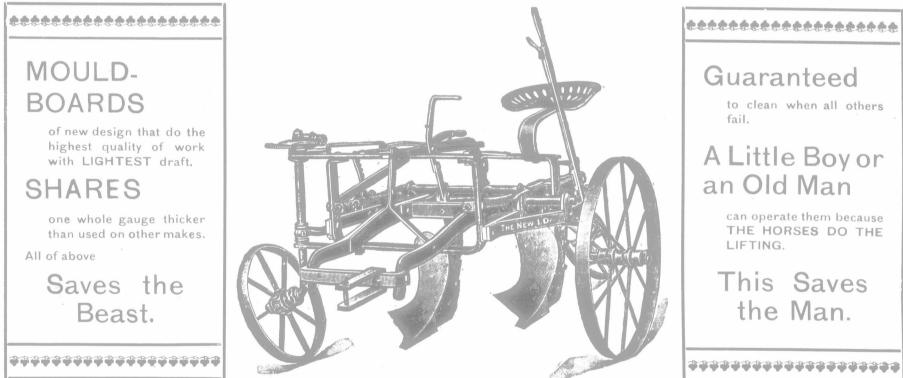
PAGES MISSING

JANUARY 27, 1904

THE FARMERS ADVOCATE.

(Continued from Page 1196, Christmas number.) The HORSE-LIFT Line

The new I D sulky and gang plows are an absolutely new creation in the plow line that will interest the **PROGRESS**-IVE, UP-TO-DATE farmers and their sons (are you one of that kind, or have you got your "mind sot" on some old style, which you will buy without investigating this one) who keep a sharp lookout for machinery that SAVES LABOR for man and beast. These plows will do it because they have the strongest frame, braced so that it will never go down at the front-wheel corner. END THRUST of REAR WHEEL CONNECTING ROD is resisted by frame and not by the pole, hence no landsides are needed to keep front wheel from crowding out of land.



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IF YOU LOOK AT THEM YOU WILL BUY SURE.

VERITY PLOW CO., LIMITED. MASSEY-HARRIS LIMITED.

SOLE AGENTS.

(To be Continued.)

THE FARME Thompson Sons & Co. GRAIN COMMISSION MERCHANTS, GRAIN EXCHANGE, WINNIPEG. Union BANKERS: BANKERS: Union BANKERS:	will send liberal cash advance, get settlement. We are licensed and careful service.	to do your business through a s are. Send us your shipping bill a you the highest price, and make
LAST MOUNTAIN PER ACRE. S83.10 PER ACRE. VALLEY Wm, Pearson & Co., B83 MAIN ST., WINNIPEG. m	GOSSIP. Mr. S. P. Thompson has landed in Re- gina with four heavy draft stallions and a pacer. One of the stallions is the seal brown Shire, Raydon Ambassador, imported by Bawden & McDonell, of Ex- eter, Ont. He was sired by Nailstome Royal Prince, he by Prince Harold, a high-priced horse, dam Nancy, by Eveall Masterpiece, who weighed slightly over 21 cwt., and won first at London, Ont., last season. Bright Star, a Clyde, also imported by the same firm, and sired by Good Gift, dam Lightsome Lass, by Lightsome Lad, is a well-gotten-up, com- pact horse, cf a ton weight. He stood at Paisley, Scotland, during the season	POULTRY OF ALL DESCRIPTIONS Mica Crystal Grit Granulated Poultry B Meat and Bone Meal Blood Meal Crushed Oyster Shells Sprayers Markers Netting Lice Killers Egg Producers
E. O'REILLY GRAIN DEALER WINNIPEG, MAN. QUOTATIONS furnished ON ALL kinds of GRAIN in CAR LOTS. Prompt adjustments. Correspondence solicited. REFERENCES: THE MERCHANTS' BANK OF CANADA.	of 1903 at a good figure. Colborne Champion, sire Prince of Twynholm (imp.), dam Colborne Lassie, by Stud- book Chief, is a big, growthy two-year- old. The fourth is a three-year-old, well-put-up and active, by Gipsy King, dam by Brave Graham. Mr. Nolan and Mr. Quigley had a quarrel, and Mr. Nolan's friends urged him to fight. "But he's more than me equal," said Mr. Nolan doubtfully. "And look at the size of him!" "Shure, you don't want folks to be sayin' that Terry Nolan is a coward?" demanded his friend reproachfully. "Well, I dunno, I dunno," said Mr. Nolan, mournfully. "I'd rather that than to have them saying day after to-	Drinking Fountains Etc., etc. In fact, everything for the poultry yard. Write you wants and get our prices. The STEELE, BRIGGS SEED CO. Branch Store of Canada's Winnipeg, Branch Store of Canada's Winnipeg, WANTED, AGEN Reliable men to sell for "Canada's Greas Nurseries"; largest and best assortmen stock; liberal terms to workers; pay wee outfit free; exclusive territory. STONE & WELLINGTON, Ton E. J. C. SMIT
The Addination of the Addinatio of the Addination of the Addination of the Addinatio	Morrow, 'How natural Terry looks.'" A well-known clergyman, says the Golden Penny, tells a story of a drowsy parishioner, who, waking up suddenly in church, heard the clergyman say: "Let us pray," and exclaimed in a loud voice, "Certainly!" He also tells of a certain grave old gentleman, who suspected his pastor of imitating other preachers' prayers. "That's Sherlock!" he ex- claimed, as the minister finished a sen- tence, and the preacher had not gone much further when the old man mut- tered, "That's Tilletson!" The minister paused indignantly, but went on again until the man beneath the pulpit broke out with "That's Blair!" Then he could stand the interruption no longer, and, leaning over the pulpit, he whispered to the man below, "If you do not hold	Kodak AND Supple Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Building Buil



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* AGRICULTURE, STOCK, DAIRY, POULTRY, RORTICULTURE, VETERINARY, HOME CIRCLE.* REGISTERED IN ACCORDANCE WITH THE COPYRIGHT ACT OF 1875.

WINNIPEG, MAN., AND LONDON, ONT., JANUARY 27, 1904 VOL. XXXIX.

No. 592

Editorial.

Lumbermen and the C. P. R.

The announcement made by Vice-President W W. White, of the C.P.R., that unless the lumber manufacturers were prepared to supply their goods to the consumer at a more moderate price the C.P.R. company would establish large lumbermills, has brought forth some scathing criticisms of the big railway concern by manufacturers on the Coast and elsewhere. The Vancouver Ledger, in taking up the subject, published an interview with one of the leading millmen in B. C., who

"I do not know anything about what profits the retail dealers have on their goods, and do not know that it is any particular business of mine, but I do know that the profits of sawmills in B. C. have not been satisfactory up to the present time, and when Mr. Whyte, or any other official of the $\mathrm{C},\mathrm{P},\mathrm{R},,$ makes assertions such as he is alleged to have made in the interview, he is guilty of interference with our business which is entirely unwarranted, and the C. P. R. should be last of all to make such an attack.

We have never presumed to interfere with the C. P. R. as to what they shall charge for freights, and have never found any fault with their recent sharp advances in west-bound freight rates, even although this will mean a good deal to us, but we do not think it fair that they should make us scapegoats and try to pull the wool over the eyes of the public in this manner. The C.P.R. are to-day getting more out of our business a great deal than we are," was the sharp reply. " As an instance, I might cite several recent shipments, one car containing about 16,000 feet, the net amount of the invoice is \$195.00, while the freight on this car is \$355.00; a second car containing over 11,000 feet nets us \$133.00. while their freight is \$250,00; so that it is apparent that while lumber seems high at the de-

A Big Convention Expected. Reports coming from all corners of the Prov-

ince of Manitoba indicate that the Grain-growers' convention to be held in Brandon at 2 o'clock on Wednesday next will be one of the largest farmets' meetings on record. There are several questions of vital importance to be discussed, and the Provincial executive are desirous of having as large a representation as possible. Although only one year has elapsed since the movement assumed Provincial organization, it has already proven itself more than worthy of the support and commendation of every right-thinking farmer. In the Northwest Territories the need for such an association was at first, perhaps, more pronounced than in Manitoba, and to the enterprising farmers of Assiniboia must go the credit for first taking up the work, but the unanimity of opinion which has existed during the past year between the two central associations has been as much a matter of surprise to those who would not have it so, as it has been one of gratification to those who look forward to a future of unmistakable usefulness on the part of Grain-growers' Associa-

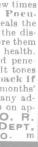
It will be remembered that at Brandon one year ago various questions were di cussed upon which a decision had been reached at the annual Territorial meeting some weeks previously, and where the conclusion of the Manitoba meeting differed the executives of the older association showed a disposition to, and did, incline toward their decision. This was as it should have been. Farmers could do anything if they would only hang together, but they won't," has long been a familiar epitome, but if the grain-growers of this country are prepared to continue shoulder to shoulder, and as an organization pursue in mode ation a coarse of unqualified usefulness, such as has characterized their actions during the year 1903, the time has fortunately come when it may

Wheat Breeding in Canada.

At the organization meeting of the American Plant and Animal Breeders' Association, held in St. Louis, Mo., on Dec. 29th and 30th, Dr. Wm. Saunders, Ottawa, is credited with showing that Preston, Stanley and other wheats bred by him have been widely distributed throughout the enthe Dominion. The report goes on to say that Preston wheat has been tested as to its milling and baking qualities by leading experts in Britain and in Minneapolis, and found practically as good as Red Fife. It is also said to be in the lead in yield per acre in several experiment stations in Canada.

Whether Dr. Saunders has been correctly reported in the abstract press report sent out by the American Breeders' Association we are not in a position to say, weither do we wish to detract from the value of any good work which he may be doing at Ottawa for this country. We believe that plant breeding is, to the farmers of the West, one of the most important lines into which scientific research is being extended to-day, and when an investigator can by selecting and crossing varieties produce a wheat that will yield even one bushel per acre more than, and be of equal quality to, Red Fife, he has added to the financial advancement of agriculture beyond estimate.

In looking over the reports of the experimental farms at Brandon and Indian Head, it does not appear that up to the present time anything has been done through the efforts of plant breeders to produce a wheat that can be recommended to tale" the place of the one now generally grown. At Indian Head the report from the field plots in 1902 shows Stanley four and Preston nine bushels behind Red Fife, and at Brandon during the past two years neither of these varieties are seen high on the report of trial plots. At both these farms the superintendents are doing careful experimenting, but they are not supposed to carry on plant breeding, nor have they time nor facil ities for so doing. Manitoba and the Territo ies con titute the great wheat-producing area of Canada, and it is only reasonable to suggest that a properly qualified botanist be commissioned to take up active work in plant breeding in Western Canada. The work that is being carried on at Ottawa along this line may have produced as good results for the West as if it had been carried on at either Brandon or Indian lead, but it never can be accepted with the same degree of confidence.



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S , A NIPEG. livered end, the biggest portion of the price is the cost of freight.

Dealing with the same question, another manulacturer said :

A shipment now being made brings up \$36.46 per thousand at point of delivery. Out of this the C. P. R.'s charges are precisely \$21.96 per thousand, leaving to us \$11.50 per thousand.

" Now for that \$11.50 per thousand, the lumber-mill has to maintain timber limits under heavy rentals and royalties. The timber has to be cut and put into the water, afterwards towed to the mills under risk of loss, which frequently occurs. The lumber has to be manufactured at the mills, and after orders are secured, the cars have to be loaded and shipped. Then the lum-Ferman sits down and waits for his money till he gets it. All the C.P.R. does for its lion's have of the price, is to haul the car and deliver to the customer whom the mill has found, and the latter pays the freight charges and unloads the car himself. The whole transaction, so far as the C.P.R. is concerned, does not take over ten davs."

While the controversy between these two gigantic corporations, the C.P.R. and the Lumberdealers' Association, continues, and new light is leing thrown on the trade, consumers are obliged to pay the same high price for humber. A reasonable conclusion of the whole matter is that the freight rates are excessive, and the cost of manufacture and selling price in the Pacific Province for too high.

be said that they cannot only do-but they will.

At the Territorial convention recently held in Regina, the principal features of the grain trade were pretty thoroughly gone into, and the conclusions arrived at by the association are commended to the moderate and intelligent consideration of those who meet in Brandon on Feb. 3rd. The Grain Inspection Act is one of the topics that deserves a thorough shaking up, and especially that section of it which permits of systematic blending and mixing. It is as unreasonable in its permission as it is unjust to the grain producer, and it now becomes the duty of Western farmers to test the influence of those Eastern factors that play upon the Governmental strings at Ottawa for its continuance. Let there he no uncertain sound from Manitoba and the Territories on this que tion, and the story of mixing and grinding east of Port Arthur will be past.

Of the other questions bearing upon the grain trade there will come up for discussion the necessity of a change in our system of grading : whether grain-growers should be represented on the Grain Standards Board; and various others.

In addition to these there are the problems arising from the coal and lumber combine, upon which an emphatic pronouncement should be delivered, and an ultimatum prepared.

nate on Wednesday and Thursday next.

If there are any farmers who have grown Stanley or Preston wheats in any quantity during the last year, we would be glad to have their opinion, giving a comparison with Red Fife.

Learning to Grade Wheat.

Since grading of wheat is so important, there ought to be some practical means whereby farmers who wish to improve their knowledge on this subject could get the desired information. Why should there not be practical demonstrations given occasionally by those who are regarded as authorities in the work? Samples of the different grades would be interesting if exhibited at a farmers' meeting, and the $\operatorname{reasons}$ shown, not merely told, how one grade differs from another. The "Farmer's Advocate" bespeaks for the Corn is the great crop of the Middle States, and convention an interesting, intelligent and enjoy- they have corn-judging schools' down there. Wheat able meeting, and trusts that the same unanimity is the great crop of this country; why should our of thought and co-operation in spirit as charac- young farmers, and older ones as well, not have terized the meeting one year ago may predomi- some means of studying this all-important subject? Who can answer?

THE FARMERS ADVOCATE.

THE FARMER'S ADVOCATE AND HOME MAGAZINE.

THE LEADING AGRICULTURAL JOURNAL IN MANITOBA AND N.-W. T.

> PUBLISHED WEEKLY BY THE WILLIAM WELD COMPANY (LIMITED).

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- 1. THE FARMER'S ADVOCATE is published every Wednesday
- (52 issues per year).
 It is impartial and independent of all cliques or parties, handsomely illustrated with original engravings, and furnishes the most profitable, practical, reliable information for farmers, dairymen, gardeners, and stockmen, of any publication in Western Canada. **a.** TERMS OF SUBSCRIPTION.—In Canada, United States, England, Ireland and Scotland, \$1.50 per year, in advance ; \$2.00 when not paid in advance. All other countries, 12s.
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 WE INVITE FARMERS to write us on any agricultural topic-We are always pleased to receive practical articles. For such as we consider valuable we will pay ten cents per inch printed matter. Criticisms of Articles, Suggestions How to Improve the ADVOCATE, Descriptions of New Grains, Roots or Vegetables not generally known, Particulars of Experiments Tried, or Improved Methods of Cultivation, are each and all welcome. Contributions sent us must not be furnished other papers until after they have appeared in our columns. Rejected matter will be returned on receipt of postage.
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Address-THE FARMER'S ADVOCATE, or

THE WILLIAM WELD COMPANY (LIMITED), WINNIPEG, MANITOBA

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Pointers.

Come to the Grain-growers' convention at Brandon prepared to talk business. There is often a lot of time lost at conventions because speakers do not stick to the subject before the house.

* * *

The Agricultural Situation in B. C.

The condition of live-stock association affairs makes for advancement, either commercially or educationally. Internecine strife rages between officialdom and the association, and, as a consequence, the ship of agricultural progress is yet anchored in the pool of stagnation.

The association claims the right to elect its own secretary, to which it is undoubtedly entitled, whether that person is persona grata with the officials of the Provincial and Federal Departments of Agriculture or not, and objects strenuously to being penalized for exercising their undoubted prerogative, by the withholding of all aid, in the way of official recognition, without which it is hard to get reduced rates or passes from the railroads for association purposes, and also the withholding of all financial aid by the Federal Department of Agriculture.

As the association is made up of men who have borne the heat and burden of days gone by, when it cost more to bring pure-bred stock to B. C. than it does now, these men are entitled to some consideration, and should not be subject to the whims and caprices of officialdom.

A Vancouver daily recently advised editorially the abolition of the Deputy Ministership of Agriculture, along with that of another department, a move which would be a distinct backward step. As the agricultural portfolio is held by the Finance Minister, an energetic, tactful, capable deputy is an essential to agricultural progress, and to the Minister. The Agricultural Department is manned on a large enough scale to get results. Besides a deputy minister, there are two veterinarians doing public health work, a freightrates commissioner, a fruit inspector, a horticultural board of four or five members; about twenty-three farmers' institutes, and about the same number of local shows, also receive aid from the Government, so that it would be unfair to charge the Government with neglect of the profession of agriculture. What faults need remedying will be found to exist in the way that the resources furnished are applied. The Department could well afford to lop off the local shows, which are little more than a sort of charitable distribution of public funds, and of tolls levied on the local merchants.

The following improvements are suggested : First, the abolition of the strife existing between the live-stock association and officials, so that the progress of agriculture (which ranks above the dignity of officials or associations) will not be hindered. Secondly, the abolition of all the efforts of the Provincial Department of Agriculture being concentrated on fewer shows, say four or five, one or two in the upper country, the New Westminster and Victoria shows to live and receive aid), in place of the numbers now existing. Courses in live-stock judging should be offered, as is now done in Ontario. Manitoba and the N.-W. T. We are pleased to note that the Royal Agricultural and Industrial Society of New Westminster has seen the need and will endeavor to meet the want next March (although refused aid by the Dominion Department of Agriculture). There is room and need for a week or more of such courses, to be given also in the upper country and on Vancouver Island. In addition, a first-class horticulturist should be both scientific and practical training, to give lectures and demonstrations in the horticultural branches, such as planting, grafting (not the political meaning), the handling of fungous diseases by spraving, etc. Such a man can be se-

A Killing Leaflet.

FOUNDED 1866

No less important a body than the British in B. C. is not in the flourishing condition that Board of Agriculture recently issued a leaflet advising owners of cows how to prevent or treat milk fever. With regard to the former, the usual diet restrictions are suggested, with mild purgatives. When the disease unmistakably makes its appearance, the leaflet directs that a "good dose of Epsom salts" should be given. and the veterinary called. If the experience of thousands of cases in the past be a guide, this dosing with salts will probably fix the cow's doom, and the offices of the veterinary will be of a post-mortuary character, for paralysis prevents the cow from swallowing, and she is strangled to death. The leaflet then goes on to recommend the iodide-of-potassium udder-injection (Schmidt) treatment, which, properly administered, has certainly proved a great advance on older methods in saving the lives of valuable cows. However, had the author of the leaflet read the "Farmer's Advocate" as attentively as he should have done during the past year he would have learned a still more excellent way, viz., the pure-oxygen udder-injection treatment, with which a firm of leading Canadian veterinarians, during the past season, had fortyseven complete recoveries out of forty-eight cases, the one loss being from mechanical conjection of the lungs, the cow having been dosed by someone else before the oxygen treatment was administered. These practitioners particularly insist that there shall be no such accompanying treatment, as it is practically certain to be deadly in its effects. They have also noticed that milking out the cow's udder clean after calving has been an almost invariable preliminary of milk fever, as it seems, as not a few stockmen and others have observed, to hasten the milk-fever collapse. Leaving the calf with the cow to suckle, removing the colostrum in nature's gradual way, is a suggestion in the way of prevention that should be more generally taken advantage of. The above ideas are not new in Canada, but are repeated with the hope that they may in due time counteract, in some degree, the mischief which might be wrought if British dairymen or breeders were to follow the belated and mischievous teaching of the official leaflet sent out by the Board of Agriculture.

An American, now a settler in the Calgary district, reported recently to a representative of the "Advocate" that about 12 miles south of Calgary while on a hill, he counted 93 dwelling houses; stables and outbuildings in no case being The growing period of the West has included. begun.

100% Ahead of Any Previous Year.

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Neepawa will have the honor of holding the first Winter Fair in Manitoba. February 16th and 17th is the date, and the name is Manitoba Winter Fair.

The annual Manitoba Provincial Poultry Show opened yesterday, the 26th, at Brandon, and will continue until the 29th. Before the fresh egg gets to the table it is worth money just now, and there ought to be life in the hen business.

* * *

Territorial Grain-growers, while in session at Regina, passed a strong resolution favoring Provincial autonomy. The Manitoba convention on Tuesday next would be showing a neighborly spirit, and a deep interest in the development of Greater Canada, by endorsing that resolution.

The Territorial Department of Agriculture are on the right track in regard to their Farmers' Institute policy. Live-stock judging began at Edmonton yesterday (26th); Lacombe, Macleod, Indian Head, Yorkton, and other points, will be visited by the men in charge. If you can reach well afford to arrange for a fruit experiment staany of these points without difficulty, get out and tion on a small scale in the Okanagan, the re-

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cured from the Agricultural College at Guelph. The Dominion Department of Agriculture could solts of the tests at Agassiz being of comparaovely little value to the upper country, owing to be difference in climatic and soil conditions; and, blittenal reason, the Okanagan is the with detelet of B. C. The same printhe for the very set before them, retain them; and the demonstrate theory them, retain them; There is (not always) strong(h in numbers !"

HE THOUSANDS of letters that have poured into this office during the (which two have already demonstrated their right past two months prove that the farmers of this country want and appreciate a really first-class weekly agricultural paper. Never in the entire history of the FARM-ER'S ADVOCATE did new subscriptions and renewals come in half so readily, and never did so many subscribers take the trouble to write, speaking highly of the paper and congratulating us upon its publication weekly.

After receiving a couple of copies of secured by the Provincial Department, one with the weekly, several others write in reference to the subscription price that they would consider it a remarkably cheap paper at \$2 per year. Evidently the West is not the field for "Cheap John" farm papers. The Western farmers want quality.

We take this opportunity of thanking our subscribers for sending us so many new names when forwarding their own renewals. The farmers of Manitoba and the N.-W. T. evidently appreciate a highclass agricultural and home journal. We hope all who have not already sent us one or more new subscribers will not fail to do so before the end of this month.

THE FARMER'S ADVOCATE. WINNIPEG, MAN.

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JANUARY 27, 1904 Who Deserves the Credit.

To the Editor "Farmer's Advocate":

Dear Sir,-Allow me to congratulate you on the appearance—in a double sense—of the weekly issue of the "Farmer's Advocate." I am much pleased to see that the Dominion Exhibition is to be held this year, and hope it will be a great success. It is rather surprising, however, to find that the Manufacturers' ${\rm Association}$ is getting all the credit of its inception, when, so far as I am aware, the "Farmer's Advocate" was the first to suggest the holding of such an exhibition, and " Render to urge its importance on the public. unto Cæsar, etc.' L. S. LITTLE. Winnipeg, Man.

The life of the farmer is a busy one at all seasons, and although in winter every hour has not to be caught in its season, the farmer who is progressing, and is destined to get ahead, is always busy. His, however, is not that busy worry which results in brain fag and all its accompanying evils. There is a variety in the farmer's life which precludes all monotony and its evil effects on health.

Horses.

The Care of Unshod Hoots.

The United States Department of Agriculture has done a good work in issuing Farmers' Bulletin No. 179, which treats of horseshoeing, a question that is far too little understood, not only by the farmer but also by many of those who undertake the work of shoeing horses. In fact, there are some shoers who have done this work all their lives, and yet there are many things in regard to it which they have never sufficiently mastered.

In speaking of the care of unshod hoofs, the bulletin says: "The colt should have abundant exercise on dry ground. The hoofs will then wear gradually, and it will only be necessary from time to time to regulate an uneven wear with the rasp and to round off the sharp edges about the toe to prevent the breaking away of the wall."

Colts in the stable cannot wear down their hoofs, so that every four to six weeks they should be rasped down and the lower edge of the wall well rounded to prevent chipping. The soles and clefts of the frogs should be picked out every few days, and the entire hoof washed clean. Plenty of clean straw should be provided. Hoofs that are becoming awry should have the wall strengthened in such a manner as to straighten the loot axis. This will ultimately produce a good hoof, and will improve the position of the limb."

Developing Action.

Every horse is naturally endowed with more or less capability to display himself, but whether he improve or mar his natural tendencies depends upon the education or training he receives. Many the best show horses have acquired their proud carriage and high action through education; only a few being possessed of these qualities without the aid of teachers. The education of a young horse to methods of good behavior is not a very difficult or tedious task. It consists in developing a habit, and habits once acquired soon become second nature. Of the methods frequently used to improve action, one of the most common is to use weights in the shoe, on the hoof, or in the shape of ordinary fine bird shot confined in a leather tube, on the ends of which are a strap and buckle, the whole being covered with buckskin and strapped around the leg just above the coronet

THE FARMERS ADVOCATE.

Horseshoeing.

It is desirable that every horseman have a certain amount of knowledge of shoeing. peculiarities of the gait of each individual horse should be studied in order to avoid accidents to the animal and expense to the owner. If the gait of every horse were true and clean, all that would be necessary in shoeing would be to put the shoes on carefully, so as to interfere as little as possible with his natural action, but the natural gait of many horses is faulty, hence we must endeavor to shoe to remedy different evils. Blacksmiths alone cannot be depended upon to do this, for the reason that they have not an opportunity of observing each horse's action, so that it behooves the driver to understand the situation and its remedies.

The most critical shoeing of a horse is his first shoeing. Many smiths can shoe an old tenderfoot well, but fail when they come to a green colt. In this, they are not always alone to blame. In many cases the horseman furnishes old unsuitable shoes, and attaches too much importance to the first cost, little thinking that improper shoeing may blemish the horse for life, or prevent his sale.

In this article I wish to direct a few remarks to both horsemen and blacksmiths on interfering, and certain fads and fancies, as spur heels, improper ground bearings, etc. Some smiths will say they have shod horses with weights on outside and inside for interfering, with practically

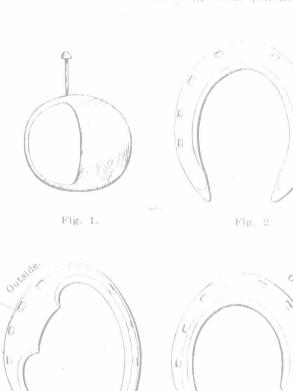
before nailing. The last sentence contains a rule that should govern all kinds of stoeing. The use of a file or rasp will soon bring the calks to their bearings, when all other parts are correct. Fig. 2 is a common shoe set in position, according to common sense, with equal weight on both sides, and equal ground bearings on both sides. With such a shoe the ordinary horse will go very well. For a very close going horse or colt, 1 would recommend the shoe illustrated in Fig. 4 This shoe, when properly set, will have a tendency to spread the horse's action. Of course, any horse may touch lightly once in a while; the weighting, with this peculiar set, will keep the colt or horse from doing any very serious damage to himself. This shoe is intended to be just as long on the inside as the outside, and the inside heel calk, having a larger ground bearing than the outside one, makes a good firm prop, as it were; now, by having a fine calk on the outside and tucked under the foot, we bring more weight to bear upon it, insuring the ankle against going in too far. The inside heel may be raised or lowered to suit circumstances, as no two horses are alike. It will be plainly seen that the ground bearings of Fig. 3 and Fig. 4 are very different. The latter will serve as a hind or front shoe. It is a good one on the knee banger, as well as the horse that interferes behind. Put a spur on this shoe and you counteract to a great extent the good that the side weight may do. Of course, spur heels belong to fancy shoeing used on some trotters in fast work; no good on gravel roads for everyday use.

SANDY COLTS.

Importations and Customs Valuation of Horses.

In the "Farmer's Advocate" of a recent issue, attention was called to the low customs valuation of horses imported into Western Canada, and the evil effects that result from the wholesale dumping of an inferior class of horses that is encouraged by such a policy. During the last couple of years this has become a live question with those who have at heart the interests of our horse breeding and ranching industries of the prairies. Last year the breeders' associations of Manitoba and the Territories framed, passed and forwarded to Ottawa resolutions urging the Government so to alter the regulations as to make impossible the practice of dumping in Canada, practically duty free, a host of worse than useless horses. These associations have wisely followed up their memorial with one in rather more tangible form, and have sent, in conjunction with other Canadian Horse-breeders' Associations, a deputation to wait on the members of the Government.

The deputation consisted of Messrs. Henry Wade, Toronto; Peter Christie, Manchester; John Bright, Myrtle; Henry Robinson, Toronto; Wm. llendrie, Jr., Hamilton; Wm. R. Stewart, Mc-Leod ; Fred Richardson, Columbus ; J. M. Gardhouse, Weston; Samuel McBride, Toronto, and Dr. Creamer, Qu'Appelle. Those of the Government present were Sir Wilfrid Laurier, 11on. Mr. Fisher, 11on. Mr. Fielding, 11on. Mr. Sifton.



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Another plan is to exercise the subject over a bed of straw, or other resilient or springy material. The yielding of the straw at every step will make him bend his knees and hocks and lift his feet high to clear the ever-present obstacle. The old practice of threshing peas on the barn floor, by treading with horses, was one of the best means of demonstrating this method. In some cases a ditch three or four feet wide is dug and filled with straw, tramped and filled again, until the straw is level with the ground. In this ditch the horse may be worked until the necessary amount of daily exercise has been given.

Some trainers prefer the plan of laying railway ties along the ground at regular intervals, according to the length of the stride of the horse. Over these ties the animal is trotted, being forced to pick his feet up high and clean to clear the obstructions. Deep, soft snow is also a good substance in which to exercise a horse to develop action. These are some of the common methods that can be used on any farm, but other practices more complicated may be necessary for advanced performers. In all cases where education is being given, care should be taken not to exercise the pupil to leg weariness. The habit of lifting the feet is only acquired when the muscles are strong and fresh.

Fig. 3. Fig. 4

the same result, and, therefore, have no faith in weighting. Now, I have seen horses shod according to the horseman's orders, raised on the inside, but the raised heel was so near the center of the foot that both heels were raised, the outer calk not coming within one-half inch of the floor. This, I should say, was raised in the center, the foot being liable to tilt either way, and the shins banged to pieces. Any amount of side weight would not have saved him with such a setting. Spur heels have been considerably used by many smiths for weighting the outside of the foot, but on our roads, where the center becomes scooped out like a hog-trough, the spurs only tend to throw the legs against each other. Generally speaking, both horsemen and smiths labor under the impression that the particular portion of the hoof or shoe that strikes the opposite leg is the heel or back part, and in shoeing often set the inside of the shoe too far under the foot. In my experience the interfering part of the hoof is the toe, and hence shoeing as above only tends to intensify the trouble.

I give here a few illustrations, for instance take Fig. 1, representing an iron ring weighted on one side. Now, if you pick this ring up by the stem and swing it past your own shin a few times, draw it in far enough to tap you on the shin with light side, then turn the heavy side toward your shin and give one tap, swinging at same speed. This would give the shoer an idea about weighting-how, where, and why.

Fig. 2 is a front shoe, with no side weight, set squarely on the foot, with heel calks of even size, at equal distance from the cleft of frog, which is supposed to be the center of gravity; toe calk in center of toe. When finished, the ground bearings of this shoe-that is, the calksshould all sit firmly on a level anvil, as a test

The deputation urged that the importation of the poor class of horses be prohibited, or that they be valued sufficiently high to make it unprolitable to bring them in under the present duty. In 1903 there were about 21,000 horses imported into the West, over seventy per cent. or which were practically unfit for agricultural pur-Such wholesale importation not only introduced a poor class of horses, and paved the way for poor horses for generations, but also so deluged the market, that a fair price was not afforded the breeders of a good class of horses. Horses were needed, but not those that were such a decided detriment to the country. Reference was made to the abuse of the homestead regulation which provides that each man coming into the country may bring with him for his own use sixteen horses free of duty. Many are thus frequently brought in, and instead of being held for two years, as the regulation requires, are immediately sold to a dealer for any profit there may be in it.

Another condition that the delegation strongdeprecated, was the importation of inferior stallions. Many settlers when coming across the line brought with them grade stallions as working horses. This, they wisely considered, should not be allowed, as the effect when these were used in the stud could not help but be detrimental to the industry.

Several speakers also urged the establishment a national register for all classes and breeds of live stock under national control. The record, it was said, would be a standard to regulate the importation of animals free of duty, by requiring all breeding animals to be first registered in it.

In replying to the delegation, Hon. Mr. Sifton said, regarding the general importation of scrub stock, that owing to a question of tariff being involved, an opinion could not be expressed on it. The abuse of the clause respecting settlers' effects called for consideration, and if it were shown

THE FARMERS ADVOCATE.

that undesirable stock were brought in under it, there was no reason why prohibitory regulations should not be carried out in the most effective way.

The Minister of Agriculture, Hon. Mr. Fisher, thought that instructions could easily be issued to the customs officers, relative to what pedigrees they should recognize. While feeling that under the American regulations regarding the importation of stock, Canadians had a right to feel hurt, he did not think it advisable to proceed in the same spirit that had prompted them, but in such a way as to safeguard the interests of our stockmen from unreliable herd and stud books. He was confident that arrangements could be made with the Minister of Customs that would meet the requirements of the case without legislation. Referring to the nationalization of herdbooks, he said that if the live-stock men of the country asked for it, the Government was prepared to carry it out. Closing, he mentioned the meeting of live-stock men to be held in Ottawa in March, when this question, among others of importance to the live-stock industry, would be discussed by representatives from the different organizations of the various Provinces.

Stock.

Care of Brood Sows.

On the treatment of breeding sows during the winter very largely depends success or failure in saving and raising her pigs when born. The sow that is kept confined in a pen, without exercise, and fed upon a diet of only one kind of food, whether of grain or of sloppy food, is liable to produce weak, flabby pigs, a large proportion of which perish within a few hours of their birth. Free exercise in a barnyard, where the sow may gratify her natural desire for variety, will certainly have a healthful influence upon her offspring. Pigs born in summer or fall, when the sows have liberty to run upon the ground and the has been rightly appreciated in many directions. grass, are generally stronger and more likely to live and go on well than are spring pigs, as a rule. This fact should teach the wisdom of giving the sow, in winter, conditions as near those of summer as is practicable, by allowing her to families, or sub-families, so that even when comrange as much as possible, to have access to the ground when it is bare of snow, scattering grain reason to breed excessively close. As a matter on the ground for them to pick up, and thus get of fact, I am at present breeding from two bulls exercise while eating slowly, by giving them roots, of a family I have hardly ever used in the herd, preferably mangolds or sugar beets, as part of their bill of fare, and, when the ground is covered with snow, carrying earth to them from the roothouse. Cold, sloppy food cannot be good, either for the sow's digestion or for the well-being of the pigs she is carrying. It is better to feed the grain or mill feed dry, and give the drink in a separate trough, where the sow can take it as she needs it, instead of being forced to take a lot of unnecessary liquid in order to get her solid food. One of the most successful pig-breeders we know, and one who has been unusually fortunate in raising spring pigs, feeds his sows, in moderation, with pulped and a little meal or shorts. Clover has in its composition the elements of nutrition that are lacking in many other farm foods, and is the best substitute in winter for the grass of summer. If cut clover were steamed and fed as part of the ration of all pigs in winter, it would be found of great benefit in maintaining the health of the animals and promoting growth of flesh and strength of bone. Where only two or three sows are kept, and no cutting-box is used, the clover leaves found where the hay is thrown from the mow for the cattle may be utilized for the sows, as we have seen it done. Useful as are roots for sows, it is quite possible to overdo the feeding of these, as they contain an excess of water, and may have the ill effect as an excess of swill. A whole mangold thrown in the yard or pen, to be eaten piecemeal by the sow, will be more helpful than a heavy feed of sliced or pulped roots mixed with meal, tempting the sow to eat more than she really requires.

Lord Polworth on Selection and Mating. To the Editor "Farmer's Advocate" Dear Sir,-I read with much interest the article

on Mertoun stock in the issue of October 20th, and a more recent reference. I hope I appreciate fair criticism as much as praise. I think, however, it is only right to correct an impression which prevails, and is much exaggerated. I refer to in-and-in-breeding. It is true that in all my stock breeding I pursue a definite aim, and proceed on definite lines. I adhere more or less to the type or ideal which commends itself to my judgment. I endeavor to mould my stock accordingly, and to perpetuate the character by line breeding, but I rarely resort to close in-and-inbreeding. I recognize its value in certain cases, but not beyond a certain point. I have also observed that just as bad results may flow from interweaving the systems of two animals in which taint of delicacy or disease lurks, however remote in blood relationship, however distinct in type and character. So on the other hand, the careful mating of animals more or less related in blood, and mutually replete with ancestral good qualities, with robustness of constitution and vigor of system, will produce in the highest degree admirable results. Even here, however, a wise breeder will, more or less, differentiate so as to maintain the fertility and breeding qualities of his stock. To do this without destroying type is one of the difficult problems ever requiring solution. Probably in modern times the late Mr. A. Cruickshank has been the most striking illustration of this. He had many families in his herd, used a number of different bulls with more or less success until in the bull Champion of England he found what suited his taste and judgment. Then, as is so well described on pages 637 and 638 of Mr. Sanders' book (Shorthorn Cattle), he permeated his herd directly and indirectly with his blood. He could not have done this had he not had a variety of females, and when I knew his herd when that famous bull was at the head of it, his herd was decidedly of a uniform distinct type. That type was admirably adapted for the country and the purpose, and My reference to this, however, here, is to indicate that to breed on such a system requires a certain variety amongst the females. So far from Mertoun herd being all inbred, there are 25 different paratively few bulls are in use there is little viz., the Townley Butterfly, and another from the family which produced the sire Rapid Rhone, the progenitor of my best show cows, about thirty years ago. This will, I think, correct the misapprehension as to very close inbreeding being pursued in my herd. At the same time, I have never known any stock prove really prepotent for good which was not bred on definite lines.

To turn to the flock, the previous remarks may equally apply, only the larger number of females renders differentiation easier. Reference is made to the repurchase of sires sold. No doubt I have thus got a certain distinctiveness

FOUNDED 1866

to extend a cordial welcome to yourself, and an Canadian or American breeders who may care to have a look at my stock, and judge for themselves. I only wish a bull such as Royal Commander, brought over from Canada by Hugh Aylmer, might come to rejuvenate the old blood by the rigor of a new country and climate. Yours faithfully,-POLWORTH

[Note.-Mr. John Graham, Carberry, Man. while travelling in Great Britain last year, paid a visit to the estate of Lord Polworth, Mertoun, St. Boswell's, Scotland, and favored the "Advocate" readers with a description of the Mertoun herd, and other items of interest connected with this historic spot in the Old Land, in Oct. 20th issue. Lord Polworth, whom we are pleased to have as a constant reader of the "Farmer's Advocate," has written the foregoing letter as a fuller explanation of his methods of selection and breeding.-Editor.]

Pure-bred Live-stock Records.

Representatives of the Canadian Horse-breeders' Association recently waited upon the Dominion Government at Ottawa, for the purpose of urging upon the authorities, in the interest of pure-bred stock, the raising of the duty on horses coming into Canada from the United States. with a view to minimizing the entry of inferior animals. Some of the speakers also suggested the institution of "national records," not only for horses, but for all kinds of stock, in which breeding stock imported duty free would have to be recorded. In regard to the latter proposition, Hon. Mr. Fisher, Minister of Agriculture, said he had for a long time given it his attention, and he felt they must proceed very carefully, if they proceeded at all. He also mentioned that he had called a meeting of the live-stock interests, to take place in Ottawa in March, when he hoped that representative men from all the Provinces would be present. At this meeting he hoped the stockmen would discuss the matter and reach some conclusion.

In order that a clear understanding may be had of the position of Canadian records as at present conducted, a statement of what records we have and under what control may be helpful. In the first place it may be stated that all the recognized pure - break live-stock records in Canada are now national in name and character, and are conducted under the auspices of national Breeders' Associations, representing the several breeds of stock. For horses, we have the Canadian Clydesdale, Shire and Hackney Studbooks. For cattle, the Dominion Shorthorn Herdbook, the Canadian Hereford Herdbook, the Canadian Ayrshire Herdbook, and the Holstein-Friesian Herdbook of Can-For swine, we have the Dominion Swineada. breeders' Record, which includes Berkshires, Yorkshires. Chester Whites, Tamworths, Poland-Chinas, Duroc-Jerseys, and Essex. For sheep, there are no Canadian records. An attempt was a few years ago made, not by the Breeders' Assoiations, but by what ciation, to institute a Canadian registry for sheep, but it did not meet with the general support of Canadian sheep-breeders, and soon ceased to exist, the great majority of breeders in the country Speing satisfied with the terms on which registry of their sheep are accepted in the American records, Canadian breeders as members having equal privileges with those of the U.S., the presidency of several of the breed societies being at present held by Canadians. For Aberdeen-Angus, Galloway, Jersey and Guernsey cattle we have no records in Canada, the American records being, so far as we know, considered satisfactory.

132

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Watering Animals.

There should be a prescribed system for the regular watering of all animals on the farm. The belief is more common than it should be that water at long intervals is not only sufficient, but that it is the best way of treating cattle. Oi course, this is a mistake, and one that ought to he apparent to all who give the matter any the apparent to all who give the matter any thought, hatte fiss place, a thirsty state is an shear-field destate for the acquait to be in, and from motive of norma to it should be related. It is a condition directly supposed to good diges-tion. When this is should only when it has which it expected s. Cattle should, when on dry feed, got water.

but I lay more stress on the retention of such young sires as appear to me in flock or herd best adapted for the want of the time. No doubt this means keeping back some of the best, and thus reducing the top put into the market. However, even this year, I did not hesitate to retain four or five of the best shearlings for my flock.

In stock breeding, as in other things, one has to study fashion, no doubt, but to be led by it is apt in the end to prove disastrous. while the production of sires is generally the main object of the breeder, it is essential to devote attention to the female side too, because more of such are wanted than males, and because the foundation of flock or herd is in the females. doubt a good sire is half a herd, but the best sire will come from the best dam.

As it was years ago, certain strains take the lead in fashion, especially through the influence of shows, but if Amos Cruickshank had not followed the bent of his own good judgment alone, the valuable cattle he bred would not have existed. I may not have the same type as my ideal, but I neither despise his type nor any other. Happily, in stock breeding, there is not only room for variety, but great benefit to be derived from it.

The amalgamation of different strains when the types coalesce is often beneficial, but a wrong cross is just as disastrous. I have tried not a few in the herd, and discarded most, even when the sires were grand looking animals and prizewinners, such as Nonsuch, a champion at the Royal and Highland. The best out-cross I ever had was Sir Arthur Irwin, and, strange to say, the result of mating him with some grand cows was failure; whereas, when mated with one near of kin to him, the result was Truth, a champion

I have, however, trespassed too far on your time, and only beg you will make such use, of

There is a record in Quebec for French-Canadian cattle, of which Dr. J. A. Couture is secretary, but whether a society directs it we are not Nearly all, if not all, the records of Great Britain and the United States are controlled by the breed societies, which elect their own officers and registrars, and fix entry standard.

The idea of national records, as we have shown, is not new, and its extension may be worth considering, and the breeders will doubtless see to it that their interests are amply safeguarded and none of their prerogatives interfered with, as they are the people most intimately interested, and who have the clearest understanding of the requirements in the case. Canadian records, as at present conducted, are of as high standard as those of any other country, and higher than many, as Mr. Fisher pointed out in comparing them with United States records, and more accurately kept.

The Canadian horse, cattle and swine records with the exception of the Holstein Herdbook which is compiled by Mr. G. W. Clemons, are edited by Mr. Henry Wade, who, as registrar, receives a fixed salary from the Ontario Government, and, in addition, a certain amount from these notes as you see fit. Permit me, however, recorded under the rules and regulations of said the various breed associations for each pedigree

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associations, he paying his own office assistants. The fact of the registrar's office being in Toronto, and part of his salary paid by the Ontario Government, we presume accounts for the impression prevailing in some quarters that the records are provincial, while, as a matter of fact, the Prothe records.

Our Scottish Letter.

Many problems await settlement in connection with the feeding of stock. These are being variously dealt with on both sides of the Atlantic. I see the subjects discussed at Guelph bore on this to some extent. Here we have had various tests, resulting in useful lessons. A test combining questions of manuring as well as feeding is being carried out at Cockle Park, the Northumberland Experiment Station. There an old pasture was manured with different forms of plant food. Their efficacy was tested, not merely by the appearance of the pasture, but also by the success attending the grazing of sheep on the various plots. These tests are popularly known as the Manure and Mutton experiments. They have suggested similar lines of inquiry to other experimenters, which are being eagerly followed up. Recently the relative values of superphosphate and basic slag have been tested in connection with a sheep-feeding experiment on turnips. The result is somewhat of a surprise. During the earlier stages of the test the roots grown with superphosphate yielded the best results. They were the heavier crop, and the sheep seemed to make more rapid progress on them. By and bye the scene changed; the roots grown with basic slag were the better quality; they were of greater feeding value, and lasted longer, with the result, when the slaughter test came into force, that the mutton grown on the basic slag roots was superior, and the sheep fed on them better by 15 per cent. than those fed on the competing roots. This is the sort of experiment which educates. Farmers learn from it not only something about manuring, but also a good deal about feeding.

One of the sensations of the hour is the new variety of potato called Eldorado. It was brought out by that potato-growing expert, Mr. Arch. Findlay, Markinch, Fifeshire. At present there are not more than six tons of it in existence. Four pounds of these potatoes were sold at Smithfield show for £600, or about \$750 per pound. This is a fabulous figure, and puts out of court the time-honored theory about certain things being worth their weight in gold. It must now read, "Worth its weight in potatoes." The production of new varieties of seeds of all kinds is one of the recent agricultural developments. Mr. Findlay has made a special study of potatoes, and has produced some of the most successful varieties ever put upon the market. The average life of a new variety seems to be about ten years. Disease at first is unknown amongst the new kinds. By and bye they seem to lose the power of resisting the ravages of the fungus, decade has the tubers are ou of the race, and new sorts have come into being. Nearly all the great seed and root firms give attention to this business. Some succeed, and some fail. Mr. Findlay confines his attention to potatoes, and has had wonderful success with several varieties. At present Eldorado is in its infancy. The favorite, because more plentiful, is the Northern Star. It is another of Mr. Findlay's creations, and is going like wildfire. It has been before the public for a longer time than the Eldorada, and a greater quantity of the seed can be bought. It, too, was selling at an abnormal figure at Smithfield. Mr. Chamberlain's crusade proceeds apace. There is no doubt that the vigorous M. P. is the man of the moment. It looks as if he would run the Empire. On the whole, I should be disposed to say that he has a very large body of opinion in this country at his back. Whether he has a majority of the electors will not be known until the general election comes round. The net result in the political world so far has been to disintegrate all existing parties. The sectional cleavage is amazing, and Mr. Chamberlain's own party, the Liberal Unionists, is worse hit than the rest. The main question with one is, "What would be the effect of Mr. Chamberlain's proposals on agriculture ?" That Canada and other colonies would benefit hardly admits of question. But the betterment of the demand for Canadian produce here would only intensify the keenness of the competition with which the British farmer has to contend. How he is to benefit from the proposed fiscal changes is what I do not understand; but he seems to expect to do so, and is supporting Mr. Chamberlain all he knows. Reports have come to hand regarding the great shows at Chicago and Guelph. I am glad to see that Canada has been doing well in the big contests at Chicago. Graham Bros. have got an exceedingly strong hand in the black horse, Cairnhill. He was a good horse here, and is a good

THE FARMERS ADVOCATE.

one anywhere. The quality of the Clydesdale exports to Canada in 1903 has been worthy, and a good lot of horses left about a fortnight ago. The most extensive shippers were Messrs. Smith & Richardson, Columbus, Ont. Mr. Richardson was on the ground himself, and took an equal vincial Government does not control nor regulate number of horses from Mr. Peter Crawford, Dargavel, Dumfries, and Messrs. A. & W. Montgomery, Kirkcudbright. He had some horses that will take a bit of beating. Two or three of them have made their mark on this side. They are big, well-built animals, with plenty quality and weight. I should say that Smith & Richardson with luck will show something worth while at the Toronto spring event. Other shippers by this late steamer were Messrs. Campbell, Alvinston; Graham, Carberry, and Irving, Winchester, Ont. These gentlemen had horses got by champion sires like Prince Robert, and his son, Hiawatha. Mr. Richardson had horses by the famous Baron's Pride, as well as Hiawatha ; the grand horse Moncreiffe Marquis, sire of the champion gelding at Chicago, and the \$5,000 horse, Montrave Mac Mr. Irving had a big horse by the celebrated champion horse, Holyrood 9546. Mr. Brydon, who is one of the most enthusiastic supporters of the Clydesdale breed in Great Britain, and President of the Clydesdale Horse Society, has presented a magnificent trophy, value \$500, for competition at the Glasgow Stallion Show. The horses competing must pass a veterinary examination, be approved stock-getters, be registered in the Clydesdale Studbook, and be up to 16.3 if a three-year-old, and 17 h. h. if a four-year-old or over, with corresponding weight and girth. Mr. Brydon has always been an advocate for a big horse—any other kind being practically unsalable in the north of England. The Clydesdale can hold his own with the best if he gets a chance, and Mr. Brydon's big trophy will bring out the big ones.

The Departmental Committee, which has been sitting on the question of fixing a standard for butter, has at length reported. Some time ago they fixed the maximum of moisture at 16 per If more than this percentage of moisture cent. be found in butter there is a presumption that it has been tampered with, and the merchant selling it is liable to be prosecuted. When the committee came to try and settle the question of the quality of butter, apart from moisture, they found themselves in a difficulty. Their report is not unanimous, and I should not be surprised to see Lord Onslow decline to proceed further in this matter. The committee unanimously recommends that all manufacturers of margarine should be compelled to employ a slight percentage of sesame oil in mixing their product. This would render impossible the substitution of margarine for but-"SCOTLAND YET." ter.

Wheat for Hogs.

As most Canadian farmers know, corn is the principal hog feed in the Western and Middle States. At the Nebraska Experiment Station show the comparative value of wheat and corn, and have found that wheat produced nine per cent. greater gains than the same weight of corn, each being fed as a single food. Some years ago South Dakota found 481 pounds wheat equal in pork-producing value to 458 pounds corn, and Ohio in continuing the research found 438 pounds wheat to prc luce one hundred pounds pork, while of corn 453 jounds were required. It will thus be seen that wheat is a very valuable pork-producing food. When soaked for one day it has been found to give almost as good returns as when ground.

Sheep Notes.

Sheep require a variety of food to form flesh and fat

With sheep, rather more than with any other class of stock, care must be taken not to overfeed.

Overstocking is usually injurious to the sheep and ruinous to the farmer.

Dryness is one of the requirements in the production of the finest grades of wool.

No sheep should be allowed to die of old age, but all should be fattened and sent to market before their vitality has been impaired.

Sheep are naturally gregarious. When one is seen by itself, something is evidently wrong.

In commencing to fatten sheep, the feeding should not be crowded at first, but gradually increase the amount of the ration.

A small, fat sheep will always bring better prices than a large, poor one.

Sheep are almost essential in maintaining the fertility and cleanliness of the land.

Keep the quarters clean. Sheep do not need the accommodation of manure to keep them

To have good-sized sheep, they must be grown rapidly while young, and it is important to give them a good start.

When sheep lose patches of wool from their heart or bellies, it indicates a feverish condition, and is usually the result of improper feeding.

Sheep thin in flesh have weak digestion, but even the strongest are easily injured by feeding grain too heavily.

It makes considerable difference in the quantity and strength of the wool whether or not the sheep have even, regular conditions.

When early lambs are expected, especial care must be taken to provide warm, dry quarters, in order to avoid losses. Keep the ewes in a good, thrifty condition.

Old sheep, or sheep that from any cause have bad teeth, should be fed ground feed. Such sheep are rarely profitable.-[Scottish Farmer.

Lord Polworth Enjoys the Farmer's Advocate.

Mertoun, St. Boswell's, Scotland,

Nov. 16th, '03. To the Editor "Farmer's Advocate":

Dear Sir,-I wish to thank you for your very excellent paper, which I always read with much interest, and appreciate, especially the wholesome. beneficent tone which pervades it. It is admirably suited for the farmhouse fireside for young and

American Breeders' Association.

An association, to be known as the American Breeders' Association, was organized at St. Louis, Mo., at the beginning of this year. The purpose of this new association is stated by the constitution to be, "To study the laws of breeding, and to promote the imthey have been conducting some experiments to of expert methods of breeding." It has as its Presiprovement of plants and animals by the development dent, Hon. Jas. Wilson, Secretary of A Washington, D. C., and as Secretary, Prof. W. M. Hays, Minnesota School of Agriculture. The membership is, so far, composed mainly of the leading college men of the United States who are interested in the improvement of plants and animals.

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With the men who have it in charge, a useful and influential work may be looked forward to.

Reports coming from different districts in the range country of Alberta and Assiniboia indicate that stock are wintering well. In some cases mange is said to be on the increase.



A Camp on the Cochrane Ranch. Range near Belly River, Southern Alberta, where about 15,000 cattle are also kept.

THE FARMERS ADVOCATE.

Farm.

Concerning Soil Moisture.

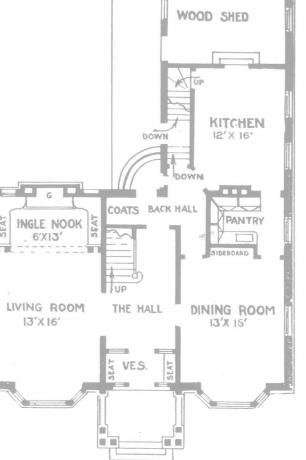
The retention of moisture in the soil is dependent on climatic changes; yet it is a matter subject to natural laws, upon which intelligent action can be brought to bear to the advantage of the tiller of the soil.

Every farmer is aware of the use of cultivation in conserving soil moisture. The reasons why cultivation does so, however, are too often forgotten. Land that has been plowed in the fall is, after the effects of winter frost and fall and spring weathering, in a state highly susceptible to the effects of capillary attraction, and if left too long without being handled by some cultivating implement, all the moisture available for plant food would evaporate, and the farmer would be at the mercy of the spring rainfall. the amount of his crop being almost wholly dependent upon what amount of early rain such a field would get. Capillary attraction is the natural law under which fluids rise in a tube to a higher level than the fluid into which the lower end of such a tube is placed. To demonstrate the law of capillary attraction, tubes of different diameter may be placed vertically with a small part of their length submerged in water, when it will be found that the water will rise in each tube considerably above the level of the surface of water in which it is placed. It will also be found that the water rises higher in the tubes of smaller diameter, and that the height to which it rises is in uniform proportion to the diameter of the tubes. The soil and also the subsoil is a series of tubes upon which capillary attraction is always acting, and the smaller the particles of soil the smaller will be the tubes into which it will form. It is also the case that in soil so pulverized that these capillary cells are very small and close together moisture is more uniformly brought from the subsoil to the surface. Evaporation is the great dissipator of moisture, and its action can be best counteracted by the presence in the soil of a large proportion of humus. Humus is the product of decaying vegetation chemically acted upon by the organisms in the soil, and by weathering. It is the soil constituent most amenable to cultivation, and the one containing most soil moisture available for crop production.

No hard-and-fast rule for moisture-conserving can be laid down to cover any extended area. Local conditions have a great deal to do in the matter. In the northern reaches of Manitoba there is generally a superabundance of rainfall; that is also true of some parts of the Territories. Clay and peat soils are naturally better adapted to the conserving of moisture than loam or sandy soils. Soil in which sand largely predominates is so susceptible to the effects of capillary attraction and evaporation that it would seem an impracticable matter to materially diminish the condition. Loam, however, is more retentive of moisture and the higher the percentage of humus it contains the greater in proportion will its retentive powers be. Humus is the greatest known moisture-conserving agent, and where it constitutes a high percentage in the soil, moisture is conserved without much aid from the cultivator. The reason of this is that humus, because of it. ponge-like character, is enabled to hold moisture in larger quantities than any of the ordinary clays, sands or loams, and when this retentive power is assisted by the formation of a mulch or dust blanket which interrupts the rise of moisture to the surface the water content of the soil is at a maximum. Where humus is scarce, cultivation has a proportionately less influence, and in light sandy soil it is almost impossible to make a mulch on the surface; hence, it is that rarely do we find a heavy grop on soil which is constituted chiefly of sand. Although such soils may contain all necessary plant food in sufficient quantity, it is only in seasons when the rainfall is sufficient to keep the soil supplied with moisture that the crop receives the full benefit of the plant food, for all plants feed through very minute root hairs, and plant food to be available for these tiny feeders must be in a state of solution. Clay soils will absorb a great deal more moisture than sand or loam, and such soils have also a far more retentive power in regard to moisture. All soils, however, can be improved by the addition of humus for several reasons. Farmyard manure is the most general way of enriching the soil by the addition of humus. Plowing down eavy stubble is also a plan to the same end. It my be, however, a plan which will defeat its detery coverst over, and peeted so as to leave dr. weather.

arrangement attached to seeders, known as a press-wheel, is one that gives very good results in dry soils. Different soils require different treatment, and the treatment must also vary with the climate, so that the matter is one for the study of every farmer, each approaching the case from the conditions prevailing in his own few weeks at the farthest to load wheat right particular location.

Prize House Plans. WOOD SHED



GROUND FLOOR PLAN

The accompanying plans of a farmhouse were designed by W. B. Van Egmond, Toronto, and won first prize in the Massey-Harris competition, Toronto Exhibition, 1903.



FOUNDED 1860

cultivating with a light harrow after rolling. An would be a strenuous and continuous rattle of the harvester from January 1st to December 31st. during every hour of the twenty-four of each day This is not only novel, but, from many standpoints, important. For instance, with the present facilities for communicating with every harvest belt in the world, it would require but a from the thresher any month of the year and get it to any possible famine center that might develop in any part of the world. So it is clearly apparent that with the proper impulse of charity there need never be a famine in any part of the world, of any great duration, at least. Incidentally, also, wheat-growers may learn from these facts the magnitude of the wheat belt .-[lowa Homestead.

Temperature of the Soil.

The variation in temperature in soils of differ ent texture is very noticeable in most soils. It often happens in our prairie soil that for the first three inches during the first two weeks of seeding the soil is below that temperature at which plants can grow, and anything which can be done by the farmer during that period to increase the warmth of the soil has a distinct advantage in hastening plant growth during the early spring. The consensus of opinion of practical men in this country is that the early crops are the safest and bring the best results. The warmth of the soil bears a close relationship to seed germination and plant growth. The experiments which have been carefully conducted at experimental stations in the United States go to show that while wheat, rye and oats germinated most quickly at a temperature of 77 degrees to 87 degrees F., corn required about 98 degrees-of such is the difference in the amount of heat required by different plants. For most plants 41 degrees is the lowest temperature at which the development of tissue will proceed, and 80 degrees the most favorable. It will hence be seen that the earlier in spring that the soil can be stirred and the temperature raised the sooner will plant growth begin, and the earlier will harvest-time appear.

Dakota Grain Inspection.

Evidently all the difficulties connected with grain inspection are not confined to this country. The Grand Forks Herald, in dealing with the matter, says

A very large number of the farmers believe that inspection boards and their employees are influenced in many cases by a desire to curry favor with the elevator interests, and there have been some occasions on which this has been proven. Possibly the extent to which this unfairness exists is exaggerated. But the conditions seem to encourage rather than discourage it. Grain raised in North Dakota is shipped to another State, and is inspected under the laws of another State, by men over which the North Dakota farmer has absolutely no control, in whose appointment he is not consulted, and who are not responsible to him in any way. If fraud is committed he is obliged to call on the authorities of another State for redress. This is certainly not an ideal condi-

134



FIRST FLOOR PLAN

Rattle of the Harvester.

Those who are curious enough to verify the datament of fact in this article can easily do so i they have access to a good compendium of the would's products, or a cyclopedia. By doing so they will learn that this old world of ours is encould it in some central station, with telephone scale furners counterast that elect by connections with every section of the world, there

Distribution of Seeds.

Attention is called to the distribution of samples of seed grain to farmers who apply for them. Parcels will be sent out without charge to the applicant in lots of four pounds of oats and five pounds of wheat or barley. The grain will be in every case tested samples, most of which have been grown at the Experimental Farm, Indian Head, for the Northwest Territories, and at Brandon Experimental Farm for Manitoba. Application should be made early to the Director, Experimental Farms, Ottawa. Should a farmer desire to grow a certain variety of grain, he has the advantage of getting the best of seed, and has only to find out by practical test if it be suitable to his particular locality before sowing it extensively. Much risk may be avoided and much money saved by taking advantage of the provisions of this institution.

Mammoth Clover at Brandon.

At the Brandon Fair last year, C. Langstaff made an interesting exhibit of Mammoth Red clover. In reply to an enquiry regarding his experience with this valuable legume, Mr. Langstaff writes the "Advocate" that it has been growing in an old berry patch on his farm for the last five years, its only protection being a fence on the east side. It comes up every spring and grows to the height of three feet. He has saved some seed and intends trying it on a larger scale next year. The "Farmer's Advocate" would be glad to hear from others who have had any experience with this or other varieties of clover, either in Manitoba or the Territories.

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JANUARY 27, 1904

THE FARMERS ADVOCATE.

The Daughter's Portion.

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Sir,-A writer in a Scottish paper recently called attention to a malady which, it seems, is as prevalent in the British Islands as in Canada, and which, like the hobgoblins of our childhood days, has the rather peculiar attribute of existing, for the most part, unnoticed, most of all, by the very persons upon whom it fastens itself most firmly. < This malady is a somewhat difficult one to diagnose. Were it not that it exists among the most affectionate and "feeling" of people, one would be inclined to think that its chief symptom is insensibility; and were it not that it is to be found in those who have never yet even been obliged to wear "spectacles," one might think its presence due to an alarming degree of short-sightedness at least, if not partial blindness. In short, the malady to which we refer is the almost wicked neglect of which many of even the best people are guilty in failing to make any provision whatever for their daughters.

The daughters come into the world helplessly, utterly irresponsible, so far as their existence or choice of sex is concerned. They find themselves in it, and that is all there is to be said about it. While growing up they are, in all probability, used well, clothed, fed and petted, happy as birds in June, free as the winds that blow, with no thought of the struggle for food and clothing and shelter which engrosses the great mass of mankind, and should be a matter of disregard to none. There are brothers in the family, too, and all are happy and prosperous.

But to too many of these girls there is all too likely to come a day of rude awakening. Possibly the father dies, and the old home passes into the hands of the eldest brother. This brother soon finds someone more necessary to his happiness than the bevy of sisters, who now become to him, though he may be ashamed to own it, somewhat in the way. The "upshot" of it all is that, one day, he brings home his bride, and from that hour the sisters realize that, much as they have loved the old place, hard as they have worked in it and for it, for them it is now no longer home." At last they know what it is to say "I have no home." . . . This is no fanciful We have in mind one which, we have no case. hesitation in saying, is duplicated-no, multipliedmany times over each year in every township in the land. A "comfortable" Canadian farmer had a large family of boys and girls. All worked at home, the girls doing as much, in proportion to their strength, as the boys, and the family was an exceptionally happy one. Some of the girls married, but there were still three who did not. At last came a year in which both parents died. The entire property fell into the hands of the boys, five or six hundred dollars only being left to the girls. In a short time the boys all married, a neighboring girl coming on the old There was no disturbance. The homestead. sisters did not expect their brothers to remain "single" on their account. Nevertheless, at more than thirty years of age, they found themadrift on the world. ractically without any experience in breadwinning, with neither training nor knowledge of any market value, and with a pride (albeit a false and foolish one) which made the idea of going out to domestic service as gall and wormwood to them. Bitterest of all was the thought of leaving the old home which their hands had helped to make beautiful, and which was invested with the sanctity with which "home" can only be enshrined to a woman. Yet, girls left in such a predicament as this must live. They cannot remain where they are not wanted; hence, before them are two alternatives-they must either marry somebody at once, or turn out and earn their own living. Possibly there is a chance for a happy marriage. Then the problem is solved in the easiest way. On the contrary, an opportunity of any kind of a marriage may not present itself, or one may come which is repugnant to every inclination of the girl's nature. Rather than face the Charybdis of the future, filled with the horrible things with which her imagination, all untrained in the experiences of the world, is likely to people it, many a girl, more willing to put up with evils whose name she knows than to risk encountering unknown ills in knocking about the world alone, lets herself drift with the current, and marries the man she does not care for, simply for the sake of the home he can offer. Only when it is too late does she realize the mistake she has made. It is true that, occasionally, the girl who "marries for a home" seems to come out all right. He may prove better than she thought. or she may be endowed with the stolid, easygoing sort of a nature that is easily satisfied, with food and clothes, and money to spend. But to the highly-strung, intellectual, finely-constituted girl the experience is a different one. She can-Contra at

not attune her sensibilities and longings for the highest and best of things to the lower level of one who is, in every way, perhaps, coarser and less noble than she. She feels that her promise to "love" has been a lie, and that she is living far below the standard of the ideal wife she has thought of. she feels that her whole life is a living lie, and little wonder is it if she becomes warped and soured-the very opposite of the woman she would be. Such a career as this is truly "death in life." . . . And yet, to how . . . And yet, to how many parents the only thing seems to be to get their daughters married off to the first '' respectable," well-to-do fellows who offer themselves. It is worth remembering that there are respectable people and respectable people, and that the matter of temperament is quite as important as that of respectability.

On the other hand, suppose the girl has enough strength of will to form the decision of making especial talent or ability, her path is not likely to be strewn with rose leaves. Perhaps she is willing to encounter a few thorns, but she has a right to a reasonable amount of happiness, and a rather continuous thorn is likely to be the trouble of finding a desirable situation. Constitutionally, she has not the strength to turn her hand to " any old thing," as a man can, and with neither training nor experience, she is likely to encounter a good many closed doors.

provided for ?" The Hindus of earlier times something else must be done by the parents who cooled before it is disturbed. profess to hold their daughters dear.

In answer, we shall quote from our Scottish writer, who, in seeking for a solution to the problem, seems to have hit upon more sense than "There are some things," he says, nonsense. that the French manage better than we, and one is their systematic attempt to make a provision for their daughters. When a baby girl is born, the father-if he have any respectability or thrift-begins to lay past a yearly sum for her . Let the infant have a bank-book dowry. from her birth, and the father add to the account every year according to his means. When she reaches woman's estate, this sum may form her marriage portion, or it may put her through a business training involving more expense than the father's income could stand. It may stock a poultry farm, or start a market garden, or it may lie untouched, accumulating till the day when she will be left homeless. The surest provision of all is to put her in the way of earning her own Farmers' daughters are so fortunatelivelihood. ly situated that many of them can stay at home and have a business of their own at the same time. Let one make a practical study of poultry, or cheese, or horticulture, grasping at all means open to her of perfecting herself in her own branch. Not only will she be worthy of a wage at home, but in case of need she will have a good chance of finding a situation elsewhere.

We believe in our Scottish writer's advice that it hurts no girl to have an independent means of earning her own living. Whether the choice be dairying, or gardening, or poultry-raising or teaching, or sewing, or cooking, or journalism, or typewriting, or bookkeeping-whatever it may be-her training in it should be as thorough as possible. There is little room in the world to-day for unskilled workmen. Moreover, the work should be congenial. It is not enough to say "Mary must sew," or "Mary must teach." Mary's taste and ability should be consulted. She will probably have hard work to do, no matter what line she enters upon, but that work may be a happiness or a misery to her, according as it is the thing she is adapted to, or the contrary. By all means, let Mary feel that she has strength within her right hand, and that the fear is forever removed from her. In one way or another, provide for the girls. One question Setting entirely aside what custom in closing : may prescribe in the Old Land, when the Canadian farmer makes his will (which every prudent man should do in good health), why should not the daughters receive a fair share of the property which her toil has helped to create? THE TOILER.

An Inexpensive Lime Kiln.

on the ieron, choose a steep Linst e. and

Provine a quitaisy

shown above, having

the arch projecting

well out in front, to

support the earth

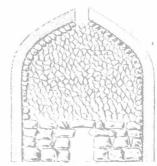
covering the face of

the kiln. As the

limestone is placed

in the kiln, the out-

of large rocks, and make an arch, a



Arch for Lime Kiln

side next the earth should be lined with hard rocks. The limestone her own way in the world, unless endowed with should be built in a conical pile, and the front and top covered with earth, leaving an opening for a chimney.

A MORE SIMPLE WAY

A more simple way of burning lime, if only a small quantity is required, is to build an arch of large rocks on level ground. Immediately over the arch place a layer of good, dry wood, then a layer of limestone, and so on alternately to the top of the pile. The whole is covered with earth, So the question arises, "How may the girls be at least a foot or fourteen inches thick. Insert a length of stovepipe in the top to give more solved this question very easily by dumping the draft; keep a good fire burning beneath the arch. superfluous daughters into the Ganges, but, since and regulate by a door in front of the arch. It our civilized government might interfere with will take four or five days to burn the lime suffisuch a proceeding as that, it would seem that ciently. Be sure that the lime is thoroughly

WESTERN FARMER.

The Wheels of Wagons.

With the object of throwing some light on the question of the influence of the width of tire and height of wheels on the draft of farm wagons, the Missouri Experiment Station conducted some practical tests, a summary of which is here given. The series of trials was made on macadam, gravel and dirt roads in all conditions, and on meadows, pastures, cultivated fields, stubble land, etc. With a net load of 2,000 pounds in all cases, three sets of wheels were tested, as follows : "Standardfront wheels, 44 inches; rear wheels, 55 inches. Medium-front wheels, 36 inches : rear wheels, 40 inches. Low-front wheels, 24 inches; rear wheels, 28 inches." The results obtained and conclusions reached were, in brief, as follows:

For the same load, wagons with wheels of standard height drew lighter than those with lower wheels. The difference in favor of the standard wheels was greater on road surfaces in bad condition than on good road surfaces. Low wheels cut deeper ruts than those of standard height. The vibration of the tongue is greater in wagons with low wheels. For most purposes wagons with low wheels are more convenient than those of standard height.

Wagons with broad tires and wheels of standard height are cumbersome, and require much room in turning. Diminishing the height of wheel to from 30 to 36 inches in front, and 40 to 44 inches in the rear, did not increase the draft in as great proportion as it increased the convenience of loading and unloading the ordinary farm freight. Diminishing the height of wheels below 30 inches front and 40 inches rear increased the draft in greater proportion than it gained in convenience. On good roads, increasing the length of rear axle, so that the front and rear wheels will run in different tracks to avoid cutting ruts, did not increase the draft. On sod, cultivated ground, and bad roads, wagons with the rear axle longer than the front one drew heavier than one having both axles of the same length. Wagons with the rear axle longer than the front one require wider gateways and more careful drivers, and are, on the whole, very inconvenient and not to be recommended for farm use. The best form of farm words is one with axles of equal length, broad tires, and wheels 30 to 36 inches high in front, and 10 to 41 inches behind.

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The Object of Tillage.

The first object of tillage should be to improve the texture of the soil. By texture is meant the size and arrangement of soil particles. An ideal texture is one in which the particles of earth are so arranged that water will pass readily in any direction and still be held in sufficient quantity for plant support. It must also be open enough that the tiny rootlets of plants can extend in search of food and sufficiently firm to hold the roots in place. The object of all well-directed effort must be to bring about this condition. But the methods of procedure must depend upon the physical nature of the soil and its mineral and vegetable content.

How Trees Breathe.

Besides giving out oxygen in assimilation trees also take in oxygen from the air through their leaves, and through the minute openings in the bark, called lenticels, such as the oblong raised spots or marks on the young branches of birch and cherry and many other trees, says a student of tree life. All plants, like animals, breathe; and plants, like animals, breathe in oxygen and breathe out carbonic acid gas. This process of respiration, or the breathing of the tree, goes on both day and night, but it is far less active than assimilation, which takes place only in the light. Consequently, more carbonicacid gas is taken into the tree than is given out, and the surplus carbon remains to be used in growing.-[Farmers' Review.

Dairying.

Breeding the Ayrshire Cow.

136

In recent years a good deal has been written about the Ayrshire cow, and various theories have been put forth as to her origin. About that we do not profess to know much. One thing we do know, we have now a distinct dairy breed, which every true breeder and fancier will endeavor to bring to the highest state of perfection, both as regards her appearance and also her rent-paying capacity. In Ayrshire, it is principally on the Ayrshire cow that a great many of the farmers have to depend for paying their rent, and it is of the greatest importance that they should have a stock of cows that will produce the greatest amount of rich milk on the smallest amount of feeding. To know thoroughly about breeding, you must serve your time to the trade, watch all the various habits of the cow, and study the different strains.

A great difference of opinion prevails as to what are the proper points of an ideal cow, but almost all thorough, practical breeders are pretty well agreed on that point. The greatest trouble is to produce what you would like to.

The following are what are considered the proper points of a good cow:

The cow should be of good size.

The head, a medium size, with the muzzle broad ; wide between the eyes, and the eye clear, bright and standing out prominently. The forehead should be wide, and the horns should stand well up, but not too long nor too thick, with a good width between the tips.

The neck should not be over-long, but free from any thick fleshiness.

The shoulder should be firm, with the blades fitting well into the body. The fore shoulder should be well placed into the animal, and not sticking out prominently. The animal, when not milking, should carry a nice thickness of flesh behind the shoulder, and should be well thickened out and deep around the lungs and heart, so that she may have room to do her work properly.

The back should be straight, and the ribs well sprung out from the back.

The hook bones should be fairly wide and prominent, but not too wide and pointed, for that and a high cutting shoulder means extra food to keep the animal in decent condition.

The hind quarters should be long and square, and the tail should lie nicely into same. The thighs should be fairly thick, but not bulged out and beefy, and the hock should have a nice, natural curve. The cow should have fine, flat bones, show good substance, be deep at the flank, and the flank should run well into the thigh.

The skin should be fairly thin and loose, and covered with a nice, silky coat of hair.

The udder, when filled with milk,

THE FARMERS ADVOCATE.

those two points, then get as many of the other points already described as possible. Next we come to the pedigree of the animal.

Many people run down pedigree and the herdbook Should a proper view be taken of it, there would be less said against it. There is no such thing as an unpedigreed animal. Every animal has a pedigree of some sort. Some have their pedigree correctly recorded, others have no record of their pedigree kept. Since animals show a strong tendency to breed back to some of the various strains they are descended from, it is of the greatest importance to know all the strains. Should no record of their pedigree be kept, you cannot know the strains.

The fact that an animal is entered in the Ayrshire Herdbook makes that animal no better nor no worse. An animal should not be bought merely because it has a properly-recorded pedi-Examine that pedigree, and if you there gree. find two or three strains you know to have been good doers, count value on that pedigree. on the other hand, you find two or three strains you know to have been bad doers, have nothing to do with that animal. In that case, the animal is the worse of having her pedigree record-To anyone who has not been following up ed. or studying the different strains, pedigrees can be of no use, further than showing that the animal is pure-bred as far back as the pedigree goes. It does not give any idea of what sort of an animal he is likely to get, further than that the prizes will be recorded, should she have won any. It is his own lookout to enquire into and learn what sort of blood he has there. In that case, in making a selection, some breeder or fancier should be employed who has been studying the different strains, or who, at least, will be in a position to find out whether it be good or bad blood. The greater the number of crosses of good blood you have in an animal, the greater tendency will that animal have to leave good offspring.

In showing in this country there are two classes, namely, those shown as one and two year olds (termed yeld stock), and those shown as Seldom does an animal which can cows in milk. win as a yearling and two-year-old take a prize as a cow in milk.

In judging cows in milk in this country, far too little attention is paid to the size and general appearance of the animal, and the size of its teats. In very many cases a good big, useful dairy cow, with good-sized teats, a fair milk vessel and like giving a good quantity, is beaten by a small, plain cow, having a very neat, tight vessel, not very large teats, and not very milky looking. In that respect, the Canadians are ahead of us in judging cows. They seem to go in more for what we call the yeld stock strain, and without doubt these are the more profitable animals in every respect.

Many people count a good deal on the color of the animal, but that is only a matter of taste. The most fashionable color now is white, with distinct dark-brown markings. They take the eye more readily, and look prettier when washed clean. For many foreign countries, brown and white of a distinct fleck is the color wanted.

The Outlook for Dairying in Canada.

By J. A. Ruddick, Chief of Dairy Division, Department of Agriculture, Ottawa.

A few years ago most people thought that cheesemaking in Canada had almost reached its maximum in point of production, and there were many also who believed that we had raised the standard of quality to nearly as high a plane as it was possible to get it. Further, it was generally considered that comparatively lower prices would have to be accepted in the future. I need not say that the prophets have been agreeably disappointed, and all calculations completely upset by the records and experiences of the past two seasons, during which period our annual exports have increased twenty-five per cent., while prices have been maintained at an extraordinarily high level. Again, it is admitted on all hands that the quality of

OUR CHEESE

has satisfied the British demands better than ever before. The heavy production during 1902-03 may be accounted for as follows :

(1) There was a slight extension of the cheesemaking industry; (2) the conditions were favorable for the production of milk ; and (3) the high prices encouraged patronage at the factories, and induced most of the combined ones to make cheese instead of butter. The most interesting point in this connection, and one which contains a valuable lesson to us, is that the high prices have undoubtedly been due to the fact that the cheese were of such a superior quality as to promote a steady, strong consumptive demand, which prevented the accumulation of stocks in sufficient quantity to glut the market. As a matter of fact it was the strong consumptive demand which kept the price up. It should be instructive, then, if we can determine the factor or factors which have been instrumental in bringing about this satisfactory result. I would say that the marked improvement which has characterized the quality of our cheese during the past two years is owing to the better methods employed in its production and the general improvement in buildings and equipment, and also to the fact that a large quantity of cheese was carried to Montreal in the iced cars arranged for by the Department of Agriculture, as well as by individual shippers, but there is no doubt that the remarkably cool weather which prevailed was the main factor in elevating the standard of our cheese during the past two years. It is estimated that the value of the output of Canadian cheese for the past two years has been increased to the enormous extent of at least \$5,000,000 as the result of these favorable conditions, and this estimate does not take into account the increased production, but is based simply on the increase over what might be considered an average value under ordinary circumstances. This sum, divided among 3,200 cheese factories in the country, means over \$1,500 for each one, which amount, if applied to the improvement of curing-rooms, etc., would go a long way towards securing a permanency of

those conditions which have proved so beneficial. On the whole, the present situation is full of encouragement to cheese producers, because it points out very clearly how the cheese industry may be placed on a safer and more remunerative basis. No stronger argument is needed to show the great importance of maintaining lower temperatures in the curing and transportation of cheese. These somewhat abstract deductions are fully corroborated by the practical results of curing cheese at different temperatures under various auspices.

FOUNDED 1866

long, broad and level, running well onto the belly and up behind. The teats should set well apart, and hang perpendicularly; be of a good length and a little pointed; have a nice thin skin, and a silky feeling. The milk veins should stand out large and prominent along the belly in front of the udder, with a good-sized hole where they go through the rim of the belly. When the cow is milked the udder should go well away, and hang like a nice, loose skin, and not be bulky.

The animal should be able to move in a free and easy way, having a nice jaunty gait.

All these points are not necessary for a heavy milking cow. A great milker may be almost any shape. The greater the number of these points combined with a good milker, the greater will be the value of the animal. Cows of that description will command a good price anywhere, and at any time.

Having secured the ideal cow, the next point will be to secure a good bull to mate with her to produce something equal to and better than either, if possible. The selection of a good bull is of the greatest importance, and to that the breeder should pay great attention. The points for a good bull are much the same as those described for a good cow, only have him stronger in all his points, and having a good masculine appearance. In all breeds, and in wild animals and in the human being, it is natural for the male to be erronger and not so finely and evenly shared as the found. Should you use a fine,

the stand beau which is a set of the stand beau and bea d could million Make wate of back

The feeding and management of the cow is also a very important part in successful breeding, but in this short article I have not space to take it up. ADAM W. MONTGOMIRIE. Ayrshire, Scotland.

Marketing Butter.

Those who possess the knack of making butter that has that fragrant flavor that distinguishes the product of many farm dairies, often make the mistake of keeping the butter on hand too long after it is made before marketing it. It will be found that however palatable it may be, and however good the flavor it possesses when first made, it will have escaped after too long keeping. Even when transported long distances it loses its distinctiveness while in transit. In fact, it seems that butter which possesses to a large degree this much-desired flavor deteriorates much quicker than that of an inferior kind. As a consequence of this, the farmer's wife who makes a superior article which has a local reputation for excellence should endeavor to dispose of the product to local trade, or, at least, sell it so near home that it will not be but a day or two between the churn and the consumer. This can be easily managed in almost any locality where there is a market for it by securing a list of private customers and furnish it to them direct as they need This class of patrons is much more profitable year in and year out than the city hotels or the ball, you are the commission houses or those consumers we have been buy in the general market.-[Drovers' Journal. the commission houses or those consumers who

> I the shard meeting of Manitou Creamery and successful a to whether the creamery subj be sum text years. Lack of interest in work appears to be the principal draw-

> > 8.

I venture to say that those engaged in any other line of industrial enterprise of equal magnitude would never neglect to avail themselves of such a sure means of increasing the vevenue from their operations.

As regards butter, the situation is somewhat different. In the first place, the fact should not be overlooked that we meet very much keener competition in supplying Great Britain with butter than we do with our cheese. We have practically no competition in cheese. New Zealand sends a comparatively small quantity, which varies greatly from year to year, and, on the whole, is likely to decrease. The United States supply is also diminishing, and will undoubtedly reach the vanishing point before long as their home market Some people are fond of dilating on the grows. fact that we have captured the trade from the Americans, but that is hardly correct. The output of cheese has increased eighteen per cent. in the States during the past ten years, but the bulk of it now finds a better market at home, and only the surplus is exported. It must not be assumed that we can afford to be careless or indifferent because we have the trade practically in our own hands, for if we do not furnish the British consumer with the kind of cheese that he wants he will eat very much less of it, and the trade will be lost in that way.

OUR BUTTER.

Our competition in butter comes principally

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JANUARY 27, 1904

from Denmark, New Zealand, Australia, Russia and the Argentine. Large quantities are imported from other countries, but their product

does not meet ours in such direct competition as that from the countries named. The superiority of Danish butter is well known. It sells for one to two cents a pound more, on the average, than Canadian. Yet, some Canadian butter is just as fine in quality, as evidenced by the fact that it is frequently sold for Danish. New Zealand butter is securing a front place for quality, and it has the further advantage that every box of it is exported under a thorough grading system, by which it is divided into three grades, so that a buyer knows exactly what he is getting. The imports of Russian butter into great Britain have increased 700 per cent in eight years, and the authorities there are sparing no effort to increase the production, and at the same time improve the quality. The Siberian Butter Gazette is authority for the statement that \$90,000 is being spent this year on dairy instruction alone, in European Russia and Siberia. I mention these facts not to discourage butterproducers, but to show exactly what we have to contend with. That is a very important thing in any contest. Our splendid natural facilities for buttermaking and the intelligence of our dairymen should enable us to cope with any competition that we may meet, but we must exert ourselves to do it. Slipshod methods will not suc-The paramount need of Canadian butterceed. making to-day is better facilities for controlling temperature and keeping the butter COLD immediately after it is made and until it reaches the consumer. Butter is often found by actual test to have a temperature as high as 54 degrees when delivered in refrigerator cars. How many creamery managers ever put a thermometer into a box of butter to find out how the temperature is maintained in the refrigerator ? The average creamery refrigerator is only an apology for that necessary part of the creamery equipment. Another defect in our system is that there are too many men operating creameries who are almost wholly ignorant of the requirements of the business. I am not referring to buttermakers now, but to proprietors or managing directors. The manager of a creamery, whether he is the proprietor or not, stands in the same relation to the patrons, who own the product, as the manager of any other manufacturing concern does to its owner. Surely, then, it is the business of the patrons to see that their milk is manufactured at a place where the manager knows his duties and performs them. Unfortunately, the average patron thinks he is doing good business and serving his own interests by squeezing the price of manufacturing down to the lowest possible limit. The result is that the price for making both cheese and butter is absurdly low-too low to expect good service to be rendered. The actual cost of manufacturing has increased of late years, and the more exacting demands of the markets call for additional outlay. It would be a much wiser policy on the part of the patron to pay a fair price and then demand a better service in return. A half a cent a pound, properly applied in the manufacture of patrons that difference which now exists in the price of Canadian and Danish butter. Indeed, there is easily one cent a pound difference in the selling price of different Canadian creameries. How many of the patrons who get the lower price realize that it is almost wholly a question of management?

THE FARMERS ADVOCATE

Poultry.

Producing a Laying Strain. EXPERIENCE FROM B. C.

Now that incubators and rearers have reached such a high state of perfection, there is no reason why every farmer should not take advantage of them, and aim at a higher grade of poultry than is to be found on the average farm. Now is the time to select the birds to breed from for next winter's lavers.

In hatching out chicks for winter laying pullets, it is best to use eggs from one-year-old pullets and two-year-old cock; the chicks should be hatched between the middle of March and May, then they will not moult the first season; for the first twenty-four hours no food should be given, as they are provided for by nature for this time. then give hard-boiled eggs and bread crumbs mixed with milk that has had the chill taken After the third day a little oatmeal may be off. introduced, mixed stiff enough to crumble ; after that a few groats (hulled and crushed oats or wheat) should be given, also a little finelychopped green and underdone meat.

At first chicks require to be fed every two hours, and when a week old the last feed at night should be bruised oats and barley. Always see that they have a liberal supply of pure water, which should have been previously boiled. Do alas ! few are left of the old guard. S. Ling not give more food than will be eaten at a time; of Fort Rouge, Winnipeg, is, perhaps, the sole



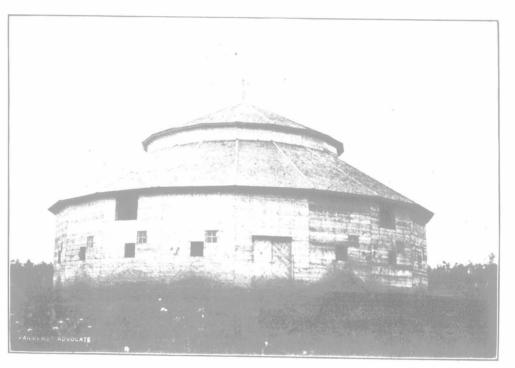
Sometimes a fowl which has hiverto appeared perfectly well is observed to stagger about, holding its head either to one side or tilted back a good deal. It has got a brain seizure, and if not quickly treated will soon die. Very frequently indeed, it does perish, despite any creatment. Such troubles are generally caused by gross over feeding. The treatment is to remove the affected bird to a rather dark place of moderate temperature, and feed very sparingly on bread and milk. First of all give a good purge of Epson salts, and follow twice a day with a powder composed of three grains antipyrin and two grains salicylate of soda; mix with a little moistened flour, and put over the bird's throat. A few drops of acid. hydrobrom, dil. put into the drinking water (keep in-an earthenware vessel) now and then, as the bird is recovering (just as much as will slightly acidulate it) will help to bring her round. Keep away from all male birds or other feathered stock until recovered. A common barndoor fowl is not worth such treatment, but many a fancier would be glad to save a good specimen of a pure breed, if possible.-[Ex.

The Manitoba Poultry Association.

Chatting with an old-time poultryman recently, I gleaned from him many reminiscences of the poultry fancy during the early days of the Province, and was astonished to know that an association of poultrymen existed in 1883, '81, '85, Twenty-one years ago the feathered beauties had their admirers, and under the leadership of Captain Graham an association was formed, but.

> resident survivor of the fancy of the good old days. The association had a short, and, we hope, a merry existence. Politics was allowed to creep in, and, apparently, feathers and politics did not mix well, for disruption ensued.

> Later a Mr. Bartlett essayed his hand at associatio 1 making, and with greater success. About the year 1888 an exhibition of poultry was held in the old Wesley Hall, and the tales of those old shows would fill a book. The membersh i p was about twenty, and about 200 birds



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As it is to the export of creamery butter of the finest quality that we must look for the further expansion of the dairy industry in Canada, it is important that we face these questions with a determination to improve.

Give the Address.

Some of our readers are overlooking the rule that all communications and questions for answer must be accompanied by the name and address of the writer. This is imperative. We cannot undertake to deal with enquiries that are frivolous or which may not be genuine. We gladly expend large sums to furnish our readers with trustworthy information, and do not require the names for publication, but simply as a guarantee of good faith.

Wales shows him to be no greater a lover of studies shan hen and Black Minorca cock surpasses all than his grandparents, the present King and Queen of others. The house must be kept very clean ; the England, were. The little Prince has a profound distaste for arithmetic, and all things else mathematical. Many times has the future heir to the throne of England beer put in the corner for his naughtiness. Not long ago, when he saw his governess take out the books infested with insects. In winter the morning and slates ready to prepare for the day's lessons in the feed should consist of boiled potatoes and barley particular branch of education he above all others disliked, he said, quietly: "I don't believe I'll do and raw meat, giving hard corn (mixed) at night. 'rithmetic to-day. I'll go into the corner again, if you don't mind." Away he marched like a little soldier, are caused in this way. A little salt added leaving a much astonished governess wondering what occasionally helps to keep them in good health. was to be done.

Thos. Henderson's Earn, Strathcona, Alberta.

vary the diet as much as possible through the Reid, J. Lemon, Man.; Dr. Hinman, S. Wise, and day. When about four or five weeks old remove C. Rolston. Exhibitions were held annually them to a house provided with a good run; let, them lie on straw until their bones are set-they will be warmer and less liable to crooked breastbones than if allowed to perch. See that they have plenty of sharp grit. As soon as you are able to pick the cockerels from the pullets remove them to separate pens, and do not let any male birds run with the pullets until the middle of September. It is well that only a few birds be kept in each pen, about nine females to one male; if more are kept it will be necessary to have two cocks. We have often found this to be the cause of eggs not being fertile, as the cocks hinder one another from mating. By the end of December those that have proved their winter-laying qualities should be separated to a pen by themselves Then choose a cock that is known to be of a good laying strain, and breed your next year's birds from these only.

By carefully selecting your pullets each year in this way you will soon have a reliable strain. It A recent anecdote about little Prince Edward of has been proved that a cross between the Langinside lime-washed every three months, and all droppings gathered up twice a week. Good light and ventilation must also be provided : houses that have but little light are very liable to be meal given warm : at midday a little green food Never let the birds get too fat, as many injuries Coquitlam, B.C. E. T. BIGGS.

faced the judge Among the exhibitors were Messrs. Ling,

under the auspices of this association until 1899 the show was held at Brandon. The membership during this period had been increasing, and included many names from country points besides Brandon, notably J. Kitson, of Macdonald, and J. Mullens, of Cypress River.

The Manitoba association having been launched now as a provincial association, the Winnipeg fanciers started a local association.

In 1900 Winnipeg held the exhibition, Brandon again in 1901, Winnipeg in 1902, and in 1903 another town was applying for the Provincial exhibit at Virden. It was considered a doubtful experiment, as Virden is comparatively ten a small town, but the President, Me Hidrinho have led his staff well, and all worked his has (though I don't know how they work), and the cess in every way.

This year the exhibition is being held in Brandon, and will, we trust, he a greater success than any of its predecessors

Illustrating the happy-go-lucky methods of the old days, an incident was related that is a little A deputation was appointed to wait upon the then Premier to appeal to his generosity and give the Poultry Association a grant from the public treasury. The auspicious day arrived, and in boiled shirts, standup collars and wellcleaned boots the deputation nervously awaited their introduction to the great man

But, alas, along comes " Jimmy." " Jimmy " knew every one, knew the deputation, and enquired the reason of the clean boots and boiled shirts.

Introduction to the Premier?" repeats Jimmy. "No need to wait for that, you'se come along of me, I'll introduce you."

Like lambs being led to the slaughter-house,

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the deputation followed "Jimmy" into his presence. When they met "Jimmy" he was smoking a black cigar, and had his hat cocked, at the back of his head, and both were kept in the same places during "Jimmy's" introductory speech, which ran thus

"Here, Mr. Premier, here's some henmen here, come to pull your leg. They know better'n I do what they want, so I'll leave 'en with you.'' And "Jimmy " left; later we left; and later still we found the Premier had left-the henmenfor they didn't get that grant.

Many discouragements and much uphill work has been surmounted, and now the Manitoba Association stands upon a pretty solid foundation. But it must grow, not merely in numbers within its present sphere, but by increasing the interest in other localities, forming associations in other towns, and sending the annual exhibition to those towns to stimulate and increase the poultry industry in and about those various localities. A. B.

Ducks and Winter Laying.

Ducks, as a rule, do not lay well in winter, if we except the Indian Runner breed, and yet eggs at this time are very much wanted by those who hatch and rear early ducklings for market. The eggs of the Runner can be had without much difficulty, but this breed is of little value for the purpose referred to. breed which grows quickly and puts on plenty of flesh of fine quality is what is wanted. Good condition, without being overfat, is what is demanded in the stock birds, and, in addition, they must be provided with comfortable quarters, and supplied with good and stimulating food. Animal food must form a liberal share of their diet. Ducks can stand a lot of this, and during the winter they lay all the better for it. Cooked vegetables, such as cabbage and turnips, are also very necessary, and should always accompany a diet rich in nitrogenous elements. Mere fat-producing food is of little value, though a certain amount is necessary to supply the carbon demanded by the low temperature of winter. In this respect, corn meal is take, and one very apt to result in loss. On the useful, but should be combined with one-third its bulk of bran.

A cross between Pekins and Aylesburys often produces ducks which have a tendency to lay earlier in the winter than the pure-bred parents, and it often suits to cross these birds another year with pure Aylesbury drakes. When Indian Runner ducks are crossed with Aylesbury drakes plenty of early eggs are secured, and the young ducklings are fairly satisfactory growers, but if this cross is again mated with an Aylesbury male the results are generally very satisfactory. Eggs can usually be got at the time they are wanted, and the ducklings grow fast, and put on a lot of meat. If the top prices are usually secured by pure-bred Aylesburys, the latter cross, at any rate, ranges high up, and, everything considered, is very satisfactory.-Ex.

Manitoba Poultry Show.

The prize-list of the annual Provincial Poultry Exhibition being held at Brandon, Jan. 26th to 29th, is a well-prepared volume. It shows liberal prizes for all the breeds of poultry represented in this country, and a few specials of mor ordinary value. There will be an auction sale on at least two supers. For extracting, of course the last day of the show, when farmers desiring an extractor is needed, and a knife for cutting will have an opportunity of doing so.

THE FARMERS ADVOCATE.

for the room and the care required. In this way one gets a knowledge of the subject, such as can only be gained by experience, without subjecting himself to the risk of a heavy loss in case of failure. He also gets a knowledge of the capabilities of his neighborhood for honey production, and can confine his stock to one colony or increase it to a hundred, as experience warrants. Of course, there are stretches of prairie so bleak and bare that bees cannot be expected to be commercially profitable there ; but even in such places, if the homes are being improved as to appearance and comfort by the planting of shelter belts and shade trees, as they should be, there is no reason why those homes should lack the cheerful and companionable hum of bees about the door, or their wholesome and delicious product on the

Shelter from north and west winds can easily be provided for a few hives by trees and shrubs, or even a close board fence, and also some shade from the meridan sun. These are necessary, and if provided the little workers are sure to give a good account of themselves ; though it is not to be expected that even then such results can be obtained as in localities where bush is plentiful. Here the honey-bearing flora is more abundant, and, apparently, more rich in nectar, owing, no doubt, to the better conservation of moisture in the soil of such localities. Such situations, too, afford the bees great advantages in windy weather. There are many days when bees cannot work on the open prairie on account of high winds, but vet can forage quite successfully in the bush.

Now, to return to the point of starting : One should at once procure such a book as the "A B C of Bee-culture," and read it up during the winter evenings. This will assist one greatly in consulting it when the occasion arises-as it certainly shall pretty often.

If the start is made with one colony, this might easily be increased to five or six, or even to ten, during the first season, if so desired, but it would be a risky thing for a beginner to underother hand, by providing lots of room it might be kept from swarming altogether, and a yield of honey procured which would pay not only for the bees but go a good way towards paying for the small outfit necessary for such a start. The best way of all, and perhaps the most con-venient, would be to allow it to swarm once. This would increase the beginner's range of experience and his stock as well, without to any great extent lessening his honey harvest.

WHAT IS NECESSARY FOR A START.

Starting with one colony, at least two spare bives, complete with frames and comb foundation, should be provided. If extracted honey only is to be the object, a complete hive will mean a hive of two equal-sized bodies, with movable bottoms, so that one may be set on top of the other and both accommodate the same size of frames. If comb honey is to be sought, half-stories, or "supers," with their necessary complement of sections, section holders and separators should be provided. In this case a complete hive will the cappings off the combs. A veil, gloves, and a good smoker are also things that beginners ought to have, though with experience these are liable to fall into disuse.

FOUNDED 1866

Events of the World.

Russia vs. Japan.

Reference to the map will, perhaps, help to make references to the Far East question more intelligible. To the north is Siberia, Russia's great territory in northern Asia, traversed by the Trans-Siberian Railway, which, running from St. Petersburg in Europe to Vladivostock, is about 6,585 miles long. Lake Baikal, over which trains must be transported by ferry, greatly impeded by ice in winter, is its greatest drawback. Manchuria is nominally a Chinese Province, rich in undeveloped resources, with a territory about six times as great as England and Wales. Manchuria has, however, been drawn almost completely under the Russian control. The branch railway running from Kharbin to Port Arthur was bulit by Russian capital, in order that Russia might have a port (Port Arthur) which would be free from ice in winter. Corea is an "independent" country, at whose head is an emperor. Both Japan and Russia have coveted the possession of Corea, and Japan's anxiety as to the continued occupation of Manchuria by the Russians is due to the certainty that, with possession of that Province, Russia's next move would be to obtain Corea, a consummation which would be full of menace to Japan herself, and prevent her ambitions of expansion.

Rich gold fields are reported from the vicinity of White Horse, Yukon. Access to this place is easy, and a rush of miners is predicted for the spring. -

Within the last two weeks, \$5,000,000 from Japan has entered the United States to pay for wheat, flour and munitions of war. Russia is also buying heavily from the U.S.

The Lapps are in danger of starvation. Their entire wealth consists of their reindeer, which, owing to the inclemency of the weather during this winter and last spring, and the scarcity of reindeer-moss, have been dying out, leaving the Lapps in a deplorable state of want.

Arrangements for establishing a Boer colony in Montana are almost completed. The selection of Montana has been made by General Joubert, on the recommendation, it is said, of Jas. J. Hill, President of the Great Northern Railway.

Colombian troops are reported to be on the march toward Panama. The troops of the Isthmus are ready for them, and, to the number of 12,000 lighting men, have enrolled to defend the three passes by which orly access can be had to Panama. The Isthmians say that at these passes a few soldiers can keep at bay a great army.

A wonderful new motor has been invented by Peter Thornley, an engineer at Burton-on-Trent, England. It is said by experts that its development may result in railway engines running twice the present speed at onehalf the cost, and that by its use steamers may possibly be enabled to cross the Atlantic in 'hree days.

Apiary.

Getting Started with Bees.

By J J. Gunn, Gonor

Among those who have begun the new year with resolutions to be better and to do better during the next twelve months, there are some it would appear, who have decided to make their homes more cheerful and more interesting for the young folks growing up there, and, incidentally, provide an additional way to put money in their purse, by placing a few hives of bees in their That this is the case, some enquiries dooryards. already received go to show. These enquiries also go to show that not all who have made this commendable resolve have a knowledge of beekeeping, or even know how to begin. They are timely, however, and besides replying privately it seems to me that some discussion of the points raised, through the columns of the "Advocate," could not fail to he of benefit to many others.

HOW TO START, AND WHERE TO LOCATE

" start small " is good advice to anyone who to be edited and starting in that way

ASIA OR LAKE SIBER, BAIKAL KHABAR OVS TRAM HARBIN OKIRIN PEKING S C DALNY SEOUL m 5 TOKAL 0

Scene of the Asian Crisis,

It can be worked either by compressed air or by steam.

The latest news from the Balkans is to the effect that the situation in Macedonia is becoming every day more critical. The military forces sent by the Turks to keep the peace have ejected the people from their huts, and have taken possession of them themselves. The villagers have lost hope, and are fast becoming

ripe for the fresh insurrection which the Bulgarian Revolution Committee hopes to bring about in the spring. In anticipation of an early movement, the Turkish troops have begun to concentrate at Kumanova, on the road leading to the Bulgarian frontier. A cursory explanation of the situation, which is extremely complicated, is as follows: The Macedonians (under which term are included the Greeks, Serbs and Bulgars who live in Macedonia) have long realized that under the sway of the Sultan of Turkey they can make no advance in civilization or prosperity. Moreover, they have been distressed by heavy taxes, robbery and the insecurity of their lives in a country of Mohammedan rulers, to whom Christians' lives are of less account than those of the vermin of the earth. Again and again they have broken out in revolt, and have called upon the powers of Europe to intervene in their behalf, but without avail. In October last, the insurgent troops had several brushes with the Turks, in which now one side, now

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JANUARY 27, 1904

another was victorious, and in which the loss Throughof life amounted up in the hundreds. out their struggle, the Macedonians have had the sympathy and aid of the Bulgarians, who have thus embroiled themselves in the affair. Their demands have chiefly been for autonomy, or self-government. Nevertheless, it is generally held that the rebels must realize that they cannot form a peparate government of any

stability, and that, since their main desire is to escape from Turkish misrule, and, at the same time, to avoid the possibility of Russian rule, which they dread, they would not object to partition of their territory between Bulgaria, Servia and Greece. Coveted by Russia and Austria on the north, by Italy on the west, and harassed by persecution within, the Balkan Provinces are indeed in a precarious situation.

Word has been received that Moosha G. Daniel, a Persian who attended Knox College, Toronto, some years ago, and who lectured in various parts of the Dominion, returning subsequently to Persia as a missionary, has been murdered by Mohammedans. Mr. Daniel is also known as the author of "Modern Persia," and other works. As he took out naturalization papers as a British subject while in Canada, it is likely that the British authorities will demand an explanation as to his untimely death.

The advice given in the first bull issued by Pope Pius, which was recently given to the public, is worthy of consideration by Protestants as well as by the Catholics, who will, no doubt, be influenced by its pacific teaching. It has been principally directed, in the interests of peace and the welfare of the social fabric, against the actions of lawless strikers. "Laborers," he says, "must not damage the property or injure the person of their employers, and must abstain from all violence." On the other hand, he demands that capitalists pay fair wages, and that they do not impose on their employees tasks beyond their strength.

British and Continental Jews have formed a Jewish Emigrants' Information Society, whose purpose is to supply to the oppressed Jews of Europe, information as to the most suitable countries for the establishment of Jewish colonies, also to aid emigrants in obtaining transportation, and in getting settled in new lands. Leopold de Rothschild and many other prominent Jews are named among the directors of the Society.

Letters received recently in India from Colonels Younghusband and MacDonald state that the British are encountering many difficulties in proceeding through the unknown, mountainous regions of Thibet. They have been met at various points by bodies of armed natives, who, however, have, as yet, permitted them to go on without further molestation. Much concern is evinced in Russia as to the object of the advance, but the report of the dispatching of Russian forces has not been confirmed.

Fiela Notes.

The Winnipeg Poultry Show will be held during Bonspiel Week.

"Life is not so short but that there is always time enough for courtesy."-Emerson.

THE FARMERS ADVOCATE.

Those heralds of spring, the seed catalogues, are now appearing. It might be a good idea to order one's seed early, so as to have time to test it. Some flat dishes and some cotton-batting kept moist and warm are all that are necessary for this operation.

An "Association for the Suppression of Bad Language " has been formed in England recently, with Lord Wolseley as the President. This should be noted by those young men who think it is "manly" to swear.

Congress has appropriated \$500,000 for the extermination of the boll-weevil in Texas. This should be interesting to us, as the depredations of the little insect, if not checked, will have the effect of making our cotton dearer.

Newfoundland is the greatest fishing country in the world. About two-thirds of its population are engaged in fishing. If Newfoundland concludes to come into Canada as one of the Provinces, our coat-of-arms will need another fish or two.

Mr. R. H. Grant, of Carleton Co., Ont., has made a success of poultry. He keeps from 80 to 100 hens, and is now shipping over twelve dozen eggs each week to Montreal, receiving a high price for them. Last fall he sold 300 fat chickens. He says it pays to use hens well.

Miss L. Goodell, Canastota, N. Y., started, twelve years ago, with a borrowed hen and a setting of Dorking eggs. To-day she owns extensive poultryhouses, and clears, annually, from \$300 to \$1,000. This shows what a woman can do if she goes about it the right way.

Moose Jaw, N.-W. T., Jan. 2nd, 1904.

Farmer's Advocate,

Winnipeg :

Gents,-Your Xmas number is the best of the kind I ever saw. The cuts are all clear, and the descriptive matter ably written and to the point. It is an issue that you can well feel proud of, and I am sure your subscribers and the public generally will appreciate the effort you have made to impress the world at large of the great future of our Western country. Wishing you every prosperity for 1904. I am.

Yours truly,

O. B. FYSH.

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found a steady demend for is

At an eastern Farmers' Institute model, it was stated by $Mr, ^{N}G, \ H.$ Hutton that investigations carried on have shown that Canadian seedsmen face an into the way of sending the best seed to Europe, where it commands high prices, leaving the poorer class for the Canadian farmers. It is high time that formers should see to it sharply that their seed is up to a

Mr. S. Wiederhold writes us : " Having read in the Farmer's Advocate,' a treatment for ringworm, I thought I would give you a more simple remedy, as there are a great many stables infected. The diseased part should not be touched with the hand, as it is contagious and very painful. Put plenty of salt in lukewarm water, and apply to the parts affected. I have never known this remedy to fail by simply applying twice."

Jas. J. Hill, President of the Great Northern Railway, speaking at Minneapolis lately, dwelt upon the probability that Chamberlain's policy, if adopted, will injure American trade to such an extent that there will be a surplus of from 20,000,000 to 30,000,000 bushels of wheat, unless new markets are opened. He spoke hopefully of these markets being found in the Orient, where, it is interesting to note, the people are just learning to cat bread made from wheat flour. It baffles the mind even now to imagine the quantities of wheat which will be required when China's 400,000,000, along with the hordes of the Russian steppes, the Persians, Afghans, Hindoos and all the rest of them, get to eating up-to-date Western bread and muffins.

An Irishman was filling barrels with water from a small river to supply a village which was not provided with waterworks. As he halted to give his horse a rest, a gentleman rode up and asked :

"How long have you been hauling water, my good

" Tin years or more, sor."

"Ah! And how many loads do you make in a

" From tin to fifteen, accordin' to the weather, sor." $^{\prime\prime}$ Well, Pat," said the gentleman, laughing, " howmuch water have you hauled all together ?"

The Irishman jerked his thumb in the direction of the river, at the same time giving his horse the hint to start, and replied : "All the wather yez don't see there now, sor.'

Again the outlook regarding the situation in the Far East has changed somewhat. At the time of going to press, all Europe is looking for a peaceful settlement, this hopeful view of the case being induced by the fact that the Czar, under friendly pressure of the European powers, so it is said, has intimated to the Japanese Minister that he is willing to make certain concessions to the Japanese demands. Some excitement has been caused by the recent dispatching of 40,000 Russian troops northward from Port Arthur, destined, so it is reported, for the Yalu River ; but the authorities have declared that this is no indication of an immediate outon these arounds have refused the annies tions of numerous war correspondents who wished to accompany the troops. In Tokio, however, the war spirit is still strong. The Japanese believe that no concessions the Russians may make will be satisfactory, and that war is the anly possible outcome.

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We live through our days of happines s withou noticing them. It is only when evil comes upon us that we wish them back."-Schopenhauer.

Mr. Sam Wilson, of Stanwood, Iowa, thinks he has the largest calf in America. When twelve months old it weighed 1,290 pounds.

C. B. Halpin, proprietor of the Olds Oracle, which was recently destroyed by fire, has arranged for the installation of a new printing plant at Olds.

A man in Seattle, Wash., sold \$400 worth of winter rhubarb from a house 20 x 100 feet. It is said that rhubarb may be successfully forced even in a cellar.

"Small things swell the farmer's balance at the bank. Poultry, intelligently kept, never lose money."-[Farmer and Stockbreeder.

Edson M. Crossman, N. Y., has succeeded in producing an apple that is green in color, with pink flesh, resembling that of a watermelon. Its flavor is said to be excellent.

Mr. J. D. Farrell, "Jim" Hill's confidential representative, says that the discovery of anthracite in the Dunsmuir Comor coal fields is full of the greatest significance and will work wonders for Vancouver.

Mr. E. H. Garner, Mo., claims that one-third of the farm horses in the U.S. bear blemishes from barbedwire fences. "Barbed-wire fences," he says, "are cruel, needless, and expensive."

A dispatch from Liverpool says that at the exhibition of colonial products, which has just opened in that city, the Canadian exhibit is by far the largest. Of course it is. No need of a dispatch to tell us that.

A new steamer, to be called the "Canada Cape," will shortly be launched on the Clyde for service between Canada and South Africa. This will make the fourth on this service

'The finest class of animals of any breed will deteriorate if poorly fed and cared for. This is the real cause of many a man's failure to get out of highly-bred animals as much as he expected."-[Farmer's Review.

A farmer in Indiana last summer tried to get a divorce from his wife on the grounds that she sold all the eggs the hens laid when they were ten cents a dozen. Perhaps, after all, when one considers the food value that is in eggs, one might feel tempted to feel some sympathy for the poor fellow.

The emigration to Canada from England last year amounted to over twenty-five per cent. of the total emigration from British shores. That is, out of 250,000, 60,000 have found homes in Canada. Two years ago 10,000 represented the extent of English emigration to Canada. This year, the emigration promises to be greater than ever.

The "Advocate," in extending its sympathy to the many losers in the serious fire which lately visited the thriving town of Olds, trusts that the renewed efforts which are being, and will be, put forth, will bring increased prosperity to the district at large, and also prove, individually, beneficial to the investors and promoters.

A disastrous fire, on the night of January 15th, swept away the Norman Block at Calgary. The block contained six stores, with suites of offices above them. also the Normandie Theatre. The chief loss i Senator Lougheed, to whom the block belonged. The loss aggregates about \$200,000, and the incursion is said to be over \$100,000.

It is not so long since that a party of Scherians, thinking that cream separators were devil machines, 'drowned" a number of them in a river. Now, separators are quite common in that country. Siberian cream methods, however, are not noted for their cleanli- Meat Company, where cattle, sheep and hogs ness. One report says : In summer, the presence of a are killed, dressed and cured for home consumption and terrible smell. To diminish the foul odor, the owners, in some cases, have recourse to sprinkling a mixture of carbolic acid on the floor and walls." No wonder the dainty little Japs want to make war on the Russians !

Edmonton Jottings.

Mr. Fisher, representing the Dominion Fish Co., of Canada, is in Edmonton buying whitefish for shipment to Buffalo, New York. Mr. Fisher is of opinion that the fish trade from the north will increase rapidly, and supplies will be brought from Great Slave Lake for shipment to Eastern markets in the near future. The present supply is chiefly from Pidgeon, St. Ann and White Whale Lakes.

The Edmonton hay market is pretty busy these days and prices good. During the past few months an average of about thirty to that; use bass of says per day

coal is becomen a very productive resource. I'we then avoid tors for week as the average output from the arroading names for home consumption and export. This should open the eyes of enterprising business men, s there are other lines of industry quite as capable of growth here as those already opened up.

Down in the valley on the bank of the Saskatchewan Riser, about one mile out of the town of Edmonton, may be seen the packing house of the Gallagher Hull export purposes. There is accommodation for the killing of about three hundred hogs and about twentyfive cattle per week, and, in connection, there is a curing-room of 3,000 pounds and a smoke-box of 50,000 pounds capacity. The ice-box holds about 800 hogs, and is one of the latest designed ice refrigerators.

THE FARMERS ADVOCATE.

Dominion Shorthorn Breeders' Annual Meeting.

The eighteenth annual meeting of the above Association was held at Toronto on January 19th. Messrs. J. G. Barron, Carberry, and J. G. Washington, Ninga, representing Western breeders, were successful in securing a grant of \$1,200 towards the prize list of the Dominion Exhibition at Winnipeg this year. The following grants were made to other Western fairs: Brandon, \$250; Calgary, \$100; New Westminster, \$100; Victoria, B. C., \$100. The assets of the Association are \$15,794, after all liabilities are paid. The membership of the Association, divided into provinces, is as follows: Ontario, 1354; Manitoba, 323; Assiniboia, 79; Alberta, 79; Saskatchewan, 18; British Columbia, 16; New Brunswick, 5; Quebec, 26; P. E. I., 9; Nova Scotia, 17; United States, 10.

The officers-elect for 1904 are: President, Wm. Linton, Aurora; Vice-president, W. G. Pettit, Freeman; Vice-presidents for the Provinces: Ont., W. D. Flatt; Que., Wm. H. Gibson; N. S., C. A. Archibald; N. B., Bliss Fawcett; P. E. I., F. G. Bovyer; Manitoba, James Bray: Assiniboia, W. A. Heubach; Alberta, John A. Turner; British Columbia, W. H. Ladner. Secretary, Henry Wade, Toronto; Assistant Secretary, H. Gerald Wade.

Shorthorn breeders, in Manitoba and the Territories especially, are advised to be particularly careful to have the pedigrees of animals purchased in the United States recorded in the Dominion Herdbook before they come into this country, as many of the pedigrees in the American Herdbook are not eligible for record in our Herdbook, as they do not trace in all their crosses to imported cows. Special attention is called to this matter, as a number of cattle have been brought across the line during the last two years whose pedigrees had to be rejected for above reason.

e rejected for above reason.

The Late Wm. R. Stewart.

FOUNDED 1866

Implement Men Meet.

At the annual meeting of the Winnipeg Wholesale Implement and Carriage Association, held in the Board of Trade Rooms, Winnipeg, January 9th, there was a good attendance, and the meeting was lively and enthusiastic. The report for the past year showed the adoption of a few rules and the accomplishment of a few undertakings which will be beneficial to the Society and to the implement trade generally. It was reported that while the trade in implements had grown during the year in conjunction with the immigration, the number of people engaged in the trade had increased out of proportion to the expansion of the trade itself. In 1902, the membership of the Association was twentysix, which has increased to thirty-six in 1903. This membership includes a representative from every house doing business in agricultural implements in Winnipeg. The officers elected for 1904 were: H. W. Hutchinson, President; Jos. Maw, 1st Vice-President; A. E. Mott, 2nd Vice-President; A. G. Watson, Secretary-

There is every indication of a busy year ahead of the Association, as there are a number of important subjects which will have to be passed upon. With the unity prevailing amongst the members, however, the duties will be as light as possible.

A banquet was held on the evening previous to the meeting, at which there was a good attendance, and a most enjoyable social evening was spent. The chief objects of the Association are: To foster a social interest between the members, to get better freight rates and improved facilities for machinery freights, and to forward the interests of the agricultural implement men generally.

Minneapolis Flour for Japan.

An American exchange reports receipt of orders for the shipment to Japan within eight days of 100,000 barrels of flour by Minneapolis millers. The preparations for hostilities on the part of Japan was, doubtless, the explanation of such an exceptionally high aggregate of orders, though the Japanese Government have done no direct ordering. The orders may be regarded as more or less partaking of what is done in an emergency, but war or no war, the flour was bought and will be used in Japan, and if it can be used there it follows that it is required there, and a trade with that country in wheat from our Northwest is a matter which only requires a little organization and development. With our fast increasing area of wheat it is well to lose sight of no opening where a market may be established.

Hudson's Bay Railway.

As the northern districts of Manitoba and the Territories are becoming more thickly settled, the possibilities of trade for a northern railway system terminating on the shores of the Hudson's Bay become more and more apparent. The Yorkton Enterprise, writing on the subject, says: "Our farmers need only look at the map to find the great superiority of this route for our imports and exports to any other Canadian outlet." A Hudson's Bay Railway is a project that has long been talked of, and as the need for increased export and import facilities grows, with the great things accomplished in Canada in the past, such schemes as the Hudson's Bay Railway appear more and more practicable and nearer accomplishment.

Rounthwaite Grain Growers Organize.

$\mathbf{140}$

With B. C. Lumbermen.

A leading mill operator is reported in the Vancouver News-Advertiser as saying :

"Just now things are quiet both in lumber and shingles, especially the latter, but a good season is anticipated.

"Very few logs are being put in the water these days, and labor in the camps is freely offering. Wages all last year were pretty high in and around Vancouver, but they are now about on a par with those paid on the American side of the line. There has been a further reduction this month of 25 to 50 cents per day.

"The Government will not receive so much revenue from special timber licenses this year," he continued. "The increase in the cost of licenses from \$1,00 to \$140 will make a difference. Then, too, fast year, many who are not accustomed to cruising timber, took out licenses in the hope of being able to dispose of their limits. In many instances, these were not of much account, and the speculators lost money. The present conditions, while bringing disaster to some, will put things on a better basis in the lumber industry."

Farmers for Canada.

A party of nine hundred farmers will leave Yorkshire for Canada in the spring of the year. They are the pick of the people. They can boast a purer pedigree than any save a few families in the nobility and gentry. They have stuck to the soil generation after generation. and now they are going from us, to be followed by others of their kith and kin, and more of the agricultural community from other parts of the United Kingdom. They leave the mother country, but they stay within the Empire. They are not altogether lost to us. On the broad, fertile prairies of the West we wish them golden fortunes. Making due allowance for the bright colors of a sanguine optimism, there is no doubt that their prospects are far brighter across the Atlantic than they have been here for thirty years past .- [London Express.

Territorial Stock-judging Schools.

The Territorial Department of Agriculture are fully alive to the importance of affording stockmen, both young and old, a means of improving their knowledge of animal form. Lectures in judging and handling live stock will be given at :

Edmonton	Jan.	26 and 27
Lacombe	.Jan.	28 and 29
Macleod		
Medicine Hat		
Oxbow *	Feb.	8 and 9
Indian Head		
Yorkton	Feb.	12 and 13

Animals will be brought into the class-room at the morning and afternoon sessions, so that all can see and handle them, and the score-card will be explained and used. At the evening meetings, general topics will be discussed and lantern slides will be used for illustrating. Dr. Hopkins, Winnipeg, and Dr. McGilvray, Binscarth, will take charge of the live-stock work, and Geo. Harcourt, Supt. of Institutes and Agricultural Societies, is expected to be present to conduct the work in general.

C. P. R.'s Irrigation Project.

Since October 1st, a staff of men have been engaged below the C. & E. bridge, Calgary, in river-protection work preliminary to the commencement of active opera-

tions on the C. P. R. irrigation system. Advertisements calling for tenders are being published in the leading Canadian and American centers. Superintendent Dennis, who has charge of the work, states that already \$20,000 has been spent in Calgary for tents, provisions, etc. The first section of the system will be the digging of a twenty mile canal, wide and deep enough to float a ricanship. Mr. Dennis states that probably there is no firm in Canada who can undertake It, yet it is the policy of the Company to give Canadian contractors the preference.

The construction of this enormous canal and its numerous branches will add greatly to the growth and prosperity of Calgary and surrounding district, and also, upon completion, open up for settlement an immense tract of country, rich in soil fertility.

Telephones and Rural Mail.

Free rural mail delivery has extended marvellously throughout the United States during the last two years. Now the Postal Department at Washington is asking for an appropriation to investigate the feasibility of using the telephone in communicating specialdelivery letters to those who live along rural routes. In New York City, the sacks of mail are sent whirling through pneumatic pipes direct from the post office to the car, and returned in the same manner. The freedelivery department is said to be expanding more rapidly than any department of the service.

Sudden Death of Mr. W. R. Stewart.

Me W. R. Stewert, the well-known horse-rancher, SR = V is a state in iterial Horse breeders' Ass'n, S is a state of the iterial Horse breeders' Ass'n, S is a state of the iterial Horse breed in the C, C V V is a state of the iterial state of the iterial V V is a state of the iterial state of the iterial to V V is a state of the iterial state of the iterial state V V is a state of the iterial state of the iterial state V V is a state of the iterial state of the iterial state V V is a state of the iterial state of the iterial state V V is a state of the iterial state of the iterial state V V is a state of the iterial state of the iterial state V V is a state of the iterial state of the iterial state V V is a state of the iterial state of the iterial state of the iterial state V V is a state of the iterial state of the iterial state of the iterial state V V is a state of the iterial state of t

Alberta Jottings.

Twenty-eight telephones were placed in Red Deertown in one week lately.

A drier is being built by the Red Deer Brick Company at Red Deer.

Trimble's Creamery, Red Deer, turned out 65,250 lbs. of butter last year. Its patrons have about doubled since 1902.

Preparations are under way for building stockyards at Nanton.

At a meeting of the directors of the Innisfail Agricultural Society, the board placed itself on record as being in favor of establishing an experimental farm in Alberta, between Olds and Strathcona.

The live-stock exhibition in Innisfail is to be held during the third week in July, and the directors have asked the Department of Agriculture at Regina to appoint a judge for the occasion.

Canada's Flour in Scotland.

Rufus Fleming, American Consul at Edinburgh, says there is great danger that the States may lose its wheat and flour trade with Eastern Scotland, owing to the increased competition of Canada. Up to this time, four-fifths of the flour, two-thirds of the wheat and onehalf of the corn consumed in that quarter has come from the United States. Canada is making an active bid for this trade, and is being helped by British capital, which of late has invested heavily in Canadian mills and elovators.

The Cowboy was a Woman.

Near Rockville, Oregon, a woman lived and recently died, who had been engaged in cattle raching. While in that country she was known as a cowboy, and not with death came, at fifty-three years of age, did her with the least is known. She was an expert shot with the encoded of the death and served on juries and soled at

an entrustable meeting of farmers of this district was held in the Rounthwaite schoolhouse, on January Sth, for the purpose of forming a branch of the Manitoba Grain-growers' Association. After listening to an able and practical address given by Mr. R. McKenzie, Secretary of the Central Association, in which he clearly showed the benefits which had accrued to the farming community since the formation of the Association, a branch was formed, with the following officers: President, Geo. Pringle; Vice-President, Wm. Bertram; Directors-W. Hall, Peter Elder, T. Sedgwick, G. J. Griffiths, Robt. Wheeler and W. H. Maher; Secretary-Treasurer, L. E. Marmont. L. E. M.

Calgary Business College.

The Calgary Business College will shortly occupy a portion of the new brick building almost opposite the post office. The front portion of the first floor will be used by the college. The rooms are lofty and well lighted; also, provided with up-to-date conveniences.

Blackfalds Farmers Organize.

An agricultural society is being organized in the enterprising district of which Blackfalds is the center. A number of prominent farmers in the district are taking an active part in establishing the society, and with the support promised by the farmers of the surrounding country there is every prospect of success.

Manitoba Committee on Agriculture. The Committee on Agriculture and Immigration at the last session of the Manitoba Legislature were as follows: Hon. Messrs. Roblin, Greenway, and Messrs. Steel, Argue, Lawrence, Jackson, Winkler, Thompson, J. Prefontaine (Assiniboia), Lyons, Riley, Corbett, Legimodiere, Doig, Ruddell, Prefontaine (Carillon), and Gordan

Calgary Exhibition By-law Carried.

The by-law asking for a \$15,000 grant for additional exhibition buildings at Victoria Park, Calgary, was carried by a large majority. Those voting for numlaried 222; an abust, 41.

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JANUARY 27, 1904

Dr. James Mills for the Railway Commission.

Despatches from Ottawa state that Premier Laurier has offered Dr. James Mills, President of the Ontario Agricultural College, Guelph, a position on the Canadian Railway Commission. The appointment of Hon. A. G. Blair as chairman, a position which he has accepted, was announced in our last issue. The other commissioner appointed is Hon. M. E. Bernier, late Minister of Inland Revenue, M.P. for St. Hyacinthe, P.Q., who will probably be succeeded in that portfolio by Hon. L. P. Brodeur, present Speaker of the House of Commons. Hon. H. R. Emmerson, M.P. for Westmoreland, N.B. has been sworn in as Minister of Railways and Canals, as successor to Hon. A. G. Blair. The Chairmanship of the Railway Commission carries a salary of \$10,000 per year, and the two other commissioners \$8,000 per year each, for a term of ten years. Commissioners are not eligible after reaching the age of 75 years. Dr. Mills is at present 63 years old, and is one of the bestknown men identified with agricultural advancement in Canada to-day. The Secretary of the Commission, whose name is not yet announced, is to receive a salary of not exceeding \$4,000 per year. We understand that Dr. Mills has accepted the position.

Brandon Winter Fair Proposition.

For some time a proposition to hold a winter stock show at Brandon has been under consideration. On the evening of the 15th, a meeting of the members of the Board of Trade and City Council was called, to which a number of prominent live-stock breeders throughout the Province were invited. After thorough discussion, it was decided to hold a show, provided sufficient money could be secured for the erection of a suitable building. It was suggested that the City Council vote \$15,000 for the purpose. The matter is now in the hands of a committee, and it is probable that the matter will be settled once for all very soon. Brandon City would undoubtedly derive great benefit in the future from an annual winter fair, and it is to be hoped that her citizens will be able to grasp the full meaning of the proposal.

Brandon Stock-judging School.

The lectures on live-stock judging at Brandon, February 18th, 19th and 20th, will be given in the warerooms of Messrs. Smith, English & Nelson, on quality Ninth street. The programme is as follows :

- THURSDAY, FEBRUARY 18TH.
- 10.00 a.m.-Light Horses, by W. S. Spark. 1.30 p.m.-The Bacon Hog, A. P. Ketchen, B. S. A.
- 4.30 p.m.-Seed Grain judging, G. H. Clark, The prices are 90c. to 91c. for No. 1; No. 2, 88c. B. S. A.
 - FRIDAY, 19TH.
- 10.00 a.m.-Judging Dairy Cattle (Practical). 1.30 p.m.-Judging Dairy Cattle (Practical).
- Evening Meeting .- Requirements of a Cattle Stable, P. Ketchen; The Story of a Grain of Wheat, G.
- H. Clark; The Draft Horse (illustrated), W. S. Spark. SATURDAY, 20TH.
- 10.00 a.m.-Sheep and Dairy Hogs-Dressed Carcasses, A. P. Ketchen.

ILLUSTRATIONS.

A Camp on the Cochrane Ranch ...133

Lord Polworth on Selection and Mat-

American Breeders' Association

THE FARMERS ADVOCATE

largest in the series of sales held there. Buyers were from Minneslota, Wisconsin, Iowa, Missouri, Illinois, Ohio, Manitoba and Alberta, but the bulk of the animals fell to the bids of Ontario farmers and breeders. Among those present from Manitoba were J. G. Barron, Carberry; J. G. Washington, Ninga, and H. Nichol, Brandon, Mr. Barron being the only buyer, while several head were purchased by Mr. Eckford, of High River, The bidding was spirited, and the cattle of an excellent class. The thirty-six head sold for an average of \$332. The highest price for a bull was \$955, for Imp. Victor of Dalmeny, purchased by E. G. Stevenson, of Michigan, and the highest for a female, \$925, paid by E. S. Kelly, of Ohio, for Rosebud 86th (imp.).

Soap-works for Calgary.

The Alberta Manufacturing Co., Limited, has been incorporated under the Territories Joint-stock Company Ordinance, to carry on the business of tanning, soapmaking, etc., at Calgary. An expert Toronto soapmaker has been engaged, and is now on the ground superintending the work. The old soap works has been purchased, and is being enlarged, renovated and provided with new machinery.

Calgary Exhibition Dates Fixed.

At a directors' meeting of the Inter-Western Pacific Exhibition, recently held in the Board of 'Trade Office, Calgary, it was decided that July 5th, 6th, 7th and 8th would be the most suitable dates for the 1904agricultural fair. Various advertising schemes were discussed and decided upon, as well as other details in connection with the success of the exhibition.

Markets.

Winnipeg Markets.

Wheat .- Prices have continued firm during the week for the higher grades. There has been a sharp decline in feed wheat, owing to the oversupply. Winnipeg prices have slightly risen and declined, according as the American markets have advanced and declined. The quotations now range about 821c. for No. 2 northern ; No. 3 northern, 754c.; No. 4 northern, 684c. May delivery prices are: No. 1 northern, 87c.; No. 2 northern, 84c.; No. 3 northern, 80c.; No. 1 feed grades, 51c.; No. 2 feed grades, 41c.

Oats.-There is no great supply of oats or 'arley. Oats have advanced slightly, and the highest grade on the market, No. 2 white, is now quoted at 31c. to Lower grades are ‡c. to 3c. lower, according to

Barley .- Prices for barley remain the same as quoted last week : No. 3, 37c.; feed barley, 36c.

Flax.-The supply is getting smaller every week as the season advances, and the price has declined slightly.

Vegetables .- Prices continue the same as last week for vegetables, with a good demand and a regular

Potatoes.-Potatoes are selling at 60c. per bushel; cabbage, 2c. per pound; carrots, \$1.00 to \$1.20; turnips, 25c. per bushel; celery, 40c. to \$1.00 per dozen, according to size.

FLOUR AND FEED.

Flour.-Flour continues firm at last week's prices. The demand is steady, and mills are kept working to their limit. Prices are: No. 1, \$4.20 per barre containing two sacks of 98 pounds each ; No. 2, \$4.60; No. 3, \$4.00.

\$20.00 per ton; mixed, barley and oats, \$22.00 per ton; oil cake, \$27.00 per ton

Hay .- Hay is continuing to come to findly, keeping well up to the demand. The price values from \$4.50 per ton to \$10.50, with a still highly by the for hay containing a high percentage of red top. price is for stack bottoms and inferior $q_{\rm 0,are}$

Poultry and Eggs .- Prices continue at our last week's quotations : Manitoba turkeys, 16c., accese, 11c.; chickens, 11c.; fowl, 9c.

Eggs .- Fresh-laid eggs are worth 40od; good case eggs are selling at from 25c, to 28c, per dozen.

Dairy Produce.-Creamery butter is selling at 25c to 26c. per pound; dairy prints, 221c.; tubs, 17c. to 20c. Manitoba cheese is selling at 14c. per pound. LIVE STOCK.

Hogs .- Prices have not changed during the week, and prospects are they will remain firm at last week's quotations. Choice pork is bringing 5c., with 1c. less for extra heavy and light weights

Cattle .- Butchers are well stocked, and the demand is slow. Choice steers are selling at 3c, to 34c. Inferior quality is from {c. to 1c. less.

Sheep.-Mutton is selling at 31c. to 4c. per pound, and lamb at 5c. per pound, with a steady supply and demand for good quality.

Grain Stored in Montreal.

The stock of grain in store in Montreal on the dates mentioned were as follows:

	Jan. 16,	Jan. 9,	Jan. 17,
	1904.	1904	1903.
Wheat, bush	42,633	125,666	53,857
Corn, bush	156,989	159,073	20,758
Oats, bush	75,676	81,334	56,270
Barley, bush	64,109	61,028	54,863
Flour, barrels		17,193	14,884

Wheat in Sight.

	AA WOORP WW	JISHU.	
Visible wheat	Jan. 18,	Jan. 11,	Jan. 19,
supply, U. S.	1904.	1904.	1903.
and Canada	40,375,000	40,199,000	49,727,000
On passage to			
U. K	15,920,000	14,640,000	17,440,000
On passage to			65.5
con	5,760,000	7,120,000	7,200,000
Total	62,055,000	61,959,000	74,367,000

Montreal Markets.

Prime beeves sell at 4½c. to 4%c. per lb.; large fat cows, 44c. per lb; ordinary medium cattle, 34c. to 4c; common stock at 24c. to 34c. per 1b.

- Sheep 31c. per lb., and lambs at 41c. to 5c.
- Good fat hogs 54c. to 54c. per lb.

Chicago Markets.

Cattle .- Good to prime steers, \$5.15 to \$5.70, boor to medium, \$3.70 to \$4.85; stockers and feeders, \$2.25 to \$4.15.

Hogs.-Mixed and butcher, \$4.70 to \$4.90; good to choice, heavy, \$4.85 to \$4.95; light, \$4.75 to \$4.95; bulk of sale, \$4.75 to \$4.90.

Sheep.-Sheep and lambs, dull; good to choice wethers, \$3.90 to \$4.40; fair to choice, mixed, \$3 to \$3.60; native lambs, \$4.50 to \$5.90.

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The Hamilton Sale.

The combination sale of Shorthorn cattle announced to be held at Hamilton, Ontario, on January 20th, came off very successfully, the attendance being the

week : bran, \$17.00 per ton ; shorts, \$19.00 per ton. weak, at 12c. to 121c. per lb. ; lambs, 14c. to 141c. Chop Feed.—Oat chop, \$25.00 per ton ; barley chop, per lb.

British Markets.

London. - American cattle, 11c. to 12c. per lb Bran and Shorts .-- Prices are the same as last (dressed weight); refrigerator beef is 8c. per lb. Sheep,

CONTENTS FOR THIS ISSUE. Orpheus, Clydesdale Champion125

A Camp on the Cochrane Ranch133	· · · · · · · · · · · · · · · · · · ·
Thos. Henderson's Barn, Strathcona,	Prize House Plans (illustrated)134
Alberta	Temperature of the Soil134
Scene of the Asian Crisis	Dakota Grain Inspection134
The Late Wm. R. Stewart110	Distribution of Seeds
EDITORIAL	Mammoth Clover at Brandon
Lumbermen and the C. P. R129	The Daughter's Portion135
A Big Convention Expected	The Object of Tillage
Wheat Breeding in Canada	An Inexpensive Lime Kiln (illustra-
Learning to Grade Wheat129	ted)
Pointers	The Wheels of Wagons135
The Agricultural Situation in B. C.130	How Trees Breathe135
A Killing Leaflet	DAIRYING.
100% Ahead of Any Previous Year 130	Breeding the Ayrshire Cow
	breeding the Ayranne Cow and 150

DAIRYING.

100% Ahead of Any Previous Year130 Who Deserves the Credit	Breeding the Ayrshire Cow
HORSES.	The Outlook for Dairying in Canada 136
	Give the Address
Developing Action 5	POULTRY

The care of theman from a manual	Once the Address managements in 137
Developing Action 7	POTETRY
Horseshoeing (illustrated)131	Producing a Laying Strain
Importations and Customs Valuation	The Result of Overleeding
of Horses131	The Manitoba Poultry Association137
STOCK.	Ducks and Winter Laying138
Care of Brood Sows132	Manitoba Poultry Show
Watering Animals	APIARS

QUESTIONS AND ANSWERS. Veterinary. Chronic laminitis

on leg, etc.; mare with itchy legs; washy mare and colt with puffy hocks; irregular strangles; distemper; shoulder tumor.150 Lampas1 Opacity of the cornea; œdema; indigestion-malnutrition155

Miscellaneous.

Hog queries; who owns the coal? from melk; licensing of steam en-gineer, N.W. T.; electric light beetle; rabbits not fit for use; breed; tanning dog's skin; stable

tion Dates Fixed; Soap-works for Canada; Territorial Stock-judging Schools; C. P. R.'s Irrigation Project; Telephones and Rural Mail; Sudden Death of Mr. W. R. Stewart ; Dominion Shorthorn Breed-

ers' Annual Meeting; Alberta J	ot-
tings; Canada's Flour in Scotlan	
The Cowboy was a Woman ; Imp	
ment Men Meet; Minneapolis Flo	51C
for Japan ; Hudson's Bay Railwa	Jur
Rounthwaite Grain Growers Org	ty;
ize; Calgary Business Colleg	se ;
Blackfalds Farmers Organize; Ma	
toba Committee on Agricultur	
Calgary Exhibition By-law Carri	++(],] {()
Manitoba Winter Fair Proposition	
Brandon Stock pulging School,	
Hamilton Sale, Dr. Jam Mill	
the Railway Commission .	1 1 1
MATER IST. 3	
Winnepeer Markets .	1 + 1
Wheat in Sight	1-11
Montreal Markets	
Chicagor Markets	141
British Markets	1.4.1
TTO MEE MAGAZINE.	
Home Magazine	142
The Doctor (illustration)	143
The Twins at Culleston Manor	
1685	141
The Quiet Hour	144
Ingle Nook Chats	145
The "Advocate" in the Home .	
Health in the Home	146
With the Flowers	146
The Children's Corner	147
Having a Good Time (illustratic	n)147
GOSSIP 128, 153, 154, 15	5 156
1!	57 158
TRADE NOTES	48 159
ADVTS	to 160
140, 140	10 100



"O, some grow wise, and some grow cold,

And all feel time and trouble; If life an empty bubble be, How sad are those who will not see A rainbow in the bubble! "

A FAIR BARBARIAN.

BY FRANCES HODGSON BURNETT.

CHAPTER VII.-Continued.

Capt. Barold turned to confront her, evidently annoyed at having allowed a surprise to get the better of him. All expression died out of his face.

"I travelled with her from Framwich to Stamford," he said. "I suppose we should have reached Slowbridge together, but that I dropped off at Stamford to get a newspaper, and the train left me behind."

"O grandmamma !" exclaimed Lucia, who had turned to look, "how very pretty she is !"

Miss Octavia certainly was amazingly so this morning. She was standing by a rosebush again, and was dressed in a cashmere morning-robe of the finest texture and the faintest pink : it had a Watteau plait down the back, a jabot of lace down the front, and the close, high frills of lace around the throat which seemed to be a weakness with her. Her hair was dressed high upon her head, and showed to advantage her little ears and as much of her slim white neck as the frills did not conceal.

But Lady Theobald did not share Lucia's enthusiasm.

"She looks like an actress," she said. "If the trees were painted canvas and the roses artificial, one might have some patience with her. That kind of thing is scarcely what we expect in Slowbridge."

Then she turned to Barold.

"I had the pleasure of meeting her yesterday, not long after she arrived," she said. "She had diamonds in her ears as big as peas, and rings to match. Her manner is just what one might exsingle eyeglass into his eye, and scanning it after the manner of experts. "I did not think you had anything of that sort here. Who put it up?"

"The man's name," replied Lady Theobald severely, "is Burmistone."

"Pretty good idea, isn't it?" remarked Barold. "Good for the placeand all that sort of thing."

"To my mind," answered my lady, "it is the worst possible thing which could have happened."

Mr. Francis Barold dropped his eyeglass dexterously, and at once lapsed into his normal condition—which was a condition by no means favorable to argument.

"Think so?" he said slowly. "Pity, isn't it, under the circumstances?"

And really there was nothing at all for her ladyship to do but preserve a lofty silence. She had scarcely recovered herself when they reached the station, and it was necessary to say farewell as complacently as possible.

"We will hope to see you again before many days," she said with dignity, if not with warmth.

Mr. Francis Barold was silent for a second, and a slightly reflective expression flitted across his face.

"Thanks, yes," he said at last. "Certainly. It is easy to come down, and I should like to see more of Slowbridge." When the train had puffed in and out of the station, and Dobson was driving down High Street again, her ladyship's feelings rather got the better of her.

"If Belinda Bassett is a wise woman," she remarked, "she will take my advice, and get rid of this young lady as soon as possible. It appears to me," she continued, with exalted piety, "that every well-trained English girl has reason to thank her Maker that she was born in a civilized land."

"Perhaps," suggested Lucia softly, Miss Octavia Bassett has had no one to train her at all; and it may be that that she even feels it deeply."

The feathers in her ladyship's bonnet trembled.

"She does not feel it at all !" she announced. "She is an impertmentminx !" had gasped. "Don't-don't read it, my love. L-let someone else do that. Poor-poor child! Trust in Providence, my love, and-and bear up. Ah, how I wish I had a stronger mind, and could be of more service to you!"

"It's a message from father," said Octavia. "Nothing is the matter. He's all right. He got in on Saturday."

"Ah!" panted Miss Belinda. "Are you quite sure, my dear—are you quite sure?"

"That's what he says. Listen."

"Got in Saturday. Piper met me. Shares looking up. May be kept here two months. Will write. Keep up your spirits.

"Martin Bassett."

"Thank Heaven !" sighed Miss Belinda. "Thank Heaven !"

"Why?" said Octavia.

"Why?" echoed Miss Belinda. "Ah, my dear, if you knew how terrified I was! I felt sure that something had happened. A cable message, my dear! I never received a telegram in my life before, and to receive a cable message was really a shock."

"Well, I don't see why," said Octavia. "It seems to me it is pretty much like any other message." Miss Belinda regarded her timidly.

"Does your papa often send them?" she inquired. "Surely it must be expensive."

" I don't suppose it's cheap," Octavia replied, " but it saves time and worry. I should have had to wait twelve days for a letter."

" Very true," said Miss Belinda, " but "-

She broke off with rather a distressed shake of the head. Her simple ideas of economy and quiet living were frequently upset in these times. She had begun to regard her neice with a slight feeling of awe; and yet Octavia had not been doing anything at all remarkable in her own eyes, and considered her life pretty dull.

If the elder Miss Bassett, her parents

had gasped. "Don't-don't read it, my is now June. I have not yet found it love. L-let someone else do that. necessary to apologize for you on the Poor-poor child! Trust in Providence, score of youth."

> But it was her ladyship who took the initiative, and set an evening for entertaining Miss Belinda and her niece, in company with several other ladies, with the best bohea, thin bread and butter, plum-cake, and various other delicacies. "What do they do at such places?" asked Octavia. "Half-past five is

pretty early." "We spend some time at the teatable, my dear," explained Miss Belinda. "And afterward we-we converse. A few of us play whist. I do not. I feel as if I were not clever enough, and I get flurried too easily by-by differences of opinion."

"I should think it wasn't very exciting," said Octavia. "I don't fancy I ever went to an entertainment where they did nothing but drink tea, and talk."

"It is not our intention or desire to be exciting, my dear," Miss Belinda replied with mild dignity. "And an -improving conversation is frequently most beneficial to the parties engaged in it." "I'm afraid," Octavia observed, "that I never heard much improving conversa-

tion." She was really no fonder of masculine society than the generality of girls; but she could not help wondering if there would be any young men present, and if,

indeed, there were any young men in Slowbridge who might possibly be produced upon festive occasions, even though ordinarily kept in the background. She had not heard Miss Belinda mention any masculine name so far, but that of the surate of St. James's; and when she had seen him pass the house, she had not found his slim, black figure, and faint, ecclesiastic whiskers, especially interesting.

It must be confessed that Miss Belinda suffered many pangs of anxiety in looking forward to her young kinswoman's first appearance in society. A tea at Lady Theobald's house constituted presentation to the Slowbridge Each young lady within the world. pale of genteel society, having arrived at years of discretion, on returning home from boarding-school, was invited to tea at Oldclough Hall. During an entire evening she was the subject of watchful criticism. Her deportment was remarked, her accomplishments displayed, she performed her last new "pieces" upon the piano, she was drawn into conversation by her hostess; and upon the timid modesty of her replies, and the reverence of her listening attitudes, depended her future social status. So it was very natural indeed that Miss Belinda should be anxious.

pect from a young woman brought up nounced, among the gold-diggers and silver- minx ! " miners."

"It struck me as being a very unique and interesting, manner," said Capt. Barada. It is chiefly noticeable for a sang troid which might be regarded as rather enviable. She was good enough to tell me all about her papa and the silver-miners, and 1 really found the conversation entertaining."

"It is scarcely customary for English young women to confide in their masculine travelling companions to such an extent," remarked my lady grimly.

"She did not confide in me at all." said Barold. "Therein lay her attraction. One cannot submit to being 'confided in' by a strange young woman, however charming. This young lady's remarks were flavored solely with an adorably cool candor. She evidently did not desire to appeal to any emotion whatever."

And as he leaned back in his seat, he still looked at the pictures us figure which they had passed, as if he would not have been sorry to see it turn its bend to not the

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CHAPTER VIII.

Shares Looking Up.

There were others who echoed her ladyship's words afterward, though they echoed them privately, and with more caution than my lady felt necessary. It is certain that Miss Octavia Bassett did not improve as time progressed, and she had enlarged opportunities for studying the noble example set before her by Slowbridge.

On his arrival in New York, Martin Bassett telegraphed to his daughter and sister, per Atlantic cable, informing them that he might be detained a couple of months, and bidding them to be of good cheer. The arrival of the message in its official envelope so alarmed Miss Belinda, that she was supported by Mary Anne while it was read to her by Octavia, who received it without any surprise whatever. For some time after its completion, Slowbridge had privately disbelieved in the Atlantic cable, and, until this occasion, had certainly disbelieved in the existence of people who received messages through it. In fact, on first finding that she was the recipient of such a message, Miss Belinda al made immediate preparations for wheth away, being fully con-"ipareck had occurred, in her brother's

and grandparents, had not been so thoroughly well known, and so universally respected; if their social position had not been so firmly established, and their quiet lives not quite so highly respectable,-there is an awful possibility that Slowbridge might even have gone se far as y not to ask Octavia out to tea at all. But even Lady Theobald felt that it would not do to slight Belinda Bassett's niece and guest. To omit the customary state teas would have been to crush innocent Miss Belinda at a blow, and place her-through the medium of this young lady, who alone deserved condemnation-beyond the pale of all social law.

"It is only to be regretted," said her ladyship, "that Belinda Bassett has not arranged things better. Relatives of such an order are certainly to be deplored.

In secret Lucia felt much soft-hearted sympathy for both Miss Bassett and her guest. She could not help wondering how Miss Belinda became responsible for the calamity which had fallen upon her. It really did not seem probable that she had been previously consulted as to the kind of niece she desired, or that she had, in a distant manner, evinced a preference for a niece of this description. "Perhaps, dear grandmamma," the girl ventured, "it is because Miss Octavia Bassett is so young that "-

"May I ask," inquired Lady Theobald, in fell tones, "how old you are?" "I was nineteen in—in December."

"Miss Octavia Bassett," said her ladyship, "was nineteen last October, and it (To be continued.)

Be Moderate.

A great writer tells us that " modcration is the inseparable companion of wisdom," and another writer says moderation is the silken string running through the pearl chain of virtues." When we try to do too many things at once we are unfitting ourselves for that practical usefulness which holds no overcrowded state of affairs. She is a wise woman who regulates her life to take upon he self no more duties than she can attend to properly and successfully. She not only saves her health and strength, but her work is satisfactory and her pleasures, though few, are thoroughly enjoyed. Indeed, there is no greater blesssing than a well regulated life.

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JANUARY 27, 1904

Travelling Notes.

Christmas, and New Year's, too, will both have come and gone before my notes can reach our readers, but in imagination we shall have "foregathered" without the aid of Atlantic cable or Marconi's wireless telegraphy, for we shall in spirit have wafted our good wishes across the waters, and we shall have received in return, yours for us, just as certainly as if we had heard the words with our mortal ears.

I think I have already described somewhat in detail visits I paid some eighteen months ago to some of the places upon our present list; therefore, to these I must make but brief allusion now. Should a little repetition occur here and there it will be caused by my not having with me my old notes, and on that plea I hope to be excused. Our plan on leaving home was to see what we could of Antwerp, Brussels, Cologne, the Rhine, Heidelberg, Munich, Vienna, Venice, Milan, Florence, Rome, Nice, Geneva, Berne, Lucerne, and Paris, "and then." said one of us, " probably the poorhouse for the rest of our lives."

We are now, on 21st December, at Heidelberg, on the point of starting for Munich, where we hope to spend Christmas. We had a delightful stay of a week at Brussels, a most lovely place, and well worthy of more visits than one, for not only are second impressions often more lasting than the first, but one cannot always take in at one view all there is to see anvwhere. Brussels abounds in places of interest, and in treasures of immense artistic value. It has thousands of pictures in its art galleries, and many fine buildings. amongst the most striking of which was the Hotel de Ville, or Town Hall, where, for the small fee of 50 centimes, or 10c., one is shown over every department. In one of these, by the law of the land, every one, without exception, has to be married, whether or no they have gone, or intend to go, through a religious ceremony besides. We three spinsters were a good deal amused at witnessing one of these functions, at which, in short order, for it did not last longer than five minutes, ten couples were married at one stroke, the magistrate dismissing them with what seemed to us a jabbered injunction, "to sort themselves," an

them, but one for which he evidently did not hold himself responsible. arm, to their several carriages. Some were rich, some were poor, but let us hope that they all may be happy ever afterwards. We were greatly interested in the lace factory, from whence comes the beautiful Brussels lace so dear (in more senses than one) to the heart of woman. We were shown the pattern of the wedding veil made for the Princess Beatrice, which took 200 women, working constantly for seven months, to bring to perfec-On asking the scale of wages tion. paid to lace-makers, we were told that they were very small, ranging from 15c. to 30c. per day. Think of this, ye women workers in happy Canada, and thank God for casting your lot where honest toil meets its fair reward. It seems an anomaly, that with this pittance paid to the toilers, lace can be purchased for far less in old London. My cousins were amused at some of the "curious ways" of the people amongst whom we found ourselves, many of them not without their advantages; for instance, the hanging of mirrors at the outside of their windows, at such an angle that they can see what is passing in the street without rising from their chairs, and also become aware of the identity of the ringers at the door-bell before giving admittance. They were struck, as I had been, with the general use of dogs in drawing the small milk and vegetable carts, and even of cows, being put between the shafts of a vehicle large enough to carry a whole family at one time. I would not imply that there was any cruelty shown. No, indeed, on the contrary, the good moolie in cold weather had usually a warm blanket strapped across her back. Perhaps we were more unpleasantly impressed by seeing the very hard and unwomanly work which women have to do in Germany, and the exposure to which it subjects them. We saw them in the fields plowing, spreading top-dressing, and grubbing up the roots from the cold, hard ground, work which must be a great strain upon their strength, or so it seemed to us, but which appeared to be undertaken uncomplainingly enough.

THE FARMERS ADVOCATE.

easy and pleasant task enough for naturally devoted to its wonderful The couples walked away, aren in Rhine, entrancing us with its ro- The poor arm, to their several carriages. mantic scenery; each of its number- on her arms. from Munich.

cathedral. On our way thence to Heidelberg, our train skirted the upon it ire a less castles having its story to tell, but none with greater romance surrounding it than that of stately Heidelberg, which is the crowning glory of this garden of Germany.

We three tramps are getting on grandly. Nell, more and more charmed with each new place, never wants to move on, and only once have I heard her say that she was going straight back to Australia," and this was because she was cold. In England she was always returning by the next ship, notwithstanding she has a round - the - world ticket. Eleanor is an indefatigable sight-seer, poking her nose into everything, until I am beginning to be alarmed lest she may find her way into the lockup, for infringing one or more of the many rules which in Germany are very strictly enforced. One day we had about six officials chasing us, because we had crossed a railway track and got upon the wrong platform. It was very droll, for we did not know one word they were saying, and vice versa. However, when once they had got us fairly "rounded up" and into the right place, they laughed, and we laughed, and so the episode ended, not only peaceably, but hilariously. I expect to date my next notes MOLLIE.

The Doctor.

This beautiful and touching picture, by the celebrated artist, Luke Fildes, is well known, and has been widely copied, and no wonder, for it tells a story which goes straight to the heart. There can be but few who do not feel a thrill of deepest sympathy with those grieving ones who, in wordless agong of suspense, await the verdict, "To live" or "to die"? The unconscious child lies hovering on the brink, and seems as though already gone over to that great and mysterious beyond, so inert is the attitude of utter weaknes. But this is not death, for there sits one who, with rare skill, helped by God's mercy, is straining every nerve to bring back to strength Two days was all we could give this frail flower. The whole figure to Cologne, some hours of which we and expression of "The Doctor" is

seems as though c ... and that quiet we dore a first the kind and noble face, we full strength and self-control. will stop at his post unlinely be set of make no sign until he is sure, and we hope that fair child will in such for those who love her !

There is so much actistic porit in this picture, that one might linger long over its discussion. The wen derfully natural position of the child's hands is a study in itself, but somehow it seems almost sacrilege to analyze thus. The picture is simply a grand study in human nature, and its masterly drawing stands second to its exquisite conception.

The Twins at Culleston Manor in 1685.

It was not for a few years after their first visit to Culleston that Dolly and Betty were told the whole story, with its mingling of pathos and wasted heroism, of those other twins of the picture, Dorothea and Bettina Culleston, whom they henceforth always called " the brave little great-grandmothers." Nurse had related to them enough to arouse in their minds a very keen interest, as well as a sense of pride, in belonging to a family which had taken part in historic events of nearly a century and a half ago, and this interest was accentuated when their great-aunt, Rebecca Lemorne, sent them as pupils to the time-honored old school on Castle Green, which, in spite of many changes, had educated generation after generation of the daughters of the county families of Somersetshire, and to be educated at which conferred a kind of hall-mark of distinction upon every pupil.

As they passed through the curiously winding corridors, stepped up and down stairs placed in unexpected corners, exchanged schoolgirl confidences in the deep embrasures of small-paned windows, or sat upon the backless benches (for what girl at that time could possibly require any support but her own backbone ?) of the room allotted for their hours of study, the whole place was peopled

for them by the twelve little maids of Taunton. which formed the contingent contributed by their school to the long procession of girls who bow-knots of blue — the Monmouth colors-bearing each a flag and following the banner their hands had wrought, with its fatal insignias of a royalty to which he had no claim, marched to welcome the rebel Duke to Taunton in 1685. Monmouth had but lately landed in England, to bring, as it was claimed

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" modpanion er says string nain of do too nfitting usefulrowded a wise to take nan she successhealth s satisthough Indeed, than a



The Doctor.

mouth to-mouth tradition to tell the tale.

This is the summing up of history: "1685.—Insurrection of Monmouth and Argyle; both executed. Judge Jeffreys' Bloody Assize. In the Bloody Assize the King's revenge was wreaked for Monmouth's uprising. Jefreys boasted that he had hanged more traitors than all his predecessors since the Conquest. Of this

THE FARMERS ADVOCATE.

circuit, 300 were hanged and 800 brought to despair and death his safe, must be safe, with Mistress sold into slavery in the West Indies, 100 were awarded to the Queen, and battle of Sedgmoor has been fought But here comes news of them at the profit she made on them was and lost. My husband lies wounded, last." 1,000 guineas. Great sums were my sons are, where? But, thank realized by the judge himself and God, my dear little daughters are others from the sale of pardons. Twenty-four (some say twenty-seven) young girls of Taunton who presented flowers and banners to Monmouth when he entered their town, were arrested and given to the maids of honor of the court as their share of the spoils. Two thousand pounds were paid for their escape.

Truly, even thus pithily told, has not the story many elements of tragedy within it ?

SOME RECORDS FROM THE OLD CABINET AT CULLESTON.

Dorothea writes : "June 20th,

1685, Castle Green School.-My flag is finished at last, and I have been able to help Bettina with hers. There was more work on hers than on mine, because she had to embroider the arms of Taunton, whilst mine was just a drawn sword and a motto. We chose our own designs, and some were mightily pretty ones, each meaning more than did seem at a glance. That with the biggest meaning of all had a crown worked upon it, and, oh, if our cause is lost, it will go harder with our dear little Letitia Lamorne than with the rest of us. For though we keep saying, "We shall win ! We shall win !" we older girls do know that there may be real danger for us, even in the very small share we are allowed to take in England's great deliverance. You see there is such a mighty enthusiasm over the whole countryside, men, either duly equipped with arms or with no other weapons than scythes and reaping hooks; men on horseback, men on foot, men springing up like mushrooms by day-dawn from hill and dale, shouting, 'A Mon-mouth ! A Monmouth !', that we believe the cause is as good as won already. The King's militia have fallen back, those who are still ful throng of happy souls. known to be Royalists keep within doors, and it is confidently asserted that the King himself trembles on his throne. If it is all true, it will be something, indeed, to be proud of that the maids of Taunton were allowed a share in the hour of triumph.'

Bettina writes :

"The great day is over-a day, the memory of which must ever remain in our hearts, whatever may betide. I thought no girl so sweet in face and graceful in carriage as sister Dorothea. No wonder that mistress and pupils alike of Castle Green School: no wonder young Ned Halliday, of Barton Regis, never has eyes for any other when our Dorothea is by, and no wonder was banner, and presented it with fitting words to him who was presently to be announced as King of England, and whose proclamation was to be read, after the blowing of trumpets and shouts of rejoicing, in the market place of Taunton Town. 1 think, too, we were all proud of our mistress, as, with bent knee, she offered the hero of the day the Bible and cient rule under which he pledged to his people his royal word that they should henceforth live and prosper." Later on, Madam Culleston writes : Alack a day ! What a fool's paradise we have lived in ! What a jay in remock's feathers has the Duke of

blind and gallant followers. The Tredgood at Castle Green School. H. A. B. (To be continued.)



'In Due Season We Shall Reap."

Having said so much lately about sowing, I will now give you some selections from Miss Havergal's poem, "The Sowers," which throws ome light on the joy of the harvest.

One who though she had little to sow, but did what she could because she loved the Master, gave only quiet words, spoken, or "traced with timid pen." Her seed sprang up, often unknown to the sower, and

" She, who timidly had scattered

Trembling line or whispered word, Till the holy work grew dearer,

And the sacred courage clearer, Now her Master's own voice heard

Calling shining throngs around her,

All her own fair harvest found.

Then, her humble name confessing, With His radiant smile of blessing,

All her dower of gladness crowned."

One had planned to sow much seed, to fill broad furrows, and to watch it spring, and water it with care," but God gave him other and less attractive work to do. 'The willing laborer was laid, weak and helpless, on a bed of sickness, but he was not idle. From that silent room floated winged seeds of thought and prayer. When he at last laid down the heavy cross of pain, he was met by a grate-

Who art thou? I never saw thee In my pilgrimage below,' Said he, marvelling."

And what an answer he received ! Well might he marvel and rejo'ce when he saw how the tiny seeds had grown and increased. These are the words he heard

Words that issued from thy chamber Turned my darkness into light, Guided footsteps weak and weary. Through the desert wild and dreary Through the valley of the night. Come ! for many another waits thee !

When he came joyfully forward to meet his Master's smile of approval and lay the full sheaves at his feet, a glittering throng joined him

"Whose voice had taught them, To the praise of Him who brought them In a new and rapturous psalm.'

Another who longed to sow much seed had no bright grains of thought or fiery words of power to give, so he sowed, prayerfully, the words of others-lending books or copying helpful verses. In the harvest time, he only expected to rejoice in the joy of others, but, to his great surprise,

'Great and gracious words were spoken Of his faithful service done,

By the voice that thrills all heaven; And mysterious rule was given

To that meek and marvelling one.'

A little child who loved the King scattered seeds of love and joy, showing a wondering world how glad and happy anyone must be who walks always holding the Father's hand and asked ye how ye got a livin', and looking up into His face. He, too, found a rich harvest, for :

Aged ones and feeble mourners Felt the solace of his smile ; Hastened on with footsteps lighter, Battled on with courage brighter, Through the lessening 'little while,'

Till they, too, had joined the mansions

Where the weary are at rest. Could that little one forget them ? Oh, how joyously he met them In his dear home safe and blest ! And the Saviour who had called him. Smiled upon his little one ;

On his brow, so fair and tender

Set a crown of heavenly splendor, With the gracious word, 'Well done !'''

One who had spent years in a still, darkened room, patiently enduring the weary monotony of helplessness, thinking that she could sow no seed, speak no words for Christ, only, suffer and he still " also had a share in the great harvest song. Round her, too, were piled golden sheaves, although she had thought herself only a burden to others and no use at all.

FOUNDED 1866

richest harvests, but surely a great many people will be surprised on that day. Some who feel satisfied that they have sown much seed may find that they have been watering it with pride and vanity, instead of with prayer and humility. Only God can give the increase, and He loves to honor meek souls who seek to glorify Him rather tham themselves. HOPE.

The Right Way.

Dr. Norman Macleod lost his way as he was going to a place called Dafflin, to christen an infant, when he met a herd-boy, and the following conversation took place :

" There's gaun to be a fine shine at the Dafflin th' neet."

"Aye, what's going to be up at the Dafflin ?"

" The meenister's cumin' to bapteese the wean. I've got the cookies i' th' bag."

Norman did not tell the lad that he himself was "the meenister " in question, but said, " Noo, how d' ye get a livin' ?"

"Oh, I'm just a herd-laddie I split the wood, and carry the water, and bring the kye hame, and do just what I'm telt.'

There was a moment's silence. Then the boy, turning to Norman, said, with a mark of interrogation in each eye, " Hoo d'ye get a livin' ?"

Well, that's a fair question. I ye telt me; now, I'll tell ye how I get a livin'. I get a livin' by tellin' auld folk, and young folk, and little folk like ye the way to heaven.

That little boy stood still and simply screamed with laughter. His laughter was uncontrollable. He was doubled up with laughter. When the tumult of merriment was over, he said to Norman, " That's a good 'un.'' Another burst of laughter, and then this profound inquiry, "Hoo can ye tell the way t' hivven when ye dinna ken th' way t' th' Dafflin?"-Chimes.

The Old Rail Fence.

Oh, those blithesome boyhood days With their happy truant ways, When every little sorrow Had its joy to recompense, Excepting just one grief That never found relief From the terr

ded thou Through the ecstatic revelation Of their endless exultation, What our God hath wrought by

Another consecrated his musical talent to the Master's service, and to him also came the joy of harvest,

'Hark ! a voice all joy-inspiring Peals down the golden floor, Leading on a white-robed chorus, Sweet as flute, and yet sonorous As the many waters' roar.

He who sang for Jesus heard it ! 'Tis the echo of thy song ! Said the leader. As we listened, Cold hearts glowed and dim eyes glis-

And we learned to love and long Till the longing and the loving Soared to Him of whom you sang. Till our Alleluia, swelling, Through the glory all-excelling,

Up the Jasper arches rang.

One cast much seed on the waters, sowing often in weariness and with little apparent prospecct of a harvest.

The tide of human hearts still ebbed and flowed,

Less like the fruitful flood than

He saw not where it fell, and yet he sowed: Not yord shall it return,' said God,

T

Thousand, thousand-fold her guerdon, Thousand, Thousand-fold her bliss ! While His cup of suffering sharing, All His will so meekly bearing, He was gloriously preparing

This for her, and her for this."

God sends many laborers into His vineyard, but he does not give them all the same work to do. Some of King David's men were, on one occasion, unwilling to share the spoils of battie with some of their comrades, who were faint and weary and unable to join in the fight. David settled the question, and made it a law in Israel that "As his part is that goeth down to the battle, so shall his part be that tarrieth by the stuff; they shall part alike," He was only enforcing God's command to Moses to "divide the prey into two parts : between them that took the war upon them, who went out to battle, and between all the congregation.'

No one can stand alone. One may he called to preach to great congregations, and another may have the less interesting work of cooking his The "Old Rail Fence" is passing; meals and keeping his house comfort- Oh, quickly speed the day able. Surely the person who does When the last rail the necessary housework, leaving the preacher free to prepare his sermons in peace and quietness, is helping to lf I might look on the glow

Only God knows who will reap the

Fence."

As soon as spring had come With the sunshine glowing warm, A fear began to haunt us And we waited in suspense, For we knew that it was coming With the yellow hammer's drumming, The moving of that "Old Rail Fence."

Through the warm bright days of spring The birds might build and sing, But all of this, for us, Was of little consequence. For what was springtide joy To a luckless farmer boy Working at an "Old Rail Fence?"

When, midst summer's toil and strain There came a friendly rain With its ever gladsome promise Of a day of indolence, It only found us wishing That we, too, might go a fishing While fixing up some "Old Rail Fence."

Then come drowsy autumn days With their cobwebs and their haze, When all nature seems a resting From Harvest's toil intense, But our muscles can't relax For we must fence the stacks, Fence them with an "Old Rail Fence."

No tears of mine would flow of the embers of the last "Rail

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JANUARY 27, 1904

THE FARMERS ADVOCATE.



Dear Friends,-

To-day I have the privilege of giving you an article which has been sent in by "A Farmer's Wife," to whom the subject was suggested by our recent competition topic. It gives us the question, " How to Enjoy the Winter," considered from a mother's standpoint. We think the observation that the species of amusement must be suited to the disposition of the individual, is well taken. There is little use of forcing on one what one has positive dislike for. At the same time, as "Farmer's Wife " has said, it is possible, to a great extent, to lead children to like advisable forms of recreation, one of which, most certainly, is the habit of reading, and of choosing good literature. On the other hand, it must not be forgotten that it is just as necessary to train the bookish child to like taking physical exercise regularly. The parent, in every case, must study the child.

How to Enjoy the Winter.

By a Farmer's Wife.

" Enjoyments and recreations must be as varied as the character of the individuals for whom they are planned. What to one person would be a positive delight, to another would be an irksome task. One bey will delight in games, another must have skates, while a third can only be content when training his favorite steed. While endeavoring, to a certain extent, to cater to their fancies, and allow them to indulge in their favorite pastime, it should be our aim to cultivate in our children a taste for more enduring pleasures.

* * * *

" Reading, for example, is not dependent on any season, age, habits or conditions of life, but may be enjoyed by young and old, rich and poor alike for, while the tastes which require physical strength decline with age, that for reading steadily grows. It is also a pleasure which enhances many others; it adds to the pleasures of society, of travel, of art, and leads us to take a

might develop hospitality to meet from house to house

'The evenings spent in preparation; the pleasant walks or drives to and from the gatherings; the consciousness that you are improving yourself, and, it may be, contributing a little to the happiness of others, must be a source of unalloyed pleasure. I have described only one form of amusement for winter evenings; many others might be suggested, but time will not permit us to dwell on this very attractive theme.'

We have also, to-day, a letter from an enthusiastic lover of Dickens. I have enjoyed this letter very much, and must congratulate Miss Mc-Tavish on her faculty of being able to form pretty solid judgment on be read. Dickens never again wrote that which she reads, as well as her such a book-nobody has ever written faculty in telling her opinions in few such another book. and crisp words. Perhaps Miss Mc-



creative writers. Next to Shakespeare, solved in warm water. point in conversation and reading.

is a proverb.

"After Copperfield, Pickwick ought to of others."

"Dickens is often referred to as the Tavish would like to hear what a laughing philosopher. Quite the most

The Advocate in the Home.

That the Farmer's Advocate is fast becoming the women's paper as well as the men's, is very clear to us from the numbers of letters filled with praise of it which the women send in to our offices. One woman wrote recently: "We have to drop some of our papers, but the Advocate will not be one. We find it to be the greatest help to us." And this is only a sample of many that we receive. We are glad to know of this appreciation, and assure our readers that we are trying in every way to deserve it. We are sparing no expense to make the Farmer's Advocate the most attractive and useful paper that enters the farmer's home. Indeed, few people, perhaps, have any idea of the amount that it costs to run a thoroughly highclass paper such as ours. But we are determined that the Farmer's Advocate shall maintain its position at

Stir thoroughly. Add four cups of gradually warm water, until the crock is Here is one practical reason for three parts full. When lokewarm, add reading Dickens. He is one of the most one Royal yeast cake, previously dishe supplies most of the current quota- crock, and keep in a moderably warm ticns. Not to know and understand place over night. In the moderably, rethem is to be perpetually missing the move to cellar and keep from freezing This will keep a month or until used. "Dickens' personages are all alive, Take three cups of this yeast, add a and, I believe, immortal. Not to en- little more salt and three quarts of joy their acquaintance is to be exceed- warm water (this will make a large ingly unfortunate. One who is still so battch). In cold weather make the happy as to have all of Dickens unread water quite warm, or warm the flour. before him, had probably better begin Stiffen this ready to mold; cover closely, with David Copperfield. If he does not and wrap warmly. This will be ready enjoy this delightful book, it is likely he for molding early in the morning. Knead had better abandon his researches into in the pan, then turn on a warm board; Dickens. For humor and tenderness, knead again, as much of the success this book is among his masterpieces; depends on this. The better way is to though the pathos as to Dora and her, cut off a piece the size of a loaf; after Dying Dog, may be forced, though the molding, lay on one side of board until tale is too long, and though Little all has been gone over in this way; then Em'ly is, or has come to seem, conven- commence at the first and shape into tional. The heroine has not many ad- loaves for the pan. Set in a warm mirers, for, as a rule, we do not love place to rise.' This method is simple Dickens' women, but his men and boys and easy, and any farmer's wife who finds are simply delightful, and Mr. Micawber breadmaking a task should give it a trial, and report for the encouragement

MRS. MARY E. BYCRAFT.

We are very grateful to Mrs. Bycraft for her ready response to our request, and dare to hope she will come again with many other practical suggestions. DAME DURDEN.

"Farmer's Advocate," office, Winnipeg.

Domestic Economy.

A day or two's abstinence from solid food aids the system to throw off a cold.

Cloths (flannel) wrung from hot water often relieve neuralgia and other severe pains.

If hiccoughs do not yield to the usual remedy of drinking water very slowly, take a small piece of sugar and dissolve it gradually on the tongue.

Heartburn can be immediately got rid of by taking cream of tartar, about half a teaspoonful in half a glass of water. It makes a pleasant effervescent drink, cooling to the blood.

The best treatment for a bruise is an immediate application of hot fomentations; after that, witch nazel, vinegar and hot water or alcohol and water, put on with a bandage and often moistened.

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greater interest in what is going on in the world around us. * * * *

 $^{\prime\prime}$ I would suggest as one of the first requisites to a pleasant, profitable and interesting winter, a definite plan of work, something to accomplish which we have never done before. If school boys or girls, we can aim at reaching a certain standard in our studies; or, it may be, we can take the initiative steps in learning some trade or profession. If older, we can plan, arrange, and perhaps accomplish some improvement in our buildings or home surroundings; but let us do 'something.

* * * *

" In the country, for the young people, and young-old people, 'a literary society could be formed or organized. Meetings could be held, essays written, debates given, and subjects appointed for discussion. Impromptu speeches are very helpful in training us to express ournot wasted in talking at random. We as the following: 'Education: What it is and does'; ''Benefits of Classic Education '; ' The Novel : Its Origin and Use'; 'Canadian Poets and Poetry'; " Canadian Statesmen of the Nineteenth Century, or any Century," and many others would arise from these. Do not the very top. We ask the readers of the Home Department to tell their friends of our paper and get them to subscribe for it. Push the Advocate. You will be helping both your friends and adding to the welfare of the country by doing so.

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prominent critic, Mr. Walter Trewen comic of his later works is Great Ex-Lord, recently said in regard to pectations, where the terrible and the

whole, what Tourgueneff said of Le deathbed or suffering childhood. Nabab-that it may be described as being in some parts very great, while become old-fashioned, and only intelmuch of it is backwork. If there is legible with more or less of an effort. A something in Dickens that we would great many of the social abuses which prefer to forget, there is at least as he satirized are modified, if not abolmuch that we cannot forget if we ished. His pathos is often forced, and oven. Lay the thin slices, with rind would. He is often a caricaturist, we resent the continual struggle to make but at least as often he is us cry; but let us forget his faults in far a hove all caricaturists. his merits. His place is not with the greatest artists. He does not live with the much pleased if the effort hings new Veroneses and the Titrans, but he is readers to Inckens, and sends old readers far apart from the Caraccisti. He back to him, in whose words we always is hardly Rembrandt, but we cannot find something new and fresh, causing the Ostades. He is not academic, he remained to the last untrained, un- Another Ingle Nook Friend. sciously or unconsciously-one would Noticing, in the issue of the seventh, a attempt too much in one evening. Have scionally or unconsciously—one would vous discussions interspersed with even say that he despised them. As music, vocal and instrumental. A wise a result, he often created, and he of breadmaking than that sent to New volume to the terms of the seventh. music, vocal and instrumental. A wise a result, ne often created, and he of breadmaking than that sent to New leader will endeavor to draw out the often drivelled. He cheers as beyond talents of each member. A very small any other writer that ever lived, and 'tried' recipe: Into a three-gallon tried' recipe: Into a three-gallon crock, put four cups of flour, one cup of salt and one cup of sugar, pour boiling of lighting and heating a room, or it Charles Dickens."

humorous are deftly blended. Here, too, We may say of his work, as a the pathos is moral, not that of the

" In this age of change, Dickens must

" Dear friends of the Ingle Nook,salt and one cup of sugar, pour boiling water over this, about three quarts

Sprains require prompt treatment. Immediately on receiving the injury bathe the part in water as hot as can be borne, and then swathe in compresses of witch hazel, changing as each becomes dry.

There is nothing so good as turpentine for a bruise or cut. It will smart for a moment, but takes out every particle of soreness in an incredibly short time. Wet a cloth and bind on and keep it wet. Witch hazel is good also, but the turpentine

Bacon is much better flavored and three to five minutes, according to the thickness of the slices. When brown and crisp, slide onto a platter, pour off the grease and use for frying bacon, or make a thickened milk gravy in the pan.

Sirs,-I like the "Farmer's Advo-cate" very much, not only for the help it gives relating to farming, but its moral tone is uplifting, and the Home Magazine department and Quiet Hour is edifying. I join in wishing the editor, and all the staff, a Happy New Year.

W. E. H. GARDINER. Middlesex Co.

THE FARMERS ADVOCATE

Why He was Not Promoted.

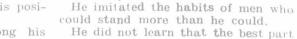
He watched the clock. He was always grumbling. He was always behindhand. He had no iron in his blood. He was willing but unfitted. He did not believe in himself. He asked too many questions. He was stung by a bad book. His stock excuse was " I forgot." He wasn't ready for the next step. He did not put his heart in his work.

He learned nothing from his blunders

He felt that he was above his posi-

He chose his friends among his inferiors.

He was content to be a second- envelope.-["Success." rate man.



the place of ability.

ment every evening.

paralyzed his ideal.

doing things.

judgment.

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of his salary was not in his pay-

coarse and profane language.

cause they were old-fashioned.

He ruined his ability by h

He did not think it worth while

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Familiarity with slipshod methods

He thought it was clever to use

He was ashamed of his parents be-

He never dared to act on his

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Insect Pests.

Sometimes, during the winter, house plants become infested with insect life to a degree which changes them from things of beauty into objects loathsome alike to sight and touch. You feel tempted to carry them all out and tumble them into the snow somewhere, where Jack Frost may have a chance of cleaning them. There is, however, no necessity of sacrificing ones plants like this, for, with just a little trouble, they may be made quite clean and healthy again. But it will not do to waste any time about it. In the hot, dry atmosphere of the house, these lice, or aphides, as they are called, multiply with great rapidity. Moreover, while here, they are immune from the host of larger enemies which prey upon them in the summer, and so have every possible chance for working what destruction they please.

The species of insects which are most frequently found upon plants in the house are: the green louse hard brown scales, which cling to the (sometimes called the green fly, be- stems of hard-wooded plants. ause. it has wings), the mealy bug, red spider, and scale insect. Of these, the green fly, mealy bug and scale insect all belong to the order Hemiptera, of which there are over 20,000 species. They are all provided with mouths fitted for piercing and sucking, rather than for biting, and they exude from their bodies a sweetish, sticky fluid, called honeydew, which sometimes drips from the stems and leaves of the plants on which the lice are. This substance, as may be imagined, attracts ants. if any be in the vicinity, and, for this reason, plant lice have been termed the "milch cows of the It has been observed ants." by the naturalists that ants, 4. Lemon juice will quickly remove with their customary sagacity (one can scarcely call it instinct). care for the plant lice, and drive away their enemies, and even carry them, at times, to better feeding 6. Lemon juice is more wholesome grounds. However, all these interesting things do not help us to like the little pests any better, if they appear on our house plants. It is an old saying that "prevention is better than cure," and nowhere is this adage more true than if, indeed, they come at all. in caring for house plants. Tf proper care be taken to have plenty done with your hyacinth. All you of good, pure air about them, to can do now is to diminish the light The function of a of good, pure an about them, to take to now is to uniform the light with hemon grated and added to keep the atmosphere moist (the somewhat, and put the bulb in a providing will make a different "steamy" atmosphere of the kitchen cooler place for a while, until the is a good place), and to give them root-growth has had a chance to to held hice and frequent washings, or spraying, with take place. Remember that you did of blaced in a tepid water, there will be little must not hurry bulbs at the start, the start, the start, how if you would have success with ever, they do appear, try giving the them.

plants a good bath in water heated to 136 degrees-higher than that will injure the leaves-or, if you spray it on, heat the water to 140 degrees. If this proves ineffectual, for the green louse, spray or wash the plants well with a solution of sulphotobacco soap, which may be procured from any seedsman or dealer in florists' supplies. If you cannot get this conveniently, use castile soap instead.

If your plants look sickly, and the leaves are dropping off rapidly, examine the under side of the latter. If they look dusty, or have small, rustlike spots on them, you may take it for granted that the tiny red spider is working his depredations there. In order to rout him, spray forcibly with warm water, directing the spray chiefly on the under side of the leaves, or spray with sulphotobacco soap solution, or weak tobacco water.

For mealy bugs, which look like tiny tufts of cotton-batting stuck along the stems, syringe with whaleoil-soap solution, or simply wash frequently with warm water.

The scale insect is merely a species of plant louse, whose presence makes itself known by the appearance of They occasionally, on If you detach some of the larger scales carefully you will find the lice underneath. In order to remove this pest, brush the scales off with an old tooth-brush, and spray with a weak kerosene emulsion mixture. If plants are being injured by earth worms in the soil, immerse the pot in limewater, so that the soil is soaked with it, and, according as the worms come to the top, remove them.

145



The Foot-bath.

A foot-bath can be given in _bed. Put a blanket over the lower sheet and pillow; let the patient lie on it upon his back, covered by another blanket, with the upper sheet and remainder of bedclothes over that, and take off all clothing, slipping it over the head. The patient is now lying between two blankets. Tuck them in around the neck, and then arrange the rest of the bedclothes, tucking them in also, in such a way that the sheet comes around the face. The upper sheet may be taken off altogether. To do this, hold the blankets at the top with one hand, and pull down the sheet from under them with the other ; then fold a towel over the blankets around the face. Now spread a large towel under the knees, and, standing at the side of the bed, place the tub upon it, the patient putting his feet in at the same time.

THE KNEES MUST BE WELL BENT

or the patient will not be able to get his feet in comfortably, and the tub will very likely upset. Another person may hold the ends of the bedclothes up a little to prevent them from getting wet, or one corner may be folded back from the feet to the knees while putting in the tub, and all can be done without uncovering or chilling the patient. Let the water be as warm as he can stand it. After a few minutes take out a little with a small pitcher, and put back the same amount of hotter water, keeping it well above the ankles. Tuck in the clothes all about the patient and the tub. A few flatirons will help, not placed next to the body, but on the outside of the blanket covering the patient, and well wrapped in paper.

A COLD, WET TOWEL

should be placed under the chin outside the bedclothes, to prevent the feeling of suffocation sometimes exerienced just before perspiration begins, and a cloth wrung out in very cold water must be laid on the forehead. This is very important, and must never be omitted. In fifteen or twenty minutes remove the tub, the lowel already placed there, wrap it around them and allow Lim to enbend his knees. Leave him in the blankets for a few minutes. He should then be washed off under the blankets with warm water, to which a handful of common salt may be added, and dried with a clean Wash the back last, and towel. when that is done, and the patient is still lying on his side, take the end of the blanket underneath him and roll it lengthwise towards the middle of the bed, finally pushing it under him as far as it will go easily, then let him turn upon his back and there will be no trouble in pulling the remainder of it out on the other side. Put on the night garment next. The arms go in first, then the head is raised, and the garment taken over it and the shoulders, after chuch it can be gently pulled down ress. streight under the back. The bland

in the ordinary way, replace the blankets, tuck the whole in, and then draw the sheet up over the patient underneath the blankets. Leave a hot iron or bag at the foot of the bed, not necessarily touching the feet.

TO PLACE A BLANKET UNDER A PATIENT ALREADY IN BED.

Loosen the bedclothes everywhere turn the patient upon his side, and fold the clothes after him, so that half the bed is uncovered. Next. standing at the side of the bed with his back towards you, take a blanket lengthwise in your hands, gathering it up in them until less than half remains hanging. Lay this on the uncovered part of the bed, spread it evenly, and push the gathered part in a bunch gently under the patient's Then turn him over carefully back. upon the blanket already prepared for him, and pull the gathered part which is thus left free over that portion of the bed just vacated, and make it straight and smooth all over, especially under the back. If for any reason

NO FOOT-TUB IS FORTHCOMING and there is nothing that can be made to answer the purpose, a good result may be obtained by placing hot irons, or bricks, or bags, all round the patient, the programme in other respects being exactly the same as when the tub is used. Great care must be taken not to burn the patient. Under unusual circumstances, when it might be inconvenient or impossible to wash the patient off with water, which is the best thing after free perspiration, the next best thing is to wipe him with absolutely clean towels, and put on an absolutely clean night garment. Always bathe the face with cold or cool water.

Lastly, the more the patient perspires the better it is for him. 1t. will not weaken him, but relieve his system of waste matter and impurities, and he should drink cold water freely while taking the bath. This is accomplished by the nurse raising his head with one hand, which she places under his pillow, and holding the glass for him with the other. The patient should be instructed not

thrust his chin into the air to depress it, when it will be found quite easy for him to drink without spilling the water. A. G. OWEN.

What Lemons are Good for.

1. Give hot lemonade at bedtime to cure a cold.

2. Bake a lemon, take out the inside and mix with sugar to make a thick syrup. Keep it warm, and take a teaspoonful frequently to drive away a cough.

3. Lemon juice is good to rub on the hands and face at bedtime to remove tan and clear the complexion, but dilute it with water, else it will darken the skin.

stains from the hands.

5. A glass of lemonade taken every morning will sometimes prevent bilious attacks.

than vinegar when used in salads, sauces, etc.

7. A slice of lemon bound on a corn at night will remove the sore-

8. Don't waste the lemon rind. A little of it grated when iresh, and added to apple-pie or apple-sauce is an improvement. The rind of a

FLORA FERNLEAF. Farmer's Advocate " office, Winnipeg.

Answer to E. J. M. :

Bulbs may be planted at any time during the winter, but, after planting, it will be necessary to set the pot away for four or five weeks at the very least, in a cool, dark cellar, where the root growth may take place before the top sprouts are forced on. If you plant the bulb and set it immediately in a warm atmosphere, exposed to the light, the leaves will shoot up very rapidly, but the flowers will be likely to 'choke'' and not mature properly, We judge that this is what you have ED 1....

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JANUARY 27, 1904

THE FARMERS ADVOCATE.



Having a Good Time.

Annette had always lived in the city, but last summer she was sent And do not play at anything. to visit her cousins who live on a Canadian farm. Although the children were all born in this country, And follow 'round the forest track, the father and mother came from Away behind the sofa back. Switzerland, and they still have great faith in goat's milk. Annette All in my hunter's camp I lie, was very pale and thin when she first And play at books that I have read arrived, but after living out of doors Till it is time to go to bed. for two months, running barefoot and drinking plenty of goat's milk, These are the starry solitudes; her cheeks grew as round and rosy as yours, my dear little country cousins. Do you see how kind Her- I see the others far away, man is? He is very fond of his As if in fire-lit camp they lay, little cousin, and old Nanny looks pleased, too, and seems to understand that she is doing a great deal So, when my nurse comes in for me, of good to at least one small person. Home I return across the sea, How sorry Annette was when she And go to bed.with backward looks had to go back to the city, and how she chattered to her school chums about the lovely time she had. Bedtime always came too soon for her taste, and she was quite willing to agree with the child who said :

The clocks don't know their A B C's, And so they cannot spell; But yet they count much more than I, And seem to count quite well,

But what good so much counting does, I'd really like to know ?-Just sending people off to bed

Before they want to go.

But it is not only in the summer that people have a good time. I am sure you would be sorry if the summer lasted all the year round, and if our dear Canada never provided ice and snow for you children to enjoy. People who live in Florida or California may think a Canadian winter almost unbearable, but we don't feel afraid of a little cold weather, do we? Did you ever hear of "Mrs. Wiggs of the Cabbage Patch ?" She was not very warm, certainly, and her bare elbows were sticking out through the holes in a boy's old coat which she wore, but nothing could freeze her cheerfulness. 'This is the way she talked one cold day, when she had to pin the bed-clothes round the children, as they sat close to the stove, and paste brown paper over a hole in the window : "My, but it's nice an' cold this mornin'! The thermometer's done fell up to zero !" Mrs. Wiggs always tried to have a good time, and she generally succeeded, although sometimes she had to make-believe a great deal. She was very poor, but when unexpected visitors arrived just at dinner time, it never worried her in the least. "' 'Tain't no trouble at all," she re-marked, pleasantly. " All I've got to do is to put a little more water in the soup, and me and Jim won't take but one piece of bread." When the house was burned down. she still found something to enjoy, and said, "Thank God it was the pig instid of the baby that was burned !" I know two little Manitoba children who were in a railway accident a few weeks ago. The car was ly- grand palace - often a great deal ing on its side all day, and the mercury outside was about forty below zero, but they managed to have a good time. And it is something to talk about now the danger is over. Though you may not have any such exciting experiences, still you can have a good time by pretending that you are having adventures, acting things that you have read. You day, so that you can't go skating,

At evening, when the lamp is lit, Around the fire my parents sit ; They sit at home and talk and sing,

Now, with my little gun I crawl, All in the dark along the wall.

There, in the night, none can spy,

These are the hills, these are the woods, And there the river by whose brink The roaring lions come to drink.

And I, like to an Indian scout, Around their party prowled about.

At my dear land of story books.

makes things unpleasant indoors. As cut into functiful shapes shet baked or our friend, Mrs. Wiggs, says : "You made into tiny located face been fired mark my words, it ain't never no use with success. The e-puttin' up yer umbrell' till it rains." child : but there are I don't want you to copy her only the mother will thus. grammar, but if you want to have as many good times as she had, you must try her plan of looking out for pleasant things. You can always find plenty if you keep your eyes wide open. COUSIN DOROTHY.

The School Lunch.

If the children cannot come home to a hot dinner, their lunch-baskets should be made as dainty and appetizing as minced meat, sardines or nuts are delinot too rich, cake, some kind of fruit enough. and pickle, and as a surprise, occasionally, a tiny pie or a tart. In the winter time a small glass provided with a cover and filled with stewed or canned fruit will be found especially good. Here, too, the mother must guard against a sameness. There are so many little things which will be relished in the lunch-basket that there is no excuse for monotony. The hot dinner, whether at noon or at six o'clock, is the main meal of the day. There should always be meat, and that a different kind every day, if possible, potatoes and



1 1 1

Humorous.

Deeds, not words : Father (sternly) 'Didn't I tell you if any of the other boys said anything to make you angry. you should count twenty before you said anything?" Tommy—"Yes, sir; but I didn't need to say anything. Before I'd counted twelve the other boy yelled Enough ! '

Father-So you took dinner at Willie possible. Children should never carry a Stout's house to-day. I hope when it lunch put up in such a manner that they came to extra helpings you had manners are ashamed of it. Neat little sand- enough to say "No." Tommy-Oh, wiches filled with jelly, egg, cheese, yes, sir, I said "No" several times. Father-You did, eh? Tommy-Yes, sir; cious. A generous piece of good, though Mrs. Stout kept askin' me if I had

First Scot--What sort o' meenister hae ye gotten, Geordie? Second Scot-We seldom got a glint o' him ; six days o' th' week he's envees'ble, and on the seventh he's incomprehens'ble.

The gentleman who likes to ask questions was visiting kindergarten. Finally, he turned his attention to "Johnny."

"My boy," he said, "do you know how to make a Maltese cross ?

"Yes, sir," "Johnny" answered, promptly.

"Good ! " exclaimed the visitor, delighted to learn that in "Johnny's" case, at least, the work of hand and brain were going forward together "How would you go about it?"

"Why, jes' pull her tail," said Johnny;" "that's all."

CURZON WAS NOT CRUSHED.

Lord Curzon has been long noted for his cutting and cold remarks. Some years ago, says the railway official who tell the story, Lord Curzon came down from London by what was then the London, Chatham and Dover Railway, to address a political meeting at one of the Kent coast resorts. Lord Curzon was in a hurry. The train made its twenty miles an hour all right, but the future Viceroy thought it the slowest train on earth. He said so to the guard. That dignitary, as usual, took the remark as a personal insult.

" If you don't like the speed of this train, mister," he said, "you can get out and walk !"

Lord Curzon was not crushed. Tart as vinegar came the reply :

"I would, only they don't expect me till this train gets in ! "

Knitting as a Nerve Cure.

e larger the lice nove this h an old a weak

by earth the pot soil is ig as the ve them. LEAF. , Winni-

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ny time r plantset the ve**e**ks at lark celnay take uts are he bulb a warm ight, the rapidly, kely to properly, We ou have All you the light b in a ntil the ance to at you ne start, ss with

Having a Good Time.

that the best times always come dessert there are puddings without when you are trying to make number to choose from. Children al- nothing is more southing to the other people enjoy themselves. It isn't my business to preach, but I must remind you of this way of having a good time, so that you may go right off and try it. It doesn't matter whether you live in a big, roomy farmhouse or in a little shack on the prairie. Happiness is a flower that can grow in every kind of climate, and it thrives just as well in a little shabby home as in a better. It is like a geranium which will flower splendidly in an old tin Water your plant of happiness with love and good temper, and don't forget that rudeness and unkindness will make it wither. If you don't want to kill it altogether. try to keep from worrying. There may be a blizzard coming on Saturing things that you have read. Four day, so that you can be so and if on Friday A small fancy cup or glass will often do The woman smiled, and said she land of story books. This is his won't do anything to make the much toward coaxing the appetite, as did not know how to knit, but that

But you have found out long ago one or two other vegetables, and for cold meats or light salads, and some you " cakes will be appreciated. As a variety He went on to explain that his atbe relished.

> Very often milk, which is always nour- cellent success, to a dozen women, ishing, would not be tasted if served in "The shining needles," he said, ishing, would not be tasted if served in when a large slice would be refused. articles."

s told of Robert Louis Stevenson that one of the many things he learned to do to keep him amused when he was restless or ill was to knit. There are many men of a generation much older than ours who improve odd moments by working with yarn and needles. But women, to be women, simply must knit after their hair is gray, and it is good for them.

" My prescription, madam, is that you knit two hours daily," said the physician.

" Knit !" exclaimed the nervous patient. "Why on earth should I knit ?"

The doctor replied : " Because ways relish jellies, and, except for very nerves ; because nothing conduces to young children, pickles, if used moder- such a calm and cheering frame of ately, do no harm. For the evening re-past, if the dinner was served at noon, you, but knitting will be interposed to bread and butter, milk or some hot will do you much more provid. I be beverage in winter, fruit or preserves, lieve that a month of it will cura

warm rolls, hot potato cakes, etc., will tention had been called to an article in a medical journal on the benefi-No mother should think it too much cent effects of knitting and he had trouble to coax a delicate appetite. prescribed the treatment, with ex-

a big glass, while it would be a delight " playing swiftly among soft-colored to drink it from a tiny tumbler or a silks or wools, engage the eyes wineglass. A glass of milk heated to pleasantly, and fill the mind with hoiling point and half an egg stirred in cheery and same thoughts. At the to thicken it is delicious with a little same time they may produce admirsugar and ground cinnamon stirred in. able things - golf waistcoats, golf Toast cut into fancy shapes, browned stockings of wool, delicate evening nicely and buttered will often be eaten stockings of silk, shawls, a hundred

weather fine outdoors, and it only will also a pretty plate. Bread dough she would begin to learn at once.

Humorous.

x (-

A philanthropic old lady in Exeter, England, very keen on the drink question, got hold of a very bibulous old butter, three-quarters of a cup of sweet sailor, whom everybody had given up milk, whites of six eggs, three cups of as a bad job. He had lost a leg and one eye, and used to do odd jobs about the market-place. He told the lady that if he could once get a fair start on his own account he would try to reform; many of the jobs he now did being paid for in drink. The old lady after much thought, purchased for him a tray to hang round his neck with a broad strap, and a supply of nice gingerbread, and she taught him the following sentence to repeat at intervals : "Will any good, kind Christian buy some fine spicy gingerbread from a poor, afflicted old man?" When he had sold a shilling's worth he congratulated himself on cup of powdered sugar. Spread this behis strength of abstinence, and thought tween the layers of cake Then to one he would treat resolution to just onehalf pint of beer. This, needless to say, led to one or two more, and when he resumed his station on the pavement, his cry became a little mixed, and in a loud voice he appealed to passersby with: "Will any poor, afflicted Christian buy some good, kind gingerbred from a fine, spicy old man?" Trade became very good, and he again treated the resolution with the result that his cry became : "Will any fine, spicy Christian buy some poor, afflicted gingerbread from a good, kind old man?

Lost Himself.

An absent-minded professor was much annoved by the troubles he experienced every morning in hunting for his clothes, for he never could remember where he had put them the night before when he undressed. So night in cold water enough to make a he devised the plan of writing down quart. In the morning cover the bottom of on a piece of paper where each article of clothing was placed as he took it off, and this is what he wrote :

' Coat on third peg, left-hand corner of room, waistcoat and trousers bake one hour. Serve cold with sugar on chair by bed, collar on doorhandle, tie through key of door, vest on floor by window, cuffs on knobs of bedstead, shirt on portmanteau, socks on gas bracket, boots outside door, professor in bed.

Next morning this plan seemed to work admirably; he collected his disgust, found it empty.

" Ah !" he eri

THE FARMERS ADVOCATE.

Recipes.

LEMON CHEESE CAKE.

flour, and three teaspoons baking powder.

-0-1-2-3-4 CAKE.

One cup butter, two cups sugar, three cups flour, four eggs, one cup milk, onehalf teaspoonful cream tartar, and onehalf teaspoon soda. Very good.

COCOANUT LAYER CAKE.

Excellent. Two cups sugar, one-half cup of butter, three eggs, one cup of milk, three cups flour, and two teaspoonfuls baking powder. Bake as for jelly cake, in six round tins. Filling-One cup good cocoanut, shredded; whites of three eggs, beaten to a froth, and one fourth cup of cocoanut add four tablespoonfuls of powdered sugar and spread thickly over top of cake.

-0-

COLD SLAW.

Sprinkle a quart of finely-chopped cabbage with salt; let it stand an hour or more. Drain off the liquor into a granite saucepan. Then pour into it half pint of strong vinegar, a piece of butter (size of a hickory nut), a teaspoon of mixed mustard, half teaspoon black pepper, and a dash of red pepper. Let this come to a boil. Then stir in two well-beaten eggs and three tablespoons of sweet cream. Pour not over the cabbage, and serve cold. A most delicious relish with all kinds of meat.

TAPIOCA FRUIT PUDDING.

One-half cup of tapfoca, soaked over a pudding pan with any kind of fruit (peaches or quinces are very nice), and sprinkle with one-half cup of sugar. Pour the tapioca over the fruit, and

...

SIMPLE PUDDING.

Put a pint of milk in a saucepan, and, as soon as it begins to boil, stir in three tablespoonfuls of flour, stirring briskly. Let it cool a little, and put in three garments rapidly, but when he came pieces of candied orange peel cut in to the last item on the list he went shreds, a little grated nutmeg, and a over to the bed, and, to his great teacup of treacle, with one whole egg. Mix well, and turn into a pie dish lined with a nice, short crust. Bake in a hot now the professor is lost; this oven for half an hour.--[Mass. Plough-



wrap the perches with it, and put pieces in the bottom of the nests. 10. Use it instead of American imported paper roofing. Mr. W. G. Fonseca :

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THE FARMER'S ADVOCATE OR

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ed, in bewilderment, plan is no good. What shall I do man. now !"

Color and Temperament.

Few people seem to realize the really strong effect that their color the custard as usual. It will not curdle. ment. It is a great mistake to live in a saucepan, with half a pint of cream, in rooms papered with dark wall one cooked onion, well chopped, and a papers. They may be economical piece of butter colled and worked in from the point of view of not showing the dirt, but they are really most it boils. Then move the pan to one disastrous to the spirits. A warm side, and mix in the beaten yolks of two yellow or a good rose pink looks eggs and a spoonful of any flavoring precheerful, and reminds one of sunny ferred. Stir over the fire until it thickdays, while a pretty green, not too ens, but do not let it boil again. Serve vivid in tint, suggests the delicate in a sauce dish with the game. lines of spring. A paper covered there are certain schemes of coloring smoothly around a good-sized bottle. that hurt the eyes and tire one to Tart apples and crisp celery cut up in others while blue becomes a dirty maise dressing.

.... HINTS TO HOUSEKEEPERS.

Those who have trouble with custards are recommended to scald the milk to be used, set it aside until cool, and make To make cream sauce for venison, put flour. Stir the whole over the fire till

Restore creased ribbons by laying them with a large pattern in dark color- evenly on a board or table, and dampen ings somehow seems to lend a gloomy them with a clean sponge and a little effect to even the largest room, while clear water. Then roll them tightly and

look at. It may interest readers to equal quantities and mixed with hickoryknow that green papers have the nut meats make an excellent salad. reputation of fading sooner than Serve on lettuce hearts with a mayon-

For fig jelly filling take a pound of figs, chopped fine, a cupful of sugar, and them very balf a cupful of boiling water. Boil to

for caramel filling for cakes, boil a or brown sagar in a half cupful of



TRADE NOTES.

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another column, in which is listed a big selection of organs. These instruments have been taken by that reliable old firm of Gourlay, Winter & Leening! possible prices. Read their offer, and

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QUESTIONS AND ANSWERS. VETERINARY.

CHRONIC LAMINITIS.

Horse is sore in front after getting up. The stiffness disappears on exercise. He stumbles frequently, and lies a great J. S.

Ans .- He has chronic laminitis (inflammation of the feet), and it is doubtful if he will ever be all right again. Take the shoes off. Give him a nice box stall. Clip the hair off for about two inches high all around the heoi, and blister with two drachms each of conform to their terms, if an instrument mixed with two ounces vaseline. Rub the blister well in. Tie him so that he cannot bite the parts. In twenty-four hours, rub well again with the blister, and in twenty-four hours longer, wash off their bank at Moose Jaw, Assa. Mr. the stall now, and apply sweet oil every R. A. Rumsey has been moved from day until the scab comes off; then tie up the found States to 106 when there is snow.

Manager on this page, kindly mention the FARMER'S ADVOCATE,

JANUARY 27, 1904

THE FARMERS ADVOCATE.

QUESTIONS AND ANSWERS VETERINARY.

DISLOCATION OF THE PATELLA.

Colt became stilled in the stall. The patella snapped into position on moving him forward. Since then he has been all right, but stifle seems weak at times. 11. W.

Ans .- The anterior and internal ligaments of the joint are weak. Blister the front and inside of the joint, and repeat every month for three times, and it is probable he will give no further trouble, and will be as strong as if the accident had never occurred.

MARE REQUIRES EXERCISE.

Mare, due to foal in May, is standing in the stable. Her legs swelled, then her mammæ, and now the swelling has extended along her belly. W. A. H.

Ans .- The swelling is due to want of exercise. Some mares when pregnant are particularly predisposed to this condition. Give her regular exercise and allow her a nice roomy box stall while in the stable. Feed her bran and a few carrots, and give her a dessertspoonful of nitrate of potash every night for three doses. Regular exercise and easily-disgested laxative food is really all that is required. The less medicine given to a pregnant mare, when not absolutely necessary, the better.

HEIFER WITH LUMP ON LEG. ETC. 1. Heifer has three lumps about the size of hen eggs near hind fetlock joint.

Two are hard, and the other soft and sore, and she is a little lame. 2. Her left front teat is hard to milk.

The stream is very small. W. M. Ans.-1. It is probable the soft lump is an abscess, and should be lanced, and then injected twice daily with a five-percent. solution of carbolic acid in water until healed. Explore the others, too, and if they contain matter treat in the same way; if not, leave alone.

2. An operation by a veterinarian with an instrument made especially for the purpose would make her milk easily, but a bungling operation will set up serious inflammation. Either get an expert to operate, or leave it alone.

MARE WITH ITCHY LEGS.

Clydesdale mare, three years old, has itchy and swollen hind legs. She bites and irritates them. Her hair is rough and dry. She is probably in foal. H. S. P.

Ans .- Some heavy drafters, especially those with beefy legs, are predisposed to conditions of this kind. If she is not in foal, give her a purgative of 9 drachms aloes, 2 drachms ginger. But if she be in foal do not purge. In either case, give 11 ounces Fowler's solution of arsenic night and morning for a week, then stop for a week, and repeat, etc. Wash her legs thoroughly with a solution of corrosive sublimate, 1 drachm to a gallon of water, every second day, and rub with cloths until thoroughly dry. Give her regular exercise of 6 to 8 miles daily, and feed little grain. Give bran and a few carrots.

1-19

Western hots. other cases, especially the yearings, the legs were affected. They would swell and often break out in horrible soresmany died. Those takes in and cared than those which were let run. About September, the distemper had died out, thin. By freezing-up time, they had when they would lie down, were not able to get up again without help. Several was kidney trouble, he did not help them. Now, at this date, the disease seems to be still among them, and the legs of some are swetting. I have some of the very thin ones in the stable, and though they are getting the very best care and feed, they do not fatten. Kindly tell me what the disease is, and how to treat it in its various stages, and how to deal with the weak, thin

2. Please, also tell me how to cure a horse of cribbing ? W. L. H. Coalfields, Assa.

Ans.-1. When the Characteristic swellings and abscesses of distemper break out on the body, legs, etc., the disease is then known among horsemen as bastard or irregular strangles, and the mortality is then very high, especially in poorly-nourished animals exposed to the inclemency of the weather. As a sequel, many, as in your case, are left weak and emaciated, as a result of the poisons (toxines) not having been eradicated from their system. As you say, they are receiving the very best of care, etc., in the stable; it is not likely they will improve much until they get on to the grass next summer. For treatment, procure some tincture of iron, give affected animals from one to two tablespoonfuls twice a day, according to age and size (must be given well diluted), also give one tablespoonful of the following twice a day in feed (boiled barley and flaxseed preferable) : Powdered nux vomica, two ounces; powdered gentian, six ounces; soda bicarbonate, six ounces. Mix thoroughly together.

2. The best plan of curing a cribbing horse is to remove all objects away from him upon which he is likely to fasten his teeth, or else cover with tin or sheet-iron; could also try a strap buckled tight around the throat

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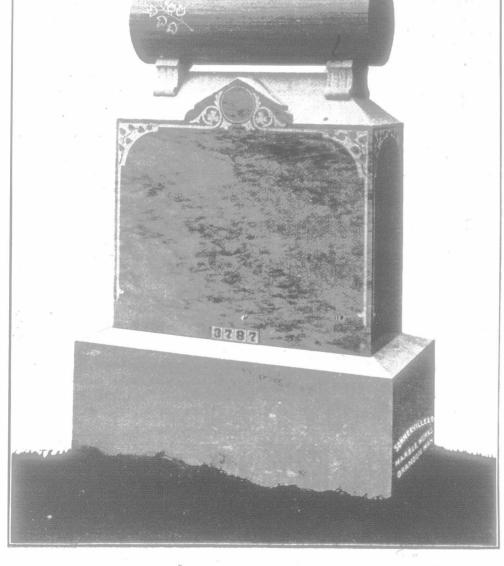
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### ERS.

ing up. se. He great J. S. is (indoubtagain. a nice about ach of narides, Rub Chat he ty-fcur vash off oose in l every tie up ip by ong as en you n shod

except



### WASHY MARE AND COLT WITH PUFFY HOCKS.

1. When either working or driving ny mare passes faces so soft that they do not form balls. Have given her lime water without results. Change of food makes no difference. I do not see that it does her any harm.

2. Colt has puff on front of hock, too high for bog spavin. It appears and

Ans.-1. This is what is called a washy mare, one that is congenitally prediswould have to be kept up continuously. It is possible she may outgrow he proraw roots or other laxative foods. En-The administration of 1 dr. powdered opium, night and morning, will check the predisposition, but unless she become worse would not advise drugs. It would be wise to have her teeth dressed, as they may be responsible for the trouble. 2. A puffiness in this location is usually called a bog spavin. It is due to a distension of the synovial bursa, and repeated blistering will have a tendency to cause contraction of it and prevent the appearance of the puff.

### ABORTION IN COWS

Two heifers aborted in November, nine days apart. The foctuses were decayed. Two cows aborted at seven months in December. The calves were alive, but R. H. T.

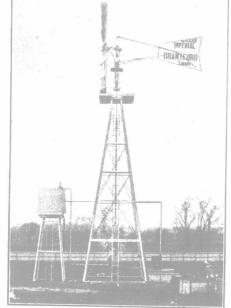
Ans .- The decayed foctuses indicate the accident to be the result of injury received by fighting, slipping, jumping, etc., rather than infectious abortion. Like causes probably operated with the cows. It would be wise to isolate all that have aborted until all discharge ceases from the vulva, and give the stable a thorough cleaning, and then apply hot ime wash with five-per-cent carbolic acid. Do not breed any of them for at least you have inferted, construct, and reacher a case, it would be given by reactive case into the paret, construction. If

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### THE FARMERS ADVOCATE.

### QUESTIONS AND ANSWERS. VETERINARY.

#### CAPPED KNEE

I have a horse with a swelling on his knee cap as large as a ten-cent piece. It seems quite movable, and is composed of a hard and bony substance, when handled with finger points. JIM. Wolseley, Assa.

Ans.—Repeated blistering might reduce it. Take and clip the hair off closely over the knee, and apply the following blister composed of biniodide of mercury and cantharides of each one-half drachm; lard, one ounce. Mix and rub well into the knee for about ten minutes. Tie its head up so as to prevent it biting parts blistered. Wash off blister in twentyfour hours, and apply a little lard. The blister may be repeated again in two or three weeks, if necessary.

#### THROMBOSIS.

What is wrong with my mare. She is ten years old. She will not walk more than half a mile, when she commence to shake all over. She appears to be in great pain, hunches her back, and seems all drawn together. If taken a short distance and rested, she is not affected so quickly. I am feeding about a half gallon oats three times a day, with oat straw and boiled feed occasionally. I am not sure whether she is with foal or not. She is only taken out for exer-Would kidney disease affect her cise. this way ? ENQUIRER. Frys, Assa.

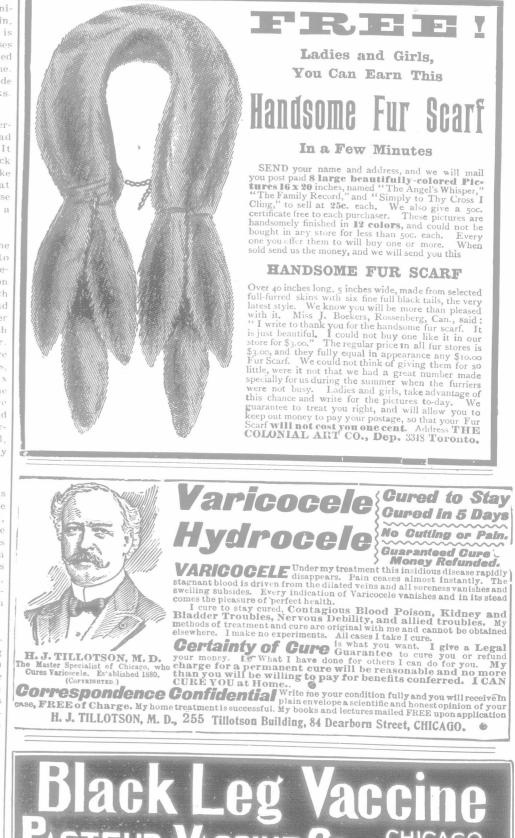
Ars.—This condition is usually due to applugging of the blood vessels supplying the posterior parts of the body, technically called thrombosis. The disease evinces itself a short time after the animal is exercised, by excruciating pain, lameness and loss of power, and is usually incurable, although a few cases have recovered. Animals so affected should never be taken away from home. Give her one drachm of potassium iodide in her feed once a day for several weeks.

#### SEQUEL TO DISTEMPER

About a year ago, my pure-bred Percheron stallion, three years old, had distemper, swelling under jaw. It never broke, and it has left him thick in hind legs around hocks. I would like to get clear of the swelling. What treatment do you advise? Exercise apparently has no effect. Would a blister be beneficial? HORSEMAN. Maple Creek, Assa.

Ans.—Chronic thickening arcund the hocks in stallions are frequently hard to get rid of. Would advise you to prepare him for a physic by feeding him on bran mashes for a few days, after which give him one ounce Barbadces aloes and one-half ounce of ground ginger, either in the form of a ball or as a drench shaken up in a pint of tepid water. After the above has operated, procure the following : Powdered digitalis leaves,





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The greatest cultivator for all the Provinces. No other with so good a record. Send your address. Particulars are free. Manufactured by **T. E. BISSELL, Dept.** "W," ELORA, ONT.

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SHORT COURSES in Stock and Grain Judging and in Poultry Raising, free. Three months' course in Dairying-\$1 registration fee. These courses will commence early in Jan., 1904. Send for circul rs. JAMES MILLS, M. A., President.

Guelph, Nov., 1903. om



six drachms; potassium iodide, six drachms, and potassium nitrate, one ounce. Mix and divide into twelve powders. Give one each morning and evening in feed. Give him regular exercise. A mild blister might be beneficial, but do not blister too severely, especially in front of the hocks.

#### SHOULDER TUMOR.

I bought an ox last fall. A lump has grown just in front of the point of the shoulder. It is very loose in the skin, and is about the size of a large goose egg. The lump is very hard, and seems to be caused by the ox collar. I am using a yoke, the bow of which comes against the lump. When drawing hard, it seems to hurt him. Would you kindly advise me what is best to do with it? PIONEER.

Dauphin, Man. 🥒

Ans.—These lumps are always troublesome, and the proper means of getting rid of them is by removing them with the knife, which had probably better be done by your veterinarian. Although the operation is very simple and consists in clipping the hair closely over the enlargement, then with a clean, sharp with enter an incision over the lump, with entering the normalized entering skin, and deset it carefully out, after which times cut y and alth creolin solution, two-per-color are dust on a dressingtender constant and the solution operate of the part of the better and Repeat. with the solution of the advisable time a well-fitting of the advisable time a well-fitting of the rate of the

JANUARY 27, 1904

### THE FARMERS ADVOCATE

#### QUESTIONS AND ANSWERS. VETERINARY.

#### LAMPAS

I have a mare which has swollen gums on upper jaw. Please tell me how to treat her ? SUBSCRIBER. Ohlen.

Ans .- Your mare is suffering from lampas, which is a swollen condition of the palate. The swelling extends over the roof of the mout, and causes the gums to project below the level of the upper front teeth. It is a disease often met with in young animals as a conse quence of the large supply of blood which is present for the growth of the teeth. It may be caused in horses of any age by cold, or indigestion. As lampas, except when it occurs from teething, is merely a symptom of derangement of health, the part should not be interfered with in any way; a couple of bran mashes, with half ounce of nitre in each of them, or four ounces of Epsom salts daily for a few days, being all that is generally necessary. If, from congestion of the gums during teething, the mare "quids" her food, and it is not convenient to put her to work for a few days, the part may be lightly scored with a penknife-care being taken not to wound the artery which lies underneathand then rubbed with common salt. Bathing the part with a strong solution of alum and water will generally be sufficient without lancing it.

### MISCELLANEOUS.

#### HOG QUERIES.

I have a registered Berkshire sow, twenty months old, which I value very highly, at least I did so until recently. When about two months old, she took some disease in her head, and seemed to go deaf. When fed, she would take no notice, though the others would run to the trough, but would lie quite still until shaken, when she would jump up and eat as well as any. She carried her head with a twist, and the right ear drooped over the eye. This lasted for several weeks, after which she gradually recovered, except that she never carried her head perfectly straight, or held the right ear as high as the other. She fed well and grew well, and at about fourteen months produced a, farrow of eight fine Three weeks ago, I bred her pigs. again; and three days later, turned her into the strawstack. A couple of days later, she turned up, minus, apparently, scent, hearing, or sight. There was nothing in her appearance to show that anything was wrong, except that her eyes were pitchy and almost closed, and the right ear more hanging than usual. I at once put her into feed. She is feeding nicely, and is about fit to kill. he seems to be recovering her sense

BABY King Baby Reigns" SOAP Makes ANY skin like Baby's skin Baby's Own Soap Pure, Fragrant, Cleansing Albert Toilet Soap Co., Mirs. MONTREAL. No other Soap is just as good. 311 You Know That old mill of yours is slow and out-of-date, hard to turn, and does bad work. Why not save money by getting the "Hero" Fanning Mill, It is guar anteed to be the most thorqugh, easiest oper-ated and fastest mill on the mar-ket. If not we don't want you to Cleans THE HERO. any kind of grain. Fitted with zine sieves, which don't rust out. DON'T FORGET trying THE HERO before buying. We don't want you to pur-chase one if we can't prove our guar-antee. Manufactured by The Western Implement Mfg. Co., Ltd BOX 787. m WINNIPEG, MAN. The Ontario Veterinary College, Limited,

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# **USED ORGANS**

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This is, however, "an exceptional offering." The volume of our December piano business was so large, and the number of organs taken in exchange so many, that we cannot spare the space to properly display them. To sell them, therefore, we have cut the prices so low that an immediate reply is advisable, for our experi-ence tells us it will not be many days till we can announce them all sold.

Send also your second and third choices in case the first should be sold before your order is received. Preference will not be given any order, but each one filled as received.

#### TERMS OF SALE.

Organs under \$50, \$5 cash and \$3 per month, without interest. Organs over \$50, \$10 cash and \$4 per month, without interest.

If monthly payments are not convenient, please state what method you prefer-quarterly, half-yearly, or at certain fixed dates. We wish to know what terms will suit vou

A discount of 10 per cent. off these prices for cash. A stool accor panies each organ. Every instrument safely packed without extra charge. We guarantee every instrument and agree to pay return freight if not satisfactory.

WOODS. 5 octave walnut organ by Geo. Woods Co., in neatly decorated case, has 6 stops, 2 complete sets of reeds, knee swell, height when open 3 feet 6 \$29 **DOMINION.** 5 octave parlor organ by The Dominion Organ Co., in handsome solid walnut case with high top. Has 10 stops, 2 complete sets of reeds, \$47 2 knee swells, height 6 feet 6 inches. Originally \$125, reduced to....

BELL. 5 octave parlor organ by W. Bell & Co., Guelph, in handsomely decorated solid walnut case with high top, has 12 stops, including couplere, v(x humana, etc., 2 knee swells, 2½ sets of reeds, revolving fall bcard, etc., height 6 feet 6 inches. Origi-S54

**GODERICH.** 6 octave piano case organ by the Goderich Organ Co., in handsome rose-plete sets of reeds, 2 knee swells, mouseproof pedals, height 5 feet. Originally \$150, \$69 of reeds, 2 knee swells, height 5 reet 3 inches. Originally pro, reduced a subscription of reeds, 2 knee swells, height 5 foctave piano case organ by The Thomas Organ Co., handsome walnut case THOMAS. 6 octave piano case organ by The Thomas Organ Co., handsome walnut case and mirror, rail top. Has 11 stops, 2 complete sets of reeds, couplers, 2 knee swells, etc., height 5 feet 11 inches. Used less than 6 months. Catalogue price, \$250, \$87 Gourlay, Winter & Leeming 188 YONGE STREET, TORONTO. MANITOBA COMMISSION CO., LTD., GRAIN DEALERS. sell your wheat, oats, barley or flaxseed before seeing our quotations. Grain Exchange, WINNIPEG.

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again.

1. What would you say is the matter? 2. Would her flesh be unfit for food, if killed now ?

3. Would you consider it risky to keep her till after farrowing ? HOG RAISER. Gonor, Man.

Ans.-1. The apparent loss of the senses was most likely due to some nervous derangement, which might be the result of pregnancy, or from indigestion. 2. Can see no reason why her flesh should not be fit for food, provided she is killed before gestation is too far advanced.

3. No, not if she is recovering.

WHO OWNS THE COAL? DUTY ON MANU-SCRIPT.

1. If coal be found on land open to settlement, or on railroad land, how can it be acquired from the Government? 2. In sending manuscript across the international boundary, has duty to be C. W. C. paid ? Alta

Ans.-1. Any coal that is discovered on land belonging to a homesteader does not belong to the homesteader, but belongs to the Government, and can be disposed of. Coal on lands which have been disposed of to railway companies, in most cases still belongs to the Government; but in connection with the land grants to a few railway companies, that were granted prior to the 31st October, 1887, the coal goes with the surface rights. 2. No.

Four years old, guaranteed a sure roar-getter. YORKSHIRE SOWS A few choice sows for sale, all bred. WEIGHTMAN & REID, Westhall, Man., near Bendon.



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Manufactured by W. F. YOUNG, P. D. F., Springfield, Mass. LYMAN SONS & CO., MONTPEAL, AGENTS FOR CANADA.

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#### FARMERS RE RAILWAY RIGHTS.

Kindly advise through your columns if I can remove C. N. R. surveyor stakes on my farm for the purpose of plowing? This survey is supposed to be final.

Vegreville, alta., N.-W. T. SURVEY. Ans-You cannot remove the surveyor's stakes placed on the line of the C. N. R. for the purpose of plowing; hut, until the ground is expropriated, there is no reason why you should not cultivate and crop the land.

### THE FARMERS ADVOCATE.

### For Singers and Speakers. QUESTIONS AND ANSWERS. VETERINARY.

#### The New Remedy for Catarrh is Very Valuable.

152

A Grand Rapids gentleman who repre-

head, throat and stomach for several few drops of the following lotion into years, I heard of Stuart's Catarrh the eye twice daily : Nitrate of silver, Tablets quite accidentally, and, like every- ten grains ; distilled water, two ounces. thing else, I immediately bought a Keep the eye shaded from the sun and package, and was decidedly surprised at wind, and have patience. the immediate relief it afforded me, and still more to find a complete cure after several weeks' use.



"I have a little son who sings in a boys' choir in one of our prominent churches, and he is greatly troubled with hoarseness and throat weakness, and on my return home from a trip, I gave him a few of the tablets one Sunday morning when he had complained of hoarseness. He was delighted with their effect, removing all huskiness in a few minutes and making the voice clear and strong.

" As the tablets are very pleasant to the taste, I had no difficulty in persuading him to use them regularly.

'Our family physician told us they were an antiseptic preparation of undoubted merit, and that he himself had no hesitation in using and recommending Stuart's Catarrh Tablets for any form of catarrh.

" I have since met many public speakers and professional singers who use lawyer told me that Stuart's Catarrh Tablets kept his throat in fine shape during the most trying weather, and that he had long since discarded the use of cheap lozenges and troches on the advice of his physician that they contained so much tolu, potash and opium as to pleasant-tasting lozenges, composed of catarrhal antiseptics, like Red Gum, Blood Root, etc., and sold by druggists everywhere at 20 cents for full treat-

OPACITY OF THE CORNEA. Mare has a scum growing over her

right eye. It has been growing for two J. Y. Ans .- The milky appearance is not due sents a prominent manufacturing concern to a scum as it appears to be, but to a and travels through central and deposit of lymph between the layers of southern Michigan, relates the following the external coat of the eye. It is due regarding the new catarrh cure. He says: to inflammatory action, and is hard to "After suffering from catarrh of the remove after it becomes chronic. Put a

### ŒDEMA.

I have a mare, fifteen years old, in foal. She was in good health till about a week ago, when she started to swell on belly, just in front of the hind legs. It is spreading, till it is nearly up to the front legs. What is the cause, and can it be cured? A. B. C. Manitou, Man.

Ans .- This is most likely what is known as ordema of pregnancy, which is often met with in mares of a phlegmatic character, especially if highly fed and not getting sufficient exercise. There is nothing dangerous in this condition, as Feed the mare on a laxative diet, such as bran mash with boiled flaxseed, to which may be added a tablespoonful of Epsom salts twice a day. Give plenty of exercise during the day, and provide a loose box stall, if possible, for her at night. Hand rub the swellings.

INDIGESTION-MALNUTRITION. I have a mare, three years old. Last spring she had a rash break out over her body and legs, leaving a little scab, which would come off with hair, but seemed to get all right and full of life

during the summer, until about September. Then she commenced to fail and got very stiff in the hind quarters and would walk slow, and look dull. She often twitches as though she had a sharp pain, and she has got so thin and weak it is difficult for her to get up after she has lain down for a while. She has a small lump between her under jaws about root of tongue, about the size of an egg. I have been rubbing It with turpentine.

Last summer she used to spend much time trying to scratch her tail. I examined her for lice, but could find none. She is not broken in yet, and runs in the pasture during summer; and she has been in stable nights and cold days all winter. I have been feeding her barley and oat straw and a half-gallon of oats night and morning, with a gallon of boiled barley at noon, and about a gallon of skim milk twice a day. She does not seem to have a very good

MISCELLANEOUS.

### HOLSTEIN REGISTERS.

Kindly let me know, through your paper, the difference between the American and Canadian Herdbook of Holsteins. Is the Canadian book considered as good as the American? F. B. V.

Ans.-So far as we can judge from the rules and regulations of the two books relating to registration, there is no difference in the standard, as to be eligible to registry in either animals must be imported or trace to known imported and registered ancestors.

QUANTITY OF BUTTER FROM MILK. How many pounds of butter can be made from 4,386 pounds of milk, testing 3.8 per cent. fat?

SUBSCRIBER.

Ans .- Four thousand three hundred and eighty-six pounds of milk, testing 3.8, would yield 166.66 pounds of fat, but butter-fat comprises only 84 per cent. of butter, therefore 198.41 pounds of butter could be made from the 166.66 pounds of fat.

LICENSING OF STEAM ENGINEER, N.-W. T. Please give me the name of the license inspector of steam engineers in the N.-W.

Argyle, Man.

Ans .- The licensing of steam engineers in the Northwest Territories is under the charge of the Public Works Department, Regina. Communicate with the Deputy Commissioner of Public Works, Regina, stating definitely the information re-

#### ELECTRIC-LIGHT BEETLE.

Would you kindly tell me the name of this large beetle, which I enclose. found one alive some years ago. This one I found on the prairie last spring, it got scorched with a prairie fire. Neshitt, Man. J. W

Ans .- The bectle enclosed is commonly known as the electric-light beetle. In the month of June, large numbers of them will be seen on certain nights hovering around the electric street lights in our Western cities. They are not considered as being among the injurious

#### RABBITS NOT FIT FOR USE.

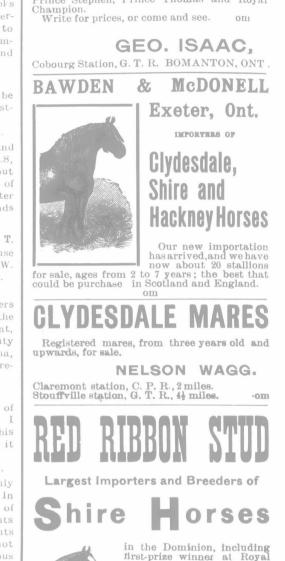
I shot some rabbits, and on preparing them for cocking, I found boils, which, on being opened, discharged yellow matter. Are such rabbits fit for ear-SPORTSMAN.

Carlyle, Assa.

Ans .- The rabbits were probably suffer ing from some minor contagious disease, and it would be injudicious to use them for food, even on the part of those who have stomachs robust enough to do so, with a knowledge of the circum-

# Imported Clydes & Shires, Shorthorns & Yorkshires

Five Clydesdale Stallions; one Shire Stallion eleven Clyde Fillies; three Shorthorn Bull Calves, imp. in dam, a few imported Heifers; and imported Yorkshire Hogs. Clydes by such sires as Prince of Carruchan, Prince Stephen, Prince Thomas and Royal Champion





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They act upon the blood and inucous membrane, and their composition and remarkable success has won the approval of physicians, as well as thousands of sufferers from nasal catarrh, throat troubles and catarrh of stomach.

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A little book on treatment of catarrh mailed free by addressing F. A. Stuart Co., Marshall, Mich.

### Clydesdale and Shire Stallions

### CLYDESDALE MARES AND FILLIES AND WELSH PONIES

J. M. MACFARLANE MOOSE ATTE ASSA.

1. What caused the rash to break out

2. What caused the stiffness in her hind quarters ?

3. What caused her to scratch her tail 4. What is the cause of the lump he-

tween her jaws?

5. Is barley straw good for horses? Carlyle, Assa. Ans.-1. Skin eruptions or rashes in

2. Weakness as result of malnutrition. 3. Horses very frequently rub and scratch the root of the tail from a presence of pinworms in the rectum. When just the result of local irritation, the application  $\neg$  of tincture of iodine daily will relieve it. If pinworms are present, as evinced by yellow incrustation around the anus, then give injection of salt and water, also one pint of linseed oil and an ounce of turpentine as

4. This is an enlargement of one of the lymph glands, often met with in chronic diseases, especially blood disorders. It Charge them to you under their agreeis also a common symptom of distemper. ment, if they were not aware that you 5. Barley straw is not considered a had already paid them. If you would good fodder for horses, on account of the send in receipts from the proper parties frequent presence of smut, and also the that you paid the taxes, they would re-awns, which irritate the mouth. fund you the money retained or credit it

### RAILWAY CO.'S RIGHTS RE LAND TAXES.

Several of us in this district recently paid our usual instalment for our C. & E. land, but we find our receipts show us credited with the instalment less our school taxes. These taxes we have already paid into the district treasurer I hold his receipt therefor. The railway company, wonderful to relate, paid their taxes this year for land in the district not yet taken up. They were never assessed for the land we hold, and we should like to know the meaning of this new move. Are they adopting this plan to reimburse themselves for those taxes they paid this summer ? If so surely they have no right to deduct teres from men who have already paid them on land never entered to them as assessable? We have written the company, but can get no satisfaction. RATEPAYER.

Rathwell, Macleod, Alberta.

Ans. - The railway company will be obliged to return to you the amount retained for taxes which you had already paid on the lands bought by you. . They would be entitled to pay the taxes, and

As regards treatment, procure the on any payments due. You state that Nowan: Towdered mux vomica, sul- you have written to the company, but on, of each one ounce; soda get no satisfaction. If you do not get onaces. Mix together, the money refunded on proof of payment and thicspoonful in soft food by yourselves of the taxes, place the thashet well, and groom matter in the hands of your solicitor. who will see that you get justice.

ROSEDALE STOCK FARM J. M. Gard-house, Prop. CLYDE AND SHIRE HORSES, SHORTHORN CATTLE, om LEICESTER SHEEP.

Choice imported and home-bred stallions and mares, also young stock. Two extra good young bull calves, and a few imported and Canadian-bred Scotch cows and heifers, bred to the imp. Marr bull, Chief Ruler. Telegraph, Post Office and Telephone (at Telegraph, Post Office and Telephone (at residence), Weston, Ont. G.T.R., C.P.R. Stns.

**JOHN GARDHOUSE & SONS** Highfield P. O., Ont., Breeders of Scotch and Scotch-topped Shorthorns, Shire Horses, Lincoln and Leicester Sheep. A good selection of young stock of both sexes always on hand for sale. Scottish Prince (imp.), Vol. 49, at head of herd. Rbyal Albert (imp.) 20367, at head of stud. Farms 31 miles from Weston, G. T. R. and C. P. R., and electric cars from Toronto. om

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### IRS OF ale, nd y Horses

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### TON, unty, Ont.

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### THE FARMERS ADVOCATE.

### QUESTIONS AND ANSWERS. MISCELLANEOUS.

JANUARY 27, 1904

WEIGHT OF HOGS. Is there a rule for ascertaining the dressed weight of a hog by measurement? Ans .- No reliable rule, but when dressed the weight of the carcass of a well-fed hog will be about 74 per cent. of its live weight, and of a fat hog, about 84 per

### COWS FAILING TO BREED.

We have two registered Shorthorn heifers, four and five years old, that fail to breed. They come in heat regularly, seem to be all right in every way, and are in the pink of condition. The younger heifer dropped a calf at two years old, and has failed to breed since. Can anything be done to induce them С. С. Н.

Ans.-The only suggestions we can offer are to try a change of bulls, or an examination by a veterinarian to ascertain if the neck of the womb is closed, which examination should be made when the cow is in season; service being allowed after opening, which is done by a rotatory motion with the finger. The application of belladonna ointment to the part is said to facilitate the relaxation of the closure.

### TANNING DOG'S SKIN.

Could you please give me a good recipe for tanning a dog's hide so as to have the hair left on and the hide W. A. H. pliable ?

Ans .- The best possible way to secure a good job on a skin of any kind would be to send it to a tannery, where there is every facility for doing the work The cost would probably not exceed one dollar. If it is decided to do the tanning at home soak well in soft water for about two or three days to make it perfectly soft; then scrape off all flesh and fat. When thoroughly cleaned, put the skin into a tan composed of equal parts alum and salt dissolved in hct water, seven pounds of alum and salt to twelve pounds water, or in these pro-The skin can be left in the brine for two days, after which it should be hung up and well scraped or shaved to soften it up. After shaving well put the hide back into the brine for a day or two. Then hang up until quite dry and shave or scrape again. After this apply a coat of oil, roll up in damp sawdust and lay away until dry. Apply a good coat of soft soap, and lay away again in sawdust. As scraping is the main operation in softening the skin, it should be well worked again when dry Two men drawing the skin back and forth over a round pole will impart a

STAELE FLOOR.

#### METAL GATES GE 3 feet wide, 4 feet high, including hinges and latch......\$2.75 Supplied 10 feet wide, 4 feet high, including hinges and latch ...... 5.75 by us or Other sizes in proportion. local dealer.

THE PAGE WIRE FENCE CO. Limited, - Walkerville, Montreal, Winnipeg, St. John,





### Percherons, Belgians, French Coachers CREATEST COLLECTION EVER COT TOCETHER NOW ON HAND.

Our 1903 importations include 20 first-prize winners from the leading European shows. At the ernational, Chicago, 1903, our horses won 40 prizes, 21 of which were firsts, including in Percherons, champion stallion, champion mare, champion American-bred stallion, best group of five stallions, best stallion and four mares. Although our horses are better, our prices are lower than can be obtained elsewhere in America. Catalogue on application.



Stallion or mare without first seeing my stock or corresponding with me. I have a superior lot on hand—all young, sound, vigorous and well bred. My terms are liberal to responsible parties. I do not take risky paper and a large per cent. to my prices to cover bad losses. I only charge you for the horse you buy. I want a few reliable agents at various points. m



mares, from one to five years old, and among them a number of prizewinners. Also a few young Clyde stallions and Shorthorn cattle. People wanting to buy should come and see them before purchasing. Inspection invited. om

HODGKINSON & TISDALE, Dog-distance 'phone in connection with farm, 70 miles n, of Toronto on Midland Div, G.T. R. Beaverton, Ont.

### GOSSIP.

153

Uncle Eph'm had put on a clean collar and his best coat, and was walking majestically up and down the street.

" Aren't you working to-day, uncle?" asked one of his Caucasian acquaintances. "No, suh. I'se celebratin' my golden

weddin', suh." "You were married fifty years ago today?"

"Yes, suh."

"Well, why isn't your wife helping you to celebrate it ? "

" My present wife, suh," replied Uncle Eph'm, with dignity, "ain't got nothin' to do with it. She's de 'leventh."

" Gentlemen, ye dinna use your fakulties of obsairvation," said the old Scotch professor, addressing his class. Here he pushed forward a gallipot containing a chemical compound of exceedingly offensive smell. "When I was a student," he continued, "I used my sense of taste, sae ! " and with that he dipped his finger into the gallipot and put his finger into his mouth. "Taste it, gentlemen, taste it," said the professor, "and exercise your perceptive fakulties." The gallipot was pushed toward the reluctant class. One by one the students resolutely dipped a finger into the abominable concoction, and, with / many a wry face; sucked the abonination from their fingers. "Gentlemen, gentlemen," said the professor. 'I must repeat that ye dinna use your fakulties of obsairvation, for if ye had looked mair closely at what I was daein' the noo, ye would hae obsairved that the finger which I put into me mooth was nae the finger that I dipped into the gallipot ! "

### TRADE NOTES.

THE GREAT WEST IMPLEMENT COMPANY, Limited, of Edmonton, are at present the only wholesale implement company in Alberta. They buy direct from manufacturers. Capital \$100,000. A large shipment of implements was sold recently to Mr. Lawrence, of Ft Vermilion, to go at once to the Peace River District, 400 miles north of Ed-

. M. Gardouse, Prop. RSES, TLE,

ns and mares, ng bull calves, Scotch cows , Chief Ruler. ephone (at C.P.R.Stns.

**k** SONS lers of

rthorns, ster Sheep. sexes always ), Vol. 49, at G. T. R. and o. om

## FREE

e Angel y Record, e Cross all Landsomely elve colora ld not be bough Ive colors in the beought store for less This elegant is a heavy Gold antiful y en-back, handsome proor, adjust-sition, jatent int and highly throughout, rement is an a style, sfem d set, expan-lance, quik tyou can rely to keep good orman Heisey, c, Ont, writes hanks for my e it with his 43 Toronto

which I propose to house a team, one cow and some hogs (partitioned off on one side) for the purpose of economy I wish to floor the stable with concrete and thus save all the liquids from the animals for fertilizing. The hogs are to have a run outside. The manure tank had better be outside, no doubt, and the rain water from the roof might also be conducted to it, and so dilute the contents. Given these particulars, what size should this tank be? What will be the best and cheapest arrangement of drains to catch and conduct the liquids? Will a groove in the concrete be a sufficient and sanitary arrangement to conduct the liquid out of doors; or should drains be laid just under the floor ? In laying plank for horses and cow to stand upon, what distance from manger to gutter, respectively, should be allowed, so that manure will not fall on planks? Team is a small one, about 1,000 lbs. to the horse. J. W. F.

Yale and Cariboo, B. C. Ans.-The manure tank would prove unsanitary and needless expense. Straw (properly cut) or other litter such as mill shavings or sawdust used as bedding will absorb the liquids, and should be removed, mixed with the solids daily. After cleaning, sprinkle on floors, land plaster, dried muck, road dust, or even sand. Give stall floors a slight fall from front to back, and make the gutter bottom level from end to end. From back of manger to edge of drop, about 71 feet will do for the horses, and about 5 feet 9 inches for an average-sized cow, but it is hardly possible to compel the manure to fall always behind the drop, as cows differ in length and habits.

**Clydesdales and Shorthorns** FOR SALE PRINCE STANLEY [2443], 5 years old; Also STANLEY CAMERON [3274], rising three; and a few Stud and Filly Colts. Also a grand young Bull Calf. A. & G. MUTCH, Craigie Mains, Lumsden, Assa. IMPORTED FROM SCOTLAND. CLYDESDALE **1** SHORTHORN 4 STALLIONS L BULLS . . . ALL FOR SALE.

The horses, with one exception, were bred by Mat-thew Marshall, Stranracr, Scotland; two of them were sired by the celebrated show and breeding horse. Prince Robert, which is the sire of the unbeaten cham-dom, Hiawatha. A dark brown (AI Model) is sired by Moncrief Marquis, 1st-prize winner at the High-land Show, the most typical draft horse in Scotland, dungate by the c-lebrated Prince of Wales. All war-ranted sound, and good breeders. Have all done serv-ice in Scotland; are in moderate flesh; selected especially to suit the needs of the country, being horses of good weight, clean bone, and not too much hair. Will sell at moderate prices, from \$1,100 to \$1,500.

SHORTHORN BULLS.

ALISTER-Red, two years old; bred by Alex. Gil-bert, Keockburn, Dalbettic, Scotland, GOLDEN CUP-One year old; red, with white markings; bred by Duthie, Collynie, Scotland, and sired by the celebrated Lovat Champion.

JOHN GRAHAM, Carberry, Man.

In answering any advertisement on this page, kindly mention the FARMER'S ADVOCATE.

THE ELGIN FACTORY is the largest in the world. The daily output is 2,000 watches, and 102 different kinds are manufactured. The watches go to every part of the world, and are sold even in Geneva, Switzerland. The different parts of a watch are manufactured in different departments by different people, who have devoted their lives to that particular kind of work, and have been trained to a delicacy and exactness which is more important in watchmaking than in any other mechanical industry. These parts are then assembled as they are needed in another department, where they are put together by experts, who handle them as easily and almost as unconsciously as a great planist will strike the keys of his piano. The completed watch is tested and timed, and then, strange to say, is put into a refrigerator with the temperature below freezing point and kept there for a number of days to cool off. After it has been frozen, the watch is taken to a furnace, where it is allowed to lie for several days more in a temperature of 95 degrees. This particular discipline is intended to teach the watch that it must not mind changes of weather, and that the steel and other metals of which it is made must not allow themselves to contract or expand by cold or heat. You can learn a good deal in a watch factory .- William E. Curtis, in Chicago



Prizewinners at the Royal Show, the Highland Show, and the International. The best horses in North America at present for sale at reasonable prices, on easy terms, and every stallion guaranteed. A safe motto: · Buy stallions only from those who have a well-earned and established reputation." Catalogue for 1904 now ready. Address  $\mathbf{m}$ 

JAMES SMITH, Manager, Brandon, Man.

### IMPORTED CLYDESDA

I have just returned from Scotland with a fine lot of Clydes dale stallions of great breeding and individuality.They are indeed a fine lot, and just the kind the country needs. Write for prices and description, or, better still, come and see and be convinced of what I say.

### WM. COLQUHOUN, om

MITCHELL P.O. AND STATION (G. T. R.), ONT.

| W. B. WATT'S SONS,<br>BREEDERS OF<br>Shorthorns and Clydesdales<br>Elora Station, G. T. R. and C. P. R.<br>Salem P. O. Tel. No. 42a. | FOR SALE: A number of choice young bulls<br>fit to head any herd. Several good young cows<br>and heifers, daughters and granddaughters of<br>great Royal Sailor (imp.), and in calf to Scottish<br>Beau (imp.), by Silver Plate.<br>Let us know what you want and we will try<br>to supply you at a moderate price. om |
|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                      |                                                                                                                                                                                                                                                                                                                        |
| For FIVE REGISTERY<br>Ranging in age from child to the of<br>for particulars mention<br>WALTER J'AMES &                              | Prices tight. In writing                                                                                                                                                                                                                                                                                               |

"I've never known it to fail," he said. "Every year since I can remember I have remarked the January thaw," and growing emphatic he concluded, "I've seen thousands of them."

Mr. E. T. Griffith, of Moose Jaw, Assa., owns three fine Clydesdale mares. Two of them, Moss Rose [4673] and Lady Bell, are full sisters, sired by Earl of Fife, dam Highland Mary, by Allan of C. Lochkeil (imp.). They are a strong, well-gotten-up pair. Lady Baroness 4th, a three-year-old, sired by Prince Patrick (imp.), World's Fair winner, is of splendid size and good quality, and is out of Lady Baroness, by Macmaster

In Shorthorns, Silver King =47765=, got by Risly Jack, and bred by Robt. Miller, of Stcuffville, Ont., is a sappylooking, white yearling of good quality. Daisy of Risby, dam of Silver King, was sired by Bridesman, one of J. & W. B. Watt's breeding, dam Maid of Hopshill, by Barmpton Hero, who was out of Mimulus (imp.), bred by A. Cruickshank, and got by Champion of England. Lena and Beauty of Moose Jaw, two very nice heifers, were got by Rustic. Lily Dale, a large, breedy-looking cow on her dam's side, Effie, by Macduff, traces to Royal Barmpton and Comet Princess Helena, by 4th Duke of Fairmount, is also a thick, well-made cow. Mr. Griffiths has made a worthy start, and we wish him success.

**AYRSHIRES** and POULTRY. R. Ness & Sons, Howick, Que. importers of Clyde, Percheron and Hackney stallions, Ayr-shire cattle, and poultry, have for sale 5 Clyde stallions, sired by Baron's Pride, Sir Everitt, and Royal Carrick, I Percheron, and I Hackney, winners. Ayrshires of both sexes, and poultry. -0.990 REE STEAM ENGINE an run 6 to 8 spools tsell it for \$1. 12 colors

CLYDESDALES

t is **all free**. COLONIAL ART CO., DEPT. 3334 Toronto

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ED 1866

JANUARY 27, 1904



ing stock to digest their food. A small dose in the usual food twice each day.

It contains no drugs; purely aromatic. 3 LBS. 30c. 36 LBS. \$3.10.

Ask your dealer or write us.

The Day's Stock Food Co., STATION C, TORONTO. om

Aberdeen-Angus Bulls For sale: One one-year-old, two bull calves, sired by Laird of Tweedhill. Will sell right. om Drumbo Station. WALTER HALL, Washington, Ont.

TERRA NOVA STOCK FARM. Pure-bred Aberdeen-Angus Cattle, Sires in service: Imp. Prince of Benton, 1st at Toronto and Winnipeg, 1903, from the same sire as the celebrated heifer Benton's Pride, which won in one season and sold for \$4,000, and Imp. Provost 16th of Powrie, 1st at Winni-peg, 1903. Some fine young bulls for sale. Prices reasonable. Write m S. MARTIN. Rounthwaite, Man.

### H. W. AYERS, HONEY CREEK, WIS.

Breeder of the celebrated Brown Swiss cattle and Tamworth swine. Cattle hardy, vigorous, grand milkers and fine beefers. Correspondence solicited. Bulls and heifers for sale

SHORTHORNS Cows of true Scottish type. A good prize-ring record made by the herd. GEORGE LITTLE, - Neepawa, Man. m Five miles from town.

Lawyer-What was the thing that led to your financial downfall ? You seemed to be doing a good business.

Bankrupt-I was, but one day I started out to see if I could borrow some money. I found it so easy that I kept on borrowing.

### THE FARMERS ADVOCATE.

### THE VALUE OF CHARCOAL.

Few People Know How Useful it is in Preserving Health and Beauty.

Nearly everybody knows that charcoal is the safest and most efficient disinfectant and purifier in nature, but few realize its value when taken into the human system for the same cleansing purpose. Charcoal is a remedy that the more

you take of it the better; it is not a drug at all, but simply absorbs the gases and impurities always present in the stomach and intestines and carries them out of the system.

Charcoal sweetens the breath after smoking, drinking or after eating onions and other odious vegetables.

Charcoal effectually clears and improves the complexion, it whitens the teeth and further acts as a natural and eminently safe cathartic. It absorbs the injurious gases which

collect in the stomach and bowels; it disinfects the mouth and throat from the poison of catarrh.

or another, but probably the best charcoal and the most for the money is in Stuart's Absorbent Lozenges; they are composed of the finest powdered Willow charcoal, and other harmless antiseptics in tablet form, or, rather, in the form of large, pleasant-tasting lozenges, the charcoal being mixed with honey.

The daily use of these lozenges will soon tell in a much-improved condition of the general health, better complexions, sweeter breath and purer blood, and the beauty of it is, that no possible harm can result from their continued use, but on the contrary, great benefit.

A Buffalo physician, in speaking of the benefits of charcoal, says: "I advise Stuart's Absorbent Lozenges to all patients suffering from gas in stomach and bowels, and to clear the complexion and purify the breath, mouth and throat; I also believe the liver is greatly benefited by the daily use of them; they cost but twenty-five cents a box at drug stores, and although in some sense a patent preparation, yet I believe I get more and better charcoal in Stuart's Absorbent Lozenges than in any of the ordinary charcoal tablets.' -om

### GOSSIP. A good sale of Aberdeen-Angus cattle was that from the herd of C. H. Gard-

ner, at Dexter Park, Chicago, January 14th, when 16 bulls and 40 females brought \$15,605, or an average of \$278 The bulls averaged \$337. The two year-o:d. Barbara's Rosegay, sold for \$2,000 to L. Van Winkle, of Michigan, and Imp. John of Morlich, a three-yearold, fcr \$1,200. Imp. Envy 2nd of Drumin and calf brought \$950, the highest price for a female. Two other cows brought \$800 each.

The splendid farm owned by Mr Stephen Benson, of Neepawa, Man., is composed of rolling land of great fertility. As a wheat-yielding farm, it still possesses the maximum powers of production, for Mr. Benson applies the scientific principles of good husbandry to the working of his farm, and what he puts in crop is always well prepared. There are, hence, no crop failures with him. The farm buildings are situated on the slope of a hill, about one mile All druggists sell charcoal in one form by the beautiful lake, which supplies the electric power to the town. Mr. Benson has been highly fortunate

in locating where he now lives, for we know of no spot more eminently suited to mixed farming in Manitoba. Such favorable conditions could hardly do otherwise than bring success, and this has been the proprietor's fortune, both as a farmer and as a breeder of pure-bred stock. With the splendid buildings, fitted as they are with every modern convenience, in which Mr. Benson keeps his stock, he is provided with every facility for maintaining his animals in the best of condition, and in that state they almost are invariably found. The "Advocate" field man, on a recent tour over the district, had the pleasure of visiting Mr. Benson's herd of Shorthorns, when every animal was found to be in good breeding condition. The herd is led by the bull, James Stamford Watt. He was bred by J. & W. B. Watt, got by Balmoral, and out of Salem Stamford. He has developed into a grand animal, long, deep, massive and smooth, and of the best of quality, and indications point to his becoming a good sire. Amongst the females of the herd

were noticed : Princess Alice, by Brigadier Beresford, out of Prairie Beauty. by Knight (imp.). She is a fine, straight, deep, well-ribbed cow, smooth better boil in the world for your very own? If so, send us your name a ddres son a Fost Carf, and we will mail you jostpaid, S large beautif. Ily Colored Pictures, each 1620 inches mamed "The Angel's Whisper." "The Family Record" and "Rock of Ages, mamed "The Angel's Whisper." "The Family Record" and "Rock of Ages, mamed "The Angel's Whisper." "The Family Record" and "Rock of Ages, mamed "The Angel's Whisper." "The bought in any store for less than 50c you sell the mifor only 25c, each, and give a Free Certifi ate worth 50c, to each purchaser, return us the money, and we will immediately send you the most beautiful doll you have ever seen. Dolly is and a good handler. A three-year-old of Bertha 11th.



Burdock

RLOOD

TTER

CURES Dyspepsia, Bolls, Pimples,

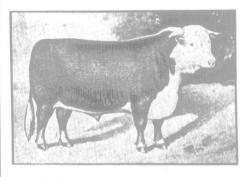


155

Mrs. A. Lethangue, of Ballyduff, Ont., writes: "I believe I would have been in my grave long ago had it not been for Burdock Blood Bit ters. I was run down to such an extent that I could scarce-ly move about the y move about the house. I was subject to severe headaches, backaches and dizzibackaches and dizzi-ness; my appetite was gone and I was unable to do my housework. After using two bottles of B. B. B. I found my health fully restered. I warmly recommend it to all tired and worn out women.

# ISLAND PARK HEREFORDS.

This herd has a splendid show record, and is eaded by Lord Ingleside 6th, winner of Diplomas, Silver Medal and several firsts at Winnipeg and Brandon.



A carload of the choicest young Herefords brought out lately from; the east. Twelve bulls and eight heifers for sale bulls ranging from 1 to 2 years of age, heifers 2 years. This lot sired by True Briton (imp.) and Baronet (imp.). Stock bull for sale, heifers J. A. CHAPMAN, Beresford, Man.





AN.

# ales

M has prize-are in tallion, s, etc., om



#### **BEAUTIFULLY DRESSED** DOL FREE. Girls, would you like to have the prettiest Doll in the world for your

# and

### lick,Que.

Percheron ons, Ayrltry, have ons, sired r Everitt, d I Hacksexes, and

- (1,930



Toronto



beautiful doll you have ever seen. Dolly is 21 INCHES HIGH. as big as a real baby, and has the loveli-est lo. g, golden curry hair, pearly teeth, beautiful dark eyes, rosy cheeks and movable head, arms and legs, so that you can put her in any position you wish. Her handsome dress has an ele-gantly tucked white y ke ornamented with diamond set gold battons, and is trimmed with beautiful bows of satim-ribbon edged with lace and very full fine white roching, which is draped around the yoke in the latest style. A very large hat ornamented with gold bockles and trimmed with an immense white imitation Ostrich feather com-pletes her costume. Dolly has also lovely underwear, all trimmed with elegant lace, stockings and cue little show the lovely colors of her dress nor her beautiful eyes and hair in a phote-graph. We know when you see her you will say she is the most beautiful eyes and hair in a phote-graph. We know when you see her you will say she is the most writen before to acknow edge my beautiful bol, but like her so meen that I can a leave herto write a note and tely to have her writes if a my artife fremds they how writen before to acknow edge my beautiful bol, but like her so meen that I can a leave herto write a note and tely to have beautiful du my attle fremds they here you write show the a most y that I lave not Doll, but I like her so much that I cannet leave her to write a note and tell you how pleased Ian. All my nithe fraced stimuts she is just lovely." Mrs. Pearson, Yorkville Ave., Toronto, writes: 'My little giblis hichly delighted with her beautif i boll and I an very much pleased with the homest way you treated her. I can hordly gether to lay ler boly down, sie likes is so much.' Girls, remember this is the biggest, the most beautiful and the best dressed Doll ever advertise t by any Company. There is not, ing cherap about it from its head to its feet. You could not buy it at any store for less than **32.00 cmsh**, and we want togive it to you absolutely d we want to give it to you absoluter; e for selling only 8 Pictures and anything be easier? May Bruce free for scelling only 8 Pictures. Culd anything be easier? May Bruce, Hayesville, N.B., writes: 'I sold all the Pictures in a few minutes. They went like wild in - Everybedy said they were take no 5 people and in abort 15 minutes every one wassod. For they went like wild in abort 15 minutes every one wassod. For they went like in 5 people and in abort 15 minutes every one wassod. For they went like the avery sold for 25c." Miss Cooper, Oak River, Ont., writes: 'I called on 5 people and in abort 15 minutes every one wassod. For went like hot cakes. E cryone sci.'' (b) what beautiful Pictures: E cryone sci.'' (b) what beautiful Pictures: E want one cent of your money and we allow you to keep out money to pay your postage, Coionial ArtCo. Dept. 3339 Toron:

is a grand, massive deep, smooth cow, showing a grand combination of constitution with good quality. Roan Lily, by Scottish Prince, out of Lily's Favorite, is a splendid young cow of the best of breeding; a half-sister of her's sold at Chicago for \$5,000. Duchess of Maitland 2nd, by Brigadier Beresford, out of Duchess of Maitland, is another choice individual, with a record as a breeder. A cow out of her, Duchess of Woodmere, was seen with a good bull calf at foot. She is got by Victor of Halse. Duchess of Woodmere 3rd is a choice two-year-old heifer, and a calf by her side is a young animal of great promise. Little Duchess is a very sweet heifer, by Red Diamond, out of Duchess of Maitland Lily White is a massive, smooth cow, by Robbie o' Day, out of Lilly Gray, she by Manitoba Chief. Several young animals of both sexes are in the herd, and intending purchasers could not find a better lot to select from.

Mr. Benson has also a stud of choice. registered Clydesdale mares, amongst which was noticed : Princess Lonia, by MacClinker, out of Princess Letitia. Marguerite is by MacToper, out of Cherry Bird. These are a pair of splendid, clean-boned, free-moving mares

BULLS IN SERVICE :

Marquis of Longburn =41380=, 2nd prize 2-year-old, Winnipeg, 1903; sired by Marquis of Zenda (157854), imp. Imperial Hero =26120=, by Village Hero =14342=.

BULLS FOR SALE.

Three young bulls, the get of Marquis of Long-burn, Imperial Hero and one of his sons, ADAMSON BROS., GLADSTONE, MAN.



DED 1866 RTHORNS



Sale. FLATT, St. South ilton, Ont. LSON on, Ont.

### RNS RS.

Count. reils, Minas, nethin Rose-nes, etc.

FARM. lds k Fowls. Shorthorns, W. trade W. trade. CVILLE,



of choicest on applica-EARLING a FEW lin, Ont.

ARM

### **JANUARY 27, 1904**

### GOSSIP.

Secretary R. W. Park, of the American Galloway Breeders' Association, has resigned as secretary of that organization. It is understood that he will resume the managment of his Missouri farm.

. Mr. George Little, Neepawa, Man., writes to say that he has sold to Mr. James MacCreery, of Arden, Man., the bull calf, Pride of Langford. He is by Scottish Canadian (imp.), out of Rosette 14th =32688=. Mr. Little believes the bull has gone into good hands, and that he will give a good account of himself.

In another column, Mr. John Graham, Carberry, announces for sale four Clydesdale stallions and two Shorthorn bulls, all imported. A representative of the "Farmer's Advocate" has not yet had an opportunity of inspecting these animals, but we hope to give our stockmen readers the benefit of their description at an early date. From the announcement already made, it is important to notice that the breeding is gilt-edge, and those who contemplate purchasing animals of this class should pay this enterprising Carberry breeder a visit.

It is, or was, usual to designate Parliamentary committees by the names of the bills which they met to consider. About sixty years ago, a bill was introduced into the House of Lords for enclosing the lands in the parish of Great Snoring, in the County of Norfolk, and was in regular course committed to a select committee. It was sometimes a practice to move that on a select committee all the Lords who attend it shall have voices; and Lord Eldon, then Lord Chancellor, one day rose with the greatest gravity and said :

"I request your Lordships' serious attention to the motion I am about to put. It is that all the Lords who atsend the Great Snoring Committee shall have voices.'

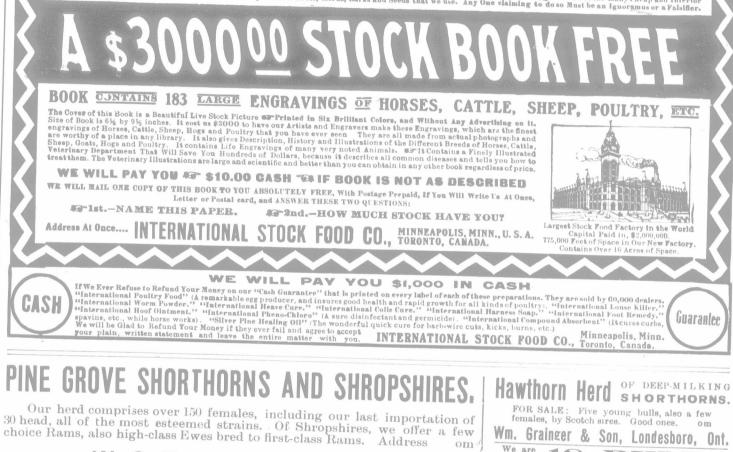
Mr. Joseph Laidler is one of the Neepawa farmers who have made Neepawa district celebrated for the forward and progressive stage in which farming and pure-bred stock-raising is to be found in it. Mr. Laidler owns a few registered Shorthorns of good breeding and individuality. His herd bull is Kruger, got by Royal Charlie, out of one of the well-known Lynch cows. He is about a year old; a thick, low-set, full-quartered fellow, showing every indication of correct, thrifty development. Superba 5th, by Village Hero, out of Superba 2nd, she by Duke of Colonos, is with a heifer following her, which gives good promise-Raising Berkshire swine is Mr. Laidler's principal industry, and his herd is the result of much care and applied intelligence. A splendid stock of breeders is kept, and every member added to the breeding herd is proved by every possible test to be a good one before it is admitted. Cherry Lane Baron, by Longfellow 10th, out of Locust Blossom, is a strong, heavy, smooth fellow, which has given every satisfaction in his get. Honest Tom, by Fitz Lee, out of Rosamond, is a younger leader, giving every promise of success. Amongst the sows are: Victoria, by Baron Lee, out of Heather Belle. She is a well-formed, smooth sow, and a prolific breeder. She farrowed fifteen pigs on three consecutive occasions, and twelve on the fourth. Princess, by Neepawa Lad, out of Modesty, is also a good pig, and a prolific breeder. Prairie Girl, by Halle, out of Maude, is a breeder which has given a good account of herself. Mr. Laidler's herd is one from which breeders may, with full confidence, augment their stock in the full assurance that they are getting choice Berkshire blood and

### THE FARMERS ADVOCATE.



Stock Food" we weighed two pigs, put them in separate pens, and gave them the same amount of food, one being fed "International Stock Food," the other not. The pig being fed "International Stock Food," shortly after using it, made a gain of one pound per day over the other and gradually went up till there was a gain of over two pounds per day. Have also tested it upon our horses while doing heavy work, milch cows and calves, and can fairly and honestly say that I do not want, and don't think I could get any better stock food. One of our mares got cut badly by being thrown out of the horse-power while threshing. We at once applied your "Silver Pine Healing Oil" with the best of re-sults. Any man who keeps stock should have it on hand always. In fact, I cannot say too much in recommendation of your goods that I have tested. I remain,

Very truly yours, JNO. T. PAYNE. Red We Have Hundreds of Thousands of Similar Testimonials and Will Pay You \$1000 Cash to Prove That They Are Not Genuine and Unsolicited. 68 We dave Hundreds of Thousands of Similar Testimonials and Will Pay You \$1000 Cash to Prove That They Are Not Genuine and Unsolicited. We own "International Stock Food Farm," which is located 12 miles from Minnespolis and contains 650 acres. We feed "International Stock Food" every day to all our WorkD Chambro Stathors, Dav Parce 1:56% and Directum 2:05%; to our Yotus Stathors, Bacon Marss, Cotra, Work Horss, Oatruz and Hoes. "INTFIGMATIONALI, STOCK medicinal preparation to be fed to stock in small amounts as an addition to the regular feed. It is a Great Aid in Growing or Fattening stock because it increase their over the usual Plan of Growing and Pattening stock. "International Stock Food" can be fed in safety to Horses, Cattle, Sheep, Goats, Horse, Cotra, Stathorse, Stathorse, Stathorse, Horses, Olar, Horses, Cattle, Sheep, Goats, Horses, Cattle, Sheep, Goats, Horse, Cotra, Stathorse, Stathorse, Stathorse, Stathorse, Taken in the Human system. You insist on eating medicinal ingredients with your Own food at every meal. Saft is astomator to be fall and strongth for people and improve their digrestion. "International Stock Food" is not the Human system. You insist on eating medicinal ingredients with your Own food at every meal. Saft is astomator to the original for people and improve their digrestion. "International Stock Food" contexes and improve their digrestion. "International Stock Food" contexes, and improve their digrestion. "International Stock Food" contexes, Lands or Pigs. It is medicine, Peoper is a powerful stat safe and as necessary an addition to the regular feed of your stock if you desire to keep them in the best possible condition. "International Stock Food" is not the regular feed of your stock if you desire to keep them in the best possible condition. "International Stock Food" is and as necessary an addition to the regular feed of your stock if you desire to keep them in the best possible condition. "International Stock Food" is sold on a "Spot Cash fuarantey" by Fifty Thousand Dealers thro



157

HOW'S YOUR HOGS,

**COWS** and HORSES?

DEAR SIR :---When we first tested "International

International Stock Food Co.,

SOUTH TILLEY, N. B., CANADA.

Wm. Grainger & Son, Londesboro, Ont. We are 18 BULLS

### SAND VNS et. Write ..Quebec

### ONS, 0.,

# esdales ills (Imp.) ible Gold for sale at wo brood



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For Sale

Ont.

### THE IMPROVEMENT OF HOME GROUNDS.

The Wisconsin Experiment Station has issued Bulletin No. 105 on the Improvement of Home Grounds. It contains a good deal of valuable information of use to those who can appreciate beautiful home-surroundings. A copy, we believe, would be furnished the farmers of Canada who address the Agricultural Experiment Station, Madison, Wisconsin.



Ogilvie's Ayrshires won the herd and young herd prizes at Toronto, London and Ottawa in 1900; also at the Pan-American, in 1901, and in 1902 they won all the herd prizes and medals, sweepstakes and diplomas, with one exception. The cows are all imported, and were carefully selected for strength and constitution, style, size of teats, and milk (quantity and quality). The herd is headed by Douglasdale (imp.). champion at the Pan-American and at Ottawa, Toronto and London, in 1902, ably assisted by Black Prince (imp.). Stock, imported and home-bred, for sale at all times.

**ROBERT HUNTER, Manager.** Near Montreal. One mile from electric cars. Lachine Rapids, P.Q.

from 4 to 10 months old, sired by imported Diamond Jubilee = 28861 =. Also a few females, all ages, of good Scotch breeding. om FITZGERALD BROS., Mount St. Louis, Ont. Elmvale Station, G. T. R.; Hillsdale Telegraph Office. Shorthorns, Clydesdales, YORKSHIRES.

I offer for sale a young red bull calf by Republican (Imp.), out of Nonpareil 34th (Imp.) – a gord one. Also young Yorkshires and Clydesdales, all ages. Also Count Amaranth at a bargain, if taken soon. om

# A. E. HOSKIN, SPRINGVALE FARM, COBOURG STA. & P.O. SHORTHORNS (Imp.)

We have on hand for sale 3 yearing buils (imported in dam), 7 three-year-old heifers (im-ported in dam), 7 three-year-old heifers (im-ported in dam) due to calve during next 3 months. These young animals are of exceptional breeding and individuality. Prices reasonable. Write for par-ticulars. ticulara

### EDWARD ROBINSON, Markham P.O. & Sta. SHORTHORNS.

Importer and breeder of choice Shorthorns. Scottish Hero 156726 at the head of herd. om

JAS. A. CRERAR, Shakespeare, Ont,

SHORTHORNS FOR SALE.

I am offering for the next month, at exceptionally low prices, several young bulls, heifers and bred heifers of choice Scotch breeding and good individu-ality. These are rare bargains. Write for my prices, I feel sure they will tempt you. Address om H. SMITH. P. O. and Sta., G.T.R. Exeter, Ontario.

Rosevale Shorthorns Herd comprises Augustas, Polyanthus, Crim-son Flowers, Minas, Strawberrys and Lavin-ias. For sale, both sexes, the get of Imp. Mar-engo Heydon Duke, Imp. Baron's Heir, Imp. Golden Able and Imp. Golden Conqueror. om W. J. Shenn & Co. Owen Sound P. O. & Str. Golden Able and Imp. Golden Conqueror. om W. J. Shean & Co., Owen Sound P. O. & Sta.

# **Neglect the Liver** And You Will Suffer

#### Scarcely an Organ in the Body but Feels the Effects of a Disordered Liver.

When the liver gets torpid and inactive, bile is left in the blood-causing 'aundice.

Indigestion results, because the liver is an important organ of digestion. Constipation arises because bile from

the liver is nature's own cathartic. A torpid liver means a poisoned sys-

tem-pain, suffering, chronic disease. By their extraordinary influence on the liver Dr. Chase's Kidney-Liver Pills positively remove the cause of such disorders. Biliousness, dyspepsia, constipationheadaches, backaches and bodily pains disappear when the digestive, filtering and excretary systems are set right by

the use of this great medicine. Lock for proof to the thousands of Canadians who have been made well by using Dr. Chase's Kidney-Liver Pills. Such an army of witnesses can be sum moned in support of very few prepara-

Mrs. Wm. Scott, Portland, Leeds County, Ont., states: "I can recommend Dr. Chase's Kidney-Liver Pills as an invaluable family medicine. We always keep them on hand for use in cases of constipation, kidney, liver and stomach troubles, and do not hesitate to say that they are the best medicine we ever used. We have also used Dr. Chase's Syrup of Linseed and Turpentine for the children when they have coughs and colds, and found it excellent. We have unlimited confidence in these remedies of Dr. Chase, and feel that we cannot recommend them too highly."

Dr. Chase's Kidney-Liver Pills, one pill a dose, 25 cents a box, at all dealers, or Edmanson, Bates & Co., Toronto. To protect you against imitations, the portrait and signature of Dr. A. W. Chase, the famous recipe-book author, are on every box of his remedies. -om

GRANDVIEW SHORTHORNS. (28854), also a few females. Herd headed by the Missie bull. Marengo 31055. J. H. BLACK & SON, Allenford P. O and Station.

### SHORTHORNS.

Four Bulls, nine to fifteen months old; four heifers, two years old. A number of cows, also in calf to Royal Prince=31241=, by imp.

H. K. FAIRBAIRN, Thedford P.O., Telegraph and G.T.R. station. SHORTHORNS

### THE FARMERS ADVOCATE.

#### GOSSIP.

The Smithfield champion, a cross-bred Shorthorn-Angus heifer, killed 68.99 per cent. of her live weight; the King's champion Hereford steer, 68.58 per cent.; and the Rosehaugh cross-bred ox (Angus-Shorthorn), The Baron, 68.53 per cent.

Mr. Arthur Johnston, of Greenwood, Ont., writes this office in making, a change in his advertisement, and says "Our Shorthorns are in the nicest form, though not fat. The hard winter has agreed with them better than with their owner. The young bulls have done especially well-never better-and we have never had a better lot. We have recently made a nice sale of twelve good ones to go to California. The first we have ever sold to go to that State. The lot includes eight females and four young bulls. We have also sold three very nice females to go to Dundas Co., Ont., besides scattering ones to various quarters. Sales have been very much better than any of us expected."

Messrs. Dunham, Fletcher & Coleman, Wayne, Ill., importers and breeders of Percheron, Belgian and French Coach stallions and mares, write : "During the past few weeks, we have made some very satisfactory sales, and our visitors have come from parts of the country very widely separated, and as they have found what they needed in our stables, it stands to reason that the selection we now offer the public is of the sort demanded by up-to-date buyers. One sale in which many will be interested is that of our grand big horse, Picador, which has stood so well at the International Exposition for so many years. He was looking better than ever when he left here for his new home. He was purchased by the Brunswick Percheron Horse Co., Lake Co., Ind., and if ever there was a stallion well-calculated to do good work in a new locality, it is Picador in his present home. Other sales recently made cover the country from the Canadian Northwest Territory to New York, and on the west in the States, and south to Utah and Old Mexico. We have a splendid lot on hand of the big-boned, short-backed sort, and can suit the most fastidious of huyers. Our new barn, on the site of historic 'No. 6' (lately destroyed by fire), is now fast nearing completion, and, in as much as the plans were prepared with the assistance of the leading insurance companies, we think it is a model of safety and convenience. We shall be glad, at any time, to show this barn and its principles of structure to anyone who is thinking of building a stock barn in which he desires to com-

bine safety, convenience and economy."

**RGE ENGLISH YORKSH** 

At the leading shows in America in 1901, 1902 and 1903 we won 90 per cent. of the first prizes. Pigs of all ages at moderate prices at all times. Write for particulars.

### D. C. FLATT & SON MILLGROVE, ONT.

### **AYRSHIRE** Bulls. Two fit for service, two March calves, and a few August, 1903, calves.

W. Ballantyn Neidpath Farm, om Stratford, Ont. HIGH - CLASS AYRSHIRE CATTLE For SALE: Both exce; bulls and heifer calves from 2 to 9 months old; cows and heifers all ages. Fa-mous priswinners bred from this herd, including Tom Brown and White Floss, sweepstakes prizewin ners at Chicago. DAVID BENNING & SON, "Glenhuret," Williamstown, Ont

# Tredinnock Ayrshires.

Imported bulls at head of herd: Glencairn 3rd Imported bulls at head of herd: Glencairn 3rd, Howie's Fizzaway, and Lord Dudley. Forty imported females, selected from leading Scotch herds, and their produce from above-named bulls. Size combined with quality and style, well-formed udders, good-sized teats, and capacity for large milk production. Bull calves for sale; also a few young cows and heifers. For prices and particulars address JAMES BODEN. Mgr., St. Anne de Bellevue, Farm close to St. Anne Station, Quebec. G. T. R. & C. P. R., 20 miles west of Montreal.

EUROPEAN ADVERTISEMENTS.

### W. W. CHAPMAN,

Secretary of the National Sheep Breeders' Association,

Secretary of the Kent or Romney Marsh Sheep Breeders' Association, and late Secretary of the Southdown

Sheep Society. Pedigree Live Stock Agent, Exporter and Shipper. All kinds of registered stock personally selected and exported on commission; quotations given, and all enquiries answered.

Address: MOWBRAY HOUSE, NORFOLK ST. LONDON, W. C., ENGLAND.



THE ORIGINAL

American Leicester Breeders' ASSOCIATION.

A. W. Smith, Pres., Maple Lodge, Ont. Pedigrees now being received for Vol. 5, For information, blanks, etc., address :

A. J. TEMPLE, SEO., OAMERON, ILL. om U. 8. A.

SPFCIAL SALE OF SHROPSHIRE SHEEP, Offering for this month: 10 shearling rams and 8 ram lambs, out of imported ewes; also a ew imported ewes and ewe lambs. Price low for immediate sale. om T. D. McCALLUM, "Nether Lea,"

Danville, Que,

FOUNDED 1866

Only The Best. My small but select importa-tion of Shropshires and Short horns are just home. Imported and home bred rams and ewes, bulls and beifers of the best quality and breeding for sale at moderate prices. **ROBERT MILLER, Stouffville, Ont.** 

Representative in America of Alfred Mansell & Co. Shrewsbury, England.

"BROAD LEA OXFORDS." Am offering choice ewe and ram lambs, shearling ewes and a few shearling rams for flock headers. Also young Yorkshire pigs of the best bacon types, Teeswater, C. P. R. W. H. ARKELL, Mildmay, G. T. R. om Teeswater, Ont.

MOUNT FARM BERKSHIRES **CHOICE-BRED STOCK** 

now for sale; PAIRS SUPPLIED NOT AKIN.

Inspection requested, and correspondence invited and promptly answered.

C. G. BULSTRODE, Mount Farm, SOUTH QU'APPELLE. ASSA.

Tamworth Swine and Barred Rock Fowl Tamworths for this year sold out. Orders taken for spring; 6 to litter; also Barred Rocks - large num-bers to select from. Cockerels, \$1.75; pullets, \$1 each. A. T. BARTLEMAN, - Wapella, Assa.



The most select herd of Berkshires in North-western Canada. My brood sows are all prize-

brood sows are all prize-winners at Winnipeg. Headed by the diploma oar Emperor, an extra large, long, smooth hog. Boars fit for service; sows in pig fit to breed. Also a number of young pigs of both sexes. Pairs sup-plied unrelated. Also 2-year-old Shorthorn bull, a rich dark red, grands m of Royal Sailor (imp.), Watts' famous stock bull. Price, \$150 if taken at once. A snap. Correspondence solicited. Satisfac-tion guaranteed, or no sale. JAMES M. EWENS, Lakeside Stock Farm. Minnedosa, Man.

#### THORNHILL HERD. ESTABLISHED 27 YEARS.

Imp. Royal Member and Sailor Champion now at head of herd, which are all bred on straight Scotol lines, and are of the up-to-date kind. Present offering : some choice young bulls. on

**REDMOND BROS.**, Millbrook Sta. and P. O.

## Shorthorn Cattle, Lincoln Sheep

Imp. Prime Minister at head of herd. Imp Clippers, Miss Ramsdens, and other Scotch families. Lincolns won more than half the money and first for flock at the Pan-American; International, Chicago, 1901 and 1902.

### J. T. GIBSON. om DENFIELD. ONT

### MAPLE LODGE STOCK FARM, 1854

Am offering a very superior lot of Shorthorn Bulls and Heifers as well as something VERY attractive in Leicesters.

Choice ewes got by imported "Stanley" and bred to imported "Winchester." Excellent type and quality. om A. W. SMITH, MAPLE LODGE, ONT.

Present of **Shorthorns**: Our stock bull, fering in **31573** =, a grand stock getter and sure, 3 years old Also 1 bull, 13 months; heifers and cows. Shrop-, all arces and sex. BELL BROS., Bradford, Ont.

JERSEYS For sile; Sweepstakes bull at London, 20 months old, sired by Brampton that of a deep-milking cow; also Carload, B. H. BULL P. R. & G. T. R. Stas.

### TINNER IN MARINE

#### A FEW DON'TS.

1. Don't say "them pigs," "them apples," or "them anything else;" say 'these pigs," "these apples," if the objects referred to be close at hand, but use the word "those" if they be at some distance, e. g., "these cows are

mine, those are my neighbor's." 2. Don't say "I seen " anything ; say "I saw." On the other hand, remember that with an auxiliary verb, such as "have" or "was," you must use the word "seen," saying "I have seen," instead of "I have saw."

3. Don't say "him and me," or "me and him " did anything ; say " he and I" did whatever may be the thing in question.

4. Don't neglect sounding the "ing" in words that end in it. "Going" is as easily said as "goin'," and sounds much better.

5. Don't use the word "will," unless you intend to show that your action is a voluntary one. "Will," when used in the first person always implies voluntary action. Thus you may say "I will see if this is done." Use the word " shall." when you wish it to be understood that your action is dependent upon something outside of your will, as "I shall be sorry if he does this."

6. Don't murder the English language, if you can avoid it. It takes no longer to speak correctly than incorrectly, and correct use of language always adds remement to one's conversation. If your

chance" in grammar has been insufficient, notice how things are expressed and by people of culture. You wick up" correct methods of ex-



SHEEP DREEDERS' ASSOCIATIONS American Shequebire Registry Association, the largest live stock organization in the world. Hon. John Dryden, President, Toronto, Canada, Address correspondence to MORTIMER LEVERING, Secre-tary, Lafayette, Indiana

Pennabank SHROPSHIRES and SHORTHORNS A number of extra good and well-covered yearlings of both sexes, sired by imp. Rudyard ram. Also two extra nice young bulls. Prices reasonable. om HUGH PUGH, WHITEVALE, ONT.

FOR SALE: Yorkshires and Holsteins Best type and quality. Young stock constantly on hand, Prices right, R. HONEY, om Brickley P. O., Instead of Warkworth.

ChesterSwine

From Toronto and London prizewinners. Dorset sheep and lambs. Prices reasonable.

R. H. HARDING, Mapleview Farm, om Thorndale, Ont.