain, taking his seat in the stern. "Won't you want another hand," asked

the mate. "No, Chin is a strong fellow and he will meet us. I leave the ship in your charge mate. In a few hours I'll be back again.

loodluck to you Hickory," cried

"Kep your bed hot till your leg's sot," shouted Cranks.
"Two months and a tiger," yelled Rozin from the upper deck; and then the sailors waved their caps as the boat floated out from the ship. They all liked Hickory.
"Good-have how they

"Good-bye boys. I'll soon be back

"Good-bye boys. It soon be taken again."
"Of course you will; but there'll be never a rise next time."
"I should say not, the last nearly finished him," said Ginger.
"How did the thing happen?" said Cranks, who never like to hear Hick-

ory's hazing referred to.

"A candle was left in the coal bin, and he fell when he went to take it out."
"That's a rum yun," was the muttered comment. Pickles gave a long, low whistle and the men scattered to their

different posts.

Hickory leaned against a lazy-back behind Skittles who rowed.

"Does it hurt now?" the latter asked

"No-thanks," was the answer.

The shock of the injury, the pain on moving, and the sympathy of the men moving, and the sympathy of the men as he put out h. shore were almost too much for Hickory. The captain could see his face, but Skittles could not as he brushed away a tear. For some minutes the young man rowed rapidly, putting hundreds of yards between them and the ship.

and the ship.
"Steady—not quite so fast—we are on
the shoal," suddenly cried the captain.
Slowing up, they swept lightly over
a rocky ledge into deeper water. Then
on past little islands covered with cedars
and pines, round a headland and up and pines, round a headland and up a narrow cove, wooded with evergreens down to the water's edge, save for the little clearing about the boat house; while away back of all, upon the rising hill, a rambling and picturesque old house nestled among the apple and peach trees of the orchard.

"Helio Chin!" shouted the captain to

Mongolian, already watching their

arrival.

"Yees captaine. You homee, gollee, so glad."
"Is your missis home?"

"Yees, but missee away. Won't be

home tree days."

A huge Newfoundland dog bounded down to the captain, almost knocking him over in the exuberance of his joy.

"Down, Nept down sir; tie up the boat, Skittles. Then you and Chin can

boat, Skittles. Then you and chin can provise a stretcher, while I go to the house and see what can be done." "I think I could walk sir," said Hick-ory, "if Skittles helped me I might hop on one foot.

"No, the men will carry you. Leg broken," he finished, turning to Chin. "Too bad," replied the Chinaman, "makee carry all right." In half an hour Hickory was lying

on a couch in a long, low room on the ground floor. Chin had gone for the doctor, the captain was talking in another room with his sister, and Skittles was alone with the invalid. Each of them seemed inclined to speak, and the former kept moving nervously about

the room.
"I'll be terrible glad when you get back," he blurted out at last.
"So will I," said Hickory.
"The Condor won't be the same without you."

"Nonsense, Skittles, you've only a few more trips before the season closes, any-

The brig needs you about as much we do. I believe the old thing is as we do. getting rotten. Those cross-beams be-

The door opened and the captain and

"He door opened and together.
"the doctor came in together.
"Here's the lad," exclaimed the former. "He's one of my deck hands, and (looking from behind the doctor very hard at Hickory) in the storm last night. he fell down one of the hatchways and ke his leg. "Hurt anywhere else?" curtly asked

the doctor.

the doctor,
"No," said Hickory, "only my leg,"
"Humph!" ejaculated the surgeon
grimly, while his busily eyelrows contracted over his parchment-like face.
He was a man of few words. What he
thought no one ever knew. He received impressions and gave orders, but
discussion was not in his late. discussion was not in his line.

discussion was not in his line.

"Thia and fibula both broken clean, at the lower third, but not a bruise! Mighty peculiar, mighty peculiar! How did it happen, young man?"

"The captain has told you."

"Oh, I see! All right! I twill take a month to set, another to unite, and

a month to set, another to unite, and a third to carry your weight again.

Pretty bad break, captain."

"Will it take as long as that?"

"He might be on crutches in a month, but it would be safer to wait two."
"Just as you say, doctor. He's a handy lad and worth keeping. You must do

lad and worth keeping. the best you can for him.

"Certainly," and with the aid of Skit-tles, he adjusted the limb and put on

As he finished, the door opened, and the captain's sister came in. She was an old maid, and with her eagle's nose, looked like her brother.

Trickory, this is my sister, Miss Hart," said the captain. "She's going on double duty as hostess and commanding officer. The doctor's orders too, like the captain's, must be obeyed."

"You are very good to me, captain," id Hickory. His room was both com-

"Did you say Hickory," said the doctor, casting his steel grey eyes upon the captain.
"Yes. Does it surprise you?"

"Not in the least. You were always

consistent."
"Glad to find a chap that knows it. But I must go. Come into my den, doctor, and have a glass of champague before I start. You can go to the boat Skittles. 1'Il be down in a few minutes."
Giving his hand to Hickory, Skittles departed. Then the captain led the way to another room. But in doing so he caught the young man's eye, and pressed his forelinger tightly upon his light. The signal was imferested and was answered by a nod of assent.

In another minute he was alone with

In another minute he was alone with Miss Hart. After arranging things, she spoke to him for the first time.

"The captain has told me about you," she said, "and we have concluded what to do. Chin will come in twice a day to fix you up and do what is necessary. Your meals will be sent in at eight, twelve and six. If you want anything particularly at any time you may ring this bell; but don't ring any oftener than you need, do you understand?"

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we paid for a scientific discovery.

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vitalizing. But germs are vegetables; and this excess of oxygen—the very life of an animal—is deadly to vegetable matter. We spend 14 days in making each bot-tle of Llquozone, and the result is liquid oxygen—the best thing in the world for you, yet certain destruction to disease germs, wherever the Llquozone laden germs, was

Germ Diseases.

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and forever.

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"Thank you, I do; but about the doctor

"He will come when he sees fit."
"I am thirsty. May I have a drink
of water?"
"Chin shall bring it to you. Do I
understand that Hickory is your name?"

"Yes," he replied, his face reddening in spite of himself.
"Tough timber should heal quickly," she said frigidly, as she left him.
"But I am only a splinter," he mused to himself.

to himself.

Early one morning, nearly a week later, Hickory jumped almost into the sitting posture, startled by the words of a jingling song which floated in through the open window. The start gave him an extra twinge, but he was paid for it. Out there at the further end of a long verandah, a young girl in a white frock was spinning round and round, while she sang in a rich florid tone the quaint words of an old dog-

"Hickory, pickory, pins are prickety, Whether long or short. Spin, span, Tommie began, Twidlety twadlety twenty-one.

F double o t speels foot, Carries his stocking in his boot Cause he thinks he's smart."

Her brown hair was shaken loosely Her brown hair was shaken loosely over her shoulders, and she looked very engaging in the background of sunlight and green, as he caught a glimpse of her saucy beauty.

"Hush, child, Didn't i tell you that's the man's name?"

"That's the reason I'm singing it," and again she commenced louder than

'Hickory, pickory, pins are prickety, Whether black or white--"

But a laugh floated through the open window from the invalid's room. Quick as a flash the singing stopped, and the

as a flash the singing stopped, and the girl bolted into the house.

"There, what did I tell you?" exclaimed her aunt, "you the captain's daughter, and to sing such a silly thing as that. Will you never be anything but a Tom-boy as lone as you live?"

"Who cares?" replied the girl, Tossing her head. "He's only one of papa's sailors. I'll sing it twice over if he laughs again."

Roxy was a spoiled child and loved to tease her aunt. Having a man in the house of the name of Hickory gave her another opportunity; though her another opportunity; though to do her justice, she had no idea that the invalid would either see or hear her. If it had not been for this little occurrence, Roxy would have gone to see him that very day; but there was a full tone in Hickory's laugh that made her color a little; and she concluded that she would not go near him for some time very notwithstanding her father's west. yet, notwithstanding her father's message, that she, as wel should look after him. well as her aunt,

Hickory heard her voice often. Her ringing laugh from a distance would echo through the doorway; and now and then he would catch a glimpse of her as she passed along the corridor, but

The doctor visited him regularly and Chin attended to most of his wants. Still, during the first week he felt lonely; and it was not until after Roxy's arrival that his spirits rose. The pleasure of heating her girlish voice and of knowing that she was in the house was

enough for him. There was a livelier

enough for him. There was a livelier ring to things, a pleasanter atmosphere, for which he was grateful, even though she did not come near his room. At noon, on the third day after her return, however, there was a sharp little rap at his door. He had not noticed the approach of footsteps.

"Come in," he cried The door opened, and to his astonish-

ment Roxy came in with his tray.

"You don't know me," she exclaimed,
"but I'm the maid, and I've brought
your dinner". your dinner.

"It is very good of you," he replied, looking at her with an amused face. "I think I had the pleasure of seeing you helper."

"When was that, pray?" "When was that, pray?"
"It was the day after you returned, when you sang that funny little song."
"Hickory pickory?"

"Yes."
"Shall I sing it again?"
"If you like."
"But I don't like. Is your name
Hickory?"

"That's what they call me."
"I'm not the maid at all," she said,
"but the captain's daughter; and I've

Hickory colored. He felt sure she would ask things that his word forbade

him to answer.
"Now I want to know, is Hickory your

proper name?"
Her big brown eyes were riveted upon him. It was enchanting to have such a bright, fresh-looking face, so full of animation and so near, and it set him thinking fast and hard. But he must not give up the ship even to Roxy.

(Continued on page 73.)

# SUNDAY AT HOME

#### Warp and Woof

Before He formed a star Our God arranged our lot; Our little lives were planned afar When we as yet were not

Time hath no aimless strands, God warp and woof combines: Life's loom is in His holy hands, His shuttles know their lines.

He loved us when as yet
We had not seen the sun;
God's forethought is man's coronet, And love by love is won.

He purposed all He sends, He knows what us awaits; He marketh now the distant ends Of paths to hidden gates.

All acts His eyes foresee And never choice constrain; o willeth He that we are free His grace to lose or gain.

His love hath filled the past, An ocean without shore; Our purchased souls Him, first and last,

Love, trust, obey, adore.

—Joseph Cook.

#### A Code of Moral Law

Temperance-Eat not to fullness;

drink not to elevation.

Silence—Speak not but what might benefit others or yourself; avoid trifling

Order.—Let all your things have their places: let each part of your business have its time.
Resolution.—Resolve to perform what you ought; perform without fail what you resolve.

Frugality.—Make no expense, but to do good to others or yourself; that is,

waste nothing.
Industry.—Lose no time; be always employed in something useful; keep out of all unnecessary action.
Sincerity.—Use no hurtful deceit;
think innocently and justly; and if you

speak, speak accordingly.

Justice.—Wrong none by doing injuries, or omitting the benefits that are

your duty. Moderation.—Avoid extremes; for-

moderation.—Avoid extenses, note that the control of the control o

Humility.-Imitate Jesus Christ -Franklin.

#### The Saviour on the Shore By Prof. McFadyen

Oh! the pathos of the lives that fail, prefigured by those toiling men upon the lake. Out upon a troubled sea, working, it may be, deep into the night, even into the gray dawn, toiling long and catching nothing—such are some of us

And when in some quiet mood in the late night, or the early morning, a voice comes sounding across the waves, "Have ye any meat? have ye caught anything?" all we can say is, "No." Our souls are weary and hungry and we have nothing

Now, why should this be so, when all Now, why should this be so, when an the time there is One standing upon the shore, longing to tell us where to cast our nets? We think we know well enough how to look after these nets of ours, yet we catch nothing, because we do not have a glimpse of that blessed

do not have a glimpse of that blessed Presence watching patiently, not far away, to attract our foolish eyes. It is this that makes the difference between life and life. One man sees Jesus, another sees Him not. Not to see Him is to fail, to toil for years and catch nothing. To see Him is to triumbh.

How Gratefulness Helps

Gratefulness for the mercies of God is an open gateway for righteousness to get into a man's life. It is the realization of God which men chiefly need to make them think of and care for righteousness. When a man gets the sense that an eternally righteous God is present and booking right down into his heart, he begins to long to have that heart cleaned up and made fit for the divine inspection. But with the unspiritual lives that most of us lead, it is hard for the Father to attract our attention. Sometimes he must smite us Gratefulness for the mercies of God is hard for the Father to attract our at-tention. Sometimes he must smite us heavily to make us understand that he is near. But we can feel very certain that he does not wish to be obliged to use that way; that he loves much better to make himself known to us by heapto make himself known to us by heap-ing our lives with favors from his bounty. What a pity that so many to whom he appeals in that winning way, never make any response to him a whole life long. But when a little un-derstanding of whence blessings come and what they are meant for, creeps into a man's mind, he not only begins to feel thankfull, but be certainly must feel some impulse to please his great Benefactor. All genuine thankfulness, therefore, must help on to righteousness.

#### Thoughts for the Day

We learn virtues by practicing them. There is more happiness in caring for others' needs than for one's own selfish

It is better to sacrifice one's love of sarcasm than to indulge it at the ex-pense of a friend.

One's own comfort deepens as we are the means of comforting others.

The best thing to give your enemy is The best thing to give your enemy is forgiveness; to an opponent, tolerance; to a friend, your heart; to your child, a good example; to your father, deference; to your mother, conduct that will make her proud of you; to yourself, respect; to all men, charity.

#### A Plain Little Every-DayPrayer

Most pitiful Son of God, who came down from God to live with and work down from God of five with and work alongside of men, Thou knowest the world and its temptations and trials, and Thou knowest the world to come after this. I beseech Thee to explain to me what to do day by day. Help me to be strong, to persevere in the ways of color lines. be strong, to persevere in the ways of right living, that I may make headway out of the wilderness of sin and be able to resist the allurements of evil. In weakness and sickness nurse me and strengthen me to get over the rough, stony places. If ever I am disposed to turn aside, smite the nemy of my soul and disappoint him. Saviour of the world, and by Thy infinite grace my Saviour, I rest wholly upon the arms one stretched out for my upon Cal. once stretched out for me upon Calvary's cross. Amen.

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# THE BOYS AND GIRLS

#### The Moo-Cow-Moo

My pa held me up to the moo-cow-moo So clost I could almost touch, En I fed him a couple of times, or two, En I wasn't a fraid-cat—much.

But ef my papa goes into the house, En mamma, she goes in, too, just keep still, like a little mouse, Fer the moo-cow-moo might moo!

The moo-cow-moo's got a tail like a

En it's raveled down where it grows, En it's raveled down where it grows, En it's just like feeling a piece of soap All over the moo-cow's nose.

En the moo-cow-moo has lots of fun Just swingin' his tail about; En he opens his mouth and then I run— 'Cause there's where the moo comes out!

En the moo-cow-moo's got deers on his

En his eyes stick out o' their place, En the nose o' the moo-cow-moo is

All over the end of his face.

En his feet is nothing but finger-nails En his mamma don't keep 'em cut, En he gives folks milk in water-pails Ef he don't keep his handles shut.

'Cause ef you er me pulls the handles, why

The moo-cow-moo says it hurts, But the hired man he sits down clost by En squirts en squirts en squirts!— -Saturday Evening Post.

#### Why She was Popular

Why She was Popular

A queer old man once made a tea
party for all the little girls in the town;
and when they were all gathered in his
front yard, in white dresses and carefully hied sashes, he offered a doll for
the most popular little girl in the crowd.
But half the children did not know
what "most popular meant. So he
what "most popular meant. So he
had the children did not know
what "most popular meant. So
little
girl. All the children voted, and Mary
Blain got the doll. Mary was not the
pretitest nor the cleverest of the children, but she got the doll.

"Now," said the queer old man: "I
will give another doll to the one that
tells me why you all like Mary the best."
Nobody another doll to the one that
tells me why you all like Mary the best."
Nobody answered at first. But presently Fanny Wilson said, "It's because
Mary always finds out what the rest of
us wants to play, and then says, "Let's
play that!"

The old gentleman said that was the
best reason he ever heard, and he was

The old gentleman said that was the best reason he ever heard, and he was going to try for the rest of his life to find out what other people wanted to play, and then say "Let's play that!" 0

#### Two Prize Essays

London Tit-Bits gives the following "Essay on Hogs," written by a school-

"Essay on Hogs," written by a school-boy:

"The hog is called a hog b'cuz he makes a hog of himself. It runs in the family. All hogs are hogs. The hog has two sides to his character; one of which is good to eat, caire. As an article of diet the hog is one of the warmest friends to the hu-

man race that I know of. Most of him is good for food, and the rest is useful in making sausages, bristle brushes, and other utensils. Nearly everything about him is palatable but his voice. The latter always seems to me to sound as if an advantage of the same of the sa

hog."

HER OBITUARY ON THE CAT.

Weelve-year-old miss has written
the following fouching obituary on her
late cat, an animal, apparently, of somewhat contentions disposition: "Nigereta
died Thursday, August 27, 1003, at about
2.30 P.M., at his home on Grand Ave2.30 P.M., at his home on Grand Avement of Mrs. Spiffice and
grandson of Mr. Niger Fleels. He

tured; but only sure that all sides of her being grow in harmony. Culture does not mean music or French, but womanhood. Very few can be rich, a small number educated, but culture is for all. Be determined to know something, even a little, of the best history, the best poetry, the best biography, the best of art, the facts in science, and the best thoughts of the best minute—devote ten minutes each day to reading five or six solid books a year, not mere stories.

The best in style and sentiment is as.

six solid books a year, not mere stories.

The best in style and sentiment is as cheap as the poorest. There is no excuse for reading trash, when the standard works on all subjects are as cheap as the poorest; no more than for walking in the mud when a clean sidewalk is provided. Not expensive but select reading gives culture. Gather a little standard library of your own; you will respect yourself, and others will respect you for it. Keep a scrap book: fill it with the best things. Nothing reveals a girl's line of thought more than her scrap book. Read and think; read a little and think much; read when at leisure, think when at works. leisure, think when at work.

#### A Rocky Mountain Bruin

The accompanying picture shows a huge grizzly bear that was killed by the hunter in the Mountains of British Columbia. They are the biggest game in America, and are not only very force and powerful, but exceedingly hard to kill. The hunter, who can be seen in the picture, is one of the most famous hunters and trappers in the country, and



An immense grizzly bear killed in the Rocky Mountains of British Columbia.

was the only living child of the deceased Mrs. Spitfire. He was born Aug. 12, 1901, and was two years and lifteen days old at the time of his death. His occupation was prize fighting. He was a very good cat, peaceful and quiet in the daytime, but very noisy and fightful an night. His mother died when he was very young. His sisters and brothers, three in number, also died when they were young, thus leaving Nigereta alone in the world. He took up the occupation of prize fighting and was seemingly very happy until Thursday afternoon. It is thought that he was poisoned. So ended the brave and true-hearted prize fighter, Nigereta Spitfire."

#### A Little Talk With Girls

It is sometimes thought if a girl has been educated at a high class school, she must be cultured, but some such girls are the most uncultured of per-sons. One need not be rich or edu-cated, or traveled, in order to be cula dead shot. In the encounter with the big a dead shot. In the encounter with the big fellow in the picture he lost one of a very fine pair of "bear dogs," pure-bred col-lies, which he had imported and trained to hunt the bear. The name of the hun-ter is W. Mansen, a half-bred Indian, who has spent his whole life in pursuit of game in the forests and on the mountains.

#### Some Conundrums

What letter will make a girl wed? R will make Mary marry.

What pronoun belongs to the potato?

Why is a nan carrying a basket of loaves on his head sure to be ill-mannered? Because he is under bread (underbred).

What is the difference between a fault we have barely succeeded in conquer-ing and an immigrant who is landing? One is just overcome and the other is just come over.

# **HEALTH IN THE HOME**

#### Cough Gently

Few people know how to cough pro-Few people know how to cough properly. In fact, it never occurs to the ordinary individual that there is a right way and a wrong way of doing it. Yet it is a matter of no small importance. If every sigh means a drop of blood out of the heart, as people say, every cough means some greater or less proportion of time knocked off one's life. Most people cough as fouldy and forcibly as they can. Some chronic coughers seem a bit proud of the terrible noise they make. But it is a rather costly noise, for the simple reason that it tears and inflames the lungs.

The lungs consist of an extraordinar—

The lungs consist of an extraordinar-The lungs consist of an extraordinarily delicate spongelide issue, which sometimes gets inflamed and choked with phlegm. When we try to get rid of this substance we cough. But obviously, if we remove it violently we must necessarily injure the delicate lung tissue. Therefore train waveful to some the contract of the sarily injure the deficate long insur-Therefore, train yourself to cough as gently as possible. After a little prac-tice you will find it quite easy to do so. In that way you will do a minimum of mischief to the lungs and add years to your life.

#### The Benefit of a Yawn

A good wide, open mouthed yawn is a splendid thing for the whole body. A yawn is nature's demand for rest. Some people think they only yawn because they are sleepy. But this is not so, You yawn because you are tired. You may be sleepy also, but that is not the real cause of your yawning. You are sleepy because you gray in the day of your yawning.

cause of your yawning. You are sleepy because you are tired, and you yawn because you are tired.

Whenever you feel like yawning just yawn. Don't try to suppress it because you think it is impolite to yawn. Put your hand over your mouth if you want to, but let the yawn come. And if you are where you can stretch at the same time that you yawn, just stretch and yawn. This is nature's way of stretchive and relaxing the muscles.

yawn. This is nature's way of stretching and relaxing the muscles.

Don't be afraid to open your mouth wide, and yawn and stretch whenever you feel like it. Indeed, if you are very tired, but do not feel like yawning, there is nothing that will rest you so quickly as to sit on a straight back chair and lifting the feet from the floor, push them our in front of you as far as possible, stretch the arms, put the head-back, open the mouth wide, and make yourself yawn.

Those tense nerves will relax the contracted muscles will stretch and the whole body will be rested. Do this two or three times when you are tired and see what it will do for you.

#### 0 Much Virtue in an Onion

The idea of an onion cure may not strike the fancy of the æsthetic; however, the experience of those who have tried it is that it works wonders in restoring an old-racked system to its normal state again. There are three kinds of doses in the onion cure, or three pains cure, as you may choose to not onion cures, as you may choose to put it. One is a diet of onions; the other is onion plasters, and the third is onion syrup.

syrup.

It is claimed by those who believe in the onion cure that a bad cold can be broken up if the patient will stay indoors and feed on a liberal diet of onions. It need not be an exclusive diet, but a liberal one. For instance, an

onion-cure breakfast includes a poached egg on toast, three tablespoonfuls of fried onion and a cup of coffee. Lunch-eon of sandwiches, made of Boston brown bread, buttered and filled with brown bread, buttered and filed with finely chopped raw onions, seasoned with salt and pepper, makes the second meal on the schedule. For supper, the onions may be fried as for breakfast and eaten with a chop and a baked po-

The strange efficacy of onions is well The strange efficacy of onions is well known to the singers of Italy and Spain, who eat them every day to improve the quality of their voices and keep them smooth. Onion plasters are prescribed to break up hard coughs. They are made of fried onions placed between two pieces of old muslin. The patient is smally to the patient is smally to take your right of the patient is smally to take your right. is snugly in bed, when it is placed on the chest to stay over night. Onion syrup is a dose that can be bought of any druggist and is claimed by some to be unequalled as a cure for a cold in the

All this is probably quite true. For to be done up with onions, both inside and out, would be enough certainly to chase out any self-respecting cold.— Table Talk.

#### The Care of the Hands

The Care of the Hands
A beautiful hand should be long, delicate and narrow. The skin covering it should be very fair or of a uniform pale color, with a slightly plump back, devoid of protuberant veins. The thumb should reach the middle articulation of the index inger, the latter just did finger. The middle finger should be louser than the ring-finger by half the longer than the ring-finger by half the length of a nail, and the little finger should stop at the second articulation of the ring-finger.

Sudden transition from cold to heat

should be avoided for the hands, which should be washed only in tepid water, with a pure soap, not oftener than three washings a day. After washing with soap, rinse the hands thoroughly, al-ways in tepid water, to which has been added a teaspoonful of perfumed gly-

If the skin of the hands is rough, bathing in either bran-water or marsh-mallow-water will soften it and make it matlow-water will soften it and make it supple. Do not use fat substances to attain this same result, for although they are temporarily effective, they end by reddening the skin.

A woman desirous of keeping the beauty of her hands unimpaired should

never go out without gloves.-Woman's Home Companion.

#### Cure for Round Shoulders

A physician has recommended the fol-lowing movements for the cure of all except very "severe cases" of round except very "severe cases" of round shoulders, when braces are also some-times a necessity: I. "Raise arms before you shoulder-high; extend arms side-wise; throw head back; straighten head; move arms forward; lower arms; re-

"2. Stand erect; raise arms before you; rise on tiptoes, then throw arms as far backward as possible; sink again on heels, and drop arms to side; repeat

on heets, and use the times.
"3. Raise arms with elbow bent, shoulder high, bringing palms together in front of face; then, with elbows still bent, swing both arms vigorously back-

ward as far as possible even with the shoulders, palms looking forward. This should be repeated several times, but as the position is somewhat fatiguing, rest or change of exercise may be made be-tween the movements."

the clothing, if too tight or un-As the clothing, it too ugit of un-yielding about or over the shoulders, may help to produce round shoulders, both the under and outside waists should be comfortable, and bands over the shoulders of garments made of

## Run Down

I was completely run down from too close attention to business and financial worry, and my doctor warned me I should be careful of collapse. A two months' course of

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# HF KIT

How to Make Good Soup

Invariably the housewife who has a reputation for fine soups is the one who supervises the food left from each meal, and sees that no bone, unless burned in the broiling, no scrap of meat, not the least bit of gravy and not a teaspoonful of vegetables are wasted, says the Tri-bune. All these she uses in her soup

Fresh meat will need to be purchased Fresh meat will need to be purchased at least once a week for soup stock. For the purpose a piece of the shin of beef, with the bone which contains marrow, a knuckle of veal for additional gelatine and the cold meat and bones which have been saved should alsoak in cold water for half an hour or so, and the same of th shreds, and the knucket is cooked to shreds, and the knuckets fall apart it is time to remove the kettle. Many per-sons season the stock while it is cook-ing, but this practice has its disadvan-tages. In the first place vegetable juices tages. In the first place vegetable juices will cause it to sour much more readily; besides, once it has been seasoned it is impossible to vary it so decidedly. Then impossible to vary it so decidedly. I then too, in the daily scaldings of the stock, which is necessary if the fat is removed from the top, much of the flavor is lost in steam. It is an excellent plan to fill stene crocks, each holding, enough for one days supply to let the cake of one days supply to let the cake of one days supply to let the cake of a reason of the control of the cake o them in the refrigerator. Undisturbed, and in a cool place, the stock will keep

#### 0 To Cook Cod Fish

for two weeks

Pick up the cod fish fine, put in a granite skillet with one or two cups of grante skillet with one or two ups of cold water, according to quantity of fish, and warm gradually on top of the stove, but do not scald; after soaking ten or fifteen minutes, drain off the water and add sweet milk or cream according to the fize of the family; when scalding hot, add flour and milk for thickening, according to taste, with butter, pepper and salt; as soon as thickened by boiling set off; time the cocking so as to set off about three minutes before serving; when ready to serve, stir in a well beaten egg and serve immediately. If the egg scalds in the milk it is spoiled. If it is not scalded, it enriches the milk like cream.

#### 0 Three Ways With Potatoes

Creamed Potatoes.—Cut cold boiled potato into small dice and place in a stew pan with three tablespoonfuls of water to prevent burning-and one-half pint of new milk to one quart of the potato. Heat slowly, stirring often, and when the milk is about half absorbed add a tablespoonful of butter rubbed with a teaspoonful of four. When this has boiled up once, add a beaten egg, cook one minute, season with salt and pepper and serve hot.

Potato Puffs.—Two cupfuls mashed totatoes put into a saucepan. Add to potatoes put into a saucepan. portatoes put thin a saucepan. And to this the yolks of two eggs, three table-spoonfuls of cream, one tablespoonful of butter, salt and pepper to taste. Stir constantly over the fire until the pota-toes are very light and hot.

Take from the fire and stir in carefully the well-beaten whites of the eggs. Put the potatoes carefully into greased

gem-pans and bake in a quick oven until brown.

Saratoga Potatoes.—Peel large potatoes and leave in water over night; in the morning change the water, wipe dry and slice on a cloth; have them per-fectly dry; have a kettle of hot beef suet ready—it should be smoking hot suct ready—it should be smoking hot— take from the fire to the back of the range while putting in the potatoes, stir with a fork so they will not cling together, set over the fire and cook— they should be a golden brown; skim out on a piece of cheese cloth thrown over the colander and drain; sprinkle salt over them.

#### Hints to Housekeepers

Never put the sweepings of the room into the waste-paper basket. When sponge cake becomes dry it is nice to cut in thin slices and toast. A cup of hot water drunk before

To set the black in home-colored woollen goods so it will not smut, soak the goods or wool over night in sweet milk, wring it out and dry, then rinse well through water, and the color will

be as fast as can be.

Peach stains may be removed by putting the article in boiling water before
washing it. When the suds have once
touched them the stains are set and cannot afterwards be removed.

not afterwards be removed.

Do not set apart one day on which to clean your silver or seour your tinware; there is danger of its not being done at all. Have your cleaning material ready, and when you are "doing up" the dishes after each meal clean and polish the silver or tin you have been using. This is a good habit to cultivate.

To test cake in the oven, never insert a broom splinter, but draw it gently forward and out the ear close to the loaf:

ward and put the ear close to the loaf; if it is not done there will be a little sputtering sound. When it is thoroughly baked there will be no sound.

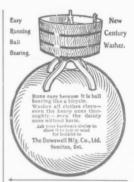
#### 10 A Simple Dessert

A Simple Dessert

One of the best family desserts can be made of apples and stale bread: Peel ten good sized apples, core and slice them, and stew them to a pulp with sugar enough to sweeten them. Meaatime thickly butter the sides and bottom of an oval earthen baking dish, and press all around them crumbs from the inside of a loaf of bread, having them nearly an inch thick; when the of butter and one egg beaten. Protte apple into the dish without disturbing the crumbs. Over the surface put an inch thick layer of crumbs dotted with a few bits of butter, and bake the pudding until the crumbs at the sides are brown. Turn a platter, just large entrown. brown. Turn a platter, just large en-ough to enclose the dish within its rim, over the pudding dish, quickly turn both upside down so that the pudding will slip out on the platter, dust it with powdered sugar, and serve it hot."

Chloride of lime should be scattered at least once a week under sinks and in all those places where sewer gas is liable to lurk.

When the rubber rollers of your wringer become sticky, as they very often do after wringing flannel, rub with kerosene and wipe dry and they will be nice and smooth.



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# IN THE SEWING ROOM

#### Ironing-board Covers

If your ironing-board needs a new cover, cut two pieces of old white blan-ket the size of the top, and allow just enough to come over the edge, but not

If you haven't any old blanket to use for this purpose, place two layers of cotton flannel on the board, and tack it smoothly over each edge. A piece of cotton fiannel, with a double layer of sheet wadding under it, is nice, but you must be particular to have the wadding smooth, and fastened securely in place. From strong muslin, bleached or un-

From strong musin, beached or un-bleached, as you prefer, make two or three covers the size and shape of your board. Hem them all around, and, at distances of four or six inches, sew strong tapes long enough to reach under the board and tie securely. When one cover is soiled, it is easily removed and a clean one adjusted.

a crean one adjusted.

If two such tapes are fastened to the corners of your silence-cloth for your dining-room table, you will find it much more easy to keep the cloth in place and out of sight at the edges.

#### May Manton's Hints INVALID WRAP 4613

Every woman who has ever been ill knows the necessity for a light wrap that can be slipped on over the night gown without effort. This one amply fulfils that requirement and is dainty and attractive at the same time that it is comfortable. In addition to serving this first legitimate use it becomes a most satisfactory simple negligee or lounging jacket. As shown, the material is French flannel, in a Persian delirial is French flannel, in a Persian de-sign with bands of plain Habutai silk in harmonizing color, and is tied with soft ribbons, but any soft wool material is appropriate. The wrap can be made in one piece or seamed at the back as preferred and is cut out beneath the arms, the edges being tied together, after it is thrown over the shoulders, to

#### SEVEN GORED SKIRT 4615

The seven gored skirt that flares free-ly and gracefully at the lower portion retains all its vogue in spite of the many novelties introduced. This one allows of either the inverted plaits or



4611 Girl's Costume, 8 to 14 years.

4613 Invalid Wrap. 32. 36, 40 bust,

habit back and is trimmed with shaped straps that add much to its style. As shown it is made of nut brown hop-sacking, with straps of broadcloth piped with velvet, and is stitched with corti-celli silk, but all materials used for skirts and for entire gowns are suitable.

The skirt is cut in seven gores that are shaped to widen generously below

the knees and to provide the fashionable flare. The back gores are cut for in-verted plaits but can be cut off at indi-cated lines when the habit effect is pre-ferred. The straps are pointed at their ends and are arranged over the gores before the skirt is seamed.

#### GIRL'S SHIRRED COSTUME 4616

Shirred frocks are exceedingly be-Shirred frocks are exceedingly be-coming to little girls as well as in the height of style. This one includes a graceful betha and the wide tucks of the season. The model is made of peach pink cashmere, stitched with corticelli-silk, and with yoke, collars and cuffs of cream lace, but any pretty soft material



22 to 34 waist.

4616 Girl's Shirred Costume, 6 to 12 years.

is appropriate. As illustrated, the waist is all in one and is lined, but it can be made with a separate guimpe when pre-ferred and the lining can be omitted whenever desirable.

The costume consists of waist and skirt. The waist, when made high necked, is faced to form the yoke. When made with the separate guimpe is cut off made with the separate guimpe is cut on at the lower edge of the yoke and fin-ished with the bertha. The sleeves are plain for a short distance below the shoulders, form full puffs below and are finished with narrow cuffs. The skirt is straight, shirred at the upper, tucked at the lower edge.

#### GIRL'S COSTUME 4611

Veiling in all colors is much used for young girls' frocks but is especially charming in the lighter ones. The very pretty costume illustrated shows the ma-terial in one of the new reseda shades, terial in one of the new reseda shades, with machine stitching in corticelli silk of the same color, yoke and straps of taffeta, the latter held by gold buttons showing a tracery of black, and drop ornaments that combine reseda with black and white. The color combination is a peculiarly good one and the world of the still beautiful tones from which the choose.

The costume consists of the waist and the skirt which are joined and closed together at the back. Both fronts and back of the waist are tucked, and are gathered at the lower edge but the tucks of the fronts extend to yoke depth only, while those of the back are full length, and the fronts are joined to a tength, and the fronts are joined to a vest-like portion which consists of a tucked yoke with full portion below. The skirt is cut in five gores, the seams being concealed by the tucks.

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#### "HICKORY"

(Continued from page 67.)

"The captain ought to know and so should the mate. It's what they all

all sing that song again if you don't

"Sing away. I'll be delighted to hear

Hickory, pickory, sailor slippery,
When he scours the deck.
Jim, jam, hither and yon
Shivers his timbers. Splinters his

man.

man.

Till he drops in a hole,
And snaps like a pole,
Then he comes to wreck."

Then he comes to wreck."
"Your song must have been made for
the occasion," said Hickory with a grin.
"It suits my case exactly."
"Does it?" she asked innocently. "I
have not heard the particulars. But do
tell me about your irist name? Everybe something else besides Hickory."
"I'm afraid it's all I've got," was the
answer.

answer.
"Don't you like your dinner? You needn't stop eating because I'm here."
And she sat down on a chair near the window. "I'm only goin to stay another to be a curious. I can't underwindow. "I'm only goin to stay another minute. It is curious, I can't under-stand how papa's sailors all have such ridiculous names. I never heard of any

stand how papa's sailors all have such ridiculous names. I never heard of any of them having more than one, either. Pickles, Splinters, Cranks, Rozin, and the mate Ginger. You've got the best of the lot, if it is only Old Hickory."

"I'm proud of my antiquity," he commented. "Ancient as the hills."

"You look like it," she returned, elevating her eyebrows; and picking up the empty tray, without further greeting. Hickory did not see her again for several days; but he heard her voice often, and more than once in the evening the tones of the piano accompaniment to some ballad she was singing fell upon his ear. There were other voices, too, and many steps of youths and maidens as they came and went. He had abundance of time to reflect during those long days and nights Where was Elsie now? What was she capcet nearly three years to pass the expect nearly three years to pass the expect nearly three years to pass the content of the property of the prop stand the whole five years without see-ing her again? Lately he had often felt impelled to break loose from the felt impelled to break loose from the Condor, no matter what came of it. But, now that the captain had placed him in his own house, and with the fullest confidence was treating him like a son, the idea of leaving the ship before his time could not be entertained for a moment. Yes, he must stay with the Condor and the captain and the mate and Splinters, and brave it could be the solution of the captain and the mate and Splinters, and the splinters are solved to the splinters are solved to the splinters and the splinters are solved to the splinters and the splinters are solved to the splinters are splinters. irrespective of all suspicion and mystery. Perhaps the fact that there was pretty daughter on the scene-although love

daughter on the scene—although love might be out of the question—had some-thing to do with forming his decision. Inadvertently, too, he thought of Roxy. How absolutely ignorant she was of many things pertaining to the ship. He was glad that the capital had silently warned him. He would be con-sitently warned him. He would be con-tiently on his guard, and of what little and the state of the state of the state of the either by Roxy or the ductor or any either by Roxy or the doctor or any-

One else.
One day, with a rap on his door,
Roxy came in with a friend. Her visits

Roxy came in with a friend. Her visits were always unexpected.

"I've brought another sailor to see you," she said. "This is Mr. Theodore Parker. Mr. ah—Hickory."

"How do you do," said the natty young man dressed in the uniform of the U. S. navy.. "Miss Hart tells me!

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that you are one of her father's men,

lying up for repairs."
"Yes, shot in the ankle by a bolt from the blue," Hickory answered dryly.
"I thought you fell," exclaimed Roxy with wondering eyes. "Perhaps I did."

"It wasn't a bolt from the blue, then," said Mr. Parker with a smile.

"It was a thundering one from somewhere. A sharp snap and here I am."
"Very comfortably fixed for a man from the Condor," said the marine su-

perciliously. "They are very kind."
Hickory looked the young man square-

Hickory looked the young man squarely in the eyes.
"Of course. Roxy are always that."
"And so is the captain."
"No doubt, no doubt; but I have not the honor of his acquaintance."
"Roxy," called out the shrill voice

of her aunt.

"Excuse me please for a minute," and in answer to the summons, leaving the visitor with the invalid, Roxy hastened

away.

"How the deuce did your accident happen anyway?" said the subaltern, turning suddenly to Hickory. "I'm not a fellow that peaches, so you need not fear to fall me".

fear to tell me."

"What you do is nothing to me, neither are my affairs your business."
was the blazing answer. Hickory felt like stretching him if he had only the opportunity.

"Touchy, ain't you?"
"I might be if it was not for this confounded leg."

confounded leg."

"I didn't mean anything," said the fellow. He saw that Hickory was angry; and it might be bad policy to quarrel with any one in Roxy's home. "I felt interested, for we are both sailors, you know; and it must be a pesky thing for a fellow to get his leg broke."

"Yes, it is," said Hickory, mollified, but still on his guard.
"You'll be going back as soon as you get well?"

expect to."

"I expect to."
"No doubt it's nice and jolly and all that, barring the accident; but I tell you there's nothing like the service. It's marines or nothing for me."

"That's the way with some men," said Hickory, yawning, "there's only one thing they're fit for.
"Hickory, nickory, tars are slippery," sang Roxy, as she tripped along the hall to the room again, putting an end to their edifying conversation. "I suppose their edifying conversation. you two sailors are excellent friends by

"Of course," said Hickory.
"Certainly," echoed Parker; "but I must be going. Sorry I can't stay longer. Bye-bye old man. If ever your longer. Bye-bye old man. If ever your captain wants to shy you, just let me know, and I'll see if it is not possible to get you a sit in the service."

"How dare you?" cried Roxy, drawing herself up to her full height of five feet three. "There's no danger of

the captain shying him; for he's one of

"Sensible, too," echoed Parker with a laugh. "Takes his smash up at the

a laugh. "Takes his smash up at the right time, close to the right place— I'd be jolly glad if I could do it." And with this parting shot Parker left the room followed by Roxy. Hick-ory thought he'd like to squeeze the fellow, just for the fun of it. What right had he to insinuate about his own motives or his life? What did he know of the Condor or its business; or of the career of the captain, or of any of them? Did he really know anything, or was it all conjecture?

#### CHAPTER XI.

After the first month the doctor allowed Hickory out of his room and on

to the veranda. He was enchanted with the outlook: a flower garden that Chin kept in order; a shrubbery in which Nep, the big Newfoundland dog, made his lair; and mountain ashes planted before Roxy was born, looking down like sentinels over the trees of the orchard.

sentinels over the trees of the orchard. Here he saw more of the women of the family. Miss Hart, with her prim, black curls, often sat beside him, and placidly sewed by the hour. Occasionally she talked, but never of his affairs. direct intention, he did not know; it was certainly a matter of personal relief, for which he was grateful, It was enough to battle with Roxy's questions without any being put by her

aunt.
Miss Roxy Hart chatted enough for all; and now that Theodore Parker had gone to his poot in the naval yard on the Atlantic seaboard, the presence of Hickory made a pleasant break in the monotony of their lives. Roxy also brought him many a book to read, and whether of romance or travel, he persed them with avdity. Hickory was used them with avidity. Hickory was never willingly an idle man, and every passing incident, in that quiet home life, helped the days to speed by. By the time he was able to move about, Chin had made strong oaken crutches for him. They were a trifle heavy, but being naturally a stalwart muscular fel-low, they suited him; and often after-wards, he remembeged thinking that containing the property of the con-taining the property of the con-taining the containing the containing the containing the containing the con-taining the containing the co some time their weight might prove of direct utility. So, with his leg done up in starch bandages, he rather enjoyed swinging along during the latter weeks of his sojourn on shore. After a while the captain visited them again, leaving orders that Hickory was to remain until his limb was thoroughly

"You'll need to be well on your pins this winter, said the captain. "The old boat is getting into bad shape, and it'll take every man of you to fix her by

"I am glad papa said you were to stay," said Roxy, when she returned to the veranda, after kissing the captain good-bye. Hickory was seated there, for the October days were still very

"Thank you. So am I," he replied. His pulse beat rapidly, for Roxy was very earnest. She continued: "It will be just jolly to have you here for ever so long. It ain't a bit nice to

have no man about the place but Chin. And Mr. Parker won't be here again until after pa comes back."

"I'm afraid I shall be a poor substitute for Mr. Parker," was his comment. "You are not a substitute at all," said Roxy, "but just Hickory," "Old Hickory, you mean."

"Yes," said Roxy, a wise look suddenly coming into her face. "You know you want to the place of the have no man about the place but Chin. And Mr. Parker won't be here again

ly coming into her face. "You know very well Hickory is a put-up name; but as you won't tell me anything, I'm going as you won't tell me anything, I'm to call you Old Hickory; and I say 'Mister,' either."
"I am satisfied," he answered.

"And to make sure, I'm going to christen you."

And to suit the action to the word, she put a white astor in his button-hole, then with a laugh, and heightened color, she ran into the house to tell her aunt

what she had done.
"You foolish child," exclaimed Miss
Hart. "You should remember your po-Hart. "You should remember your position." You a young lady—he a simple sailor."

sailor."
"He may be a sailor," Roxy retorted hotly, "but he is not simple. Besidea, be's going away soon; he hasn't any sisters; and I'm going to have a good time with him, while I have the chance."
"How do you know he hasn't any sisters?"

(Continued on page 86.)

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## Fruits, Flowers and Vegetables

Making Higher Standard for

Making Higher Standard for Condian Apples
The fruit season of 1903 has again proven the efficiency and workableness of the Fruit Marks Act. From all sides come evidences of the good work it is doing in raising the standard of Canadian apples in Great Britain. Mr. Frank Hamilton, of the firm of Frank Hamilton & Co., one of the largest receivers of Canadian apples in Liverpool, referring to the working of the Act,

says:
"When the Fruit Marks Act first be-"When the Fruit Marks Act first be-came law, I had my doubts as to whe-ther it could be worked successfully on account of the many conditions sur-rounding the fruit trade, but it has proved a success beyond all question. As it is now, with the marks fixed by As it is now, with the marks fixed by law, when we purchase packages bearing the "No. 1, or "XXX" brand, we are reasonably sure that we are getting an honest and fairly uniform 'pack.' This has had a tendency to inspire great confidence in the Canadian apple trade."

#### Keeping Cabbage in Winter

Contrary to the idea held by many people not large growers, cabbage will keep much better if cut from the stump. This fact we learned many years ago in an accidental way. When trenching in the old way with the stumps on we sometimes broke a head off the stump, and having nothing better to do with it we would put it in the trench with the others. When opening the trench in spring we always found these stumpless heads in better condition than their neighbors with the stumps on. One season we trenched half our crop with season we trenched half our crop with stumps on, and the rest heads only, The latter came through almost perfect, while those with stumps rotted badly from frost following down the stump. Since then we have always cut the heads, leaving the stumps in the field.— J. K. H.

#### Analysis of Kno-Bug

At the Ontario Experimental Union meeting, a report of which appeared in THE FARMING WORLD in Dec. 15th issue,

The Familia Words in Dec. 15th issue, Prof. Harcourt, in reporting on experiments with potato beetle insecticides, conducted at the College, deferred that on Kno-Bug until some further tests were made. He writes as follows:

"Since then I have had another sample, which I know to be perfectly accurate, analyzed. This one contains arsenic equivalent to 2.49 per cent. of several containing and the containing as the containing This, of course, is not allowing in value for the potassium nitrate which it contains or for the gypsum which makes up the greater part of the mixture. The Paris green is, however, the only substance in it which will kill bugs. The potassium nitrate will feed the plant, but will have to go into the soil before it will do that."

#### How the Germans Prepare Sugar Beet Land

Where the beet field is properly pre-pared, and the sub-soil in good condi-tion, the beets grow normally to slender, smooth proportions. But every sugar beet factory in the world, year after year, finds beets being brought in that year, and so beets owing brought in that simply have grown to a lump near the surface. In nine cases out of ten the fault lies with too shallow plowing. The sub-soil is hard as a rock, the beet cannot find nourishment below, hence squats close to

the surface, getting what moisture it can. In extremely hot and dry seasons, such short bulk beets suffer the most, because then they find no nourishment short bilk beets sutter the most, because then they find no nourishment anywhere. As a rule thee short, thick because the nourishment of the short of the several roots exchange to the short of the sho it is based on first principles. If year after year the same soil is merely turn-ed over, loosened and prepared to a depth of 15 to 20 centimeter (5 to 7 inches), it not only leaves a hard sub-soil, which allows the moisture to evaporate, but it is also certain, that the plant food contained in that soil is be-ing consumed, and no amount of fertili-zation will replace the lost plant nour-ishment. But if you plow each season a little deeper, if you use better discre-tion in manipulating the sub-soiler, you gain new life and new vitality for your fields. But the farmer must use good highway to the plow too. It is just as shallow.

bad to plow too deep, as to plow too shallow.

There is not one plow in use at this time that will meet all the requirements of the varying beet fields. Flat and broad plows will make the most complete turning of the soil, while deep going plows will more thoroughly mix the soil and loosen the sub-soil. The plows must be both strong, durable and easy going. For beet culture more but. There is one exception to this after rule. In the field which this season carried winter wheat or similar grain harvest, and you have placed barnyard manure on it, it is good policy to turn over a shallow furrow early in fall. This will cut and turn over the grain roots, allow them to rot, and bring what weed seeds there are in the soil to sprout. The practical farmer will at once see the value of this proceeding. The field is then dragged thoroughly. If fertilizer is now applied and plowed under with then dragged thoroughly. It fertilizes is now applied and plowed under with a deep going plow; the depth being arranged a few centimeters deeper than last year, recollect, then you will have a fine seed bed next spring. If other a fine seed next spring. It office farm work prevents going over your prospective beet field twice this fall, then give it the deep plowing early next spring. You will add a little every year to the soil which is available for plant spring. You will add a little every year to the soil which is available for plant food, and so increase the fertility, output, and value of your farm. Many a farm which in Germany was given up as lost or barren by booky prize beet growers, has been made to blossom like a rose, by some such simple method as here outlined. Deep plowing will give the plants a better hold, offers more plant food, and distributes the moisture more equally and retains it better. A wise distribution of fertilizer will help to give you an ideal field for any sort of crop, but particularly well adapted to raising sugar beets. As to the method of deep plowing, much depends upon the individual choice and opportunity of our farmers.—Rissnag, in Michigan Sugar Beet.

#### Very Much Liked

A subscriber at Baddeck, Cape Breton, writes: "We like your paper very much."



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## Bees and Poultry

#### Feeding Bees in Winter

To gain information as to the best method of providing feed for bees in winter the following experiment was tried with six strong colonies of bees:

tried with six strong colonies of bees:
Four frames of sealed honey were
taken from each of the six colonies,
leaving the cluster on the four remaining frames. The four frames were left
in the centre of the hive with a division board at each side, and some light packing was placed between the divi-sion boards and the sides of the hive. The wooden covers were removed and a large propolis quilt made of heavy canvas placed over the top of each hive. Over the top of the propolis quilt extra packing was placed to keep in the heat, absorb moisture and pre-vent draughts or upward ventilation. The bottom boards were left on as they came from the bee yard, leaving the entrances wide open.

The experiment was as follows: 1. Two colonies received maple sugar of the best quality.

Two colonies received candied

2. Two colonies received canuse honey and sugar.
3. Two colonies received partly filled sections of honey.
Each colony when put to this test weighted 31 pounds, and each was given five pounds of its particular food to start with. The experiment lasted from November 18, 1902, to March 22, 1903.
The two colonies fed on maple sugar consumed 11th pounds each; they were

consumed 11½ pounds each; they were examined every two weeks and water added to the sugar through holes in the tops of the cakes, keeping it soft and

The two colonies fed on partly filled The two colonies fed on partly filled sections of honey consumed during the same time 14½ pounds each. There was for several reasons considerable waste in this test and if partly filled sections could be sold even at a reduced price it would be advisable to do so instead of feeding back.

The two colonies that were given candied honey consumed 10½ pounds each. The candied honey was moisten-

each. The candied honey was moistened at intervals which made it easier for

the bees to suck up.

Candied honey is made as follows:
Take good, thick clover honey and heat Take good, thick clover honey and heat (not boil it) until it becomes very thin, then stir in fine granulated sugar; after stirring in all the sugar the honey will absorb, take it out of the utensil in which it has been mixed and thoroughly kened it with the hands. The kneading makes it more pliable and soft so that it absorb or rather than the summer of the summe more sugar. The kneading operation with the adding of fine sugar should be continued until the dough is so stiff as to be quite hard to work. It should then be allowed to stand for a day or two, and if at the end of that time it is so soft as to run or to be sticky a little more sugar should be kneaded in. It should then be cut into con-venient sized cakes and placed on top of the frames in such a way that the bees can get at it easily.

The colonies in all three tests came The colonies in all three tests came through in excellent condition. Any one of the three methods may be safely followed, but I would strongly recommend examining and weighing all bees the first week in September. At that time every colony should have a good laying queen, and should weigh over 50 pounds. In seasons when there is no fall flow of honey all colonies in on fall flow of honey all colonies in the same of the colonies of the colonie to save several full well-sealed combs, then remove some of the light ones out of the hives and replace them with the heavier full frames. If no honey is available feed sugar syrup. This latter plan is rather a tedious one and great care must be taken not to daub the hives or appliances as robbing at this season of the year is very easily started and very hard to stop.

and very hard to stop.

Sugar syrup may be made as follows. Use the best grade of granulated
sugar, two parts to one of water by
weight. The water should first be
brought to a boil, then the pan or
vessel set back on the stove so that
the boiling will not continue but the
water he kept sufficiently hot to dissolve all the sugar.

The sugar should be poured in slow-and thoroughly stirred until all is issolved. The syrup should then be ly and thoroughly should then u-dissolved. The syrup should then u-fed in a lukewarm condition.—John Fixter, Apiarist, Central Experimental

#### Barred Rock Club

Barred Rock Club
The Barred Plymouth Rock Club
yesterday re-elected officers, and will
put up a new \$25 trophy to take the
place of the one presented by the late
Geo. H. Bertam, M.P., and won three
times in succession by I. K. Millard,
Dundas. The novice class at the show
had been very successful, and they had had a good year.

#### Eggs for Hatching

If you propose hatching chicks early, in order to have broilers in market when prices are high, you should make it a point to hatch from no eggs except such as are known to you to be worth using. It is only a waste of time to attempt to secure good hatches from eggs of all kinds mixed indiscriminately, and as the use of such eggs makes the matter of hatching simply guess work, no system can be practiced. If you buy eggs, pick out all the extra large ones, the small ones, the rough large ones, the small ones, the rough and misshapen ones, keeping only those that are of normal size, perfect shape, smooth and free from all defects, send-ing the others to market. Then buy more eggs, and make another selection, until you have a sufficiency. What is the use of putting eggs in an incu-bator when you will simply have to take them out again when testing them. If more attention were given the mat-ter of selecting the eggs, the incubators would give better results .- Ex

#### Moisture on Walls and Floors

Moisture very frequently collects on Moisture very frequently collects on the walls of poultry houses, especially in winter. If tarred paper is used on the inside of a house it condenses moisture, because it is colder than the surrounding air of the poultry house. The same thing happens to a cement floor. Dirt floors cannot be kept clean except by frequent nenewals of the earth. The floors cannot be for the condenses and the condenses are the floors of the componenses and the floors of the formation of the condenses are the floors of the formation of the condenses are the floors of the formation of the floors of the flo earth. Board moors become saturated with the fluids of the droppings, and also assist in providing harboring places for rats. A cement floor is better than any, except that it is very cold in winter, and causes condensation of moisture. To protect the fowls, such moisture. To protect the fowls, such floors should be covered first with an inch or two of drv dirt, and over the dirt the use of leaves or cut straw may be resorted to. Of course, this means labor, but labor is essential to success in the poultry business. To protect against damp walls, it is better to apply tarred paper on the outside of the house rather than on the inside walls.—P. H. Jacobs.

#### A Train Load of Turkeys

On Dec. 24 there arrived in New York On Dec. 24 there arrived in New York a special train load of turkeys from St. Louis for the Christmas dinner of 32-, ono families. The train consisted of nineteen cars. The turkeys were carefully packed in 2000 boxes and a few hours after arrival were in the hands of the retailers for distribution. The shipment realized 25c. a pound wholesale, totalling about \$100,000 in value.

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#### **OUESTIONS AND ANSWERS**

#### Cut on Horse's Foot

I have a horse with its foot cut with the corking of a shoe. What would be a good remedy?—G. M., Waterloo Co.,

If the wound is very large there If the wound is very large there should be a stitch or two put in it. Make the stitches about three-fourths of an inch apart, and tie each one before taking another. Clip off hair from edge of wound so that none will be doubled under, and bathe it with a solution. doubled under, and battei it with a soit-tion, ½ ounce of carbolic acid in 1 pint of water. If the wound is large, apply a bandage smoothly over it, just tight enough to keep the parts in place. A good remedy for a simple flesh cut is to run some hot tallow into the wound or a mixture of vaseline, sulphur and a little iodoform.

#### Scaling a Log

In reply to question in Dec. 15th issue re rule for scaling a log, I submit the following: A simple rule to ascertain the number of feet (board measure) in a log is to subtract from the diameter of the log in inches, 4 inches (for slabs), one-fourth of this result squared and multiplied by the length in feet, will give the correct amount of lumber made from any log. from any log.

Example:-How many feet of lumber

Example:—How many feet of lumber can be made from a log which is 36 inches in diameter and 10 feet long? From 36 (diameter) subtract 4 (for slabs), leaving 22. Take ½ of 32, or 8, which multiplied by itself equals Albern multiply 64 by 10 (length), which

gives 640, answer.

Example:—How many feet of lumber can be made from a log which is 24 inches in diameter and 12 feet long?

Solution:-From 24 diameter subtract Solution:—From 24 diameter subtract 4 (for slabs), leaving 20. Take ½4 of 20, or 5, which, multiplied by itself, equals 25. Then multiply 25 by 12 (length) which will give 300 feet, ans-

By using this rule (board measure) you can find the number of feet in any

T. CANNING, Kent Co., Ont.

#### 0 Warts on Colt

I have a colt with warts of all sizes

I have a colt with warts of all sizes all over his upper lip and around his nostrils. He is in good condition. Are they contagious?—J. F. K. Warts are not usually contagious. A good and simple remedy is to rub the affected parts thoroughly once a day with castor oil.

#### Blind Staggers

Is there any cure for blind staggers? I have a mare seven years old that is perfectly sound, with the exception of this trouble.—T. A. S.

this trouble—T. A. S. Sometimes when a horse has an overloaded stomach he becomes dizzy and losse control of himself. This may be the trouble with the horse of T. A. S. H 50, don't let her over-eat, and give a good physic once a month. If the trouble is caused by a real affection of the brain it is incurable.

#### Sow That Staggers

I have a sow that has staggers. When she tries to walk she whirls around to the right side all the time. Her appetite is poor. What is the matter with her? is poor. W. -M. F. T.

The sow may have some brain trouble, which might have come from being

struck on the side of the head. than likely, however, the trouble is elsewhere. Pigs with the stomach badly out of order may be affected in this way. Give a good dose of epsom salts, out of other may be a good dose of epsom salts, say 3 or 4 ounces at one dose. After this operates, one-half teaspoontial granulated hypophosphite soda, 20 grains bromide of potash, given three times daily in slop or sweet milk, will do good.

## ABOUT RURAL LAW

3333333333333333333333333 In this column will be answered for any paid-up subscriber, free of charge, questions of law. Make your questions brief and to the point. This column is in charge of a com-petent lawyer, who will, from time to time, publish herein notes on current legal matters publish field notes on current legal com-of interest to farmers. Address your com-munications to "Legal Column," The Farming World, Toronto,

#### Wife Claims Wages

Q .- About twenty years ago a widow Q.—About twenty years ago a widow married a widower, who at that time claimed to be the owner of a farm of 50 acres, and for twenty years after the marriage he was the owner, from any-thing that appeared to the contrary, At the end of the twenty years his wife the end of the twenty years his wife finds that he had, before the marriage, transferred the farm to his son, who now claims it. The husband became insane last year. I. Can the wife claim wages of the son for the work done by her on the place?—W. M.

A.—No; not unless she could prove a contract to pay wages, which, of course, under the above circumstances she

contract to pay wages, which, of course, under the above circumstances, she could hardly do. She might possibly have some other remedy under certain circumstances, as for instance, if the father (the husband) had lived on the farm, as you say, for 20 years to the exclusion of the son, he would acquire a title by possession, and his wife would then be entitled to one-third. If the conveyance to the son was not made till after the marriage, she would be en-

#### D Purchase of a Sow

Purchase of a Sow

Q-If C, buys a sow from D, which
was to be in pig by a certain boar, and
it turns out that the sow actually shipped is not in pig. What remedy has C?

J. C. O.

A—It would depend considerably on
the terms of the purchase and the other
circumstances. If C. never saw the sow,
and D. warramed that it would be with
young. C. would be entitled to a reducference. If C. saw the sow, and the
Court come to the conclusion that C.
was to take his chance on the subject, C. was to take his chance on the subject, C. would have no remedy, but would have

#### Injured on the Street

Q.—The town of H. was engaged in draining certain land. In order to get an outlet it was necessary for them to run their drain, which was a shallow one, across the street. The drain was one, across the street. The drain was plainly visible in daylight A., who was familiar with the locality and knew of the existence of the drain, was passing down the street when, just as he came near the drain, his attention being attracted by something, he turned his head and continued to walle on, he fell into the drain and was injured. He knew there was close at hand a safe passage there was close at hand a safe passage there was close at head as safe passage that the town is liable for damages?—G.L.T. A.—I. No: the injury was largely due, if not entirely so, to A's own care-

lessness. The municipality did its part by furnishing one safe passage way over the trench. A.'s action shows that he was going along very carelessly in a place which he knew to be dangerous. We presume, from the above account We presume, from the above account that the accident happened in the day

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900 BUFF ORPINGTONS for sale, 75 year-ling hons and 7 June cockerels to match at burgains, to make room. My 1933 chicks bred from imported stock are good, prices reason-able, satisfaction guaranteed. J. W. CLARK, Importer and breeder, Onondaga, Ont.

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Aiways mention The Farming World when answering advertisements. It will usually be an advantage to do so.

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All subscriptions are discontinued immediately when the time paid for expires.

## Educational Features at Amherst

Not only were the addresses at the evening meetings of an educational character, but the judging carried on in the auditorium, where 2,000 people could comfortably witness the work, was so explained by the experts in charge, the show from start to finish furnished a liberal education in stock husbandry.

The first evening was devoted to the opening addresses by leading public men. The second evening's programme

was a full one.

W. S. Spark, of Canterbury, England, gave an admirable address, illustrated by stereopticon views. trated by stereopticon views upon the breeding and care of draught horses.

Hon. John Dryden followed, speaking upon the development of Canadian agriculture. It was a public duty to assist

in the development of agriculture.

I. Because it is the greatest industry in Canada, creating more wealth than

2. Because the largest number of our people are interested in it.

3. Because it is the foundation indus-

try, all other industries depending more

less upon it. 4. Because the wealth produced through agriculture is evenly distributed all over the country. He thought that agriculture could best be promoted by organization, education, and co-opera-

organization, education, and co-opera-tion. Already great success had result-ed along these lines. James Mills, President of the Ontario Agricultural College, was the next speaker. He esteemed it an honor to appear before this large Maritime audi-ence. He was glad to know that the agricultural interests of Canadom to one end to the observations of the con-traction of the contraction of the con-traction. one end to the other were progressing and developing. He had a good means of judging, for he met 'about 40,000 farmers every June, and he had no hesitation in saying that our farmers are today more intelligent, more refined, better dressed and altogether more prosperous than thee were five years ago. There was also a greatly increased interest in agriculture among all classes. A few years ago our Canadian women were not interested in agriculture or live stock. In Great Britain the leading ladies of the land were agriculture or live stock. In Great Bri-tain the leading ladies of the land were not ashamed to go among the flocks and herds, in the fields or the stables, and now our own women were recognizing that this subject deserved their attention, as witnessed by the many ladies before him.

In the past, our women had had but ittle opportunity of receiving a practi-cal education for the duties of the home and the farm. The home is the foun-dation of the state, and its mistress, therefore, most important. Good homes therefore, most important, Good homes will turn out boys and girls with a great power for good. From neglected homes they are apt to carry the reverse influence. He then outlined the education in home economics, which the new McDonald Institute, at Guelph, was designed to girl out the great of the great

urged the organization of women's institutes in the Maritime Provinces. These institutes were proving a great power for good in Ontario.

A breezy address from Prof. W. W. Andrews, of Mr. Allison University, upon "The functions of air in agriculture," followed. Only a very small portion of our crops came directly from the soil and the farmer had really to farm soil, and the farmer had really to farm the air as well as the soil. Unless our soil was well filled with air, there could soil was well filled with air, there could not be profitable plant growth. He gave the results of experiments, showing how the artificial introduction of air to soil had increased the growth of crops and based on this a very forceful argument upon the importance of aerating the soil by drainage and cultivation. Summer fallowing, sub-soiling, surface tillage and underdraining were all fact-ors in letting air into the soil and so making possible greater activity of bacterial life. He told of the good re-sults in plant growth from leaving tile drains open at the upper as well as the

W. A. McKinnon, Chief of the Fruit Division, briefly outlined the objects of the Fruit Marks Act and the duties of the fruit inspectors under it. The Fruit Division was also anxious to assist fruit growers in every ious to assist fruit growers in every possible way, and to this end was co-operating with the Provincial authorities in Farmers' Institutes, orchard meetings, spraying demonstrations and judging and packing fruit at the fall fairs. His Division was now auxious to co-operate with local fair boards in arranging a prize list which would develop commercial fruit growing in the varieties best adapted to the district, and the use of proper packages and packing for the export and domestic trade. He was also anxious to enpacking for the export and domestic trade. He was also anxious to en-courage co-operation in orchard mancourage co-operation in orderard man-agement, spraying and marketing and uniformity in planting. He thought it was extremely desirable to make dis-tricts noted for the excellence of one or more varieties of apples and to se-cure the sale of these in large and uniform quantities.

W. S. Spark gave an address on light horses, and stated there was now an almost unlimited demand for weight almost unlimited demand for weight carrying lunters and stylish carriage horses, and, to some extent, control to the state of the state

Sears, of Wolfville, N.S., who judged the fruit exhibit, gave a short address explaining the lessons from the exhibit and pointing out som of the practices essential to successful apple growing.

#### THE VALUE OF PEDIGREES

Hon John Dryden gave a very valuable address upon this subject. He pointed out the desirable qualities of sires and dams for beef raising and dairying and then showed how a record of animals with desirable qualities if they belonged to the ancestry of an animal made that animal of value as a breeder. The worth of a prepotent sire, he said, could scarcely be estimated. He was, of course, more valuable to some men than others, but even to the man breeding grades, excellento the man breeding grades, excellento the pedigree of sire was a necessity. He also very clearly proved that an animal did not have to be imported to be well bred. Mr. Dryden's own experience, reputation and personality made this a most impressive address.

Hon. W. S. Fielding was a visitor on the closing evening of the show and gave a short address in which he stated that, while as Finance Minister, a function of his office was to prevent his colleagues spending too much money, he made an exception in the case of the Minister of Agriculture, and always felt like giving him more money than he asked for agricultural development. MACADAM.

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## FINANCE ON THE FARM

Farm Bookkeeping

What! Keep books? Who ever heard of a farmer keeping a set of books?" remarked Mr. Townman. "What for? It don't cost anything to farm; why, when he needs anything, he just drives when he needs anything, he just drives a bunch of hogs off to market and sells them and buys what he wants and plants the rest. He has no expense or loss—it's all clear profit with Mr. Farmer, Doubtless, a few town people know differently, but I don't think that I exagcenter when we say that many of them gerate when we say that many of them think exactly what I have written above. They are probably right in regard to some farmers, as there are many who do not even keep a day book, depending entirely on memory—and some of them have a wonderful one; in many regards better than the fellow who does keep better than the fellow who does keep one and enters and enters of the proper of the pr it a habit to name everything but the sheep, and many of them are known by name. And it is not a bad habit. If your help knows the names, it is much easier to say go look up Sallie than have to describe a calf that may have strayed away. When they are sold the price paid is placed opposite their names. As I know who their mether that the strayed are sold the price paid is placed opposite their names. As I know who their mether that the strayed are sold to be sol paid is piaced opposite their names. As I know who their mother was, it is an easy matter to find out at the end of the year what each head of stock has been doing to help bear its part of the bur-den. On the first of the year both sides of the question should be added and a of the question should be added and a balance struck. You are then able to say whether the year has been a successful one. Often it will balance the wrong way, but possibly you have put up new fence, bought more hogs or cattle, etc., which will more than bring the balance up next year. If you have not been doing this, you will be surprised to see how little things count up in the grand total, if you will make an item of them day by day. Don't take my word for it, but begin now and start a book; don't omit an expenditure or a receipt, and omit an expenditure or a receipt, and see how ou stand at the end of the year. There are years occasionally that all go to the bad, but they are few and far between, so don't get discouraged if your first experiment shows that you have nothing to the good.—F. M.

BOOKS AND BULLETINS

Minor.

MANUAL OF CORN JUDGING.— Second edition of work on this important subject, by A. D. Shamel. Published by the Orange Judd Company, 52 Lafayette Place, New York.

Sa Latayette Fface, New York.

BARN PLANS AND OUTBUILD-INGS—New, revised and greatly enlarged edition, modernized and brought down to date by Edwin C. Powell. It is a neatly bound book, sey inches, 404 pages, 375 illustrations, and a most valuable contribution to farm architecture. Published by the Orange Judd Company, New York.

THE APPLE IN COLD STORAGE.

THE APPLE IN COLD STORAGE

-Bulletin No. 48. U. S. Department
of Agriculture.

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THE COMMON GOAT.-Circular No. 42. United States Department of Agriculture.

BUREAU OF INDUSTRIES.— Annual report of, for Ontario, for 1902. By Department of Agriculture, Toron-

17-YEAR LOCUSTS.-Bulletin No. 107. State College of Kentucky.

SOME RESULTS IN STEER FEEDING.—Bulletin No. 108. State College of Kentucky.

BEE-KEEPING.-Evidence of John Fixter, Apiarist, Central Experimental Farm, Ottawa.

NINETEENTH ANNUAL RE-PORT.—Bureau of Animal Industry, Department of Agriculture, Washing-

ANALYSIS OF FERTILIZERS.— Bulletin 168. New Jersey Department of Agriculture.

STEER FEEDING.—Bulletin No. 8. Montana Agricultural Experiment

SHEEP FEEDING.—Bulletin No. Agricultural Experiment Station, 47. Agricultura: Bozeman, Montana.

RAISING FRUITS AND VEGE-TABLES.—Evidence of W. T. Ma-coun, Horticultural Central Experi-mental Farm, Ottawa, before Agricultural Committee, 1903.

FOOD AND FOOD ADULTERA-TION.—Report of an address by J. B. Weems, Ph.D., Iowa State College, Ames, Ia., before the Retail Grocers' Association of that State.

FIGHTING THE SAN JOSE SCALE IN 1903. Bulletin 144. Agri-cultural Experiment Station, New FIGHTING THE Haven, Conn.

MODERN DAIRYING,—Report of the Kansas State Board of Agriculture for the quarter ending September 30th, 1003

PRUNING.—Farmers' Bulletin No. 11. U. S. Department of Agriculture, Washington, D. C.

CHERRIES AND CHERRY GROWING IN IOWA.—Bulletin 73. Agricultural Experiment Station, Ames, Iowa.

FARMERS' INSTITUTE REPORT for 1902-03. By the Ontario Depart-ment of Agriculture.

POULTRY AS FOOD.—Farmers' ulletin, No. 182. U. S. Department Bulletin, of Agriculture.

COMMON GOATS.—Circular, No. 42. U. S. Bureau of Animal Industry, Washington, D.C.

DOMINION SHORTHORN HERD BOOK.—Volume XIX, containing pedi-grees of Shorthorn cattle, imported and American bred. Edited by Henry Wade, Toronto.



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perience as rallway oper h MISS M. BROWN, assis

W. H. SHAW. . - Principal

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#### In British Columbia

Mr. J. R. Anderson, Deputy Minister Agriculture for British Columbia, writes: "There is an increased inter-"est here in the live stock shows and "sales in the Northwest Territories, with a consequent increase in the num-ber of animals which have been pur-"chased in the Territories for breeding "purposes. The bulls being bred in conditions similar to our own are better "fitted for range purposes than the On-"tario animals. The development of the "creamery industry has had a most "healthy effect on the demand for bet"ter dairy animals. Dairy cows have "greatly increased in price and are now "bringing from 10 to 20 per cent. more
"than they did a year or two back.
"This has also had the effect of stimu"lating the production of swine, and in
"view of the enormous imports of pack-"ing house products, there seems to be "every reason to believe that the cur-"ing of hams and bacon on a large scale "in this Province would not only prove "remunerative, but would be an incentive "to increased swine production.

"The chief drawbacks to the live stock industry are: The insufficient number of males which are provided by the "small breeders; the class of sires which are allowed to room at will "during the greater part of the year thy small breeders and Indians. Un-"derbred scrubs of the poorest descrip-"tion are very much in evidence; the "overstocking of the ranges; the num"ber of wild horses which infest the 
"ranges; they are not only destructive to a much greater degree to the ranges "than are an equal number of cattle, "but the stallions run off tame mares "which are thus frequently ruined or "lost altogether.

"Among our needs are: The passing "of enactments which would compel "people to provide a sufficient number "people to provide a sumcient number of good males; to compel those who "have scrubs to keep them within "bounds; the erection of cold storage "buildings, so that all animals fit for "beefing should be killed at their prime" and marketed as required; the legaliz-"ing of the destruction of all unbranded "wild horses.

"The stockers most suitable for the "farmers of this Province are well-"grown, young animals, accustomed to "conditions similar to those which they "would have to encounter in this Pro-"vince on the stock ranges.

"The demands are for horses of "medium weight and heavy draught "horses, Clydes, Shires, etc.; cattle of "beef types for the Upper Country and "of milk types for the Islands and "Lower Mainland; swine for the but-"cher, not necessarily of the bacon type, "weighing from 123 to 160 lbs.; sheep "of good mutton breeds, wool being of "no value in this Province."

#### Nova Scotia Farmers' Association

The Annual Convention of the Nova Scotia Farmers' Association will be held at Truro on Tuesday, Wednesday and Thursday, February 2, 3 and 4, at which a large attendance of delegates from Agricultural Societies and County Farm rers' Associations is expected. A cordial invitation is extended to all agriculturists and those interested in rural pursuits, to be present. This promises to turists and noise unrecested in rural pur-suits, to be present. This promises to be the most profitable convention ever held by the Association. Besides gen-eral business, addresses will be given by prominent practical agriculturists, and the alternoom sosions will be held in the alternoom sosions will be held in the alternoom sosions will be held in Provincial Farm, when demonstration lectures, with live animals as objects, will be given. As many as possible should take advantage of these lectures and new system of education by monstration to the eye."

Reduced rates by railway, by asking at starting point for a one-way first-class ticket to Truro, and a standard certificate, which on being signed by the Secretary at the Convention, entitles the bearer to a return ticket free. 0

#### Coming Events

Eastern Ontario Dairymen's Convention, Belleville, January 6-8, 1904.

Western Ontario Dairymen's Convention, St. Thomas, January 12-14,

Eighteenth annual meeting of the Do-ninion Shorthorn Association, Toronto, Jan. 19th, 1904.

Canadian Ayrshire Breeders' Associ-ation annual meeting, Toronto, Feb. 2nd, 1904.

Canadian Clydesdale Horse Associa-tion annual meeting, Toronto, Feb. 4th,

Canadian Shire Horse Association, annual meeting, Toronto, Feb. 3rd., 1004.

Annual meeting Canadian Horse Association, Toronto, Feb. Breeders' 4th, 1904.

Holstein-Friesian Association of Canada annual meeting, at the Palmer House, Toronto, on Feb. 2nd, 1904, G. W. Clemons, St. George, Ont., Secretary.

Combination sale of pure-bred stock, Amherst, N.S., on Feb. 5th.

Canadian Spring Stallion Show, Toronto, March 2-4, 1904.
Eastern Ontario Winter Poultry
Show, Ottawa, March 7-11, 1904. Central Canada Spring Horse Show, Ottawa, March 7-11, 1904.

#### 0 Students Judging at Chicago

The results of the students' judging contest at Chicago have been announced. Iowa College won the coveted Spoor trophy for the third time and every first prize. The Iowa students were 300 points ahead of the Ohio students, who stood second. Of the special \$500 prizes for individual students, Iowa won \$200; Ohio, \$105; Kansas, \$75; Minnesota, \$75; and farmers' sons, \$45.

#### Quebec's Brand of English

A FRENCH-CANADIAN LETTER ABOUT A MISSING BICYCLE SADDLE

. The following letter, with only the names changed, was lately received by a Montreal firm of bieyele manufacturers. It was from one of their French-Canadian customers doing business in a little village in the Province of Quebec wiver English is evidently seldom used: when the control of the province of the control of

Notre Dame Street, Montreal, P.Q.

"Dear Sir: I receed de bicykel witch
i by from you alrite but for why you
dont send me no saddel, wat is de use
of de bicykel when she dont have no
saddel, i am loose to me my kustomer
sure ting by no having de saddel and
dats not very pleasure for me, wat is
de matter wit you mister jones and compance; is not my moreur per second. use matter wit you mister jones and companee; is not my moneys not so good like annoder manes. you loose to me my trade and i am very angree for dat and now i tells to you dat you am a fools an no good mister jones and companee. I send to you back at wunce your bickel to morro for shure bekawse you are such a foolish. ness peoples, yours respackfulee "J. B. St. Denis"

"P.S.—Since i wite dis letter i find de saddel in de box. excuse to me."

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"Vertinary layerience," PIEEE Market, Our Bopage look,
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Area and all bilatter, by offer only temporary relief, if any,
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Send for our 98-page Little Giant, up-to-date book on the principal diseases of the horse, causes, symptoms and treatment, with testi-monials and directions for CURINE. By mail free.

## PURE-BRED STOCK

#### NOTES AND NEWS FROM THE BREEDERS

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

#### Clydesdales for Canada

The Scottish Farmer, of Dec. 19th last has the following regarding some recent shipments of Clydesdales to Can-

"Messrs. Smith & Richardson, Colum-is, Ont., made their second shipment bus, Ont., made their second supplied of Clydesdales for the season ten days ago from Liverpool. Mr. Fred. Richardson was himself over, and made the selections. He purchased five stallions from Mr. Peter Crawford, Dargavel, Dumfries, and an equal number from Messrs. A. & W. Montgomery, Nether-hall and Banks, Kirkcudbright. Among the horses purchased and shipped by them was Michaboe (11434), the big thick son of the champion Hiawatha, which stood reserve for the Glasgow premium when a three-year-old, and premium when a three-year-old, and again last February occupied the same position. He grew into a great horse, and his weight, thickness, and good breeding will make him a formidable competitor at the Toronto spring show. He was bred by Mr. James Fleming, Bent, Strathaven, and is descended from rather a famous tribe of Clydesdales. Other horses bought from Mr. Crawford. Other horses bought from Mr. Crawford were got by the famous £1,000 horse Montrave Mac (9058), which ranks so high among breeding horses, and has an unequalled pedigree, being got by McGregor out of the celebrated champion mare Montrave Maud; and Prince of Johnstone, one of the biggest and weightiest sons of Prince of Carruchan (81st). Of the horses bought from the Messrs, Montgomery one was a full brother to the selebrated rise mare Other horses bought from Mr. Crawford the Messrs. Montgomery one was a tull brother to the celebrated prize mare White Heather, owned by Mr. St. Clair Cunningham. This is a fine thick, broad-boned horse, of true Clydesdale type and character. He had one of the Kirkcudbright premiums during the past Kirkcudorigit premiums during the past season. Another was got by the Lanark premium horse Coroner, a prize winner at the H. and A. S. Show as well. Two were well-bred, thick horses, bred by the Duke of Buccleuch, at Holestane, Thornhill. Altogether this lot of horses is likely to sustain the reputation of the firm of Smith & Richardson, and horses is likely to sustain the reputation of the firm of Smith & Klehardson, and to command a speedy sale in Canada. Mr. J. Graham, Carberry, Ont., slipped four horses purchased by Mr. Graham, Bridgelands, Selkrik, from Mr. Matthew Marshall, Strannacr. These were big, well-bred horses, one of them being got by the famous Prince Robert(7135), the sire of the champion Hiawatha. Messrs. Campbell Bros., Alvinston, Ont., slipped one colt and two filies, the former purchased from Mr. Adam Ellis, Milnathort; the filies respectively from Mr. R. Miller, Torbhlaren, and Mr. Peter Mexen, Hall of Aberuthwen, Mr. Peter Crawford sold to Mr. T. Irving, Winchester, Omt., the big horse Lambton Holyrood (11085), which he shipped from Liverpoot his week. This horse was bred by the Earl of Durtham, and got by the famous champion horse Holyrood (9540), out of a mare by the noted Darnley borse Gartsherrie (2800), which bred so well in Cumberland."

#### Horses Sell Well

Graham Bros, Claremont, write: "Our fall trade has been better than ever before. The important sales of Clydesdales made by us at and since the Toronto Industrial Exhibition are as follows: To Thos. Andrews, Cambridge, Neb., U.S.A., the grand big z-year-old stallion Brave Wauchope, 10941, and the imported yearling filly Gipsy Jane (4793). To Cook and Mattinson, South Charleson, Ohio, U.S.A., the two-year-old stallion Macqueen Style (11273); two-year-old filly Handsome Princess (112771), and the yearling fillies lady two-year-old filly Handsome Princess (112771), and the yearling fillies lady and good breeding, several being sired by Old Champion Macqueen H. J. Petrie, of Artica, N. Y., purchased two good individuals in the z-year-old stallion Baron's Crown (3977), and the z-year-old mare Miss Malcolm (3941). To Jas. McMillan, Brandon, Man, the champion z-year-old stallion Classerton (3853) (11746), and the z-year-old stallion Glasserton (3853) (11746), and the z-year-old stallion Glasserton (3853) (11746), and the z-year-old stallion Glasserton (1985) (11766), and the z-year-old stallion Glasserton (3853) (11746), and the z-year-old stallion Glasserton (1985) (11766), and the z-year-old stallion Glasserton (2851) (11766), and the z-year-old stallion Glasserton (1985) (11766), and the z-year-old stallion Glasserton (2851) (11767), and the z-year-old stallion Glasserton (1985), and the z-year-old stallion Glasserton (1985), and the z-year-old stallion Glasserton (1987), and the z-year-old stallion (2851), and the z

#### The Holstein Breeders

At the 21st annual meeting of the Holstein-Friesian Association of Ganada, to be held at the Palimer House, Toronto, on Feb. 2, Mr. H. Bollert Cassels, will move an amendment to Art. 6, Sec. 4, of the Constitution, and to Rule V of the record of merit. All Holstein breeders should arrange to be present at that meeting.

According to Thornton's circular of Shorthorn transactions there were exported from the United Kingdom, for the three months ending September 30th, 1903, the following: To Africa, 29; to the United States, 8; to South America, 296; to Australia, 2; to Canada, 16; to France, 2; to Germany, 4; to Japan, 4; to Russia, 44

#### The Farming World Man on the Wing

Inseparably connected with the live stock interests of Ontario is the well-known name of Gardhouse. Long years ago the senior Mr. Gardhouse, now living in Toronto, was recognized as one of the most enterprising in the business,

## Horse Owners

Look to your interests and use the safest, speediest and most positive core for ailments of your horses, for which an ex-

#### GOMBAULT'S CAUSTIC BALSAM



#### SUPERSEDES ALL CAUTERY OR FIRING.

Impossible to produce any scar or blemisle safest best bilister ever used. Takes there of all liniments for mild or severe actions.

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Every hottle of Cauatic Balanm soid is

Warranted to give satisfaction. Price \$1.50

Particle Sold by druggists, or sent by experience, sharpes paid, with full directions for its

and the satisfaction of the satisf

THE LAWRENCE-WILLIAMS COMPANY, Cleveland, Obto 21 FRONT ST. WEST, TOROSTO



NO MORE COLD FEET NO MORE RHEUMATISM Our Electric Insoles keep the feet warm and cure rheumatism, neuralgia and nervousness. They keep a perfect circulation all the time. Nothing like them. Fries per pair, 36c. 2 prs. 60c.; 3 prs. 85c.

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## A GOOD

For 80 cents a gallon can be made as follows:—

Absorbine, 4 ounces vinegar, 1 quart water, 3 quarts (Saltpetre (powdered) 1 ounce

water, 3 quarts Salipetre (powdered) 1 ounce 1 ounce at his combination will prove as this combination will prove at his combination will prove a collar Galla, to toughen the shoulders for work horses; will reduce Swollen Ankles, Bad Tendons, and all kinds of liminent would be generally us

alls, to toughen the for work horses; Swollen Ankles, dons, and all kinds of troubles when would be generally used. Buy the

at the store, or send to she manufacturer, W. F. YOUNG, P. D. F., SPRINGFILD, MASS, Lyman Sons & Co., Montreal, Agents who will send it prepaid upon receipt of \$2.00 for the galons of limitent or walk, K. will make three galons of limitent or walk, K. will make three galons of limitent or walk, K. will make three galons of limitent or walk, K. will make giving formulas of Veteriany Hemedics.





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

## GRAHAM BROS.,

CLAREMONT, ONT.

Canada's leading Horse Importers

### Clydesdales and Backneys Stallions and Mares.

Farm one mile from station on C.P.R.

Write for Catalogue.

#### Bawden & McDonnell EXETER, ONT.

Importers of

## Clydesdale, Shire and Hackney Horses

Bright Star 4 yrs., Vol. XXVI, sire Good Gift 1608, dam Lighthoome Lase, by Lightsome Lase, by Lightsome Lase, by Lightsome Hamilton 1922. Buller (Hackney), imp. by the famous Honfire Sel dam Famy by Norfolk Weell 345, 281 dam Famy by Norfolk Weell 345, 281 dam Famy by Norfolk Weell 345, 281 dam Janu 1922.

EXETER P. O., Ont., and Sta. G. T. R.

## CLYDESDALE

Stallions and Fillies. Also several choice Shorthorn bulls and heifers, for sale by . I. DEVITT & SONS,

FREEMAN P.O. BURLINGTON JCT. STA. G.T.R.

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

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

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

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Breeder of Scotch-topped Shorthorns. Herd contains the fashionable strains such as Minas, Urys, Clippers, of straight Scotch breeding, and the best kind. Both sexes for sale. Corres-pondence invited. Visitors welcome.

NEIL DOW, Tara Sta., G.T.R., P.O. and Tel.

#### Choice Scotch-Topped Young Stock.

A number of young Bulls of grand quality and noice breeding, along good beef and dairy lines. JAS, FLEMING,

and stood ready to outbid all comers, when the right kind of goods was put up. His herds enrolled the names of many now well-known imported animals, and in the stable, the well-known mare Columbine, for which he paid \$6,000, had more than one worthy stable mate. The business of importing, So,000, had more than one worthy stanle mate. The business of importing, breeding and selling them is now carried on by at least two of his sons, J. M., at the old home, and J. Gardhouse, near by, and it may well be said that it was the Gardhouses that made Weston fearchest.

I. M. Gardhouse of the Rosedale Stock Canada's exponents of the Shire draught Canada's exponents of the Shire draught horse, but there is nothing narrow-gauge about him, and he is a liberal patron of the Clyde as well. Shorthorn cattle and Leicester sheep also come in for their share of consideration at the Rosedale Farm as well. Among his Shire stallions is Sand Boy, recently purchased from Mesers. Bawden and great size with quality, a nice, well-filled, stylish top, he is deep and well let down, covers a lot of ground and stands on the right kind of underpinning. Norley Baronet is a two-year-old with

Norley Baronet is a two-year-old with a wealth of body, bone and muscle, re-markable even in a Shire. He has a broad, strong back, well coupled and markable even in a Shire. He has a broad, strong back, well coupled and close broad heavy quarters and deep, thick middle, and a lusty vigorous appearance that commends him to the skilled horseman. He is by Hendre skilled horseman. He is by Hendre skilled horseman. He is by Hendre shilled horseman. He is by Hendre shilled horseman he had been shilled horseman he had been shilled horseman he had been shilled he had been shill he had been shill had been lion Royal Kerr, 1196, imported over a year ago. He is now in good condition and looking well, a horse of good bal-ance and finish, good both in propor-tion and size. He is a get of Royal Champion, and traces back through Lord Lothian, and Topgallant, to Darnley, 222. On his dam's side he is a grandson of Prince Alexander, by Prince of Wales. If good breeding, good feet and limbs, good action and good conformation make a good horse, the Royal Kerr is a good one

Kerr is a good one.

Among the cattle at the Rosedale
Farm is to be seen the same quality obtained and maintained at the same cost
of money, breeding and care. The herd,
many of them imported, some bred at
home, are strikingly uniform in their
conformation and good quality. At the
head of the herd is a solid, deep-fleshed,
blocky bull, of the smooth, even kind,
red in color, a son of Bapton Chief and
Blythsome foth, a cow recently sold for
\$\$950.00. A detailed mention of each
member of this large herd would prove member of this large herd would prove

#### WILLOW BANK STOCK FARM

Shorthorns and Leicesters HERD ESTABLISHED 1855

Scotch Booth and Bates families to select from grand milking qualities being a special feature. See Section 1997 of the Section 1997 of the heads the herd. Young stock of both sexes to offer; also Lelcester sheep. JAMES DOUGLAS, Caledonia, Ont.

#### IMPORTED

## Clydesdales and Shorthorns

MESSRS. SMITH & RICHARDSON Columbus, Ont.

-Importers of Clydesdale Horses and Shorthorn Cattle

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

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#### **GLENVIEW STOCK FARM** CLYDESDALES and HACKNEYS

All Imported Stock

A consignment of first-class Clydesdales and Hackineys just arrived from Scotland. Such horses as Banner of Gold, 29, 11506 are Prince of Barnestane (877) dam, Jeanne (1850 b) Prince Montarve, Lawrence (1820) his Prince of Abion (8178) sold for 62,000, dam Laurs Lee (1987) by Darriey (222). Others from equally celebrated dams. In-tending purchasers call on or write to

#### W. COLQUHOUN Mitchell P.O. and Sta. G.T.R.

FOR SALE. Six Imported Clydesdale Fillies,

2-year-olds, sired by the prizewinning stallions, Ascott Corner, Handsome Prince, William the Conqueror, etc. All have been bred to stallions. For further particulars address: om PATTERSON BROS., Millbrook, Or Millbrook on G. T. R. Cavanville, C. P. R. Millbrook, Ont.

#### GLENAVON STOCK FARM W. B. Roberts, Prop.

Pure-bred Cattle and Berkshire Swine. Young Stock of both sexes for sale. Write or call. Sparta P.O. Station, St. Thomas, C.P.R., G.T.R., M.C.R.

§ HIRE and CLYDESDALE HORSES, Scotch Shorthorn Cattle and Leicester Sheep for sale at all times. Write to or call on J. M. GARDHOUSE, Weston Station and P.O, Telephone at house and farm.

KILMARNOCK STOCK FARM

n such herd buils as hen Machree, Royal Tim, Aberdonia other sires of choice Scotch breeding. Young animals a sexes for sale. Write or call on W. HAY, Tara F. O., as lon G. T. F.

## Good Resolutions are Good Pavements.

You've heard of the place with the fire-proof flooring made of good resolutions, but let us tell you that the House of Fortune is so paved also. There have been men who have resolved to use

## CARNEFA

They have used for the fattening of cattle, hogs, etc., and have made and are making money by using it. Thus writes one of them:

Por some time I have been feeding your excellent preparation "Carnefae Stock Food" to my horse, "attle and sheep. After giving it a fair trial I am pleased to be able to state that it purifies the blood, give a incality tone to the system, and is expecially effective when fed to young stock. I have no hesitation in heartily recommending it to anyone wishing to increase the quality and productivenes or their stock. Yours ruly, J. M. GARDHOUSE, Hosedale Stock Part (Sgd.)

Breeder and Importer of Clyde and Shire Horses, Scotch Shorthorns and Leicester Sheep

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PURE SCOTCH-TOPPED SHORTHORNS A number of fine young bulls and heifers for sale. Herd bull Aberdonian. Such strains as Roan Duchess, Barmpton's Hero, Vric and others. Call on or write to

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COLEMAN, P.O., - ONT.

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

JERSEYS, GUERNSEYS and AYRSHIRES

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

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

## Langdon SHROPSHIRES

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

We have this year imported more Ewes from leading English breeders.

Now for sale: 8 Ram Lambs by Mansel prize winners out of Imported Ewes. -Apply-

E. LANGDON WILKS Blair. Ontario

#### Brookside Avrshires

Cows from this herd won 1st, 3rd and 5th in Dalry Test at Ontario Whiter Fair, Dec., 1902, and 1st and Sweepstakes over all breeds, Dec., 1903. Royal Star of St. Annes, ~7986-, at head of the herd. Will have a few calves to spare after January Ist.

H. & J. McKEE.

#### "Brookside," Norwich, Oxford Co., Ont. POULTRY WANTED

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

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## RIVERSIDE HOLSTEINS

Twelve months bull calf, dam winner at Pan-American Model Dairy 6 mos. test. Other young bulls and heifers from advanced registry MATT. RICHARDSON & SON, Caledonia G.T.R., Sta. and P.O., Haldimand Co.

#### AYRSHIRES

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

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

.. Woodroffe Dairy Stock Farm ..

SEND FOR CATALOGUE OF STOCK.
September Yorkshires ready for shipment. J. S. C. ARK. Proprietor, OTTAWA, ONT.

#### Pleasant Valley Stock Farm CANADIAN AND IMPORTED SHORTHORN CATTLE

Ben Lemond (imp.), a grand individual of the famous Killibiean Beauty family heads the herd. A few choice young bulls, one imported in dam, also a number of imported and home bred cows and hefers, all arcs, for asle. Write or visit the farm, one half nile from Moffat Sta., c.P.R. GEO. AMOS, Prop., Moffat Sta. and P.O., Ont.

Tather lengthy, but a cursory glance at a few will prove of interest. Fairview Strathallan is a splendid young roan cow, square and well-backed, of great depth and symmetry. Her quality is without exception, and she has at her foot a bull calf nearly six months' old, a sturdy, vigorous fellow, by Republican, that promises to attract notice some day. Adelia is a right good one, now. She is a by Reformer, and her dam was bred to Prince Gloster, a Toronto winner, and her calf, a bull, now 6 mos. old, is a calf of the kind to interest any breeder. Low down and strong, showing quality in his head and shoulders, and the calf, a bull, now 6 mos. old, is a calf of the kind to interest any breeder. Low down and strong, showing quality in his head and shoulders, showing quality in his head and shoulders, the should be compared to be should over, he seems the right kind to bequeath his own inheritance of beef and vigor. Missie Dummore, is a good big roomy cow, by Primrose Duke, and her dam was Lady Clonmore. Her heifer calf, by Monitor, a square, straight, and even animal and the straight of the seems and even animal quality, a fine thrifty calf, and around it are to be seen a whole lot more, as good, or almost as good, from equally well-bred dams, that it would take too good, or almost as good, from equally well-bred dams, that it would take too well-bred dams, that it would take too much space and time to mention. Suf-fice it to say, that the farms are few where high-grade live stock receive the same skilful attention and care, and that while all others may advance and are advancing, the Rosedale Stock Farm is losing nothing of its old time prestige in the live stock world.

Therew of Hussall Out, is right in

is losing nothing of its old time prestige in the live stock world.

T. Berry, of Hensall, Ont., is right in line with the rest of the horsemen of Ontario, in having in his stables a few good ones to show the visitor, both in the Shires and the Clydes. Amply upholding the prestige of the breed he represents, the good horse Prior's Hero will easily outscale the others, weighing in ordinary condition easily 2,100 lbs. He is a bay in color, with a heavy body, a good top very well coupled, and long deep rib, very thick powerful stifles and good limbs. Another good Shire stallion is Natly Royal, a get of Harbling Harold, and his dam was Thornby Let, by Thornby Tom. A horse of good conformation and nice clean style, he has every appearance of being a successful sire of colts with substance and quality. Florizel is a horse not to be cessful sire of coils with substance and quality. Florizel is a horse not to be placed second to any of them, a fine five-year-old by Prince of Carrughan, and a grandson of the Prince of Wales, and a grandson of the Frince of Wales, he is of the smoothest conformation all over and will weigh about an even ton of smooth, even, well-finished horse-flesh, as one often sees, deep, thick and strong, and set on the best of legs and strong, and set on the best of legs and feet, he is a jet black with a fine glossy hide, and white markings. Lord Wolseley is another black fellow by Castle-reagh, an aged stallion of great scale and good shape. Two other good ones are Dunraggit XXV. a get of the good horse Ornament, who was imported some time ago by Wm. Columban, Michell, Cumbrian, 11164. a good smooth strong and sold, to cross the line, and Royal Cumbrian, 11163, a good smooth strong fellow, and a pedigree showing him to be perhaps the best bred fellow in the lot. Waverly, by Gallant Prince, dam Jean, by Londonderry, is a horse with lots of bone and action, good conforma-tion and appearance for his age.

tion and appearance for his age.

The World Man on the Wing had an opportunity recently of visiting the plant recently erected by the Ontario Live Stock Company, at Unionville, Ont. A short walk from Unionville station, on the G.T.R., some thirty miles out of Toronto, the plant, for such would seem to be the appropriate title of this wholesale pig factory, is situated. A rather imposing-tooking building, with low the frame superstructure is erected, so the frame superstructure is erected, 450 feet in length, and 52 feet wide, with an elevator, steam engine and boiler for storing, grinding and cooking the grain



#### USED FOURTEEN YEARS WITH GOOD RESULTS.

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It is an absoutely reliable remedy for Spavins, plints, Curbs, Hingbones, etc. Removes the uncle and leaves no sear. Price #1; #10 of \$2.00 or drughts for family use \$1.00 or drughts for KNDALL'S \$1.00 or drughts for KNDALL'S \$1.00 or drughts for the mency, the book free, or \$1.00 or drughts for the mency, the book free, or \$1.00 or drughts for the mency, the book free, or \$1.00 or drughts for the mency, the book free, or \$1.00 or drughts for the mency, the book free, or \$1.00 or drughts for the mency the book free, or \$1.00 or drughts for the mency the book free, or \$1.00 or drughts for the mency free book free, or \$1.00 or drughts for the mency free book free.

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a watch already to write for the Pictures at once. As THE COLONIAL ART CO., Bept. 367 Toro Send for particulars of our Perfection Truss. It holds as if you had your "fingers there." DORENWEND TRUSS CO.,

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IMPROVED VORKSHIRE SWINE Of good breeding and feeding quality, and the right bacon type. From superior imported

IRA JOHNSON
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PURE BRED STOCK

I have for sale 3 Ayrshire Bull Calves Bred Avrshire Heifer Calves from 2 to 10 months old, Heifers coming one year 1 Shorthorn Bull two years old, choice Yorkshire Boar one year old, Yorkshire Sows and Boars from four weeks to six months animals are all in good breeding condition. Buyers will be interested in this

## JOHN H. DOUGLAS.

Warkworth, Ont.

#### SHANNON BANKS STOCK FARM W. H. TRAN, Proprietor

Breeder of AYRSHIRE CATTLE and YORKSHIRE SWINE

Choice young animals of both breeds and sexes for sale. Cedar Grove P.O., Ont. Locust Hill Sta., C.P.R., 1 mfle. Markham Sta., G.T.R., 4) mfles.

building, for such and no less is the in-tention of Mr. Hiram Powers, the manager, whose ideas, like a good many of our own, are up-to-date and modern, but unlike a good many of them, are being put into active practice. To breed from the best pure-bred sows and hogs, the best and most approved type of bacon porker, to feed and finish in the most approved manner possible, and place on the market in wholesale numbers the product of their skill, bred, raised and finished, in fact, manufactured, is the intention and purpose of the Ontario Live Stock Co., Limited. The plant is laid out and furnished in an ideal manner for the business. Large roomy pens, with concrete floor and walls, under-drained, and with pipes for flushing either with cold or scalding water, well warmed, clean and well ventilated, lots and with elevated sleeping light. of light, and with elevated sleeping places, will take a little more off the life of the finished hog, already less than half the span of a few years back, and make it seem shorter still by its comparative comfort. The plant has an estimated capacity of about 5,000 hogs per year. Along the passage, running lengthwise through the building, are steel rails on which trucks run to carry feed to the pens, of which there are four rows. A pair of scales have been also fitted to run the track, and a con-venient arrangement of the doors make possible to drive the pigs out to be weighed and then driven back with-out any of the trouble that usually acrecords will be kept of how each pen or group of animals are fed and the re-turns made, and the results of such a course cannot fail to be of the highest value to all concerned in the pig business. At the present time there are several breeds of pigs in the pens, the Yorks, the Tamworths and the Berkshires being kept, a number of highclass boars and sows of each breed having been purchased from well-known breeders of each, and it is the intention the management as soon as possible to breed all their own stock, or at least as many as possible. There is no doubt that a little more system in feeding hogs, giving due regard to age, breed and constitution, will produce beneficial re-sults in the feeding of hogs, and before long a few much needed practical sons may be learned from the Ontario Live Stock Company.

American Leicester Association

The annual meeting of the American Leicester Breeders' Association was held at Guelph during the Winter Fair. President A. W. Smith, in his opening address, called attention to the value of Leicesters as a cross with other breeds to produce a high grade of mutton. As an evidence of this, Mr. Smith pointed out that the grand championship for dressed mutton carcases at the Chicago International, both in 1902 and 1903, went to a cross of a Hampshire ram on a Leicester ewe.

Secretary-treasurer, Secretary-treasurer, A. J. Temple, Cameron, Ill., presented his annual statement, which showed total receipts \$967.48, and a balance on hand

\$377-33-Mr. \$327,33.

Mr. James Snell reported favorably upon his trip to the ranges of the Western States in the interest of a market for Leicester sheep. Several parties who bought from him in 1902 were well pleased with the results. In 1903 he took out two carloads, which were disposed of to the ranchers to the best posposed of to the ranchers to the best pos-sible advantage. Only the very best rams should be sent. If this is done a permanent trade can be worked up. Grants of \$25 each to the Toronto Industrial, Chicago International, and the winter fairs at Guelph and Am-

herst, was made, to be divided into herst, was made, to be divided into a first prize of \$12, second prize of \$8, and third prize of \$5, at each show. Competition open to all. The matter of a grant to the World's Fair at \$t. Louis was left with the Executive Committee. Upon amendment it was decided that the grants to Guelph and Amherst be restricted to those who have never won the Association's specials.

OFFICERS FOR 1904.
President, A.W. Smith, Maple Lodge,
Ont.; Vice-President, J. M. Gardhouse,

President, A.W. Smith, Maple Lodge, Ont.; Vice-President, J. M. Gardhouse, Weston, Ont.; Secretary-Treasurer, A. J. Temple, Cameron, III. Directors—Wm. S. Dunnett, Clanbrassil, Ont.; James Snell, Clinton, Ont.; John Kelly, Shakespeare, Ont.; J. W. Murphy, Cass City, Mich. J. W. Marphy, Cass City, Mich. W. A. Goy, Werer, Penni, D. C. Graham, Galesburg, Ill.; M. H. Parlee, Sussex, N.B.; A. Whitelaw, Guelph, Ont.; S. P. Goudey, Yarmouth, N.S.; A. D. Gamley, Brandon, Man.; W. H. Marrin, Warden, Quebec.; R. R. Cameron, Cariston, W. H. Marrin, Warden, Quebec.; R. R. Cameron, Cariston, W. H. Marrin, Warden, Quebec.; R. R. Cameron, Cariston, W. H. Marrin, Warden, Quebec.; R. R. Cameron, Cariston, W. H. Marrin, Warden, Quebec.; R. R. Cameron, Cariston, W. H. Marrin, Warden, Quebec.; R. R. Cameron, Cariston, W. H. Marrin, W. H. Marrin, W. H. Marrin, W. H. Marrin, Saxonville, Mass. The next annual meeting will be at the Winter Fair, Guelph, in 1904. After the annual meeting the directors met and made the following classifications for Toronto and Chicago shows

tors met and made the following classifications for Toronto and Chicago shows for 1904: One ram, any age; I ewe, 2 years and under 3; I ewe, 1 year and under 2; I ewe lamb. Ont., and Amherst, N. S., Winter Fairs—3 ewe lambs, to be bred and owned by exhibit all the animals shall be registered in and bear the ear. tags of the American Leicester Breeders'

The following were recommended the management of the St. Louis Exposition as judges in the Leicester classes: Prof. G. E. Day, J. H. Grisdale, James Snell, J. M. Gardhouse and John Marshall.

#### Ontario Veterinary Association

The annual meeting of this Associa-tion was held at the Ontario Veterinary College, Toronto, on Dec. 23rd. Among those present were Dr. Rutherford, College, Toronto, on Dec. 23rd. Among those present were Dr. Rutherford, Ottawa, and Dr. Reid, of the O.A.C., Guelph. The former in his address, advised the forming of county veterinary associations and a committee on organization was appointed. The officers for 1904 are:

1904 are:
President, Dr. W. Lawson, Dundas;
First Vice-President, Dr. George, Ingersoll; Second Vice-President, Dr.
Wilson, Aurora; Secretary-Treasurer,
Dr. C. Heath, Sweetapple; Toronto
delegates to Western Fair, Drs. O'Neil
and Tancock, London; delegates to
Dominion Exposition, Colonel Lloyd
and Prof. Smith; Directors, Drs. GallaHattan Vellam, Herand Taneoca,
Dominion Exposition, Colones
and Prof. Smith: Directors, Drs. Galfanough, Barnes, Hutton, Vellam, Herrold, Duncombe, Jupp and Pickel;
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## Market Review and Forecast

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

Toronto, Jan. 12, 1904.

Trade continues good and the outlook for spring business is bright. The reports of the various businesses who have taken stock during the holiday season, show a satisfactory business for the taken stock during the holiday season, show a satisfactory business for the year. There has been considerable flurry in the stock market owing to war rumors in the East. At time of writ-ing it is reported that Russia has backed down and acceded to Japan's demands. If this be true, war will be averted for the time being and its effect upon the stock market lessened. Money contin-ues in demand, and discounts rule steady.

There has been considerable flurry in There has been considerable flurry in wheat circles the past week or two, owing to war rumors. At Chicago wheat-jumped up 4½ cents a bushel, and here 3 cents in a few days. Things have eased off now, and if the report today that peace is assured by Russia consenting to Japan's demand be correct, we need not look for any further x scitement in the wheat market because of the rest of last week summarizes the wheat market situation as follows:

"Wheat markets are influenced almost entirely by war rumors, especially the entirely by war rumors, especially the

"Wheat markets are influenced almost entirely by war rumors, especially the market for futures, May wheat having advanced 4c. and reached the highest price of the season during the week. Minneapolis cash wheat was equally strong, having advanced 4½c during the week. A better demand for flour has lately been reported from that city. has lately been reported from that city. Winter cash wheat markets generally advanced 1@ 2½c. At Chicago the market followed closely the movement of English consols, as reflecting the probabilities of war, though there was said to be heavy selling on the advances and buying on the declines by the one large interest that dominates the Chicago market. cago market.

Reports of winter wheat conditions in the United States are favorable, and there is nothing to assure any marked advance in price, should war not take place. Locally the markets are easier. Holders of red and white are asking 80c. Goose is steady at 73c., and spring

#### COARSE GRAINS

The oat market rules about the same. The demand for export and at Eastern ports is light. In Ontario, oats are being held and receipts are light. The ing held and receipts are light. The market here rules steady at quotations. The barley market is steady and prices are tending inpward. The speculative corn market has been active and prices have been advanced, though it has not affected the local market very materially. The recent dry cold weather has enabled the Western corn grower to hask and crib his corn and more marketing may be looked for. There seems to be little activity on the part of Western feeders to buy corn.

#### FEEDS

The demand for feeds keeps good and the tone of the market is firm at quotations. Prices here rule steady.

#### POULTRY AND EGGS

There is a good demand here for young chickens which are quoted at 10 to 11c. in a jobbing way. The demand for other lines has fallen off. The gees eason is about over and turkeys and ducks are quiet with lower quotations. At Montreal conditions are about the same, though real choice fresh birds sell

at good prices, but half-frozen stuff is not wanted. The egg market keeps strong. The export market is quoted firmer and higher. Prices here in a jobbing way are as follows: New laid, 35c, 1 selects, 35 to 39c; cold storage, 25 to 36c; and 75c and 15c an to 45c. a dozen

#### POTATOES AND BEANS

POTATOES AND BEANS
During the very cold weather there,
has been little shipping of potatoes, consequently carlot offerings at central
points have been light. Prices have not
advanced any and carload lots rule at
70 to 75c. per bag on track, Toronto.
Montreal quotations are about the same;
80 to 95c. a bag are the quotations on
Toronto Farmer's market.
The bean market rules steady and
The bean market rules steady and
quantity offering at Montreal has been
large of late.

#### HAY AND STRAW

There is a steady feeling in hay and quotations are a little higher than when quotations are a little higher than when we last wrote, or \$8,50 per ton for carlots on track, Toronto. At Montreal prices rule at \$8 to \$10 for No. 2 and No. 1 quality, and \$7 to \$7.50 for clover mixed.

Carloads of straw are quoted here at \$5 to \$5.25 per ton.

#### DAIRY PRODUCTS

The cheese market has taken on a more buoyant character and prices are on the upward grade. This, however, will not help the producer much as the 1903 output is nearly all out of factory-men's hands. At Liverpool, stocks at the end of the year were 120,100 boxes the end of the year were 120,100 boxes as against 6,2005 a year ago. Those at London were 162,000 boxes, an increase over a year ago. On this side there is not so many cheese on hand as a year ago at this time. November's are held at Montreal at 9½ to 10c., and October's at from 10½ to 10½c. It is thought that the market will advance sharply when the demand from the other side does come. The butter situation in England is favorable so far as stocks on hand were concerned at the end of the year. Besides the very coid weather here and in England will have the effect of curtailing the make, and thus lessening recepts. Holders are hopeful, therefore, that these favorable conditions may bring about higher values. But there is considerable stuff held over and at the peter of the stuff held over and at the peter of the stuff held over and at the peter of the stuff held over the stuff held over and at the preted advance would come. The usual complement of winter butter is being made, which largely supplies the local demand for creamery butter.

There is more activity in the horse market. A very good sale was held at Grand's last week and the sales this week have been well attended. The demand for first-class animals of nearly all classes is good, and especially for good heavy drafters. There was gome excitement in horse circles the other excitement in horse circles the other day when it was announced that Japan was sending a special Commissioner to Canada to buy horses for war purposes. It was stated that he has orders to buy from 2,000 to 3,000 horses, and that Calgary would be his headquarters. But reports to-day are more hopeful of peace and probably this order will be cancelled.

#### LIVE STOCK

The live stock trade is more active, and all offerings are readily taken at quotation. The quality of fat cattle offered of late has been only moderately offered of late has been only moderately good. Few exporters are coming for-ward. The best exporters are worth \$4.50 to \$4.75, and medium about \$4.25 to \$4.30 per cwt. Really prime quality would bring more money. Trade has been especially good for butchers, especi-ally for the bette grades, all of which are quickly bought up. Choice picked quality to the best exporters, are worth \$4.30 to \$4.70, good cattle \$4.00 to \$4.25, fair to good \$3.00 to \$3.85, and inferior \$4.30 to \$4.70, good cattle \$4.00 to \$4.25, fair to good \$4.60 to \$3.55, and inferior to common \$2.25 to \$3.30 per cwt. Feeding steers of good quality, 1,090 to 1,150 lbs. each, are worth \$5.50 to \$3.80, and feeding bulls \$2.00 to \$3.00 per cwt. Yearling stockers of good quality, 400 to 100 lbs. each, are worth \$2.75 to \$5.00, and poorer quality, of same weight, \$2.00 to \$2.50 per cwt.

#### 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	ronto	Mo	ntreal	St.	John	Ha	lifax	Win	nipeg
Date		12		1.1		9		9		9
Wheat, per bushel	S o	So	80	82	s .		\$		\$ 0	So
Oats, per bushel		31		30		43		44		30
Barley, per bushel		421/2		411/2		52		53		40
Peas, per bushel		63		62		73		73		
Corn, per bushel		44		52		55		57		
Flour, per barrel	3	05	3	90	5			30	4	70
Bran, per ton		00		50	20		20	00	16	00
Shorts, per ton	19	00	20	00	22	50	22	50	18	00
Potatoes, per bag		75		75	1	25	1	20		90
Beans, per bushel	1	50	1	60	2	00	2	00		
lay, per ton	8	50	10	00	1.2	00	13	00	10	00
Straw, per ton	- 5		6	00	6	50	8	00		
Eggs, per dozen		35		27		30		30		23
Chickens, per pound, d.w		11		11	per	165		65	per /	12
Ducks, per pound, d.w		10		13	pair	165		65	10.	10
l'urkeys, per pound, d.w		131/2		151/2		15		13		15
Geese, per pound, d.w		9		91/2		12		12		10
Apples, per barrel	2	50	3	75	3	00	3	50	3	75
Cheese, per pound		1134		1.1		10		12		131/2
Butter, creamery, per pound		22		20		24		23		24
Butter, dairy, per pound		17		1.7		19		20		21
Cattle, per cwt	5	00	4	50	5	00	5	00	3	75
sheep, per cwt	3	75	3	50	3	75	4	00	4	00
Hogs, per cwt	5	25	5	25	5	50	5	50	5	00
Veal Calves, per cwt			5	00	4	75	4	75	1	

Milch cows and springers bring from \$35.00 to \$55.00 each. Calves sell at \$2.00 to \$10.00 each or \$4.00 to \$5.50

per

The run of sheep and lambs has slackened off a little and prices are firm at quotations. Sheep sell at \$3.25 to slackened off a little way.

at quotations. Sheep sell at \$3.25 to \$3.75 per cwt. for ewes and \$2.50 to \$3.00 for bucks. Prices for spring lambs range from \$4.40 to \$4.60 per cwt. and \$4.75 to \$5.00 per cwt. for choice ewes and wethers for export.

The run of hogs continues good,

The run of hogs continues good,

160 to 200 lbs. each, \$5.00 per cwt. for lights and fats. Reports still come to hand of higher prices being paid east of here for bacon hogs. Peterboro of here for bacon hogs. Peterboro packers paid last week \$5.40 for select bacon hogs at that point, and \$5.25 has been the ruling figure, which means considerably more, when landed at the packing house here.

#### TORONTO JUNCTION

Considerable business continues to be done at the new Union Stock Yards, at Toronto Junction. The receipts are mostly cattle, and quotations rule about the same as at the Toronto City Market.

#### 0 The Art of Feeding

It is not what an animal eats, but what he thoroughly digests and assimi-lates that goes to make the profit in feeding. Undigested food is the rock that feeders most often come to grie on, and undigested food is the origin of ful feeder is the feeder who can most rapidly manufacture animal products from the raw material at the least cost, and one case of indigestion often spoils the record of a whole herd. By many of the most successful feeders Herbageum has come to be recognized as the greatest and most economical means of greatest and most economical means of ensuring perfect digestion and assimila-tion of foods. It enables feeders to uti-lize coarser and cheaper foods without retarding the growth of the fattening

We give here a report of a test made We give here a report of a test made by a practical feeder. The test was made on stall-fed cattle, but the argu-ment applies to all classes of stock. The Report is as follows:—"Last winter I fed 18 steers. I had previously used Herbageum, and was satisfied that there was a good profit in its regular use. However, in order that there should be no possible doubt about he matter, I no possible doubt about he matter, I dition to their regular food, and to the one remaining steer, which was a good one remaining steer, which was a good one, I gave exactly the same food without the addition of Herbageum. The 17 steers gained rapidly, and at the end of two months' feeding were greatly in ad-vance of the one steer that had been get-ting no Herbageum. I then began giv-ing him Herbageum also, and in a short time his improvement became as rapid as the others

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'My experience shows that when stall "My experience shows that when start fed cattle get Herbageum there is never any trouble from indigestion, or waste of food through lack of assimilation." JOHN GIBBS, Fordyce.

Dec. 18th, 1902.

#### "HICKORY"

(Continued from page 74.)

"Cause I asked him,

"Cause I asked him,"
"And what did he say?"
"Not a word. He just shook his head.
Then I asked if his mother was living,
and he nodded. But he would not talk
about her. He looked almost stern."
"You ask too many questions, Roxy."
"Perlaps I do," she answered gravely,

and without more words she walked off to her music, followed by Nep. The dog was very fond of his young mis-tress and would follow her everywhere. More than once, Hickory had seen him bound towards her with every expres-

sound towards ner with every expres-sion of joy, when he saw her coming. After a little while Hickory felt equal to swinging along on the one foot, and the first afternoon that he ventured far. Roxy went with him, while Nep raced up and down the road. It made him up and down the road. It made him feel a little queer to lunge along by the side of the fair girl, for this was the first time he had walked with a maiden since he parted with Elsie. The new life, with its ease and didness, had grown upon him. It was ideal to have plied, and to be enveloped in a home at-mosphere different from anything he had ever experienced. And now to be had ever experienced. And now to be walking in a rough way with his crutches, and to have beside him a sylph crutches, and to have beside him a sylph in white and pink, thrilled him with a feeling that the possession was not his, that he was reveiling in pleasures that could not continue. Still, with a free conscience he enjoyed the felicity. The actual present was sufficient. "Isn't it delightful to be able to walk again?" she asked, as Nep bounded across the path in front of them. foot of them, the sufficient is a consecuent of them to the sufficient with the sufficient was all his happiness. "And bear your weight upon it?" would not like to try that much "I would not like to try that much

"And bear your weight upon it?"
"I would not like to try that much

just yet."

He did not know how soon he would

have to try.

"Go away, Nep," and the dog careered along the road. "But when you can walk without crutches you will have to go back to the ship, as you did last

"No doubt. The captain says there are more repairs than ever to do this year—and it will take us until spring to

finish them."

"How far is the Condor's dock from here?" Roxy asked.

"Forty miles at least."
"That means when you once go you'll be so busy that you'll never come back

be so busy that you'll never come back again?"
"Perhaps I'll break my other leg and have to come." he answered, cheerily.
"Not a bad idea. You know I've lots of books you haven't read yet; and your education won't be completed until you've finished them," she cried with mock seriousness

"I shall really have to think of it," he responded. "But would it not be better to give Mr. Parker a chance? You know he's just dying to break his leg." "Ah! but he is not apt "To drop in a hole

"To drop in a hole said as an an like a pole," said Roxy, shaking her head. "His business is to do nothing but shoot; and his only danger is from bullets. They always kill, you know."
"We can never choose how we shall be hit, or who shall hit us," said Hick-

ory, in a reflective tone.
"I know it"; and Roxy's face suddenly grew grave. "My brother Ned's case was an instance."

"I did not know that you ever had a

'Yes, I had. He was the dearest fellow that ever lived; but he was shot by a hidden Southerner, while commanding a reconnoitering party during the war. a reconnoitering party during the wat.
They tried to, but they could never find out who did it."

'And you are the only one left, Miss

Roxy?"
"Yes; I never had a sister."
"And your mother," said Hickory.
"She died when I was four years old;
and after Ned was killed, there was
only father, aunty and myself left.
Everybody always said I should have
been a boy. I don't think so, do you?"
"Not in the least," said Hickory.

"Not in the least," said Hickory.
"That's what I say; so does Mr. Parker. But I tell you, I'd rather be a
Tom-boy all my life than be as silly as
some girls are. They think that whenever a young lady walks with a young
man either one or both of them are in love; and they talk utter nonsense about

"I'm glad the captain has such a sen-

sible daughter.

"She tries to be sensible; but what with sgirl's foolishness, and aunty's prudery—it's pretty hard for her some-times." And she carolled off a merry laugh, that made her look more winsome than ever.

"You seem to stand it pretty well,"
said Hickory; and looking into her face,
he was struck more than ever by her
beauty forgetting for the moment even

"Just look at Nep," exclaimed Roxy.
"He's crazy. Running up and down
without any reason. He'll tire himself
completely out. Here, Nep, Nep! Lie
down, sir!"

With his tongue hanging out, the huge dog slowed down to a trot and came towards her. Then she patted him and he lay down, but it was only for a minute. Hot and restless, he was

tor a minute. Hot and restless, he was up and off again.
"Is Old Hickory tired?" said Roxy, turning to her companion in a motherly way. "He's had a long walk for a lame way.

man."
"Yes, I think he is," was the answer.
"I did not suppose we were so far away
from the house."
"Are you sure you can walk back?"
she asked in some concern.

"Oh, easily!" But it was all he could do, and by the time he had reached the veranda he was

"There's Nep again," exclaimed Roxy, "racing down the line fence on the steady run."

steady run."
"The dog is ill," said Hickory. "He's
too excited. Chin had better put him in
the barn for the night. This hot Octo-

ber weather is too much for him."
"I will tell Chin at once." said Roxy.
But it was late before the Chinaman had stall in the barn. Then he supplied him with food and water, and left him for the night.

(To be continued.)

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Do you have hot flashes?
Is there dropping in the throat?
Is the nose dry and stuffy?
Have you a coated tongue?

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