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or for \$4.50 to any station in Alberta or B.C. as far west as Revelstoke. You take no chances in buying this Tea. Our catalogue, quoting prices, freight paid, on Groceries, Crockery and Glassware, is free for the asking. Smith & Burton, BRANDON, MAN. DR. BARNARDO'S HOMES. The managers of these institutions invite applica-tions from farmers and others for the beys and youths who are being sent out periodically from their English training-home. The older beys remain for a period of one year at the Farm Heme at Rus-sel, during which time they receive practical instruc-tion in general farm work before being placed in situ-ations. Boys from eleven to thirteen are placed from the distributing home in Winnipeg. Applications for younger boys should be addressed to the Sceretary, 115 Pacific Avenue, Winnipeg, or P.O. Box 206; and for older boys, possessing experience in farm work, to Manager, Dr. Barnardo's Farm Home, Barnasdo, Man. The managers of these institutions invite applica-Man. R. A. BONNAR,

Barrister, Notary Public, Conveyancer, Etc. Office 4943 Main Mt., Winnipeg, Man.

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IN WRITING

THIS IS THE BEST FARMERS' PAPER IN WESTERN CANADA. PLEASE WENTION FARMER'S ADVOCATE.





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WINNIPEG, MAN., AND LONDON, ONT., JULY 21, 1902

# Harvest Help.

VOL. XXXVII.

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In order to avoid, if possible, some of the difficulties experienced, in the West last year in distributing the harvest helpers that were brought up from the east, this year, in addition to making inquiries through the regular crop correspondents, the Manitoba Government is placing with all station agents, lists for the receipt of applications from farmers wanting help. the number required, the wages offered, etc. After these lists have been compiled, tickets only to the number of men called for by any one station will be issued to that station at the harvesters' excursion rates. It is also proposed to check all baggage to Winnipeg, and redistribute from there after the men have become located. Those farmers who have thus filed their applications with the station agents will have first choice of the men sent to their station. The intention is to bring in one excursion in time for the harvest cutting, and others a couple of weeks later, when the Ontario harvest is well over, and the time for stacking and threshing has arrived. It is expected this year, owing to the great interest being taken by American capitalists in our cheap lands, that a strong effort will be made to inaugurate home-seekers' excursions at harvest time from the south. The harvest would be well over in the central States before it would be necessary for the men to leave, and, besides seeing the country-Manitoba and the Northwest-the harvest and threshing would afford an opportunity of earning some money, a proposition with which most home-seekers would not be disposed to quarrel

The indications are that there will be demand, at good wages, for all the men that can be obtained.

# Free Importation of Breeding Stock.

A recent despatch from Ottawa reveals a case of apparently unwarranted interference on the part of a U.S. Customs official in the matter of the importation of pure-bred live stock for breeding purposes into that country. The dispute is between Mr. H. F. Page, of Mission City, B. C., and the Collector of Customs at Sumas, Washington The former, in October, 1901, was compeiled to pay \$1,000 duty on ten Percheron horses -four stallions and six mares-entry for which bad been made as pure-bred stock for breeding purposes, and claiming free entry under the existing tarifi, the horses being accompanied by the proper registration papers of the American Perchcross Horse Breeders' Association. The contention of the collector is that Mr. Page was taking the horses into that country for sale, and that such action was not in ac ord-ince with the spirit of the exactment. A deposit equal to the amount of duty on the valuation of the animals was claimed before allowing them to pass, and Mr. Page appeaced the case. Testimony has recently been hears by one of the judges of the Board of Appracess whose headquarters are in New York and the will render their decision some time in Aug - Much will depend upon the rendering of the court as to the proper reading of the regureferred to. It is well known that large of registered horses and cattle have, in hill! cars, under this law been taken from THE the States, both by American citizens ( <sup>°</sup>a 1 Lunadians, and sold for breed ng purposes my questions being askel by the Cus-NIT. porities, so long as the proper registra-1 %

dustry in which free trade is mutually beneficial. it is in the dissemination of pure-bred stock for country.

# Health on the Farm Affected by Insects.

Medical investigation of the causes of certain diseases to which country people are especially exposed, prominent among which are malaria and typhoid fever, appears to have traced the origin, or. rather, the transference, of these diseases from affected or unaffected persons to certain mosquitoes and the common house fly, malaria being carried by the former and typhoid by the latter. Malaria has been called by medical men a country disease. it being generally most prevalent in swampy regions or where there are side pools of still water in the vicinity of streams. Malaria in cities, as a rule, is found only with persons who have contracted it in the country or in the suburbs, although with cities having marshy places on their borders, a malarial belt may exist, the extent of which depends upon the direction and force of prevailing winds and especially of the night breezes. The old idea that malaria is caused by breathing the miasma of swamps, it is claimed, has been exploded, and it has been discovered that the disease is contracted only through the bites of mosquitoes of the genus Anopheles. The cause of malaria is the growth and development within the red blood cells of a very minute parasitic organism belonging to the lowest group of the animal kingdom-th group Protozoa, or one-celled animals, which includes those minute creatures known as Ameebas and others, and which live in the water or in damp sands or moss, or inside the bodies of other animals as parasites. This parasite reproduces in the old-fashioned box privy is yet in use, size the body by subdividing, eventually bursting the red blood ceils and entering the blood serum as a mass of spores. Broadly speaking, when the blood of a human being is sucked into the stomach of a mosquito of the gen is named, the malarial parasite undergoes a sexual develop ment and gives birth to a large number of minute spindle-shaped cells known as blasts. which enter the salivary glands of the insect and are ejected with the poison into the system of the next person bitten by the mosquite. If this person happens to be non-malarious, the malaria has thus entered his system and malarial symptoms result. So far as at present known, this is the on'y way in which persons become malarious, and in order to avoid this result it is necessary to study and plan to avoid the bites of malarual mosquitoes, and as it is perhaps too much to expect that the average reader will study the habits. and description of the different varieties of mosquitoes, which are given in full, with engraved illustrations, in an excellent bulleting. No. 155 of Farmers' Bulletins of the L. S. Department of Agriculture, by Professor L. O. Howard Entomologist, we commend what are set forth as the most practical measures to be taken to prevent malaria, which are the drawing or alling up with earth of swampy or hit line places where pool are hable to form . the averlag of the same of pools with a they do not been decord and the sit. By attention to the law of ledit ers accompanied them. It appears or use of screep doors this vielows to entry with principle of clearlines, we must be of if, to be an unneressary as rangalled a thoreagh search of the basis her most storencice with a legitimate trade and it is that have found entries out the redestruction of the court, in its wishes the court which mention for the or the type. The

cide, as the free distribution of improved specialis - amount of insect powder (pyrethrum) certainly desirable in the interest of the people of dish cover. Persons wishing to avoid matura both countries, and no undecessary barriers should not stout of doors exposed to the bites shou'd be placed in its way. If there is any me of mosquitoes at hight, and these having endarm should be carefully screened at night to prevent them from being bitten by mesopaties where, is the improvement of the general stock of the coming thus infected, would become potential carriers of the disease. Such patients, systematically treated with quinine, the dose teng aiways given at the beginning of the chill, will seen be rid of the disease. The time of dose is important, and the reasons for the time has teen abundantly proven by the study of the life of the parasite in the blood cells.

No. 554

TO PREVENT TYPHOID FEVER .- The common house fly is believed to be the principal insect agent in the spread of this disease, and this insect is especially abundant in farmhouses and other country houses in the vicinity of stalles in which horses are kept. The reason for this is that the preferrel food of the larvae of house flies is horse manure. They are also attracted to and will lay their eggs in human excrement. Under favorable conditions they will breed, to some  $\epsilon x$ tent, in this excrement. They swarm in kitchens and dining-rooms where, food supplies are exposed. They are found commonly in box privies, which sometimes are not distant from kitchens and dining-rooms where food supplies are exof flies, with a box privy near-by, or with excremental deposits in the neighborhood, and with a perhaps unsuspected or not yet fully-developed case of typhoid in the immediate neighborhood, there is no season why, through the agency of contaminated flies alighting upon food supplies, the disease should not be spread to healthy individuals. That it is so spread is unquestionable. The remedy is plain. It consists of proper care of excreta, the destruction of flies, and the use of screen doors and screens for windows when raised, which are not expensive and can be purchased ready-made, or may, perhaps, be more cheatly home-made by a reasonably handy man . Where should be observed to use disinfectants freely often, fresh line being the most convenies, the to have it cleaned out occasionally and t texts deeply buried and covered with line - Where a good earth closet is moveration, and where a case of illness, the excreta of patients are pressit ly disinfected by the use of lime or solution of, copper sulphate (bluestone), both of which are cheap and easily applied, flies breeding in the neighborhood will have practically no opportunity to become contaminated with typhoid Leving Horse manure, however, should also be afterned to by being removel, if not daily, at least one of week, and placed in adpit or treated to filsen. plications of lime Neglect of these simples adstasily practicable precautions is little short of criminal, and in many cries is doubtle cause of much illness, suffering and experies the sacrifice of valuable lives bringing grad sorrow to the innates of the home and includes tes which might have grown and strengthered with motual beseit in the passing of there People are apt to siek to console then, server, with the view that all such in tances of the rewoval of their frients are dispensations of Providence, but in all erroueness we believe it a wiser to recognize that in this respect. others. Providence helps there who help there exists and that by doing our duty in to far as we knew workers with Providence in the prolongs to c. and d lives and the production of the r of konse

# THE FARMER'S ADVOCATE.

# Farm Siftings.

# The Farmer's Advocate AND HOME MAGAZINE.

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

> PUBLISHED SEMI-MONTHLY BY THE WILLIAM WELD COMPANY (LIMITED).

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THE WILLIAM WELD COMPANY (LIMITED), WINNIPEG, MANITOBA.

# **Crop Conditions.**

An unusually late seeding, followed by a cold, wet, lingering June, throughout which there was comparatively little growth, except of grass, gave the pessimist a change to cloak. July, however, openel, after a few smart clearing showers in the wheat sections, warm and sunny, and vegetation responded with a rush. At this writing, grain is but little behind its average advancement, and with favorable weather from now on, harvest will be in good time. Reports from our correspondents in almost every district in licate that the crop will be a magnificent one. The straw is not as heavy as one would expect from so moist a spring, and the stand is, generally speaking. strong. All kinds of grain seem to be equally good and uniform. The accenge in used by wet will be very small, only very low-lying, undrained lanks and river bottoms being seriously affected. The hay crop is abundant, all cultivated grasses having done remarkably well. Some wild-hay sloughs are, of course, flooded, and will not be available this season. Hail has fallen in a few localities. If we get extreme heat there will doubtless be damage done by hail. Insurance can. however, be obtained at reasonable cost now, and those in districts subject to such visitation should protect themselves.

Those of us who take an interest in agricultural education have been patien ly waiting for the report of the Royal Commission appointed twelve months or more ago to look into the question of an agricultural college for Manitoba. Probably the commissioners have been too busy with their summer-fallows to bother with affairs of state.

One thing certain, there will be no Manitoba College of Agriculture for a year or so yet. Better send some of our boys to the Ontario Agricultural Co'lege in the mean'ime. As that institution is growing in popularity, it will be n cessary to make application early to obtain entrance.

There have been a good many picnics this summer, but very few Farmers' Institute meetings The season has been much against the holding of farmers' meetings, what with the wet weather, late seeding, bad roads and delayed farm work generally. However, let us hope the authorities will make extra preparation for a good strong campaign next winter. We want men who can talk on subjects of interest in the localities to which they are sent and who know what they are talking about. Send the right men and there will be big audiences. \* \* \*

It's time now to overhaul the binders, secure any needed repairs, see that the canvases are all in order, buy good quality of machine oil and a first-class binder whip.

## \* \* \*

The following item from an exchange is pertinent :-

'The constant buying of new farming implements keeps many a farmer's nose on the grindstone. and has sent many into bankruptcy. Some farmers seem to be unable to resist a windy agent, and buy what they do not need. Thousands of half-worn tools are thrown aside for new ones that are no better. This is one of the greatest wastes on the farm. Buy good implements, and take the best of care of them, and they will last nearly a lifetime. It is always best to bring every implement home at night that is used during the day, and house it if the weather is the least suspicious. It takes but a minute to run an implement under a shed, and if a rain should come on during the night it will be kept dry. Rain rusts iron and swells wood. Rust soon destroys iron and steel, especially the threads of bolts and the more delicate parts of a machine, while the swelling and shrinking of wood checks and rots it. All the most successful farmers I know most invariably bring in the tools at the close of the day's work. When an implement is taken apart and stored away for the season, it should have a new coat of paint. The raint should be thinned with oil, then it can be applied quickly.'

# The Cut Arm Plowing Match.

Agricultural Society was held at Cut Arm. a few miles south of Saltcoats, on June 26th

FOUNDED 1866

# Showing and Judging.

The benefits derived by breeders and manufacturers from exhibiting their products, the result of their enterprise and skill, at agricultural and industrial exhibitions, were in part set forth in an article in our last issue. We purpose now to pursue the subject a little further, and to advance some ideas that from experience and observation have occurred to us as being of interest to exhibitors and judges. Success in exhibiting live stock depends primarily on the production or selection of superior animals, and, secondarily, on their proper feeding and preparation for the show-ring. in order that they may show for all they are worth and make 'the best possible impression on the eye and mind of the judge. To make the best showing, the special feeding and fitting should not be limited to a short period, but had better be a gradual process, so that there may be no forcing, which is always liable to produce indigestion or other ailment, and thus defeat its purpose. An overfed or excessively fat animal, especially if from lack of sufficient exercise its legs have become stocked or crooked and its action clumsy and awkward, almost invariably makes an unfavorable impression on a competent judge, and leads him to seek for something more useful looking in the competing list. Heavy feeding with heating, concentrated foods is liable to put on rolls of hard-feeling fat instead of an even distribution of springy flesh and the qua'ity of hide and hair that is pliable and pleasant to handle and is the result of the feeding of properly-balanced rations of mixed grains and oil cake. This, together with plenty of exercise, blanketing and hand-rubbing, and the polishing of horns, where there are such, the trimming of inequalities, and the training to walk gracefully and stand in the best positions, are parts of the needed preparation that may prove to be essentials in a close competition. But, back of all this, there must be the proper type of animal in conformation and quality to catch the trained eye of the expert judge, for no matter how large nor how smooth and well fitted the animal may be, if it be not of the approved type that meets the demands of present-day markets, and if a male lack the quality known as character, which indicates probable prepotency as a sire, or if a female fail to show a proper degree of femininity in head and neck and in general appearance, its chances to win are at once discounted. Size with quality and approved type is all right, but without these latter qualities it may be regarded as a disadvantage; indeed, abnormal size is not desirable in either breeding or show animals. while the happy medium in this regard, in either meat- or milkproducing animals or horse stock, is more likely

to please the taste of an up-to-date judge. When it is considered, as we believe is generally admitted, that the judges by their decisions, The second annual plowing match of the Stirling to a very considerable extent, set the standard of desirable type in the various breeds and classes of live stock, the need for care in their selection becomes clearly apparent, as their position is one of great responsibility, requiring a cool, clear head, careful consideration and discriminating judgment. It is not the purpose of this article to discuss the perennial question of the advantage of employing one judge or more than one for a class, though we do not hesitate to proclaim our preference for the single-judge system as the one most likely to impress a map with a due sense of the seriousness of his responsibility and the one most likely to bring about uniformity of type in the various breeds, a consummation, it seems to us, very desirable, if it means a uniformity of usefulness and excellence combined with attractiveness. Without presuming to lecture judges, we may be permitted to suggest that, from watching the work of those officiating, it has appeared to us that the work is simplified and made more satisfactory to both judges and spectators if the animals in classes shown on the halter are passed around the ring in procession, and a few of the best drawn out, from which the final selection of the winners is made, these being placed in the order of the judge's rating : and the educative value of his work to the onlookers is enhanced by his placing the whole class in order of merit, according to his judgment. By this means the distinctive type he aims to mark with his approval may le seen in se far as it can be shown with the material at hand and the consistency of his work be made manifest

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Stock have done well. There has been little trouble from flies, and with the cool weather, abundant grass and  $n_0$  lack of water, cattle have had an enjoyable season so far. The range cattle are now running pretty freely and their condition is good.

# Cultivating the Prairie Sod.

It is reported that a rancher near Calgary has the tot and paren et a special prairie cultivator of the process cuture up the sodbound produces and tight school at ing the grasses to grow momentate in a lt street stid that the McCounters less take particulated purpose manufacturing the sective term. The sect is not a new encoded act times. The Experimental former former for the former former former for the former form disked sod, but note of these proven satisfactory.

Mr. and Mrs. Mess, on whose farm the match was plowed, entertained the plowmen as well as those who came to witness the contest. The thirteen contestants started promptly at n'n o'clock, upon the hoisting of the signal flag by the Secretary. Mr. Hugh Porter. (This is a point that could, with profit, be taken note of by other societies in conducting plowing matches.)

The judges were Messrs. Kaywood and Melville, while Messrs. John Meal and Wm. Sangster placed the awards on the competitions for the prizes offered for teams, etc. In addition to the teams, a number of specials were given with the object of making some fun. The list of winners is given below :

Plowing.-1st (cup winner)-W. T. Thompson 2nd (87)-Thos. Muir ; 3rd (86)-Jno. Green 4th (S5)-W. B. Thompson : 5th (S4)-R. Green 6th (83)-A. Capling: 7th (chain)-G. Mess: 8th  $(ch in) - \Lambda$ . Hamilton.

Best feering-R. Green Best finish-T. Muir. Outs and ins-J. Ritchie.

Plowman doing his work in most workmanlike  $\operatorname{Lianner} - \Lambda$  Hamilton Best working plow - T Muir First to thush and in prize list-W. B. Thompson

Plow Teaus -- Pest mated team-W. B. Thomas son Tidies' tarmout - H. Porter Best kept  $t_{1}(a_{1})(a_{1}) = T_{1} = M_{1}(a_{2})$ 2nd-W. B. Tho apson. Best bent harnes .- .1 Ritchie.

Specials - Last married mar -T. Muir Oldt the man A. Handley - Youngest ployman-

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# THE FARMER'S ADVOCATE.

# Harvesting Brome and Western Rye Grasses for Hay and Seed, and Method of Extermination.

# To the Editor "Farmer's Advocate"

JULY 21, 1902

I have much pleasure in complying with your request for a short article on the best methods, so far found by tests on the Experimental Farm. of harvesting Brome and Western Rye grasses for hay and seed; and for the extermination of the two grasses.

Although the majority of the old settlers are conversant with the important points with regard to the seeding and cultivation of Brome and Western Rye grass, there are many new settlers who will probably require information on this work, and I therefore quote from the Northwest Experimental Farm Report of 1901 the following results of tests extending over a number of vears :

# SEEDING AND CULTIVATION OF BROME GRASS.

# [This also applies to Western Rye grass.]

"This grass is better sown alone ; at least, it should not be sown with a grain crop. The grain takes too much moisture from the young grassplants, only the most vigorous of which will survive the dry weather in September : whereas, if sown alone, all the plants have an equal chance.

It is advisable to sow the seed on land that does not blow. Summer-fallow would be the best preparation, but on account of its liability to drift, it is not safe in many parts of the Territories to use land cultivated in this way. Stubble land plowed three or four inches deep in April or May, and well harrowed after the seed is sown. is found to be quite safe from winds, as the stubble harrowed to the top prevents all drifting.

"Ten or twelve pounds of seed is required per acre. More seed will give a better crop the first year, but less afterwards, as the roots thicken up each year and in three or four years make better pasture than hay.

"The seed being light, long and thin, seeding by hand is the only practicable method unless seeders constructed for the purpose are available. To seed properly, a calm day should be chosen. so that all parts of the land may be evenly sown. While the plants are young, weeds are sure to make great headway, and it is necessary to keep them at least from going to seed. The quickest way to accomplish this is to go over a field with a mower, cutting just above the grass plants. If this operation has to be repeated, it will be necessary to cut the tops of the grass, but this will not injure the plants : in fact, it is an advantage in the way of giving the roots firmer hold.

"The first crop of hay can be cut the next year after seeding, and will in ordinary years, be ready early in July. Twenty days after being ready to cut for hay, it will be fit to cut for seed, if so desired."

# CUTTING AND CURING FOR HAY

Brome may be cut for has at any time from the time it comes into bloom until the seel is well formed. If cut just after it comes into bloom, the yield will be smaller and the grass more difficult to cure, on account of the large amount of sap in the leaves and stem. Brome grass when forming seed is at the same time proucing a bottom growth of leaves, which mate rially adds to the quantity of hay and more than makes up for the depreciation in feeding value of the seed-bearing stalks, occasioned by the production of seed. In addition to the increase in quantity through late cutting, there is the advantage of having less moisture in the grass to contend against when curing, which in unfavorable weather is a great consideration. The only drawback to late cutting is that a poor crop of grass for fall feeding is obtained. Early cutting induces the production of a good aftermath ; and late cutting, the reverse

When either grass is cut with binder, three weeks is required to cure the hay before it is in fit condition to stack. Moderate-sized sheaves, stooked north and south, 10 to 12 sheaves in a stook, gives the best results. Round stooks should never be made when the grass is intended for hay.

## FOR SEED.

Both varieties produce large quantities of From 400 to 600 pounds per acre is seed. usually obtained from the first crop, after which the yield gradually decreases.

Seed ripens in from 18 to 20 days from the time of bloom, and should be cut before becoming too ripe, otherwise a great deal will be lost in handling. In cutting for seed, a binder should be used in all cas s as the handling after a mower causes a great loss through shelling. Sheaves should be made of good size and stooked north and south. As with all grain crops, the riper it is when cut, the shorter the time it takes to cure for stacking.

# THRESHING AND CLEANING.

The seed of both Brome and Western Rye grass is easily separated from the heads, and any make of separator is suitable for the work of threshing. The only points to be observed are : that the cylinder and concaves be as far apart as possible to permit the straw lassing through freely without being broken up more than is closing off or regulating the wind from the fanner, and using screens that permit the seed to pass over or through them without delay. For this purpose, zinc screens are the best. No seed need be blown over the tail-board if the wind and speed of the machine are properly regulated.

Cleaning is rather a tedious job with the fanning mills at present in use. The seed, however. can be thoroughly cleaned by them by putting it through twice. The wind should be shut off the fanners and the machine turned slowly. Use zinc screens



## HAROLD H.

## ERADICATION

A great many farmers object to growing Brome grass on account of the difficulty of getting rid of it when it becomes necessary to do so.

# The Blyth Plowing Match.

The seventh annual contest of this popular and attractive event was successfully held on the 25th June, on the Will Elder farm, recently purchased by Mr. Clarence Fox, the place memorable as the scene of the second match, five years ago, which was in every way so eminently successful. There, Tom Hill, Brandon, achieved his greatest success by work of the most finished style, never again equalled by himself and hardly ever surpassed by any other contestant in subsequent lights. For the purposes of the match on Wednesday, the day was ideally fine, and few places could be more central or better adapted as to suitability of soil and picturesque surroundings than the location chosen, and other essential conditions were favorable to a genuine contest of skill and merit.

For the highest honors (deservedly won by James Sutherland, Beresford, at last year's match) in-14-in. class, a very keen and strenuous combat was certain. The following are the contestants who took part and the awards made at the close of the match :

the close of the match:
Men's Class, 14-in, walking plow: 1, W. Guild, Kenmay, 83 points, \$15; 2, James Sutherland, Kenmay, 82, \$12; 3, W. Turner, Carroll, 81, \$10; 4, John Stott, Brandon, 68, \$5, 5, 6, J. C. Noble, Blyth, 54, 84; 7, John Bain, Blyth, 63, \$3, Judges, Messrs, Henderson and Mavhew.
Men's Class, 16-in, walking plow: 1, A. T. Elder, Blyth 86 points, \$15; 2, W. Marshall, Blyth, 69, \$12; 3, G. Charleson, Brandon, 68, \$10; 4, W. Foster, Chater, 56, \$8; 5, Jas, Pringle, Rownthwaite, 51, \$6, Judges, Messrs, N. Reid and G. Hopkins.
Young Men's Class, under 21, 14-in, walking plow: 1, Alian Leslie, Chater, 80 points, \$15; 2, George Elder, Blyth, 58, \$11; 3, C. McCulloch, Methven, 55, \$8; 4, Fred Wells, Brandon Hills, 54, \$6, Judges, Messrs, Henderson and Mayhew.
Boys' Class, under 17, 14-in, walking plow: 1, Allan Leslie, Chater, 80 points, \$21,50; 2, E. Sopp, Brandon, 75, \$10; 3, A. Foster, Chater, 73, \$7; 4, G. Wheeler, Blyth, 59, \$5, Judges, Messrs, N. Reid and G. Hopkins.
Gang plow, 14-in: 1, H. M. Johnston, Chater, 83 points, \$18; 2, George Boles, Brandon Hills, \$2, \$13; 3, W. W. McCulloch, Methven, 74, \$9; 4, N. Nelles, Brandon, 70, \$7; 5, D. Foster, Chater, 69, \$5, Judges, Messrs, Agur and Mayhew.
Gang plow, 12-in, 3 horses: I. T. Elder.
Sweepstakes prize, silver cup, value \$35, presented by F. O. Fowler, M. P. P.: W. Guild, Kenmay.
Silver medal, presented by J. W. Fleming, for best crown and finish on field: Jas. Sutherland, Beresford.

There was fair competition in all the classes except the three-horse gang class. The keenest was in the 14-inch walking-plow class, where James Sutherland, the champion, was making a promising effort to retain his place for this year by a successful strike-out and crown. By a failure in his crown, W. Turner lost his chance of first place, and Guild and Stott were likely to prove the most formidable disputants of the championship. But as time wore on it became evident that the tussle would be between Guild and the champion, both doing characteristically good work, Guild winning by a single point, Sutherland second, and Turner third, with work, barring the crown, of rare excellence ; John Stott scoured fourth place, with work that he has often excelled. Creditable work was done by Torry. Noble, Bain and T. Elder. The other class in which an interesting competition took place was the 14-inch gang plows, where George Boles was doing excellent work, which commanded the attention and praise of numerous spectators. . Excellent work was likewise done by last year's champion, H. M. Johnston, Chater, who retains the first honors for this year by one point. It seems curious that both should have the same blemish in their finishes, which otherwise would have been excellent. The third place was taken by W. W. McCulloch, Methven, who did good, straight work, but was less successful in stubble

WESTERN RYE GRASS requires to be cut for hay while in bloom, or very soon afterwards. There is no bottom growth made while the seed is maturing, and if left until the seed is ripe, the hay will be of very inferior quality. This grass is from a week to ten days later in heading out

# CUTTING HAY WITH A BINDER.

Hay may be made from both grasses by cutting with mower and curing in the usual way, or by cutting with binder and curing in stooks. The latter is the easiest and least expensive method. especially if the weather during having-time

is cheaper to cut with a binder, as much labor is saved in curing and drawing. With favorable weather, however, mowing and curing in cocks better quality of hav.

there or Western Rye grass, when cut just fore stacking or storing in a building : If cut two weeks later, 3 to 1 days is

This, no doubt, is a consideration, but the value of the dead roots left in the soil makes up for the greater part of the work required to successfully accomplish its eradication, especially when the soil is old and liable to drift

Breaking and backsetting in the same manner as prairie sod is usually handled has been found to be the best method of eradicating this grass. Breaking 2 inches deep early in June and back setting 4 or 5 inches deep in August will kill all the roots, except in very wet seasons like the present. Breaking and backsetting acts the same as a fallow. It stores up moisture for the succeeding crop and kills the weeds.

Western Rye grass roots are not difficult to kill, and if plowed 4 to 6 inches deep in the spring, the land may be sown to oats, barley or fodder, with good chances of success in an ordinary season. After plowing and before seeding, a disk harrow should be used to insure a good seed-

Generally, Brome and Western Rye grass produce their best crop of hay in the dist year after seeding. In the second and third years the yield gradually decreases, after which the field is letter pastured.

How long either variety will afford sufficient pasture to warrant its being allowed to remain. has not yet been determined on the Experimental Farm. Brome has been in pasture for five years

Two, or at most three, crops of hay are cut doom, by mower, requires 6 to 8 days to from both Brome and Western Ryc grass, when the field should be broken up if pasture is not

Supt. Exp. Farm:

ANGUS MACKAY,

In the 16-inch men's class, the competition was less keen than usual, A. T. Elder, ex-champion, taking first place : W. Marshall (his first contest) taking second : G. Charleson. Brandon, pluckily entering the arena. taking third place. Of the young men, Bain Elder and George Elder were the most successful, and of the boys. Allan Leslie and Ernest Sopp attained the greatest success. On the whole, good work was done on soil that was a trying test to the skill and experience of not a few, and if there was a seeming lack in any special feature of good plowing, it seemed to be most in the prime essential point, viz. straightness. Numerous friends from town and country were interested spectators of the proceedings. The Ladies' Aid Society largely contributed to the success of the undertaking by their excellent meals.

Mr. McKellar, Winnipeg, and Mr. Wolverton, Brandon, delivered addresses at the close, after which the distribution of the awards took place and the gathering dispersed.

# Harold H. (2.04) for Winnipeg.

Harold H., by Roadmaster, the famous little anadian trotter, whose turf performances were fully described in the last Christmas number of the "Farmer's Advocate," was sold at the Windsor (Ont.) races, recently, by Mr. Swartz, of Wingham, his owner, to R. J. McKenzie, of Winnipeg. The price is said to have been \$7,000. On July 8th, he was beaten in the match race on the Windsor track by Dan Patch (son of Joe Patchen and Zetica), who came under the wire in 2.061, the first half of the mile being made in 1.01

# THE FARMER'S ADVOCATE.

# Our Scottish Letter.

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At this season there is little else to occupy attention than shows, and the week ending 21st June was perhaps the busiest agricultural-show week of the year. Fortunately, that date also saw the end of a long spell of cold, unseasonable weather, and the week now tapering to a close has been marked by some of the finest weather we have had for many a day. Everything is luxuriating in the sunshine, and but for the tragic postponement caused by the serious illness of the King, the country would have gone a-holidaying to some purpose. The King has always been a keen patron of agriculture, and his influence in popularizing agricultural events has been considerable. The brilliancy of the weather throughout the British Isles on this, the day set apart for the coronation, adds to the intensity of the regret everywhere expressed at what has happended.

There is every prospect now of 1902 yielding good crops of all kinds. The ground was so saturated with moisture that the excessive heat now experienced has made every kind of cereal and root almost grow up sensibly before one's eyes. Hay, however, will in general be a light crop, and early potatoes will not likely, even with the favorable turn in the weather, prove to possess much quality. The first Gervaie potatoes were this season lifted by Mr. Andrew Dougan, Straid, about a fortnight ago. This was nearly ten days later than in 1901.

Preparations for the last migratory show of the Royal Agricultural Society, at Carlisle, are now well advanced. The site is most picturesque, lying on both sides of the Eden, just outside the walls of the old city. In 1880, when the Royal Show was last held at the border town, the Citadel joint station had just been completed, and it seems but a thing of yesterday when we tried to make our way through the yard on planks well-nigh afloat. The weather was of the most wretched description, and the officials were almost at their wits' end to know how to provide decent locomotion for the visitors. It makes one feel a little older when he visits two Royal Shows at one center, and 22 years is a considerable item in the life of any man. Many changes have taken place in agriculture during these twenty-two years, and the difference is perhaps more marked in the methods of working crops than in stock. An interesting article on "Haymaking," in the Journal of the Board of Agriculture, just issued, opens up a wide field of reflection on this aspect of things. It would not be too much to affirm that America and Canada have played the chief part in effecting a silent revolution. Few implements manufactured on the other side of the Atlantic can be utilized here without greater or less modification. But the idea embodied in the machinery must ever be retained, and it is in the introduction of these ideas that American influence can be most clearly discerned. The economical benefits accruing to this country from the adoption of such Canadian machines as the Massey-Harris self-binder and cultivator, the Dux plow, and much else, can hardly be overestimated. It has very largely been through the introduction of these and like implements and machinery that the British hae oon able to keen himself in evidence That he has done and is doing so does not admit of question, and sooner or later it will be admitted that the agriculture of the Old Country even in respect of scientific equipment, is fully abreast of the attainments of the new. Very successful shows of stock were last week held at Glasgow, Stirling, and Cupar-File. 1 t would be impossible to name all the other places where craditable exhibits could be seen. The best exhibits at Glasgow were found in the drivinghorse section. Perhaps this impression was created by the undoubted fact that this section showed by far the greatest advance on former exhibitions. The Hackney, in spite of the numer ous adverse criticisms to which he is subjected was the principal factor in producing these animals. It is increasingly evident that if the highest class of carriage horses is to be produced in this country, the Hackney will need to furnish the foundation cross. You cannot have a high-class carriage horse without a dash of Hackney blood. If Hackney beceders would been this steadily in view they would do much to disarm the volume  $\frac{1}{2}$ of odderse entitieses with which their favorites Challed I have need a cond display at Glasgow and form of concelled on dry was presented is the p ceedings. A new Mr. Dewar's Royal has not been much betitions, but his stock of He was bred by his own Kippin His sire was the Car low e Royal Gartly 9811. who of Argenio: 10751, was by the not Brooklass 6517. His gr.-dam was le

1334, and his g.-gr.-dam by Black Comet 66. Through his sire he has a strong dash of Prince of Wales blood. On his dam's side he gets the Darnley dash from the dam of Brooklyn, an uncommonly true specimen of the low-set, wide Clydesdale mare, and another dash of Prince of Wales blood. From True Blue comes the strong, weighty blood of Drumflower Farmer 286, and from Black Comet comes the Comet strain, long favorably known in the north of Scotland. This breeding is not what has been in more recent years regarded as strictly orthodox, but it involves a blending, the issue of which will be worth studying. The sensational animal of the show was Mr. Henry Gray's yearling filly, Nellie. She was bred by her owner at Hawkhill, Kincardine-on-Forth, and got by Royal Favorite, out of a mare by Flashwood 3604, own brother to Macgregor 1487; gr.-dam by MacVicar, a son of Mac-This filly was first in her class both at gregor. Stirling and Glasgow, and at Glasgow was awarded supreme honors as the best female Clydesdale exhibited. It is nearly 20 years since similar award was made at Glasgow. In 1884, Lord Arthur Cecil was successful in carrying off supreme honors with the famous yearling, Edith Plantagenet. Mr. Gray's filly has rare quality of limbs and the best of feet and pasterns. Her movement is faultless both in front and in rear, and she takes the eye of the judge right away. Other good fillies were shown at Glasgow by Mr. St. Clair Cunningham, whose three-year-old White Heather, by Baron's Pride 9122, was runner-up for the supreme honors ; and by Mr. Davie, Cathcart, whose first two-year-old filly, by Up-to-Time, was first at Paisley and East Kilbride. The best mares were shown by Mr. Alex. Guild, whose magnificent big mare, Lady Margaret, was first in the yeld class; and Mr. J. Ernest Kerr, Harviestown Castle, showed a capital brood mare in Lady Garnet, another daughter of Baron's Pride. The male championship at Glasgow went to Mr. W. S. Park, Hatton, Bishoptom, for his Paisley champion. Royal Chattan. This colt is two years old. He was bred by Mr. John Findlay, Springhill, Baillieston, and was got by the Glasgow premium horse, Clan Chattan, out of one of a first-class race of mares. Neither the threeyear-old nor the yearling colts at Glasgow were much to boast about, but there is a marvellous gelding in this country called Perfection which is well worth looking at. He is four years o'd, and owned by Mr. Wm. Clark, Netherlee, Cathcart. His sire was Royal Gartly 9844, and, if report speak truly, he has been sold to an American millionaire firm for £250. Be that as it may, the likelihood is that he may find his way across the Atlantic unless some of our home fanciers develop pluck enough to retain him here.

Ayrshires at Glasgow made a creditable display. The leading winner was Mr. James Lawrie, West Newton, Strathaven, whose stock meet the requirements of the fancy. He has been very successful with a bull called Silver Heels, and two of the produce of this sire were first both in the older and in the three-year-old classes of cows in milk. The vessels are correct, level and tight, and the teats will do. Generally at Glasgow there was too much evidence that we have not yet got quite rid of the stupid craze for tight vessels and small, corky teats. The vessels are right enough, but the teats have nothing to do with dairy business. "SCOTLAND YET." FOUNDED 1866

# The Welwyn Plowing Match.

The first Welwyn plowing match was held on the farm of D. D. McFarlane, 12-15-30, about a mile and a half south of the post office, under the auspices of the local branch of the Territorial Grain-growers'Association, on June 27th.

Owing to the wet season, the soil was not in the best of condition, consequently the scores were somewhat lower than would otherwise have been the case. This being the first match in the district, many of the young men of the neighborhood were somewhat averse to entering, and the fearful state of the roads precluded many from a distance from putting in an appearance. One contestant, however—a well-known prizewinner—arrived about 11 o'clock, having come from Brandon with his plow the previous night.

It was originally intended to have but three classes, viz., walking plows (open to all), sulky plows for men and ditto for boys under 16 years of age, the prizes in each of which aggregated about \$20.00, the first being \$12.00, second \$6.00, and third \$2.00; but the advent of the Brandon man, Jno. Stott, caused the committee to add another first prize. The score card of the Brandon championship match was used.

In the sulky class for men there were four entries, and N. E. Jamieson was awarded first place, with 63 points; Austin Wright second, with 62 points, and Andrew Jamieson third, with 54 points. The fourth contestant, W. James, but slightly over 16 years of age, secured 50 points. With the exception of the winner, who kept it throughout, all in this class exceeded their width, the weeds consequently being frequently uncut and uncovered, and all were shy of their depth, probably owing to fear of the stickiness of the subsoil. The method of forming the crown being new to all the local men, poor work was done, but doubtless a better showing will be made next year.

In the boys' class there was only one entry, that of Harry Davis, who scored 59 points and did very fair work, making a higher score than the third-prize winner in the men's class.

The local men in the walking class made but a poor showing, their plows being quite unfitted for such work. Jno. Stott, of Brandon, with a score of 83, made the best work by far on the ground, and the contestants secured several wrinkles from him which will probably be put into practice on future occasions.

The judging was most satisfactorily done by Messrs. K. McIver and John Buck. of Virden, the latter being assisted by Mr. T. Wilde ; the committee in charge of the match being A. Draper, Jos. James and F. J. Collyer.

# Iowa College Feeding Experiment.

An experiment of more than usual interest to stockmen has lately been completed by Iowa Experiment Stations. The object of this work, as outlined by Prof. W. J. Kennedy, was to compare the relative flesh- and fat-producing power of the different stock foods which are upon the market when used with a main ration of com meal. An important feature of the test was the large number of animals made use of. No less than 220 ordinary range-bred steers were selected by Prof. Marshall and divided into eleven equa lots. In addition to their daily ration of corn meal, they were supplied with wheat straw for roughage and water and salt at will. All through this experiment, great care was exercised to insure uniformity of conditions for each lot. They were marketed in Chicago on. June 14th, and complete details of the result will be issued by the station staff in a short time. A synopsis of this report will be published in the "Farmer's Advocate " as soon as received. Meanwhile, the following table, showing the average weight, supplementary feed used, and the valuation of each as determined by a committee of expert buyers, will be interesting :

# Brandon Fair.

The directors of the Brandon Fair have spared no pains in preparing for their big show on July 29th to Aug. 1st. Cheap excursion rates on all lines of railway make it possible for all to visit the fair. The exhibit of stock promises to be good. The show of horses will be particularly strong, as Brandon is the central draft horse distribution point in the Province. The race and attractions programme is up-to-date and equal to anything previously seen at this fair. It is hoped that the flood waters of the Assiniboin will have receded so that the Experimental Farm can be visited at the time of the fair, as this is always one of the great attractions, to agriculturists especially. The binder twine works are also in operation, and will be a point of interest.

# To Get the Best Milk.

. In answer to the question, How can we secure the very best quality of milk—(a) in summer, (b) in winter ?- the New York Produce Review gives the following summary :

Every day delivery the year round,
 2. Setting a good example with absolute clean liness and contrasts in and about the createry.

3. Persistent educational work, including local meetings, views to the farms, and comprising all the suggestions given by the class in detail

 amption of the System of seering of the 's using the forment them tests and corest daily, with elemental prenations cortists a series.

\* Foot imperation no principality s

Lor.	Supplementary Feed.	Head.	Average Weight.	Price.
[]	None. Dil-meal Cottonseed meal. Huten meal Huten feed Jerm oil-meal Blood-meal. Blood-meal. Jowa Stock Food International Stock Food Standard Stock Food Dasture	19 20 22 19 19 20 20 20 20 20 20 20	1,244 lbs. 1,295 lbs. 1,292 lbs. 1,321 lbs. 1,276 lbs. 1,265 lbs. 1,253 lbs. 1,201 lbs. 1,107 lbs. 1,198 lbs. 1,240 lbs.	\$ 7 45 7 50 7 40 7 650 7 60 7 60 7 60 7 7 40 7 7 40 7 7 40 7 7 40 7 7 55

It is well to remember that the places occupled by the different lots in the above list may be by no means taken as conclusive. Animals bringing the highest price per hundredweight do not always bring the most profit to their feeder Hence, some group at present standing near the bottom may find a place much higher when all is told. p∰as.

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# THE FARMER'S ADVOCATE.

# The Necessity for a Grass Rotation.

To the Editor "Farmer's Advocate":

I am frequently having my attention drawn by discussions with other farmers to' the alteration in the land which has been under cultivation for some time, and the poor yield obtained compared with that of former years, with the exception of those crops growing on new land or fallow, and it is beginning to be recognized that some rotation including grass is a necessity if we would continue to grow remunerative crops. In all the older settlements there is a steadily increasing demand for hay at a fair price, which, apart from other benefits we should reap, is an additional incentive to lay down a portion of our land to grass. But always first would be the immediate return we should receive from the greater number of the stock which our land would maintain and the benefit to future crops. The first question always asked is, "What grass is the best?" a question rather on a par with, "What stock should I keep ?" and most easily answered by another one, or rather two, "What do you prefer ?" and, "For what purpose do you want it ?'' Personally, I have only experience with two cultivated grasses, timothy and Brome grass, and I like them both. Red-top suits this part of the country, to judge by the wild crops of it one gets, and is, if cut early enough and well saved, splendid feed for all classes of stock. Rye grass, 1 should think, is too light-rooted to have much recuperative effect on the land, but is a good grass for hay. For both hay and pasture, Brome grass will be hard to beat, as it gives a green bite both early and late, and is a heavy cropper. I have found all classes of stock very fond of it and to do well on it. Mine has been cut on what I thought the ripe side, but this winter I have heard it said that horses were apt to scour when fed on it, and as I have seen no such effect from feeding it, I think possibly that it may be better to cut it more mature than other grasses. Of the clovers, none have proved satisfactory, so far as I know, but the common white clover is hardy in this country, and should be profitable to grow with timothy to improve the pasturage, especially for

We have just had a heavy hailstorm through this district, and a piece of rape I had just sown is a good object lesson in the difference between worked-out land and fresh. Half of it was old land and has a hard-baked crust on it an inch thick in consequence of the beating of the hail, whilst the other half, the second year from sod, is as mellow as ever. I prefer seeding down with barley, though many seed with wheat. One can plow late, for barley, killing a good growth of weeds at the time; then use the weeder and sow the grass seed, following with the weeder again Brome grass is very difficult to or the roller. sow by hand. I think the best plan is to drill it on summer-fallow land, mixing about an equal bulk of oats and setting the drill to sow three bushels of oats, which will be about right, actually sowing a bushel of each. The oats make grand fall feed for stock when the pastures are bare. An ideal rotation, in my judgment, would be wheat on sod, followed by oats, then barley, with the harley hav one year. Das ture the second : then break up for wheat again But this rotation would be too short on most farms as long as wheat is king, and two crops of wheat would have to be taken to reduce the grass acreage. Where a number of stock are kept, corn might be grown also as a cleaning crop to take the place of bare fallow, sowing in drills not less than 30 inches apart (36 inches much better), and working with a scuffler between the rows. No system can be laid down to suit all farms or districts, and men will have to work out the system hest suited to their business. No one, however, can deny that some system including grass in the rotation is rapidly becoming a necessity in the older-settled districts, and an interchange of ideas through the agricultural press will be of great he'p to us in our efforts to establish a suitable one. One great trouble is the expense attached to seeding a large acreage in the purchase of the rel. This need only extend to the first crop, as all our suitable grasses will ripen their seed here. and a man can grow his own supply and have some to sell if he wishes. From what I read, I understand that if a man has a surplus of timothy seed, it can be converted into strawberry iam, with the aid of some gar and strawberry flavoring, combined with a turnip or two. I bought some jam the other day, which the foundation was sago. It is not und to the real thing, but helps to save butter an exclusive grain farm, and everyone knows that farmers have to pay more for butter than people when obliged to buy it. ARTHUR C. HAWKINS an Lake. te.-Timothy-seed strawberry jam should, ink, be placed in the same catalogue as wood hams" and "wooden nutmegs."]

# Americans Don't Expect to Excel Canada in High-class Bacon

Prof. Curtiss, in an address before an association of lowa swine bleeders recently, thus described the essentials of the class of pork now rapidly coming into demand :

The 1.800-pound bullock and the 200-pound wether have disappeared from our markets, and the over-fattened hog, with his extreme weight and waste, is no longer wanted. There are also other considerations besides the proportion of fat and lean. The tendency to push our hogs to early maturity by extreme forcing and selection for the form giving excessive abesity, has also a tendency to softer tissues and a more flabby-sided carcass than can be combined with superior quality of the finished product. Fine grain, firmness of texture and a comparatively even distribution of fat and lean are the prime essentials in high-class pork products. These are the result, first, of heredity and, second, of judicious feeding of wholesome, fiesh-forming feed products, succulent feeds, grass and abundant exercise

It is not to be expected that our country will in the near future, if ever, take rank with Denmark and Canada in the competition for the higher grades of bacon on the foreign markets, but the demand for better pork products for our home and foreign markets has already manifested itself in such a way as to command the attention of the farmer and producer. The change will undoubtedly come as a result of the modification of the type of our present popular breeds rather than through supplanting them with foreign preeds of the bacon type, although there is already a rapidly growing demand for hogs of greater activity, vitality and vigor and more prolific breeding qualities, and a firm of packers in this State has recently imported several hundred head of an English bacon type and distributed them among their customers for breeding stock

# To Dress Calves.

Calves from 3 to 6 weeks old, and weighing about 100 pounds, or, say, from 80 to 120 pounds, are the most desirable weights for shipment. The head should be cut out so as to leave the hide of the head on the skin. The legs should be cut off at the knee joint. The entrails should all be removed, excepting the kidneys; the liver, lights and heart should be taken out. Cut the carcass open from the neck through the entire length-from head to bungut. If this is done they are not so apt to sour and spoil during the hot weather. Many a fine carcass has spoiled in hot weather because of it not being cut open. Don't wash the carcass out with water but wipe out with a dry cloth. Don't ship until the animal heat is entirely our of the body, and never tie the carcass up in a bag, as this keeps the air from circulating, and makes the meat more liable to become tainted.

Mark for shipment by fastening a shipping tag to the hind leg. Calves under fifty pounds should not be shipped, and are liable to be condemned by the health officers as being unfit for food. Merchants, too, are liable to be fined, if found selling these slinks, for violation of the law. Very heavy calves, such as have been fed on buttermilk, never sell well in our market—they are neither veal nor beef.—[Chicago Trade Bulletin.

# Stomach of the Horse and Cow: A Con-

# Camera Competition.

Last year the "Farmer's Advocate" conducted a camera competition which proved decicidedly popular. The large number of amateur photographers who sent in samples of their work and the artistic excellence of the photographs indicated in a surprising degree the progress that has been made in that direction. Many of the photos were quite equal in artistic excellence and execution to the work of professionals, the subjects selected showing great variety and interest. So encouraging were the results, that we have decided to announce another competition open to amateurs, and to offer much larger prizes than we did in the competition of 1901. We now offer eight prizes, as follows: 1st, \$10; 2nd, \$7; 3rd, \$5; 4th, \$3; 5th, \$2; 6th, \$1; 7th, \$1; and 8th, \$1; for the best photographs of country homes, individual animals or groups, ranch, field or garden scenes, bits of scenery, tree plantations or individual trees grown under cultivation, or anything of that nature, subject to the subjoined rules

All photographs must be not less than  $4 \ge 5$  inches in size, mounted or unmounted, and be the work of amateurs.

All photographs must be clear and distinct in detail and well finished.

They must reach the "Farmer's Advocate" office, Winnipeg, Man., not later than October 1st, 1902.

The name of the competing photographer and post-office address, and the name and location of the scene, must be marked on the back of each photo.

Any person competing is at liberty to send more than one photograph if desired, but only one prize will be awarded to the same individual.

All the prizewinning photographs will become the property of the "Farmer's Advocate" for the purpose of illustration. We reserve the right to purchase, at 25 cents or 35 cents each, according to size, any photographs that do not win a prize.

- No photograph is eligible to competition from which an engraving has previously been made, and photographs must be the work of competitors.

# Mating for Early Lambs.

Mr. J. S. Woodward, of Niagara County, New York, who is regarded as an authority on mutton-raising, says : " Very many methods have been suggested to make the ewes accept the ram in hot weather, a very necessary thing for the winter lamb-raiser, and I think we have tried about all of them. Sometimes we have thought we had a sure method, only to find the next year that it had no merit at all. It is not natural for sheep to mate till cool weather in the fall, but there is a great difference in breeds. Take the Dorset, for instance; they have been long used for raising early lambs, and have become accustomed to breeding much earlier than any other breed. In fact, a Dorset ewe, if rightly treated, will breed at almost any time of year. But they are not plentiful enough to fill the demand for early lambaising, and we want to know how it can be brought about to induce the ordinary grade sheep of the country to breed out of season. Much depends upon the breed of the ram. A Leicester or Cotswold ram can hardly be induced to associate with a flock of ewes before cool nights in October, while a Dorset ram will follow with the ewes at all seasons, regardless of the heat. And there is no disputing the fact that the constant attention of the ram will have much influence in bringing the ewes into condition. I have no faith whatever in any system of medication further than the effect of feed upon the ewes. The largest percentage of ewes we ever had to drop lambs before New Year's was several years ago, when, during the great railroad strikes, we had a flock of ewes tied up in the stock-yards at Detroit for over a We could get nothing for them to eat but stock-yards hay-poor, wild hay-with no grain, and before we got them home they looked pretty hard. We then turned them in to good feed, put rams with them, with the result that a remarkably large proportion dropped lambs in December. Since that time I have always found that ewes that were gaining were more disposed to accept the ram, and that is the only thing upon which we place any reliance. We manage to have our ewes in such condition at the beginning of the season that by turning them in to good pasture they will begin to gain, and we also sometimes give a little extra food like wheat bran-anything to start them gaining and then see to it that the ram is of such breed that he will persistently follow the ewe.

# trast.

The difference in the size and capacity of the stomach of the horse and that of the cow is very striking. It is only when fully distended with food that an adequate idea can be obtained of the great contrast between them. In the case of the horse, the average capacity of the stomach is from 3 to  $3\frac{1}{2}$  gallons, whereas in the case of the cow it is not unusual to meet with a paunch having a capacity of from 50 to 60 gallons.

# Breeders' Meetings.

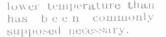
A meeting of the breeders of the Polled Angus cattle is called to meet on Thursday, July 24th, at 10 o'clock, a. m., on the grounds of the Winnipeg Industrial Exhibition, in the room above the general offices. The meeting is called to discuss matters of interest to the Angus breeders.

A meeting of Shorthorn breeders, to discuss the advisability of organizing an association in Manitoba, is called to meet in the same room at 10 o'clock on Friday morning, July 25th.

# To Dress Lambs.

Leave the hide on. Cut open the carcass from the neck to the hind legs—don't cut through the hind quarters, as the meat is apt to turn dark. The entrails should be properly cleaned out. Bladder must be removed. Leave nothing but kidneys during hot weather. Back-set the hide and draw the caul fat over the back-sets. Leave head and feet on. Lambs should not weigh less than 20 lbs. When too small they are not wanted. [Chicago Trade Bulletin.

# THE FARMER'S ADVOCATE



7. It has been claimed that cheese kept in cold-storage for any length of time will spoil quickly when exposed to an ordinary temperature. Such results were not observed in the experiments conducted, nor are they likely to occur when the cheese have been ripened for the whole period at a moderately low temperature. Further experiments are being made to settle this point.

8. A cheese put directly from the hoop into a dry box and placed in cold-storage, without any turning, ripened Τhe satisfactorily. chief defect was in the large amount of mould on the cheese. A cheese put into a box after ripening in the ordinary room for a week gave similar results. Two cheese made from the same vat of milk as

# Moisture in Butter.

In view of the recent enactment in Great Britain, that butter to be accounted genuine must not contain more than 16 per cent. of water. it has been deemed advisable by the "Canadian Department of Agriculture to ascertain the average moisture-content of Canadian creamery butter. To this end samples of butter as packed for export are being collected for analysis. Two samples, taken a week apart, are being sent to Ottawa from each creamery, the first to be held until the second is ready, and both forwarded together. A memorandum must accompany each sample, giving the following amongst other details: Name of creamery, whether gathered cream or separator system, name and address of buttermaker, date of churning, style of churn. temperature at various stages, etc. The analsis will be made by Mr. Frank T. Shutt, Chemist at the Experimental Farm, Ottawa.

# Taree-months-old Chicks Wanted.

In the report of the Dominion Experimental Farms, Mr. A. G. Gilbert, manager poultry department, says the large poultry-purchasing companies in Canada call for a three-months-old chicken, as being best suited to the wants of a certain class of customers in our home and English markets. The chicks are wanted early and in numbers. There should be no difficulty in cur farmers having such chickens by the end of July or beginning of August. A fear is expressed that a chicken of this age will not have weight, but Mr. Gilbert shows by his report that for years they have had no difficulty in that connection. Barred P. Rock, White P. Rock and White Wyandotte cockerels at three months old have averaged from 3 to  $3\frac{1}{2}$  pounds each.

# Keep Pens Clean.

At no time in the year is it more important that the poultry-house be kept clean than during the sultry days of summer. A few minutes every morning, if spent in removing the droppings and in setting things in order generally, will go a long way toward making the industry profitable. It is at this time of year that disease and vermin do the greatest injury to fowl. Of the latter, certain species are to be found only in the crevices and hiding-places of roosting apartments, from whence they crawl during the night to sap the blood of our feathered friends. To check these and other pests, the walls, ceiling, partitions, nest boxes and roosts should be sprayed or whitened with lime-wash containing crude carbolic acid. It is a good practice, also, to scatter slaked lime around the windows and under the roosts each morning after cleaning up. Nowhere during this season does cleanliness mean so much as in the poultry-house.



# LADY OF THE BOYNE 5TH (IMP.). Contributed by W. D. Flatt to the Hamilton sale on August 13th. (See Gossip, page 556.)

# Weather.

540

The texture of butter is largely influenced by the temperature at which the cream from which it is obtained is churned. The warmer the cream is at the time of churning the softer will be the resulting butter and the more difficult it will be to get it to show the necessary grain and firmness of body. In very hot weather in summer much difficulty is sometimes experienced on this score, though if proper precautions are taken there need be no trouble in getting the percentage of water reduced below the standard now decided on-viz., 16 per cent. In making butter during hot weather in summer, it is a good plan to keep the cream as cool as possible for a period of ten or twelve hours before churning is timed to commence, and with the same object in view it is a good plan to have the churning performed in the early morning, when the temperature is sensibly lower than at any other period of the day. --Farmer's Gazette.

# Experiments in Cheese Ripening.

Ripening of cheese in cold-storage compared with ripening in the ordinary curing-room, is the title of Bulletin 121, just issued by Profs. Dean, Harrison and Harcourt, Ontario Agricultural College. In this report the growing demand of the British market for a "fatter" cheese, or one with a softer body and texture, is pointed out. It is also shown that to produce the desirable quality. factories must be equipped with better ripeningrooms. Co-operation is commended, and the advantages of central or consolidated cold-storage Large Creamery for British Columbia. as any duly considered. The main part of the investigation, however, was a comparison of methods of ripening, and although the authors wish this report to be considered only as preliminary, it should be of special interest to all cheesemen.

How to Make Firm Butter in Hot the cheese put into the cheese-boxes, were placed on a shelf in the cold-storage, and the quality was similar to that put directly into a box from the hoop, and to that put into a box at the end of one week. The cheese-boxes should be well seasoned, if the cheese are not to be removed from the boxes. We would advise spraying the inside of box and soaking the scale-boards with formalin. to prevent mould.

9. Undesirable bacteria such as are found in cheese seem unable to grow at a temperature of 38° F., and consequently bad flavors in cheese, caused by bacteria, do not increase in cold-storage

10. The long life of the lactic acid bacteria in cheese seem to have an important bearing on the question of ripening, checking the development of bacteria which produce bad or undesirable flavors.

11. The temperature at which cheese will cure best is not yet settled. There are involved in the question many points which require further investigation.

A copy of this bulletin may be had by applying to the Department of Agriculture, Toronto.

# Composition of Cream.

The average composition of cream may be taken about as follows:

	Per cent
Water	. 68.82
Fat	22.66
Casein, albumen, etc	3.76
Milk sugar	4.23
$\operatorname{Ash}$ . The second	.53
Total	100.00

# Supply Water to Chicks.

During the hot days which are sure to come in the next few weeks, be sure your chicks are constantly supplied with pure fresh water. It is important that they be kept growing at this time. Lack of drink will check their progress. Filthy

# CONCLUSIONS.

1. An ice cold-storage chamber, with circulation of air, may be maintained at a temperature of about 40° without moving the ice, if the building is well insulated.

2. The high percentage of moisture, 91.6 per cent., in the cold-storage made the conditions favorable for the growth of mould ; yet the mould was no worse on the cheese in the refrigerator than on the cheese in the ordinary ripening-room. In both places the mould was kept in check by the use of a solution of formalin sprayed on the cheese with a hand spray-pump.

3. The acidity of the whey increased up to the time of salting the curd, when it decreased, and then increased again.

4. The saving of loss in weight by ripening at an average temperature of 37 Sc for the season was over 2 per cent on chose e weighing about 30 pounds each. This is a very important item in a large factory, and would alone part the cost of cold-storage for cheese in bot wouther.

5. The quality of the character of placing in the cold-storade that put in directly from a Uniformity of quality first. placed in cold-storage was the ch

6. An increased yield of cheeleast one pound of cheese per 1.000 milk may be looked for as a result of the method of manufacture and ripening

'That the farmers of British Columbia are water may bring on disease. By all means supawake to the advantages of dairy husbandry in ply plenty of water. that Province." is evi-

dent by the fact that at Chilliwack they have formed a co-operative society and have built a new creamery, the largest of its kind west of the Rockies. The building has a desirable location near the town. at which a plentiful supply of pure fresh water may be had. It the cream of 1,200 to 1.500 cows, and since come quite popular, it tained throughout the year. The butter will be sold upon the home



# MISTLETOE 21ST (IMP.).

# Contributes to M. (). Front by the Haralton sale on August 13th. (See Gossip, page 556.)

# Mustard Spraying.

(From our Ontario and Eastern edition.)

Prof. M. W. Doherty, of the Ontario Agricultural College, has lately been making a tour through Western Ontario for the purpose of demonstrating that it is possible and practical to destroy wild mustard, by spraying with copper sulphate, without injuring farm crops. On Thursday, June 12th, a representative of the "Farmer's Advocate" had the pleasure of witnessing the operation on the farm of Mr. P. H. Lawson, Westminster township. Ten pounds copper sulphate (bluestone) were placed in a sack and suspended in a large pailful of warm water to dissolve. This was accomplished in about fifteen minutes, after which the solution was placed in a barrel, to which the spray pump was attached, and the whole made up to 45 gallons, an amount sufficient for one acre.

During the afternoon only about two acres were sprayed, it being the Professor's intention to have everything in readiness for the public demonstration, as advertised, for the following day. Unfortunately, however, rain that evening pre-vented these plans from being carried out. Later, Mr. Lawson continued the spraying according to directions until a field of twelve acres had been treated. A visit to this farm on July 5th showed the mustard practically all gone ; only a few leafless stalks were to be seen, with pods half ma-These, no doubt, would have been comture. pletely killed had the spraving been done from one to two weeks earlier. The oats, in which the mustard grew quite thickly, were somewhat singed on the top leaves by the solution when spraying took place, but at our last examination -on July 5th—all signs of injury had disappeared. In an adjacent untreated field the yellow blossoms were quite thick and visible at half a mile away, but in the field treated no yellow blossoms were visible.

As a result of our close observation of this work, as well as reliable reports which have been received from other sources, we have no hesitation in recommending Prof. Doherty's method for the destruction of this most pernicious weed. A suitable spraying outfit ready to attach to a cart or wagon may be had for less than twenty dollars. The cost of copper sulphate will not exceed eighty cents per acre, and if the spraying be carefully carried out for four years, there is no doubt but that the weed will have become thin enough to be pulled by hand. The saving in moisture and plant food during that time will in itself be sufficient to pay the actual cost, and in the end the land will be greatly increased in value.

# Keeping Milk in Warm Weather.

The practice of putting in a supply of ice during the winter has in many instances solved the problem of keeping milk sweet during the summer months. However, where there is one ice house to be found on small dairy farms, we venture to assert that ten of these farms could be found where such an improvement is absent. In view of this, the perplexing problem of keeping milk during the hot weather annually presents itself. The first step in the process of preserving milk in a sweet condition is that of keeping things clean at milking. This refers not only to cleanli ness of the milker, but also to that of the uten. sils as well as surroundings at milking time. Milk when drawn from the animal is in a perfect condition for the absorption of odors from the surroundings. At this temperature many organisms when once present in milk multiply at an exceedingly rapid rate, and it is impossible, no matter how cleanly every stage of the milking may he, to prevent the entrance of some of these organisms that cause fermentation or souring. The only thing that can be done, apart from being scrupulously clean in every detail, is to cool the milk as rapidly as possible after it is drawn. This does not mean that the milk should be left in the stable, even should it be cool there, but rather that it be immediately removed to clean. fresh quarters, and there subjected to rapid coolsurrounding it with water. So much the better if it can be aerated before setting. If an ice supply is not available, ordinary spring or pump water will do exceedingly well. This is usually drawn at a tomperature of from 50 to 60 degrees, and it has been ascertained that when suddenly reduced to this temperature, organisms are of exceedingly slow growth. Not only does this check souring or fermentation. but it causes the rapid rise of butter-fat or cream. which in most cases is the object sought. In ado this, however, it is often necessary to milk sweet during a period of twentypossibly forty-eight, hours for the purilizing it as a food for calves. In view practice that we have recommended is igly good one in the absence of such hinery as the hand separator -- Home-

# THE FARMER'S ADVOCATE.

# The Law Respecting Male Animals in the N.-W. T.

This law was passed in 1897 and partially amended in May, 1900. We give its main provisions, in reply to requests from several readers. It is known as the "Entire Animals Ordinance," and copies can be had any time by applying to the Department of Agriculture at Regina

Section 3. No stahion of one year old or upwards shall be permitted to run at large in any part of the Territories at any time.

4. Except as hereinafter provided, no bull nine months old or upwards shall be permitted to run at large in any part of the Territories at any time.

(2) The minister may by proclamation in the Gazette authorize stallions and bulls to run at large in any district named in that notice between the first day of July and the thirty-first day of December in any year.

5. If there is no pound district, any person who finds a stallion or bull running at large contrary to the provisions of this ordinance may capture and confine such bull or stallion and promptly thereafter shall notify the owner thereof if known to such captor; and if such owner do not within three days after such notice take away such stallion or bull and pay the captor thereof \$5 for his trouble and 25 cents per diem for the keep of the said stallion or bull for every day it has been in his custody, such owner shall be guilty of an offence and liable on summary conviction thereof to a penalty not exceeding \$20, together with the cost of prosecution and the fees for the capturing and keep of such stallion or bull as aforesaid, which fees shall be paid over on collection to the captor.

6. When the owner of any stallion or bull captured and confined under the provisions of the last preceding section is unknown to the captor, the said captor shall within forty-eight hours after such capture post up a notice of detention in Form A in the schedule hereto in three public places in the neighborhood of the place of capture and at the same time forward a copy of the notice to the department for publication in two consecutive issues of the Official Gazette, and the owner of such stallion or bull shall be entitled to receive delivery thereof upon paying the captor \$5 for his trouble and 25 cents per diem for the keep of such animal, together with the amount of the expenses actually incurred for advertising.

(2) In addition to advertising the capture of a stallion or bull in the Official Gazette as herein provided, the captor may also cause a copy of the notice of detention to be inserted in three successive weekly issues of the newspaper published nearest to the neighborhood in which the capture was made, and any expenditure not exceeding the sum of \$1 made for such advertiser shall be reimbursed to the captor by the owner if the said stallion or bull is released by such owner or, if not so released, by the justice after the sale of such stallion or bull upon proof of such expenditure having been made.

7. If at the end of twenty days from the first publication of the notice in the said Gazette no owner be found for such stallion or bull or the payments herein provided have not been made to the captor, then upon application to a justice in Form B in the schedule hereto, verified under oath before the said justice, the said justice may, after eight days' notice posted up in three conspicuous places in the neighborhood of the place of capture (one of which shall be the post office nearest thereto) stating the time and place of sale, sell or cause the said stallion or bull to be sold by public auction, and out of the proceeds of such sale shall first pay the expenses of sale and advertising and justice's fees and then the sum of \$5 and costs of keeping to the captor and the balance to

# Farm Zoology--II.

# BY REV. W. A. BURMAN, WINNIPEG.

Having now introduced the reader to the animal world in a general way, we now proceed to consider the different classes, the habits of different animals, and their relation to the work of the farmer.

We begin with the mammals, or animals which suckle their young, and first we give a list of the classes into which they fall, both for convenience and for the purpose of illustrating the methods used by scientists to bring order out of seeming confusion. It may help to remove the impression that only the very learned can understand even the very beginnings of natural science. This is a bogey which has deterred many from attempting nature study in a simple way. For our purpose, then, we may name the following orders of mammals.

1. Beasts of prey, flesh-eaters, or Carnivora.

- 2 Insect-eaters, or Insectivora.
- 3. Bats.--Cheiroptera=having winged bands.
- 4. Gnawers, or Rodentia.
- 5. Cud-chewing animals, or Ruminantia.

Thus it will be seen that, as a rule, the first live on other animals, etc.; the second and third live on insects; the last two orders on vegetation. There are, of course, exceptions, but it is interesting to notice the general arrangement as to provision for the maintenance of so many living things. Three orders, it will be seen, must have living things upon which to live, and these, no matter what they may be, like the gnawers and cud-chewers named above, are in the last resort really dependent on the plants of the earth. Where nothing can grow nothing can long live. The plants which clothe the world in beauty are absolutely necessary to keep life upon the earth. I make this remark because it is the clue to the inseparable connection between the animal world and agriculture. Just because living things cannot exist without living plants, we are and shall ever be face to face with the problems to be discussed in these papers. And if it be true that living things cannot exist without plants, it is also true that, as at present constituted, many plants could not continue the work of reproduction and would soon become extinct without the aid of insects and other living creatures.

We thus see that there is throughout nature a beautiful law of interdependence. There is a system of compensation and a balance kept between the different forces which make up the great army of living things, which cannot be seriously interfered with without bringing disaster in its train. Sometimes human agency is responsible for this, or may help to avert it. The practical purpose of these papers is, amongst other things, to consider some of these cases.

## 1. Beasts of Prey.

They are powerful animals, move very quickly, are endowed with keen smell and sight, and have sharp, strong teeth and often very sharp claws. In the West we have the following families:

Cats.—The lynx.

2 Dogs.—Foxes, wolves.

Weasels.-Fisher, marten, ermine, skunk, badger, etc.

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(2) The justice of the peace shall immediately after the sale send to the department a description of the aninual or animals sold, the date of the sale, the amount realized and the disposition thereof.

Running at large means "without being under control of the owner either by being in direct and continuous charge of a herder, or by confinement within any building or enclosure or fence, whether the same be lawful or not."

11. In any pound district or here district established under the provisions of any ordinance of the Territories no stallion or bull shall be detained or sold in the manner provided in this ordinance, but (if captured) shall be taken by the captor to the nearest accessible pound, there to be dealt with as it is provided estrays may be dealt with.

12. The owner of any stallion or bull who, after receiving a notice signed by a justice of the peace that such stallion or bull is running at large contrary to the provisions of this ordinance and requiring such owner to capture and confine the same, neglects or refuses within forty-eight hours to comply with such notice shall be guilty of an offence and liable on summary conviction thereof before a justice of the peace to a penalty of S5 for every day after the expiration of the time mentioned in said notice the stallion or bull is at large.

# Brandon Fair Judges.

Heavy Horses J. Turner, Calgary, Light Horses J. G. Rutherford, Ottawa Cattle-J. C. Snell, London, Onf Sheep-John McQueen Catievale, Swine and Poultry S. Butterfield, Windsor, nt  Bears.—Black bear. (In far West, the grizzly.) In our next we shall give these closer study.

# Judges at the Winnipeg Industrial.

Among the judges of the different classes of poultry and live stock at the Winnipeg Industrial are:

Shorthorn Cattle - John Miller, Brougham, Ont.

Herefords, Polled Angus and Galloways Prof. Curtiss, Ames, Iowa.

Light Horses—Dr. Quinn, Brampton, Ont. Heavy Horses—A., W. Charlton, Duncrief, Ont. Dairy Breeds—Alex, Hume, Menie, Ont. Sheep—John McQueen, Carievale, Assa. Swine—Prof. J. J. Ferguson, Michigan Agriultural College.

Poultry-S. Butterfield, Windsor. Dairy-A. Smith, Strathroy, Ont.

# Hog Raising Declining in England.

The live-stock statistics of England show that there are less hogs to-day in that country than at any time since 1893. For this decline various reasons are suggested. One is that the restrictions made necessary through swine fever has made hog-raising less profitable than formerly. Again, it is said that in some districts the farm ers are giving up cheese and butter making, and selling their milk to dairy factories in the large cities, thus disposing of the skin milk and whey, which heretofore constituted a valuable part of their swine ration.

# THE FARMER'S ADVOCATE.

# Water Measurements in Irrigation.

[Address of Prof. W. H. Fairfield, at Institute meeting in Southern Alberta.]

It is with some hesitation, ladies and gentlemen, that I appear before you to talk for a short time on some questions relating to the "irrigation problem; because i know that many of you come from States, such as Utah and Idaho, in which the art of irrigation has reached such a high state of development that it commands the admiration of all familiar with it. Still, with irrigation, as with all other topics bearing on agriculture, intelligent discussion is always helpful, for it is by such agencies that the farmer makes his principal advancement.

Then, to begin with our district, What is it? Is it arid, semi-arid, or is it humid? That is, do we have enough rain each year to produce good crops? There is no one, I think, who will say that it is arid. We have, then, but the two latter conditions to consider. Are there seasons in which the rainfall is so scant that it becomes necessary to apply moisture artificially to produce crops? Certainly for the last two or three years we have not felt very keenly the want of the ditch. Are these seasons typical of the climate in general? If we are to believe what the venerable "old timers" tell us, they are not. According to them, there are many seasons in which there is so little rain that it is impossible to raise ordinary crops successfully. Some of these "old timers "-in fact, many of them-are stockmen and consequently are not pleased to see the settler come in, for their ranges disappear with the appearance of the incoming settlers, as snow before a summer rain. We are apt, therefore, to think that their advice is sometimes not altogether disinterested. Still, as it is the universal statement of all who have lived here for any length of time, we must believe that it is, on the whole, true.

In addition to this evidence, it hardly seems probable to me that so able and shrewd a financier as the president of the Irrigation Company, Mr. Galt, would inaugurate and push to a successful issue an irrigation scheme of such magnitude as this one is unless he were well assured that it was a necessity for the development of the country.

If, then, we may expect to have to irrigate in some seasons at least, it is of a great deal of importance to know how much water we will need. The subject, then, which naturally presents itself is the measurement of water. Until recently, it was universally the practice to use the inch or miner's inch as the unit of measure. An inch of water was defined somewhat differently in various States. It is sufficient for our purpose to define it as the amount of water that would pass through an orifice an inch square, the surface of the water to be kept a certain number of inches above the upper edge of the orifice. This inch as a unit of measure was very unsatisfactory for many reasons, the principal one being that it was not definite enough ; consequently, a cubic foot was adopted as the unit by the irrigation engineers. The superiority of this over the original miner's inch might be illustrated in a crude way by supposing that instead of selling wheat by the bushel the elevator men were to sell the amount of wheat that would run out of a chute of certain dimensions at so much by the hour or day. Another reason that the miner's inch was unsatisfactory was that it was extremely difficult-in fact, to all practical purposes, impossible-to arrange that the small consumer should get as much in proportion as the large one. To illustrate, the man who took his twenty inches out of an opening containing twenty square inches would get much more than twice as much as the man who drew his ten inches through an opening of ten square inches. On the other hand, by the use of the werr it is possible to measure the number of cubic feet of water passing over with considerable accuracy. Now, to go back a step, as I said, a cubic foot of water is something exact. You can weigh a cubic foot of water. If you do you will find that it would weigh sixty-two and a half pounds. If you measure it you will find that it will contain almost exactly seven and a half gallons. If your water-right calls for one cubic foot per second, you will know that you are entitled to seven and a half gallons of water every second, and in a day 618,000 gallons, or exactly 86,400 cubic feet, as there are that many seconds in twentyiour hours.

take just 43,560 seconds, or nearly 12 hours, to cover an acre one foot deep.

The amount of water necessary to give a single irrigation varies with the kind of soil and subsoil, together with its temporary condition; that is, whether it is moist or dry and whether it has been tilled shallow or deep. The more porous and open a soil is, and the more open the subsoil, the more water it is necessary to apply to get the whole area wet.

For a flood irrigation of grain, it is necessary to supply such a quantity of water as would be sufficient to cover the land at least one-half foot deep on a close, compact soil, and up to two leet and over on a loose, open soil. On our soil here, after it has once been brought under irrigation, it would probably be necessary to apply enough water to cover the land from half a foot to a foot deep. On land with suitable slope and with a careful irrigation, half a foot deap might be sufficient, but probably three-fourths of a foot or more would be nearer what would be used. On land newly broken from the sod, a greater quantity would probably be required.

To illustrate what we have been saying, we will suppose that you are entitled to one cubic foot of water, and also that your neighbor is entitled to the same amount. For convenience you change water with him. For, in applying the water to the land, it is much more economical, both in time and water, to use a stream of not less than two second feet. We will say that you begin at six o'clock in the morning. Every second, two cubic feet of water is running out of your lateral and spreading itself over your land. In twenty-four hours there are 86,400 seconds, consequently you have applied twice that number of cubic feet of water, or 172,800 cubic feet, which would be sufficient to cover about five and one-fourth acres just nine inches deep. If you changed with a third neighbor and used three second feet, which would be still better, you could count on irrigating half as much more in the twenty-four hours. I may say that a stream running about two to three second feet is probably the most convenient size, for if it is much larger, one is apt to have to build larger laterals through his grain than he cares to. As you probably know, in changing water between neighbors it is customary for each one to use water two or three days to a week each time his turn for it comes.

At the rate of one cubic foot of water for one hundred and fifty acres of land, as the law in the Northwest Territories prescribes, mixed farming must be practiced. For if one has one hundred and fifty acres in wheat, it would be positively impossible to irrigate it in the four weeks or so in which it should be irrigated. However, if the farmer had his one hundred and fifty acres so divided up in mixed crops that the first he would irrigate in the spring would be hay, then perhaps some winter wheat, then his early spring wheat, barley, oats, potatoes, etc., in whatever order they were planted or when they needed it, his second foot of water would probably be ample to irrigate his full one hundred and fifty acres.

What I have attempted to do, ladies and gentlemen, in the few remarks I have made is to clear up, if even to a very small extent, some of the hazy ideas which are prevalent even among experienced irrigators, as to the amount of land one cubic foot of water per second will irrigate. I only trust that I have been at least partially successful.

# Sheep-Worrying in Britain.

Sheep-worrying by stray dogs is a cause of great loss to flockmasters, and there is singular remissness in formulating schemes for a remedy.

FOUNDED 1866

# Ottawa Notes. About potato exhibits.

Most agricultural associations provide a set of prizes for potatoes, field roots and grain. In the section for potatoes, prizes are given, in most cases, for separate varieties. This arrangement tends to encourage exhibitors to grow those varieties that the managing committee saw fit to put on the list-a very proper method, provided that the committee look well into the question of varieties and admit only those that are best suited to the district or county where the exhibition is held. But many of the best varieties do not come to stay. Some of them become "run out " within a year after they have become sufficiently well known in a district to deserve a place on the prize list, and on this account it is not always advisable to stipulate the name of varieties. Again, it is quite well known that there are many more names for potatoes than there are varieties. It is much easier for "would-be" seedsmen to invent new names for an old sort than to breed up a new variety. They must have something new to offer each year. To be able to discriminate between varieties of the same type is another problem with which judges are asked to cope when prizes are offered for named varieties. Potato-growers know that there are few judges such "rare birds" as to be able to distinguish Early Rose potatoes from many other varieties of the "Rose type," or the Empire State variety from others of the "Long White type." It might be added, too, that the conscience of potato exhibitors would need to be rather sensitive if they did not take advantage of the judge's inability to "guess right." Potatoes are, practically, all grown for the same purpose. All the varieties can be grouped into several quite distinct and recognized types, which really form the basis of classification for commercial purposes. Why, then, would it not be better to offer a less number but much larger premiums and encourage the introduction and growing of any variety, allowing varieties of the same type to compete one against another? This classification of potatoes has already been adopted by quite a number of agricultural associations, and seems to be meeting with a great deal of approval among potato-growers.

# SHEAF AS WELL AS GRAIN.

At the approaching Ottawa Fair, in the section for seed grain, provision has been made so that each half bushel of seed will be accompanied with a small sheai, showing the full lenght of straw with heads of grain. It is always difficult to judge the real merits of seed or of a variety from the grain alone. A good sample of grain may often be prepared from a crop which has been taken from a field that would not yield more than five bushels to the acre. The size of the heads of grain and the nature and quality of the straw will be considered in awarding the prizes.

# CHICKEN FATTENING.

Mr. F. C. Hare, of the Department of Agriculture, is preparing a bulletin of the rearing, fattening and marketing of chickens. Mr. Hare, after visiting the poultry fattening station at Homesville, Ont., reports the work progressing favorably. He states that farmers who have reared chickens up to two or threa pounds of weight at this time of the year will find it to their advantage to place them in the fattening crates recommended by the Department, for three or four weeks before they are placed on the market. Satisfactory results can be obtained in fattening chickens by taking a packing box about twenty inches high and sixteen inches wide and removing the bottom and one side of the box, and by placing laths lengthwise on the bottom of the box, 14 inches apart. It should also have laths placed up and down the front of the box, two inches apart. The boards on the top of the box should be loosened so that the chickens can be removed from it. Mr. Hare states that the chickens should be fed a thin mash of principally ground oats and sour skim milk. They do not receive any exercise and they will gain rapidly in the crates. Mr. Hare is of the opinion that there will be a good demand for dead fatted chickens this fall, and that prices will be higher than they were last fall. A large firm in Montreal has written to the Department making enquiries for a large consignment.

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Then by availing ourselves of some of the information furnished by the extensive irrigation investigations which are being carried out by the United States Department of Agriculture at the present time, we can form a very satisfactory estimate of the amount of water necessary to give a single irrigation. Then by having the amount of water expressed thus, in cubic feet per second, it is a mere problem in arithmetic to decide how large a water-right you will need.

The term "acre foot" is used to express the amount of water necessary to cover an acre one foot deep. As there are 43,560 square feet in an acre, it takes just that number of cubic feet of water to make an acre foot. Qr. another way of partiag it if your water-right should call for one second toot it would The Bill of 1900 embodied some excellent clauses, but since it went the way of the innocents nothing further has been done to end the evil. Local authorities have far too little authority in a matter of this kind. They should have power to seize and lock up stray dogs, and it should be declared legal to shoot at sight dogs found chasing sheep. At present the law in England seems to be that a dog cannot be shot except to save the life of a sheep. If he has already claimed his victim there is no further penalty for him. He must not only be caught in the act, but he must be found so worrying the sheep as to cause its death. There should be no exemptions from hconse, and every dog should carry a collar bearing his owner's name -Scottish Farmer.

# Sheep Destroy Weeds.

" Of the 600 weeds and grasses growing in the Northwest," writes Prof. Thos. Shaw, "it is estimated by those that have made a study of it. that sheep will eat 576 of them, while horses consume but 82 and cattle only 56. The fact is, sheep prefer many kinds of weeds to grasses, and weedy fields and horse pastures are improved by turning a small flock of sheep into them. When sheep devour the weeds they do not charge any. thing for the work. On the other hand, they pay the farmer for the privilege of pulling the weeds. They turn the weeds into mutton, fresh, juicy and crisp. A sheep's stomach is the most perfect receptacle that was ever made for weeds. It is sure death to every form of weed life. No weed seeds retain the power of resurrection after having been buried in that living sepatcher, the stomach of a sheep.

# Strawberries a Luxury.

The season for strawberries is now over. Those who have had a small patch in the garden have enjoyed them : others who have not, surely learned to appreciate this luscious and healthful fruit more fully. They are a real luxury on any table. Some farmers fear to put down a few plants lest the work of caring for them would be too great. It's a mistake; a little labor well directed in cultivating strawberries cannot be better expended. They require a rich, somewhat moist soil, with good drainage. Spring is the best time to plant, but if that season is to be an unusually busy one. August planting may give good results. Enough plants for a farm garden may be purchased for a trifle. The principal attention required is in providing a good mulch of straw or coarse manure in winter, and occasional cultivation in summer to keep down weeds and conserve moisture. No farmer can afford to neglect the planting and care of a small patch of at the wberries

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# THE FARMER'S ADVOCATE.

# The Wide, Wide West.

Probably no Canadian has any adequate conception of the meaning of the word Canada until he has looked on the gioomy Atlantic as it breaks on Cape Breton's rocky headlands, then travelling night and day for many days, finds himself on Victoria Harbor, staring, wide-eyed, at the fitful Pacific, variable in mood as any maid.

It is hard to conceive a nobler heritage than ours. As day after day one journeys from the east, westward ever, one cannot refrain from musing on the immense possibilities that are for us. And what a nucleus for a mighty nation exists already within our borders ! From the brainy Bluenose home by the sea, through the country of the peaceful, industrious habitant, past the portals of old Untario with its million sturdy yeoman, on and on for days through New Ontario with its hardy home-hewers of every race, till at last the prairie is reached. Then a region richer in possibilities than all traversed lies beyond. For a thousand mines to the west extends the rolling prairie till lost in the foothills of the Rockies, and for many miles to the south and for many miles to the north extends the prairie till the inite mind palls in the effort to picture the boundless plains. In one little corner a lot of lusty men have made their home and called it Manitoba, but beyond, to the westward and to the northward, are many million acres with settlers here and there, men drawn from nearly every clime to find in Canada a home and a freedom not known before. Beyond the plains rise the mountains-the Rockies, the Selkirks and the Gold Range-with fertile valleys between. Among the peaks and in the roomy valleys, and by the many lakes, and along the rushing rivers, and upon the fertile deita lands, and within the tidy islands, dwell the men from many nations who have made British Columbia what it is. Then who shall say that with such a people, with such a country for a home, such an air for inspiration, Canada is not destined to a premier place in America, in the world.

When nature smooths the plain with such mighty sweep or piles the hills with such reckless hand, the voyager is tempted often to neglect the careful consideration of the particular in a too rapt contemplation of the beauty and magnificence of the general. Such might seem to have been the writer's weakness, but habit is a powerful factor in all one does, or thinks, or says, and so, while subconsciously the above thoughts pass, the active every-day mind is occupied with the agricultural points of the country traversed.

The exceptionally early spring which delighted the heart of the eastern farmer in April and the first few days of May, did not seem to have extended west of Ontario. The fields wore a sullen, sodden look, with scarce a green blade showing when on the 9th of May Manitoba was crossed. Many fields wore scarred fares-marks of the littleavailing efforts at spring stubble firing. Eastern Assiniboia was much like Manitoba, but the further westward, the more advanced seemed the season, till, Calgary reached, a pleasing greenness covered all the land.

At Calgary, as your readers know, there was held a quite successful sale of pure-bred breeding cattle, and thither had come ranchers from all the great ranching land, the possibilities of which as a beef-producing area are even yet but imperfectly known. Your true rancher is a "husky, freedom-loving chap, quite well able to look after his own interests, be they material or moral. He The whole ranch had an air of efficient and contempt for "the man sublime behind the plow," whose calling seems to have few attractions for the genuine "cowboy." Many however, especially among the smaller operators, are finding it necessary and profitable to cultivate some parts of their claims, and, without doubt, many more must shortly follow. Certain areas must always be the ranchers' exclusive domain, but their extent, while really immense, constitutes, comparatively, but a small part of the hundreds of millions of acres of prairie land. Near Calgary are several large ranches. Some of these the writer was privileged to visit. About twelve miles to the west of Calgary, and north of the Bow River, lie two or three famous horse ranches. The one of particular interest just at present is the Rawlinson. It will be remembered that from this ranch, about a year ago, I think, R. Beith, M. P., brought the now famous Robin Adair. Mr. Rawlinson was able to show us a number of Robin's get of various ages, some of them of decided merit. Mr. Rawlinson is this year importing several more stailions, and it is to be hoped he does as well with this last importation as with the earlier. Access the Bow from Rawlinson's lies the Mc-Naughton Shorthorn ranch. This is probably as well situated a ranch as may be found in the disfrict. It includes part of the Bow river-bottom. where the buildings stand and where some irrigation operations are carried on. A hundred feet or so higher than this bottom land lies a broad plateact of rich soil, fairly well protected from the " hile high above this terrace, and reached Wing by winding ways, lies the summer range. The dry ...... a good enough lot, a hundred in num-her was grazing "between highland and low-

land," and made a very pleasing sight. On the plateau fed the new mothers with their blocky offspring at foot. In the corral, on the bottom land, were the young sale bulls and the stud bulls. The former were a very good lot, and had just been sold to "The Cochrane." The stock bulls, while not in high condition, are of good conformation and good blood, and, judging by the get, 'nick'' well with the "she stock." This is

probably the largest herd of registered cattle in the West, but may scarcely be said to be the best, as the aim is to produce range bulls rather than animals fit to use in pure-bred herds. The existence of such a herd, as well as the various Western-bred animals of real merit sold at Calgary, demonstrates quite clearly the possibility of producing high-class stock right where it is needed for the range-a good thing for the small holder, and he is waking to the fact. Some other ranches were visited, but space will not permit remarks, since British Columbia, so seldom spoken of as a farming country, claims notice here.

Much of British Columbia is, for various reasons, really not very good farm land. The altitude is frequently an objection when grain farming is contemplated; besides this, the slope on many sections is decidedly bad. There are districts, however, where extensive ranches are operated, and other sections where grain-farming is carried on. Probably the most beautiful and one of the most fertile of these districts is the Okanagan country. Sicamous Junction the place to leave the main C. P. R. line to reach this land of plonty, and a most beautiful trip it is from the main line to the end of the Okanagan Lake. Ranching, mixed farming, grain-farming, orcharding, hop-growing, potatogrowing-and this great valleys suits them all.

The grain and potato farmers are tiring, as the land is becoming exhausted, and a creamery is being built at Armstrong. At meetings held in the Valley a strong feeling in favor of dairying was evident, and the Institute lecturers were plied with pertinent questions. These men are starting along right lines and they are bound to succeed.

Dairying in British Columbia is a peculiarly favored industry, for, where it is possible of pursuit, grass being plentiful and the pasture season long, the expense is low and butter prices are high. Creameries have, generally speaking, been a great success, and the dairying industry is capable of tremendous expansion because the market is good and practically unlimited and the industry is in its infancy. But, while dairy farming is coming in and replacing grain and potato farming, the ranching business is likely to continue, not only in the Okanagan but in many other parts of the Province, on account of the peculiar climate and geological formation.

The Coldstream Ranch, the property of Lord Aberdeen, lies three or four miles from Vernon, and on Victoria Day a most pleasant and instructive morning was spent in the company of J. B. Anderson, Deputy Minister of Agriculture for the Province, and Mr. Ricardo, the energetic and keen manager of the estate. The hopyards, over one hundred acres in extent, were doing well, and the potato fields, which include about one hundred acres, were just being planted. The strawberry garden of several acres in extent was offering well, and the cherries would, apparently, need many boxes at harvest time. Under orchard there is an area of 160 acres, and on many of the larger trees a good "set" of fruit was in evidence. capable management. Ranching operations on a big scale are carried on in various districts. The basin of the Thompson River is one of the districts most suitable for ranching, and many large ranches occupy the bottom lands and the adjoining grass-covered hills and valleys. Near Kamloops is located one of the largest, the Harper. A drive of twelve miles over an easy trail brings one to the comfortable buildings in the midst of the cultivated lands. Irrigation is necessary at this point, as it is in many other parts of the Province, but alfalfa grows most luxuriantly here and rarely needs to be watered. It was nearly ready for the first cutting about the end of May. The potato crop and root crops were starting out well. In this valley, as in the Okanagan, potatoes are a staple crop wherever water is available. Large returns are harvested. The yields vary from six to thirty tons per acre, according as one's informant is a newcomer or an old-time settler: the older the settler the larger the crops. No nativeborn rancher was met, however, so possibly the crops mentioned above are considerably underestimated. Apologies to the Province are in order if such be the case. The cattle were all out on the range, so we were not so fortunate as to be able to inspect them. This ranch is one of those which last winter brought in stockers from Eastern Canada The manager spoke highly of the Eastern stuff, and evidently contemplates going back for more. Feed for winter, as suggested above, is most easily secured in large quantities and of superior quality. The quantity and quality of the hay that may be grown per acre on the irrigated lands is most remarkable. At Vancouver the writer what perfect plowing should be.

examined some 450 tons of irrigation-land timothy hay for export to the British Government War Department in South Africa, and he had never seen timothy hay to equal it in any other part of the world. It was perfect in color, flavor and texture, and was entirely free from dust or other foreign substance. This was the first hay shipment to South Africa from the West, and should surely bring further orders.

There are some parts of British Columbia where irrigation is not necessary. Notable among these is the Fraser bottom below Yale. Agassiz is situated in this section. A most profitable day can be spent at the Experimental Farm, opposite the station, by any one interested in farming or orcharding, or by any lover of the beautiful. The Superintendent, Mr. Sharpe, is of a most genial personality and most enthusiastic where the agricultural possibilities of the country are concerned. This part of the Province is well suited for dairy farming, and creameries flourish.

Taken as a whole, the resources of the Province are marvellous, and are being developed as rapidly as is advisable in a country where each district has a climate of its own, entirely different from that of any other section and requiring careful local experiment and study.

The return eastern trip was made in June. and truly a most marvellous transformation had occurred in all the great plain. Where bleak, brown slopes had been in May, we rativies rich in knee-deep grass. Where the new-sown fields and half-burnt stubble had hurt the eye, young grain waved thick, a timely, welcome dress to mother earth in her nakedness. The West is nothing if not energetic. Even nature there does things with a rush. It is evident that if Eastern Canadians wish to retain their commercial and agricultural pre-eminence they must decide soon and resolutely on more strenuous efforts toward improvement.

J. H. GRISDALE.

# The Bird's Hill Plowing Match.

The second annual plowing match under the auspices of the Bird's Hill Farmers' Institute was held on July 8th, on the farm of Wm. McKinley. about a mile from the village of Bird's Hill.

The day was perfect and the field selected admtrably suited for the purpose. The young ladies of the district provided a sumptuous dinner at midday and light refreshments during the afternoon, for which a small charge was made, the proceeds going to aid the Union Sunday School.

There were five classes and fourteen contestants in all. Not as many as the previous year, owing, doubtless, to the work on most farms being rather backward on account of the wet weather in June. This year the prizes were mostly in cash, and very generous. For the walking plows, the field had a slight roll about half way down the furrow, which at the start bothered some of those used to plowing on flat land. The soil, too, was lighter than most of the contestants were accustomed to. A large concourse of people gathered in the afternoon to witness the conclusion of the match, among whom were a number from Winnipeg. The judges were Messrs. Hutchings and Richardson. But one boy entered in the class for boys 16 and under, D. Patterson, who did a very creditable job on a rather poor land. In the class for boys 20 and under there were three entries-Frank Patterson, Jack Hoddenott, and J. Rice. These boys did very fair work, although it lacked the care and finish one looks for at a plowing competition. They were ranked in the order named. In the men's (under 40) class there were four ontries and interest deeply centered in this contest. The competitors were W. J. Smith, Henry Smith, J. A. Henderson, and Frank Grieves. They won out in the order named, the first three doing particularly good work, all of them opening with too high crowns and none made perfect finishes. Samuel Mizen and Wm. Knight were the only competitors in the men's (over 40) class, and were ranked in the order named. The judges assumed a practically impossible task when they undertook to decide between two gangs, a sulky and a disk. and in order to catch their train they jumped their decisions without waiting to see the finishes, placing the awards as follows: S. N. Henderson, gang. first ; D. B. Gunn, gang. second; Wilson. double-disk, third; and J. Beatie, sulky, fourth. It is to be hoped that "at future matches separate classes will be provided for the different styles of plows, so that justice may be done to the work of each. The classification in general could, we think, be improved by having separate classes for 12- and 14-inch walking plows, and also for gangs, sulkies and disks. No division might be made in the men's class by ages, but instead one open class could be arranges, and one for those who had not previously won a first prize at any plowing match.

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The educational feature of this match, both for the public and the contestants, was almost entirely lost on account of score cards not being used in making the awards. With the score card, the plowman can learn the points wherein his work is considered weak, and the public, too, are assisted in forming an intelligent opinion as to

# THE FARMER'S ADVOCATE

# OUESTIONS AND ANSWERS.

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Ist. -Questions asked by bona-fide subscribers to the "Farmer's Advocate" are answered in this department free. 2nd. - Our purpose is to give help in real difficulties; there fore, we reserve the right to discard enquiries not of general in terest, or which appear to be asked out of mere curiosity.

terest, or which appear to be asked out of mere curiosity, 3rd.—Questions should be clearly stated and plainly written, on one side of the paper only, and must be accompanied by the full name and address of the writer, as a guarantee of good faith, though the name is not necessarily for publication.

*Ath.*—In veterinary questions, the symptoms especially must be fully and clearly stated, otherwise satisfactory replies cannot be given.

# Veterinary.

# PARTIAL DISLOCATION OF THE PATFLYA.

I have a young stallion, four years old, that has been standing service for the past season. He is a little weak in the stifle joints, yet his weakness does not seem to bother him only when he stands over in the stall, when he drags his legs and trails his toe, bringing the foot up with a ierk or quick movement. He has been this way for over a year and has not improved auy. He has not been driven very much, but is permitted to run out of his stall. He is growing fast. Will he grow out of it? What remedy would you advise? Is blistering any good? Is the ailment in the joint, bones or tendons?

# CONSTANT READER.

Ans.-This affection is not infrequently seen in young horses. It occurs from a relaxed or partially ruptured condition of the internal lateral ligament of the stifle, or knee-joint, which permits the patella (knee-cap) to slip in and out of its place. With regard to your horse, the case has evidently become somewhat chronic, and in consequence the usual remedies may not prove effectual or satisfactory. Give morning and evening, in food or water, for ten days : salicylate of soda, two drams. Apply by smart friction with the hand, over the whole surface of the joint. for at least ten minutes the following blister: cantharides pulverized, four drams; biniodide of mercury, two drams; vaseline, four ounces; mix. After forty-eight hours, wash off and apply vaseline to the blistered surface. Repeat in three weeks. The horse should be turned loose in a roomy, well ventilated and lighted box stall, bedded with sawdust if possible. It is not advisable to apply blisters in very hot weather.

## UNBILICAL HERNIA.

We have a young pig (barrow) that has a lad rupture at the navel. Would you kindly advise us the best method of curing this rupture? The swelling is about the size of a cup, and can be reduced, but always comes down again. Brandon, Man. K. BROS.

Ans.—Give no food for sixteen hours. Place the animal on its back and return the contents of the sac. Gather the skin up closely to the walls of the abdomen and compress the tissues, with a proviously-prepared wooden clamp. or "clam," sufficiently tight to stop the circulation of blood, but not tight enough to cause too rapid sloughing.

# WHITE SCOURS IN CALE.

I have a valuable calf, two months old, which sucks its dam. The calf scours all the time. The discharge looks white, like milk. The calf is kept shut up. The dam is out on an o'd pasture field. L, G.

Ans.—Your calf is suffering from what is commonly called white scours. Give the calf 2 ozs. linseed oil mixed with the same amount of lime-

# TETANUS AND ARTHRITIS.

I had a mare foal on June 17th. Everything went well till June 23rd, when the foal was found lying stretched out stiff, with its head thrown back as far as possible, his neck so stiff that in trying to lift it you could raise the whole body. It died at night.

I had another foal that was never able to get up. Could walk a little when raised. Joints in legs swelled. Lived three weeks. H. F. R.

Ans.—I think there is no doubt that your first-mentioned foal died of tetanus (lockjaw), The symptoms you describe strongly suggest that disease. The cause was probably that the germ got entrance through the navel opening of the little animal. Numerous instances of the kind are on record.

The last-mentioned foal, being always weakly, succumbed to an attack of inflammation of the joints, which a strong foal might have shaken off. The fact of those foals being sired by a Clydesdale stallion had nothing to do with their death.

# INDIGESTION IN YOUNG PIGS.

I have five pigs, seven or eight weeks old, which will suddenly stop eating and knuckle down behind the shoulders as if in pain. Have been fed on chopped peas and barley, with a little bran and milk and clover. Have also another pig, three months old, which has a whitish spot on lower side of eye. W. E. L.

Ans.—Your pigs are suffering from digestive trouble, caused by feeding too much heavy meal before the stomach was strong enough to digest it. Give each pig one ounce of raw linseed or castor oil. Turn them out where they can root in the ground, and give a teaspoonful of powdered gentian in their food morning and evening. Give no chop stronger than oats for a few weeks.

Your other pig is probably suffering from a scum over the eye caused by an injury, which will probably come all right in time. Possibly it is a cataract, in which case treatment would be useless, and blindness will result.

# SCROTAL HERNIA IN FOAL.

I have a colt, six weeks old, that appears to be ruptured in scrotum. I can displace the enlargement and it will stay for a time, but will come down again. J. B. L.

Ans.-Your colt is suffering from scrotal hernia. The chances are that no treatment will be necessary, as the great majority of such cases come all right during the first year of growth. Occasionally, however, when the rupture is very large, a loop of the bowel becomes strangulated or checked in the sac so that the contents of the bowel cannot pass through, when the little animal will show colicky pains. In that case, hold the patient down on his back and endeavor to press the intestine back into the abdomen. In such a case an operation might be necessary, and you would need to consult a competent vet. However, the chances are 50 to 1 in favor of your colt coming all right without any treatment.

## CHORFA.

I have a two-year-old Clydesdale gelding that was badly bogged on the legs, but that has almost disappeared. When standing in the stable or in the fields, he jerks his legs somewhat like stringhalt, but can walk or trot all right. T B

Ans.—Your colt is evidently suffering from some form of chorea. This disease usually occurs in unthrifty animals, but any animal may become affected. Get  $1\frac{1}{2}$  ounces of sulphate of iron and 1 dram of arsenous acid. Mix into one dozen powders, being careful to have the arsenic thoroughly and evenly mixed, and give one powder morning and evening in his food. After he has had a dozen powders, let him go one week without treatment, and then repeat with another dozen powders. This disease is often most unsatisfactory to treat. moderate tariff Potatoes—65Tomatoes—9Peaches—3,5Churches—32,0Grapes—575,Green apples Eggs—638,33 FOUNDED 1866

grain, especially rye or barley, and sometimes found on grass, especially on low lands. I could not offer an opinion as to what caused it in this case.

# INFLAMMATION OF WOMB (METRITIS).

I had a mare which foaled on the 3rd of June. Had been slightly stiff with swelling in joints for about three weeks. The third day after foaling, her milk seemed to dry up; and got quite stiff, with spells of trembling: temperature and pulse rising; appetite gone; breathing hard and quite uneasy, standing with fore feet well under the body, and finally died. F. H.

Ans.—There is little doubt your mare died from inflammation of womb. I think, however, that there was also a complication of parturient laminitis (founder). Treatment for metritis consists of syringing out the womb with bichloride of mercury and water, in the proportion of 1 to 1,000; an application of mustard to the løins, and then covered with heavy cloths rung out of hot water. See that the bowels are kept moving freely, and drench with stimulants, such as nitrous  $_{\oplus}$ ether, 2 ozs., or about  $\frac{1}{2}$  pint whiskey. Treatment for lamanitis: Purge with 1 ounce aloes. Give 1-dram doses of nitrate of potash three times daily for two or three days, and keep the feet soaked in hot-water cloths.

# Miscellaneous. REGISTRATION OF JERSEYS.

Could you give me the name and address of the secretary of the A. J. C. C.; also cost of registry in said book? S. J. P.

Ans.-J. J. Hemingway, 8 W. 17th St., New York. To non-members, \$2 each head, male or female; to members, \$1. All animals over two years old, double fee. For registration of dead animals necessary to complete the registration, \$1. Imported animals, \$10. Transfers are recorded free, if presented within 90 days of date of delivery; after 90 days, \$1 each. Blank forms for registry and transfer are supplied free.

# FARM GOSSIP.

# Don't Forget the Wecds.

When the hurry of harvest is on, don't forget that the weeds may be quietly growing in the garden. If any be allowed to seed, a large amount of the labor expended in keeping them down during early summer will be lost. Only a little time may be required to run through the beds and pull up the stray intruders. They are nearly sure to be there. Do not allow them to seed on any account.

# Importing Canadian Products.

The following table, compiled from Canadian Government reports, shows the quantity and value of a few products imported into Canada from the United States during the ten months ending April, 1902. These imports are those affecting mainly gardeners and fruit-growers. Canada has a competitive free list of about \$39,000,000 worth of farm products coming from the U.S., and a long list of manufactures under moderate tariff.

Potatoes-65,092 bush., valued at.....\$ 71,102

water. Then give a powder, morning and evening, composed of catechu,  $\frac{1}{2}$  dram, and powdered chalk, 2 drams, till you see an improvement. If possible, change the food of the dam and let her have  $\frac{1}{2}$  gallon of limewater every night and morning.

## RHFUMATISM.

I have a cow which for the last few weeks is very stiff when walking. Is better at night than in the morning; getting thin in flesh. I have been giving her some aconite. J. W. M.

Ans.—Your cow is no doubt suffering from rheumatism. This disease is usually caused by cold and damp, but sometimes specific infection. Keep her perfectly quiet and in confortable quarters. Apply hot fomentations, or flannels wrung out of hot water, to the parts.. Give a dram each of bicarbonate of soda and nitrate of potash in her drinking water morning and evening. If the joints are involved, sometimes it is necessary to blister.

## ERVSIPELAS.

On Thursday morning a four year-old horse received wound on hip by backing down on a harrow tooth ; wound about two inches deep. I got a vet, to dress the wound, who considered it not at all serious. Friday, horse a little stuff : Saturday, leg swollen : Sunday, swelling worse and sheath involved. Horse died Sunday mght. J. R.  $^{+}$ 

Ans.—In my opinion, indexide from symptoms described, your horse died from erusipelas. This disease often follows very tuiling wounds cometimes a mere scratch in the shull through which the germ gains an entrance. Assuming that the trouble was erysipelas, I think cour votermary adviser did about all that could have been clone.

# BURSAL ENLARGEMENT ON COLT'S KNEF.

Have a sucking colt that four days after birth had a soft swelling come on its front leg right below the knee and to one side, about 3 inches long, 2 inches wide. Colt not lame ; plays and runs all right.

Ans.—Your foal is suffering from an enlarged bursa of the knee joint, or probably where the tendon plays over the joint. In a strong, vigorous young animal, like your foal appears to be, the lump is frequently absorbed without any treatment. If it does not disappear in the course of a few weeks, apply the following bluster lightly once a day, being careful not to make the parts raw or sore : Two drams each biniodide of mercury and iodide of potassium, and mix with 8 ounces of water.

# PREMATURE PARTURITION IN SCW.

I have a young sow which pixed sixteen  $d_{dys}$ s before her time. Pigs either boun dead or died shortly after birth. Sow fed on turnps and clover.

Ans. - Promature birth is lister to occur as at animals usually the result of anire of seakind. Sometimes follows an of tack of active of gestion, and occasionally is produced by it is of ergotized food, such as the sum

## \$487,143

# Burdock Killing and the Moon.

In the "Farmer's Advocate" of June 20th 1 notice a few lines from Mr. John B. Stone re killing burdocks. Mr. Stone is quite right in his method of culting the burdock, but in error as to time. If a burdock's root is hollow in the full moon in June it will not become solid in the dark of the moon intervening between that time and the full moon of the succeeding month and then become hollow again, but will remain hollow after once becoming so. Burdocks cut as he describes will be killed at any time from the time they start to grow in the spring.

W. A. GRANT.

# Fair Dates.

Wonnipeg Indel 4	al July 21 to	2.5
Dauphus	July 29 and	30
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# THE FARMER'S ADVOCATE

# Edmonton Fair.

The annual fair at Edmonton, Alberta, held this year July 1st, 2nd and 3rd, may be set down as a real success, the weather being fine throughout and the attendance large. Coming so early in the season, the show of vegetables was, of course, limited, but the live-stock departments of the show were well filled in most classes, the cattle, sheep and swine being the strongest features, and these were undoubtedly the best representation ever seen together at a Northern Alberta fair. Coming at a season when farmers could spare time to attend, without neglect of pressing home duties, they turned out in large numbers and enjoyed the holiday thoroughly, while profiting by the object lessons brought before them in the various live stock, poultry, dairy, domestic manufactures and other classes, besides the excellent programme of athletic sports, which feature was well planned and carried out. The judges in the live-stock departments were J. H. Reed, V. S., of the Ontario Agricultural College, Guelph, on horses, and Duncan Anderson, ~ Rugby, Ont., on cattle, sheep and hogs. At a banquet, held in the evening of one of the days of the fair, bright, cheerful and encouraging speeches were made by a number of the officers, directors, exhibitors and visitors, among whom were Messrs. P. Talbot, M. P. P.; Frank Oliver, M. P.; O. Palmer, G. Bennie, W. R. Stewart (president of the Territorial Horse Breeders' Association), l'aisley, Garnepy, Mercer, McLaughlin, President Gallagher, McPherson, Tough, Brox, Mc-Cauley, the judges (Dr. Reed and Mr. Anderson), Mayor Short, and F. F. Tims, secretary of the Asso-

The horses on exhibition were not numerous, but the quality was good. There was a noticeable lack of numbers in the stallion classes. In aged Clydesdales, Mr. Andrew P. Loughlin, of Strathcona, exhibited a fine animal in "Logan" 2249, by Wigton Lad, out of Rosie O, by Corporal Logan 2nd, dam Lady McGregor, by McGregor, etc. This is a compact, bay horse, with white hind legs and face. He is a stylish fellow, with grand bone and feather, and good style and action. He is rather on the small order, weighing about 1,850 lbs., but this fact makes him the more suitable for a sire in his own locality, as many of the mares are not large.

In the class for nonregistered draft horses, there were some good exhibits. The Brackman & Ker Mining Co., of Strathcona, and Mr. R. H.<sup>6</sup> Davidson, of Edmonton, each showing a good team. The brood mares with foals by side were a good lot, as were also the youngsters of all ages. The general purpose class was well represented in all sections. In this class there were two very fine teams, one pair of bays very well matched, with some Clydes date blood, and a pair very well matter to decide between these teams, but the bays owned by Albert Kuhl, of Spruce Grove, was awarded first, and the second place went to the greys owned by F. Dowling, of Edmonton.

In the carriage class the numbers were very small and the quality hardly up to the standard looked for in that class nowadays. Mr. A. P. Laughlin exhibited a very nice team, but more of the road than carriage pattern. Dr. Braithwait, of Edmonton, showed a fine, big, clever bay horse that can move along quite fast, but lacks the action looked for in a carriage horm.

In the Standard-brod or roadster class, some animals of excellent merit were exhibited. In the class for stallions two years old, Mr. W. R. Stewart, of Macleod, showed an excellent animal, one that will probably be heard from as a turf performer, in Jack Stewart, by Hiand, by Leland, by Hambletonian 10; Ist dam Miss Confusion, by Confusion; 2nd dam by Dorsey's Gold Dust, etc. In the class for two-yearold fillies, the same exhibitor had a very fine entry in the chestnut filly, "Dora Kirk," by Bob Kirk, by Wildmont, by Egmont; 1st dam Miss Franklin, by Combination; 2nd dam Fanny, by St. Joe, etc.; and Thos. Jackson, of Clover Bar, had a nice filly for second place.

lin, Strathcona. Single Carriage Horse-1st, Dr. A. E. Braithwaite, Edmonton.

ROADSTERS.-Stallion. 2 years old-1st, W. R. Stewart, Macleod. Filly, 2 years old-1st, W. R. Stewart; 2nd, Thos. Jackson, Clover Bar. Team-1st, W. R. Stewart; 2nd, Jno. Lubbock, Edmonton. Single Horse-1st, W. R. Stewart; 2nd, R. J. Mason, Edmonton.

SADDLE HORSES.—Saidle Horse, 15 hands and over—1st, D. R. Stewart, Edmonton. Pony under saddle—1st, Geo. Hutton, Edmonton. Gentleman's Saddle Horse—1st, Dr. G. H. Acres, Edmonton; 2nd, D. R. Stewart, Edmonton.

The greatest need of the horse breeders appears to be the scarcity of good stallions. The writer expected to have the opportunity of looking over the horses at Calgary and some other exhibitions, but the weather in most sections has been so wet that many of the exhibitions were postponed until September.

## CATTLE.

 $\operatorname{SHORTHORNS}$  were the strongest class, and were represented by selections from the herds of Messrs. P. Talbot, M. L. A., Lacombe; G. & W. Bennie, Castleavery, Man.; J. A. McPherson, Stony Plain; W. Gourley and M. F. Webb, between whom the prizes were divided. The first award in the section for bulls three years old and over went to 'Talbot's entry, a grand animal, weighing 2,300 pounds, bred by Messrs. Cargill & Son, Ontario; sired by Imp. Royal Member; dam Rosa Lee, imported in dam. Messrs, Bennie, who had 17 head on exhibition, were second in this class, first for two-year-old bulls, and first and second for bull calves and for heifer calves. In yearling bulls, S. R. English, Strathcona, was first, and W. Gourley, Edmonton, second. The first prize for cows three three years and over went to Mr. McPherson's entry, and second to Mr. Talbot's. 'The herd prize for best bull and three females went to Talbot, second to Bennie. The sweepstakes for best bull, any age, was awarded Mr. Talbot's first-prize three-year-old bull.

➢ HEREFORDS were well represented by entries from the herds of Messrs. O. Palmer, Lacombe, and Jas. Tough, the latter winning first prizes for the best bull any age and for two-year-old and one-year-old heifers, while Palmer had the first-prize yearling bull, bull calf, cow, heifer calf, and herd of one bull and three females, and three second prizes.

FAT CATTLE were shown by F. G. Hutchings and Jas. Tough, the latter exhibitor winning first prizes for best heifer and the best three grass-fed cattle five years and under, while Hutchings won for best steer any age and best cow any age.

GRADE CATTLE were shown, of good quality, by D. Brox, J. Hagman, W. J. Richards, J. McPherson, T. Jones, J. A. McPherson, and F. G. Hutchings, Brox winning in cows of beef strain and Hagman in milking strain, Richards being second in the lastnamed section, with McPherson for honorable mention. McPherson was first in heifer calves, Brox first for yearling and two-year-old heifers, and second for heifer calf. Jones won second for two-year-old heifer, Hutchings first for steer three years old or over, and Tough first and second for two-year-old steers.

JERSEYS AND GUERNSEYS were represented by entries by R. B. Walt, who had the first-prize cow, and J. H. Dowling, who was first for heifers and second for cow.

PIGS were out in goodly numbers in the Berkshire and Tamworth classes, and a few Poland-Chinas were also forward, besides a good entry in the baconhog class. In Berkshires, the prizes for boars one year or over were awarded : First to W. Wingrove, Namao; T. Swift, Clover Bar; Clover Bar. Boars under a year-First, T. Swift second, H. Crawford, Strathcona. Sow, one year and over-W. F. Wilkinson, Clover Bar. Sow, under one year-First, John Redman; second, T. Swift. Brood sow-First, J. McPherson. Tamworths-Boar, one year and over-F. C. Seaman, Strathcona, first; H. Lange, Spruce Grove, second. Sow, one year and over-J. McPherson, first; T. Daly, Clover Bar, second. Best fat pig, any sex, J. Tough, who also won first for pen of three pure-bred bacon hogs and for pen of three grade bacon hogs. Mr. Tough won on his live stock 18 first prizes and 7 seconds.

lbs.—J. Trimble, first; T. Jackson, second; J. Hagman, third. Print butter, 10 lbs.—Mrs. McPherson, first; J. Trimble, second; J. Hagman, third.

Hams, home-cured-J. Gainer, first; Mrs. H. Mc-Kay, second. Bacon, home-cured-J. Gainer, first.

Bread, 2 loaves, any flour—First, Mrs. Lachambressecond, Mrs. McPherson. Two loaves, Alberta flour— First, Mrs. McPherson; second, Mrs. H. McKay, Buns, native flour—Mrs. Lachambre, first; Miss Ada Redmond, second.

# "Pan-American Debt."

The United States Senate has agreed to appropriate \$500,000 towards the deficit of the Pan-American Exhibition, and \$45,000 towards the expenses connected with the attendance on the late President McKinley.

# **Buffalo Markets.**

East Buffalo, N. Y., July 14.-Cattle-Prime steers, \$7.25 to \$7.75; choice 1,200 to 1,300 pound steers. \$6.75 to \$7; fair to good, \$6 to \$6.25; choice heifers, 6 to 6.25; best fat cows, 5 to \$5.80; fair to good, \$4.25 to \$4.75; export bulls, \$5 to \$5.35; fresh cows and springers,, good to extra, \$50 to \$60; fair to good, \$35 to \$45; common, 18 to 20; feeders, 4.25 to 4.50; stockers, \$3.50 to \$4.25; stockers' heifers, \$3.50 to \$3.75. Veals. steady ; tops, \$6.75 to \$7 ; fair so good, \$6 to \$6.50; common to light, \$5 to \$5.75. Hogs.-Heavy, \$8.05 to \$8.25; mixed, \$7.90 to \$8; Yorkers, \$7.75 to \$7.85; light Yorkers, \$7.70 to \$7.75. Sheep and Lambs.-Lambs, \$6.50 to \$6.75; fair to good, \$5.75 to \$6.25; culls to common, \$4.50 to \$5.50; yearlings, \$4.50 to \$5.25; wethers, \$4.25 to \$4.50; sheep, tops mixed, \$3.85 to \$4; fair to good, \$3.50 to \$3.75; culls to common, \$2.25 to \$3.25; ewes, \$3.50 to \$3.75.

# Montreal Markets.

Montreal, July 17.—The few head of the best cattle sold at from  $4\frac{1}{2}c$ . to 5c. per lb.; pretty good animals,  $3\frac{1}{2}c$ . to  $4\frac{1}{2}c$ ., and common stock,  $2\frac{1}{4}c$ . to  $3\frac{1}{4}c$ . A number of lean cattle were bought by canners at from 2c. to  $2\frac{1}{4}c$ . Calves sold at from \$2.25 to \$6. Shippers paid  $3\frac{1}{4}c$ . per lb. for good large sheep, and the butchers paid from 3c. to  $3\frac{1}{4}c$ . per lb. for their supplies. Lambs sold at from \$2.50 to \$4.25 each. Fat hogs sold at from  $6\frac{1}{4}c$ . to 7c. per lb., weighed off the cars.

# Chicago\_Markets.

Chicago, July 17.—Cattle—Good to prime steers, \$7.75 to \$8.75; poor to medium, \$4.50 to \$7.50; stockers and feeders, \$2.50 to \$5.25; bulls, \$2.50 to \$5.50; calves, \$2.50 to \$6.75; Texas, \$4 to \$6. Hogs —Mixed and butchers', \$7.30 to \$8.05; good to choice heavy, \$7.75 to \$8.17½; rough heavy, \$7.30 to \$7.65; light, \$7 to \$7.75; bulk of sales at \$7.60 to \$8. Sheep—Lambs, 15c. to 25c. higher; good to choice wethers, \$3.75 to \$4.75; fair to choice mixed, \$2.50 to \$3.60.

# British Cattle Markets.

London, July 14.—United States cattle, 7%d; sheep, 6d; Canadian cattle, 7%d; sheep, 5%d to 6d. Liverpool, July 14.—Canadian cattle, 7%d; sheep,

5 d.

In both single and double roadsters, the exhibits were of high merit. Mr. Stewart won first in both sections; Mr. John Labbock, or Edmonton, second with team, and Mr. R. J. Manson, of the same place, second with single horse.

In the saddie classes, the exhibits were of fair quality. Dr. Acres, of Edmonton, won first in the gentlemen's saddle class with a big, three-quarter-bred chestants, and Mr. Stewart came second with a bay, also three-quarter-bred.

The following is a list of the awards:

DRAFT HORSES (registered). - Stallions, three years and over-1st, A. P. Loughlin, Strathcona.

DI: M.F. HORSES (not registered).—Team — 1st. Brackman-Ker Milling Co., Stratheona; 2nd, R. H. David e., Edmonton, Brood Mares—1st. Thos. Fulton, Stratheona; 2nd, Albert Reid, Stratheona.

GENETICAL PURPOSE.--Brood Mare--1st, Albert Kubb, Statice Grove; 2nd, W. F. Wilkinson, Namao, Fills and ending, three years old--1st, W. F. Wilkinson and or gelding, two years old--1st, F. A. Pears New Lunnon, Filly or gelding, 1 year old--1st is Stevens, Clover Bar, Foal of 1902--1st, A. K. 2nd, F. Grierson, Edmonton, Team--1st, Alson and F. Grierson, Edmonton, Team-1st, Alson and F. Byruce Grove; 2nd, F. Dowling, Edmontor for gelding, any age-1st, Albert Kubb; 2nd, I. J. 1997.

A P Laugh-

SHEEP were shown by J. S. Wilson, who won first for ram over two years, S. McCurdie, who was first for ram lamb and for two ewes, shearlings or over, and T. G. Hutchings, who won first for two ewe lambs.

In poultry there was a fairly good display, C. de W. Macdonald being the principal exhibitor, and winning first prizes in Barred, White and Buff Rocks, Colored Dorkings, Dark Brahmas, Black Langshans and Indian Game, and second for Light Brahmas. R. J. Manson won first on Light Brahmas, J. S. Wilson first and second in Buff Cochins, S. R. English first in Bronze turkeys, F. G. Hutchings first in other turkeys, second for geese, and first for Aylesbury ducks. Thos. Swift was first in gerse and Pekin ducks. J. S. Wilson was first for other\_ducks, and John Hagman second.

BUTTER.—The competition in this class was keen and the quality in most cases of a high order. For roll butter, 5 lbs., dairy, the prizes were awarded: First to F. C. Seaman, second to W. Mitchell, third to W. F. Wilkinson, Packed butter, homemade, not less than 20 lbs.—First to J. Trimble, second to W. Mitchell, 3rd to W. J. Baldwin. Crock butter, 10

# Amount of Honey Consumed by Bees.

The amount of honey consumed by a colony of bees depends upon the length of time they are active during each year. Some authorities have placed the amount as high as 200 pounds for southern countries. It is a difficult matter to determine with any degree of accuracy. In Canada, it is estimated that rarely more than 100 pounds are required for each hive, however strong.

# Provide Foods Rich in Lime.

Bran is excellent for poultry, and one point in? favor of bran is, that it contains a much larger proportion of lime than any other cheap food derived from grain, and as the shells of eggs are composed of lime, it is essential that food rich in lime be provided. It may be urged that the use of oyster shells will provide lime, but it will be found that it is the lime in the food that is most serviceable, because it is in a form that can be better digested and assimilated than carbonate of lime, says the American Fancier. Clover is also rich in lime; and when a mess of cut clover and bran is given the fowls they need no oyster shells or other mineral matter as a source from which to obtain a supply of lime for the eggs. Do not forget that in summer, however, all kinds of foods should be used with judgment. If the hens have a free range, give no food at all as long as they are laying, but if they begin to fall off, let bran be the leading ingredient allowed. In winter the bran and clover are even more essential, as the fowls cannot then secure green food on the range.



"There is no frigate like a Book To take us leagues away; Nor any coursers like a page Of prancing Poetry."

# "God Save Our King."

The whole British nation stands, as it were, in dumb bewilderment these days. Instead of the joy-bells which were to have "made the welkin ring," there is a silence, and instead of the rejoicing shouts of the gathered multitude from all the ends of the earth, there goes up the cry which, whether in joy or sorrow, is, and ever has been, a prayer, "God Save our King !"

"What I do, thou knowest not now, but thou shalt know hereafter "—and with that assurance we must strive to still the aching of our anxious hearts, for without grasping the meaning of these, to us, inexplicable dealings, we do know that behind them lies some mighty purpose which needed this trial of faith, this suffering of a King, this sorrow and suspense of a loyal people, to bring it to a perfect fulfilment.

One of the uses of suffering is the sympathy it brings. Not only are the hearts of the King's loyal subjects stirred to their very depths, but from other lands and from other peoples, kindly expressions come to us, telling that as they rejoiced with us over the glad advent of peace, so now they sorrow with us in our time of stress and anxiety. In a Boston paper, issued on what was to have been Coronation day, the writer says : " The world deeply sympathizes with England's stricken King. It has been his lot to fill the gap left by his lamented father. He has had to be the throne's representative in unnumbered functions, grave and gay. Imprisoned in the vise of princely propriety, he has been obliged to subject his health to the inevitable dangers that must come of innumerable exposures. The result is that he neared the throne broken down in health, but as striking a sacrifice for his country's honor as though he had died in the field of battle.

"Only the most thoughtless will ascribe the King's long round of strained living to natural choice. He offers an example of vicarious sacrifice for the glory of England, and is an object of true sympathy for all the world.

" No man in his senses can but feel deep sympathy for the King. It is certainly a case where a peasant might pity a potentate."

And then it adds what must surely be most true: "But perhaps the women of the world will most pity Queen Alexandra, whose beautiful face has so often adormed the public prints of late. She will suffer affliction more keenly than all the rest."

# THE FARMER'S ADVOCATE

There are contributors to these contests who have tried and failed almost half-a-dozen times, yet they cheerily return for still another attempt. Those persons will eventually win (not through "favor "—all are strngers to me), because each effort leaves them stronger than before. This persistent effort is, moreover, excellent discipline and an aid in the formation of firm character, and will unconsciously leave its trace thereupon, for it is an evident fact that our every action, word, and even thought, is being built into this important life-work.

> "For the structure that we raise, Time is with materials filled; Our to-days and yestesdays Are the blocks with which we build."

Another competitor writes: ".... We defeated ones may at least do justice to those who have won.... Perhaps the failures may succeed next time—' Bruce and the spider,' you know." This is the true Canadian spirit, and nil desperandum is an excellent motto. I used to see The Khan poems, but have not read any lately. I should like to have the one you mention. I dare not ask for space to publish the poem you ask for, as already we are obliged to condense matters very much. To what do you refer, re the "Mc" to your name? Is it to this old rhyme:

> "By Mac and O you'll surely know True Irishmen, they say: For if they lack both O and Mac. No Irishmen are they."

I always thought "Mc" was as much Scotch as Irish.

Indeed, "Baby," the fact of your having had a birthday recently does not excuse you from paying respects to the Nook. It is, instead, a promotion to a higher rank and to win in future will be a greater honor. Don't you be foolish enough to give up horseback riding (or reasonably short skirts, either) for ever so long yet. Do not be in a hurry to bid adieu to "the glad, wild ways of your schoolgirl days" the necessity for doing so comes always soon enough, even when longest deferred. Keep your heart and spirits young, and your face will follow their example.

"Marie," you are a 'brick' (dear me ! I hope I shall not be reproved for indulging in slang; it is so expressive sometimes), and some day you will walk hand-in-hand with success. Too bad your berries failed. I see you find some consolation still; that's the best way—always look for the silver lining. Do you not love pansies? Their sweet velvety faces are almost human in expression. Mine are not as good as usual thus far. You are at liberty to change your pen-name if you wish.

# OUR COMPETITION.

The result of Contest XX. will appear next issue; some of the Provinces have failed to send any representative, which is too bad.

Contest XXI. will excite more general interest, and I hope for a large attendance. Quotation No. 10 should read, "The least flower, etc.," instead of "last," as printed in July 5th issue.

Where are the two hundred and twelve Guests who tried the animal contest last winter? Everybody welcome, young and old: no disgrace to fail; try, try again. THE HOSTESS. Ingle Nook Chats, Pakenham, Ont.

FOUNDED ING

There are contributors to these contests who we tried and failed almost half-a-dozen times, t they cheerily return for still another attempt. hose persons will eventually win (not through favor "--all are strngers to me), because each wert leaves them stronger than before. This per-

One thing that is very important in running our Christian race, is to aim rightly. If a main is only trying to be religious in order to get to heaven, he will probably be quite satisfied with himself and his progress. Comparing himself with his neighbors-or, rather, with what he imagines his neighbors to be-instead of with the perfect Man, he will be very apt to rest on his oars when he has reached a fair standard of worldly respectability. But we should never be satisfied with ourselves. Our business is to press toward the mark, not to pay a small premium-in the shape of good works-as a wise investment in the way of insurance for a future life. Even in worldly matters, as Kingsley says, we should not be perpetually thinking. "Will it pay me?" instead Is it right ?" Trying to get most money for of the least work. In spiritual matters it is far worse. If we think only that selfish and worldly thought, "How much will God take for saving my soul ?'-which is the secret thought of many-then we shall be in a fair way of killing our souls; so that if they be saved, they will not, at all events, be saved alive. For we shall kill in our souls just those instincts of purity. justice, generosity, unselfishness and unworldliness which make the very life of the soul.

Our aim should not be only the selfish one of saving our own souls, for our orders are to aim as high as possible : "Be ye therefore perfect, even as your Father which is in heaven is perfect." Growth is one great proof of life ; without growth, how can we be sure that we have any spiritual life at all? But growth is often very slow; we certainly can't reach perfection all at once. The rule is always the same. " First the blade, then the ear, then the full corn in the ear." Life always comes from God. He keeps that secret in His own hands. Men are clever enough to make 'a great many things, but all the human wisdom in the world can never make the tinlest insect, or even a plant, that is alive and can grow. This being so, we must come to God for fuller life, instead of trying to clip our souls into shape from the outside. It is beginning at the wrong end to try to make the actions right, if the thoughts and desires are left without control. That is like tying fruit on a tree, fruit which is not the product of its own life and does not show of what sort it is-does not belong to it, in fact. Christ has declared Himself to be The Life, and says that He will give life to all who come to Him. As He said so sadly long ago, still He says to many to-day. " Ye will not come to Me. that ye might have life." The great and infinite God is ready to touch each one of us with the closest union and personal contact, if we will only yield our lives honestly to Him. He has a special message for each soul. "which no man know-eth saving he that receiveth it." Without Him we can do nothing, but we can "do all things when drawing every moment's power from Him whose strength is made perfect in our weakness.

'Let each man think himself an act of God, His mind a thought, his life a breath of God. And let each try, by great thoughts and great deeds. To show the most of Heaven, he hath in him.''

This life of ours is a grand trust lant to us his

There will not be a wife or a mother in the whole Dominion of Canada whose heart to-day will not be beating in unison with that Royal wife, and whose prayers will not go up with hers, that the life so dear to her and to her children, and so essential to the British nation, may yet be spared for years to come. H. A. B.

# Ingle Nook Chats.

My dear Guests,---

# " Every black must have its white. And every sweet its sour."

So sings someone whose name I cannot at present recall, but the verse has been brought to my mind by the reception of an irate note from a very irate boy, who tried one of our recent competitions, failed to wan and therefore accuses The Hostess of unfairness in awarding the prizes. As this is the very first taste of "sour" that has found its way into the cup of sweetness proffered by my Guests. I have no cause to complain. Had the imputation any foundation. I should feel it keenly. As it is, I only regret that the person in question has not borne his defeat more bravely, remembering that though

> "Glorious it is to went the crown Of a deserved and pure success: He who knows how to fail, has won A crown whose lustre is not less."

It is strange the different effects similar couses produce in different people. The brave make defeat a stepping-stone to some greater victory; the pusillanimous allow themselves to be weighed down by triffes and make no further effort.

# THE QUIET HOUR.

# Forward, March !

"In hastening on, o'er rough and smooth. You may be apt sometimes to stumble. For only he who stands stock-still Is certain to avoid a tumble.

In forming plans and doing deeds, You'll often make mistakes, of course. For only he who never strives Will never meet opposing force.

"Better to lose a dozen fights, And yet march on courageously, Than halt, a coward, on the field, And fail to live, through fear to dec."

The command given to the Israelites, as they began their march to the Promised Land, is also a command to us : "The Lord said unto Moses. Wherefore criest thou unto Me ?. Speak unto the children of Israel, that they go forward." Go Forward ! Are we obeying that command ? When soldiers hear the order, "Quick, march !" they don't stand in one place and mark time taking steps, but making no real progress. Yet that is what Christian soldiers too often seem to be doing. What were we like a year or two age Is our character any stronger and holter to-day It is a solemn question for each on us, and , that it is wise to ask occasionally, as a m chant takes stock of his goods once of this year. How terrible it would be a the and pronounced against the Laodicours should be be pronounced against us : that thou art neither cold nor hot the solid could were either cold or hot. So then to solid character

God. The idle question, " Is life worth living?" can never be asked by one who realizes that life means opportunity. We can't afford to waste today, for it will never be ours to use again ; and to-morrow, when it arrives, will still be to-day fall of possibilities.

# "There lies no desert in the land of life-"

Even the bits which seem most dreary and desert-like, are capable of yielding a rich harvest if carefully cultivated. Are we making the most of our own particular corner in God's great vineyard, or are we wasting valuable time in looking over the fence at other spots which are not given to us to cultivate? Perhaps our task is a difficult one, and we are very apt to grumble if companions are not congenial, and if everything is not made smooth and easy for us. But let us remember that difficulties and temptations are intended to help instead of to hinder us. If they are overcome they are like rounds of a ladder on which we may mount daily higher and nearer to our God.

> Difficulties are God's errands; Ever keep this fact in view; Froof of trust, and how he honors, Giving us such tasks to do. Let us finch not, moving onward. With a besit both brave and true.

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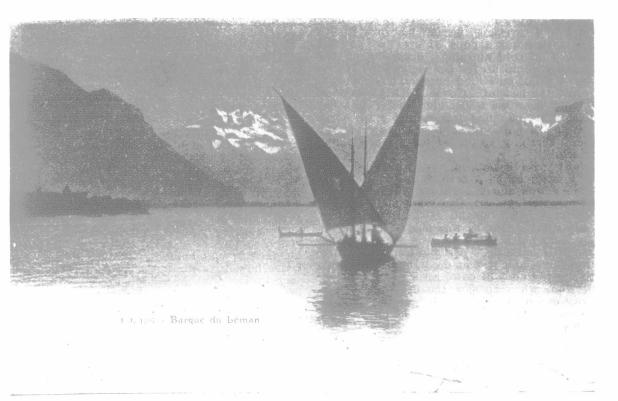
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# THE FARMER'S ADVOCATE.



# LAKE LEMAN, SWITZERLAND. Visited by "Mollie" in her travels.

# Travelling Notes.

Montreux, May 25th. I have written this on Sunday afternoon, whilst the town and the streets are one whirl of excitement, for although the Swiss are a good people and keep Sunday better than the French, they have great license during this fete. They are a simple country lot, nicely dressed and respectable, and though here," and in France, winetheir own make, sour and poor-is the common drink, I never see an intoxicated person. I read in my guidebook that Switzerland is bounded on the north and east by Germany, on the south by Italy, and on the west by France. It is a republic formed of twenty-two cantons, and the population is composed of French, German, and Italian. The German language is spoken by the inhabitants in sixteen cantons, the French in four, and the Italian in two. Its greatest length from east to west is 200 miles, and its breadth, 156. Two-thirds of its surface consists of lofty mountain chains and valleys, the higher peaks being covered in perpetual snow. The two most important rivers are the Rhine and the Rhone. In its towering mountains and vast glaciers, its beautiful lakes and smiling valleys, its numberless Alpine streams and glittering cascades, Switzerland combines various features of grand and striking scenery. This is how Lord Byron de-

"Above me are the Alps,

The palaces of Nature, whose vast walls

cissus," and Battle of Flowers. Bands are playing, and hundreds of young people and little children, dressed in most picturesque style, are taking part in marches and pretty dances and minuets and singing. At the close of the programme in the park, they all go through the streets in floral carriages and big vans, and then follows a battle of flowers, somewhat similar to that which we witnessed on the Riviera, only with this difference, that here flowers are not so plentiful, except the narcissus, which grows wild and is gathered by the bushel. Confetti is used as well as flowers, so every man, woman and child, as well as the streets, are completely covered with both.

The Swiss railroad has been to us an object of friendly amusement. We had only got used to the sound as of a boatswain's pipe, of the French conductors, often resembling the cry of the peacock, when here we find the train is started by a small Christmas-horn, blown sometimes by a woman ! Sleeping berths are an expensive luxury on the Continent-they will ask you from five to fifteen dollars for a single berth, so it is not strange the native prefers to doze away the night holt-upright, or to crouch into a corner of the carriage. For myself, I have long since learned to break the journey, and sleep at some hotel over night. As one travels through this part of Switzerland, the eye falls upon a world of vineyards. In other words, the vines clothe all the little levels and vast slopes of the mountainsides as far up as the cold will let the grapes grow. There is literally almost no other cultivation, and it is a pretty sight.

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On the top of the mountains are the chalets. with their kine and herds of goats. At a sharp turn in the road, the other day, a little goatherd and his flock came full gallop upon me; the boy roughshod, with a pointed stick in his hand, and behind him a merry troop, tinkling their bells in as many tones as their rough coats were the shall and out of the skin at night, and the skin at night, and on more the change will be vegetable compositions are than other kinds, and will r mal oils often do.

many-colored. The elder ones jogged along, sedate and full-uddered, in the forefront, but the kids danced, nimble-footed, deliberately foolish and frolicsome, bounding and turning upon themselves in sheer silly caprice.

There are many delightful excursions to be made round Montreux, viz.: Clarens, of which Lord Byron wrote in Childe Harold's Pilgrimage:

Clarens ! by heavenly reet thy paths are trod,

Undying Love's who here ascends a throne To which the steps are mountains . . . . . . He who hath loved not, here would learn that lore

And make his heart a spirit; he who knows That tender mystery, will love the more . . . . .

and Vevey, where the world-known Nestle Food is made, and celebrated chocolates. Chillon is a fine old Gothic castle on the border of the lake. It is stated that a great Swiss general drew up his Helvetian forces here and quietly awaited the approach of a powerful Roman army under the Consul Cassius, grandiather of Julius Casar's wife, B. C. 107. After a long and terrible combat, the Roman army was completely routed.

The illustrious Emperor Charlemagne, 742-814, repaired and strengthened Chillon. Bonivard, soldier, poet and patriotic reformer, enemy of Charles III., Duke of Savoy, was chained here to a pillar for four years, by the order of the Duke, until released by the Berne army in 1536. Lord Byron has made it famous in his noble poem, the "Prisoner of Chillon ":

" Chillon: Thy prison is a holy place And thy sad floor an altar—for 'twas trod, Until his very steps have left a trace Worn, as if thy cold pavement were a sod, By Bonivard !

There are seven pillars of Gothic mould, In Chillon's dungeons deep and old There are seven columns massy and gray, Dim with a dull imprisoned ray. Lake Leman lies by Chillon's walls : A thousand feet in depth below Its massy waters meet and flow ; Thus much the fathom line was sent From Chillon's snow-white battlement."

MOLLIE.

# To Counteract Sunburn and Remove Tan.

If one fears to use drugs on the skin, it is pleasant to realize that few of them are more efficacious than simple remedies to be found at hand in all homes. Of these there is nothing better than fresh buttermilk for removing tan, freckles and sunburn. It has the great advantage that it does not injure the skin, but makes it soft, white and smooth. Take a soft cloth or sponge, and bathe the face, neck and arms thoroughly before retiring for the night; then wipe off the drops lightly. In the morning wash thoroughly, and wipe dry and rub the skin with a crash towel. Two or three such baths will take off the tan and summer freckles, and occasional applications of the buttermilk will keep the hands soft and smooth. If it is necessary to have the hands in dishwater or suds, rinse in buttermilk and dry with oatmeal or finely-ground cornmeal.

An old-fashioned cosmetic for tain and sunburn, which is agreeable to use, is the juice of crushed strawberries, or the milky juice, from the stalks of flowering lettuce. It should be well but gently rubbed into the skin at night, and if persevered in for a week or more the change will be markedly for the better. Vegetable compositions are much better for the skin than other kinds, and will not make it flabby, as ani-

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And throned Eternity in icy halls Of cold sublimity where forms and falls The avalanche—the thunderbolt of snow ! All that expands the spirit yet appals, Gather around these summits, as to show How earth may pierce to Heaven, yet leave vain man below."

So far we have only been into French Switzerland, going from place to place on Lac Leman, better known to us as the Lake of Geneva. It has rained more than half the time, but they tell us it has been an unusually rainy May. It seems odd that no matter where one goes, if it is too hot or too cold, or too windy or too rainy, it is always the same story—" an unusual season, its like never before heard of !" Why this should happen just when we go to these places is unanswerable. In this case we can forgive the weather, for there have been so many nice things, which quite overbalance the disagreeables. The people are all most kind and friendly, no matter what cationality, and we have been a mixed at some of the pensions, viz., Swiss, Greeks, French Germans, Italians, Russians, English, and Canadians. The French language has provided, but nearly all speak English a little fortunately for me, as I know but little French and less German.

Montreux is a charming Swiss village, at the head of Lake Geneva, renowned not only for its beautiful scenery, but also for its healthy situation.

We set e fortunate to be here this week, for Montreast is all in holiday attire, its streets are one attact of flags. Chinese lanterns, and flowers, the attraction being the annual  $\frac{1}{2}$  Fete de Nar-



Visited by "Mollie" in her travels.

# THE FARMER'S ADVOCATE.

# THE CHILDREN'S CORNER.

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# "Twentieth Century Chickens."

A QUESTION.

Why, chickies, where is your mother? You poor little shivering things, What can the old hen be doing ? You ought to be under her wings."

# THE ANSWER.

'Oh, what do you mean by a mother? No mother at all have we; We were hatched in an incubator, Chicken's up-to-date are we.

"We've a box that is called a 'brooder,' But no wings that are warm and soft, Under which we can run and nestle, Like those common chicks in the loft.

" For mothers are quite old-fashioned, Not needed at all to-day To scratch for a pure-bred 'broiler,' Though the eggs they still must lay." COUSIN DOROTHY.

# Between Ourselves.

The descriptions of the picture called " Perfect Bliss " are coming in rather slowly, but I hope you will all make an attempt at it before the end of July. I suppose you have heard the saying, "Take care of the pence, and the pounds will take care of themselves." It doesn't mean only that we should be careful not to waste small sums of money. It is possible to be very careful with money and very extravagant in other ways. Your life is the most valuable possession you have-and life is made up of minutes. As it takes a great many coppers to make a thousand dollars, so it takes a great many minutes to make an ordinary life; but as you spend your minutes, crossing a desert when he saw a little bird lying

about in grand carriages, having no work to do. Reuben's mother was a poor widow, and he used to lie in bed on cold mornings, dreaming of the fine things he would do for her some day. It was pleasant to think how kind he would be, and he would draw the bedclothes over his head so that he could not hear his feeble old mother lighting the kitchen fire, pumping water, and even sometimes digging a path through the snow to the One day he picked up a story called henhouse.

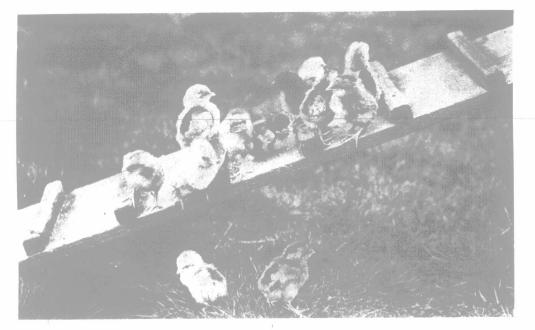
"The Hero." "Hello !" he exclaimed. "What is this about? I mean to be a hero."

The story was about a village which was entirely destroyed by fire. One poor man was in great distress. His neighbors had lost their homes and cattle ; but he was nearly frantic, for not only were his house and cows gane, but his son was also missing. All night he wandered about the ruins, and just at daylight he was overjoyed to see his herd of cows return, followed by his son, who, when he saw the fire, had driven them away out of danger. When told that he was a hero, the boy exclaimed, "Oh, no; a hero is one who does something wonderful. I only took the cows away because I knew it was the right thing to do.'

'Yes,'' said the father, " and he who does the right thing at the right time is a hero.

Reuben thought the matter over very seriously and came to the conclusion that he already had the chance to be that kind of a hero. He also decided that he had better go to work at once, as heroes can't be made in a day.

The greatest heroes are generally most thoughtful in doing little kindnesses. One of the heroes of the British navy in the time of the Crimea was Capt. Peel. He distinguished himself by many daring deeds of gallantry, such as picking up a shell which had fallen near some boxes of powder, and throwing it over the earthworks before it exploded. Once, in 1851, he was



"TWENFIETH CENTURY CHICKENS."

# mothers could dress in silk and velvet and drive Twenty Years' Experience With the Hired Man.

I have been repeatedly asked certain questions relative to hired help in this country When in Ontario I have been asked if we found any trouble getting hired men for farm work, and if hired men out here are like the class who hire out as plowmen or "general hired men" in the older parts of Canada? Then, when an aristocrat-ic Old Country man—a "gentleman," of course-meets one of the landed proprietors of our great wheat-growing plains, he naturally wishes to know what may be his prospects (if he invests in real estate and lays out money in farm buildings. fencing and live stock) as to obtaining "servants, both indoors and out, also whether we can keep our "working people" right along for a term of years, so they grow grey in our service, as in the old families "at home." I have been at a loss at times how to explain the situation, for only experience can do that. I fancy our experience may be a sample of many others', and may possibly supply the information required, therefore this reminiscence.

Our first experience with hired help in the untried prairie country began at the time of having. Our dwelling consisted of an 8x12 shanty and a tent of about the same dimensions. The shanty accommodated three children and two adults at night, besides being general storeroom and wardrobe. The tent was furnished with kitchen and dairy utensils; also camp bed for the man. Said camp bed only lasted part of one night. It was not built for over two hundred pounds avoirdupois, and our man weighed that much. He was a fine specimen of the ganus homo ; tall, ruddy and well proportioned. It did one good to see him stride over the hummocks; and to tramp down a load of hay, there was not his equal. He was as good-natured as the day was long; and when his bed collapsed he just laughed his hearty laugh and said, "Never mind, this is better"never even moved to arrange things-and snored away till morning. He brought his Latin books along for leisure moments, for you must know that he was a graduate of Toronto University, and entering on his law studies. Rainy days came once in a while, and as our chores were not heavy, I pressed him into service as teacher of our two girls, with whom he was a great favorite, and a model teacher. It would do some of the fastidious young men good to see him churning for me, as he did more than once with my primitive churn-a tin pail and a granite spoon. My last interview with him was in the anteroom of the court-house in a large western city. He was habited then in his lawyer's gown, and had his seat among the "wise men." If, perchance, his eye falls upon this sketch, he will doubtless recognize his portrait.

Our second was opposite in appearance, and I might almost say in every respect. Smail, delicate and physically a wreck. Disappointed and discouraged with his former life, he felt indeed that he had left all worth living for behind him, and that as he said, "the bridge was knocked down" It was a terrible ordeal to him to lie down the first night in a rude bunk built against the wall, and cover himself over with the coarse grey blankets. Worse still it was to have to eat the common side bacon and the other coarse food. We had by this time a three-roomed nouse. There was no cellar and the house was

poorly built, and no building material wasted in or of thirst Know

FOUNDED 1866

you wasting minutes, some day you will find that your life has slipped through your hands and is wasted too. Then, some people are very free with their promises, and think they are brave and good because they intend to do great things some day. But our lives are made up of realities, not of dreams; the things we do, not the things we intend to do.

> ' If I had a heap of yellow corn And fields of waving wheat, I'd quickly send a cargo where They've not enough to eat. I'd load a ship myself alone With grain of every kind, And make my harvest offering The best that I could find. Or if I had just money, why, That, too, would do much good, For it should go to India To buy the children food." Twas little Rob who said these words So generous and bold What he would do when he was rich. He very often told. But, O, this same dear little boy, When he had dunes to spend, Bought something for hunself alone Had none to give or lend. But truly now, if Rob expects To be a generous man, He'd better practise when he By giving what he can.

I once heard of a boy called Retriet, who made up his mind to be a hero. He was alway read-Mannaa-"Why, Susie, you' ing stories about boys who had alone work-rial statch to everybody but little things, such as going into strange countress and you hand it to him?" Susie (warning with heaps of money, so that their "Because, mamma, hitle brother

age and gentleness go together in a true soldier, perhaps you will not be surprised to hear that he got off his camel and gave some of his store of water to save the life of that poor little creature

Now, boys, you want to be heroes some day, I am very sure. Why shouldn't you be heroes today, and every day? If being a hero is simply doing the right thing at the right time, why NOW is the time to begin.

> " Up with the early song-birds, Fresh for the busy day, Driving the cows to pasture, Tossing the new-mown hay, Feeding the ducks and chickens Riding the horse to the creek, Hunting the eggs in the barnyard-How many dozen a week? Running of errands for mother, Picking the early greens, Hilling the corn and potatoes Shelling the peas and beans Going to school in the winter Learning to read and spell, Working at home in the summ Gathering knowledge as well Growing to useful manhood, Far from the busy town. One of these country boys that Be first in the world's rene COUSIX Following

its construction, and as fuel had to be drawn a long distance, everything we ate had to cooked iresh for every meal or thawed out. This was our first winter, and as we had no land ready for crops the summer previous, we could hardly afford to board a man, without thinking of paying wages in winter. We were sorry for the boy and did the best we could for him till spring. when he entered upon homestead duties, making his home still with us for some time. It was not many months before he began once more to feel a man, and he was able to relish pork and beans as well as taking his place among men who could work, and holding his own with them too. He is now at the head of a family and owns a home and farm, with all things necessary for comfort.

Early in the spring there came to us a handome boy of sixteen or seventeen years. He arrived astride an ox and leading another, and had ridden some 20 or 30 miles thereon. He had started on this finish of his journey in full confidence that he was qualified to ride anythin that men ever rode. His confidence was some what shaken about four miles before his destination was reached, and when we found him at our door he looked bedraggled and crestfallen. Crossing a creek, and while the oxen were drinking, he madvertently pulled a newspaper from his pocket for the purpose of informing himself on the local news Alas i for well-laid plans. The pap-

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# THE FARMER'S ADVOCATE.

whole, returned with wonders to relate, worked on his farm during summer, in a printing office or on the railroad during winter, ran things on too large a scale, got into debt and sold out. Is at present a veterinary surgeon in a large city.

Next was a young farmer aged about twentythree; a capital worker, who understood his business. He had a farm of his own, but on several accounts preferred working part of his time for other farmers. He could work successfully with a four-handed team composed of two old horses (most equally matched, in that one was willing to do all the work, while the other was willing he should), one mule and one very small, cantankerous pony. During several summers he worked for us a month or two at a time and we allways welcomed him as a friend. He is farming in northern Ontario, having a good home there, I believe.

One winter my husband wished to spend at his old home in the east, and looking around for a suitable person to leave in charge of the farm and stock in his absence, found a young man highly recommended. So that he could get the run of the business he came about two months before he was to be left alone. Fall work was done, some wood got up for winter use and a general knowledge of things ascertained. Snow had not fallen to any great depth and he was sure that when left alone he would be able, besides the usual work, to get up a good supply of wood. He was just the kind of man to have in a family in the lonely prairie winters : kind, genial, inobtrusive, yet always ready to give a helping hand when a perfect gentleman, cultured and needed ; refined. Before Christmas time he began to have a perplexed, harrassed, tried look. The horses and cattle did not seem to thrive to his liking. A stack of peas which were to be flailed out diminished very slowly, and there was no time to go for wood. The wood "teepee" grew smaller, and desperately he took time to replenish it. Oh, how many difficulties unforeseen there were ! The horses got down in deep snow and tangled in their harness. The cold was so intense that mit-tens could not be pulled of, and it was almost impossible to get things righted. Then when the valley was reached, where there surely was left plenty of dry fallen wood, lo, wood there was none, at least none visible ! We put the best face possible upon the situation, and called for retrenchments. We had then a pretty large house, and little children must be kept warm, so we shut up part of the house and only warmed what we could with one stove the remainder of that winter. He was glad, as well as we, to welcome our "lord and master" to his home in March. This gentleman is now a large property owner, but still revelling in the freedom of bachelorhood.

The following spring we found it expedient to put a stone foundation and cellar walls under our house, as the old poplar posts were rotting away, so help we must have to get out stone, burn a lime kiln, etc. We found the prospective help this time in two jolly English boys-a pair of Londoners who had never before been out of the sound of Bow Bells. They came in fine spirits, well equipped with a complete outfit of all things needful for a farm laborer except experionce, but of course time would remedy that. They were plucky fellows and kept up a brave exterior, though my heart ached for them after a few days of stone-lifting and digging at the lime pit. Their hands were fearfully blistered, though esolutely kept them out of view when pos sible; but instead of springing over the wagon box as they did at first, they climbed in and out like an old woman of seventy. They came from good homes and from industrious parentage and had not a bad trait of character about them, so they were destined to persevere and succeed. One of them soon found more congenial occupation. and has been for years in the employ of one of The largest farming-machine implement firms in Canada. Both they and we had a good many laughs at their mistakes, but matters all righted themselves in time, and the one who decided to stay by the farm is now a prosperous and highlyrespected prairie farmer and land-owner. The next year we hired a big, young Irish-Canadian, on recommendation of his cousin, as a practical farmer, able and willing to work. He was large and strong, there was no mistake about that, knew how to work and was perfectly ablebut willing, no ! He evidently left his father's house to have what he called a good time, meaning by that, time to lie in bed as long as he pleased and otherwise to shirk all work possible and get his wages. Some way he discovered that his plans did not work to suit him, and before he pleaded homesickness and went back to his mother. By that time we were in hiddle of the summer's work and without , naturally, took the first offer. A young man, of no particular family or upbringot very strong, not very anxious to work very steady. Could play the violin tolertruction along that line, but that did not ly render him useful as a farmer. After a ks he came to the conclusion that he of up to it." So we took him back to d saw him on the train going west. He has since been alternately ranching and spending a small fortune to which he fell heir. For the remainder of that eventful summer we had a Canadian, a married man, whose family was soon to follow him out. He was smart when he had a mind to work; had an idea he "knew it all," but was in reality very ignorant; liked pies and cakes and preserves, but disdained all common food. Chores and he had no affinity, and he must have his "spree" once in a while. "A feller could not always be working." We worried along with him for the rest of that year, and then his nice little wife and three dear little children came out, to live on the barest necessities in a shanty on a rented farm for a while; from there they moved to town, where the man did odd jobs and drank whiskey.

The following spring we hired a fire, hearty fellow from the north of England, who had with him his brother of 13 years. Both brothers were lively, singing or whistling the livelong day, the younger a periect copy of the elder. Both had black curly hair, a wealth of it, which they brushed till it shone, and they were just as careful about everything about them. Had lots of good, comfortable clothing and used it. Came from tradespeople in their native town, and meant business. The boy should not have come till his school days were over, for he left a good mother for very precarious guardianship. He went back, I am glad to say, after a year's trial of prairie life. The man rushed through a great amount of work, getting the highest wages, but he was not a great success, as his motto was quantity rather than quality. He left this country and is now in his former home in England.

Now I have come to a "character"-I really do not know how to describe him-which side of him to take first, he had so many. Oh, but I see have omitted one, so I must give him before I begin on my curiosity. This was a young Scotch-An honest, steady, not over-strong Canadian. farmer. He could plow, that was his strong point. He knew just how to do it his own way. and was determined to do it no other way. The trouble he found in carrying out his plan was that he had a great big mare, who thought as much of her way as he did of his; and as she was the stronger, the result frequently was that the mare would bring the other horse, plow and man all together to the stable in the middle of working hours. However, he did his work well and stayed late in the fall, but as he did not fancy this country, went back to his Ontario

Now for my "character." I very much fear my pen will not do him justice, but we must make an effort. He arrived on the spot, where my husband was engaged getting a load of hay with some temporary help, and enquired if a man was wanted. When answered in the affirmative, he merely replied, "Well, squire, I'm your man," and proceeded at once to business. Just then a neighbor drove up, wishing to transact some official business, and the new man said : " Go along, squire, 1'll bring the load in." He had not asked nor been told where it was to be brought, but it came all right to the barn, the team put in the stable and fed, and the man came to the house for his dinner with the rest of the family, as much at home as any of them. He was of medium size, neatly though poorly dressed, and what one might call smart from the word go. As time passed on, we found, from his own description of his past career, that many allowances as bestowed Born ont be in one of the London slums, his little life lived on the streets from the time he was able to walk, holding his own against all opposers, he preferred a fight any time to a meal. His mother had three husbands and this boy belonged to the second family. Husbands all were hard drinkers and were railroad navvies. His mother kept them company in their bowls, on Sundays and holidays, though on working days keeping pretty steadily at her occupation of laundress. He admired his mother and had a most wholesome respect for her, for "was she not as tall and strong as almost any man, and could she not shake them within an inch of their lives if they misbehaved themselves ?" From tender years till about fourteen, this boy carried clothes to and from his mother's laundry, presumably out of school hours. The school board tried, but in vain, to keep him at school, till. as a last resort, he was placed for a time in an institution where he was compelled to learn, not only from books, but to undergo pretty strict discipline. This was just the modicine he needed, and his conduct there was so good and his improvement so great that he was dismissed with great commendation. The poor lad begged with tears not to be turned again on the streets, but to be kept where he was. The authorities could not do so, however, as room must not be taken up except by such as he was before his incarceration. So he was perforce thrown among his former associates and amid his former environments. It was not long before he acquired an intense longing for an entire change of life and scene. He ran away from his so-called "home." and found his way to a training ship along the sea coast. His life there for a few years was rough but disciplinary, and

fitted him for what he entered soon after. He took the Queen's shilling and enlisted in the British army, was sent into Ireland on duty and remained there till a year or two afterwards, when a half-sister, who had emigrated to Canada and with whom he was a great favorite, assisted to buy him out and bring him to this country, and now he was going to "farm it." Curious apprenticeship for farm life, was it not? There are many worse hired men and many worse farmers than he was from the very first. He was not afraid to tackle anything, and would be conquered by nothing. When asked to undertake anything new, his invariable answer would be "Won't 1? That's just where I'll shine." His army life made him very precise and neat, and rainy days or in stormy weather, when there was no working out of doors, he would find something to do. Perhaps he would call out orders for every one to keep out of the woodshed and workshop, for he was going to raise a dust. And so he would, at the close of which clearing-up time the shed would look as trim and taut as the deck of a ship, even if the "squire" could not find the tools and other things that he had left just so he could have them handy." At other rainy seasons he would bring clothes, bedding, rugs, etc., downstairs from his own room; then proceed to " hollystone and scrub the deck " till everything shone, and afterwards put all back shipshape. At threshing time he was the life of the crowd, working in work time and in the evening singing songs and otherwise making things lively. In the course of a couple of years he grew tired of the monotony of the farm, joined the N.-W. M. P., and when the call came for our brave boys to go to South Africa, he went, did his duty bravely, and now can show his medal therefor. He is at present taking a turn again at the farming, and proving he has profited by his experiences

After he left us we found a small young man, who was by no means small in his own extimation. He was clever, had good habits, and worked very well during haying, harvest and threshing, as long as no one stepped on his toes. He went the following winter to an easy job in town, where, 1 am afraid, he learned to love the wine when it "stirred itself aright." Thence he proceeded to the Pacific coast, still in quest of an easy job with plenty of leisure and no boss.

The next spring a volunteer turned up in the shape of a fine, strong young Englishman, who, with his chum, came from home to learn farming. They were somewhat disappointed in their first venture, so begged us to take them both till something better offered. The "chum" found a place very soon and we kept the other on small wages. As everyone does in new work at first, he made many mistakes, and time and money had to be spent in mending breakages. But he persevered, and had just learned to manage his team and plow and keep them in good order, when the harvest began, and he fancied he could earn fancy wages farther west. So he left without notice when there was no man about the place, and we women folk were at some disadvantage. He is farming now, and whether he has a hired man for himself yet or not, probably appreciates the situation in which he left us.

In our want, we struck another young English man, a ranchman who was willing to spend part of every year on a farm. We had him for a few months at a time for three years, and always found him honest in his work, capable, and in enort a good man Still I often sorry for him, as he always had a harrassed, unhappy look, as if, because he was the son of a professional man, he felt that he was doing work that was beneath him. He never seemed to think that he could appear except as a drudge in his dress or manner, when the fact was that, if he had appeared according to his education and abilities, he might have taken a high stand in one of the noblest callings in life-farming. Next in line came a steady, quiet Canadian, who had been born and brought up in Onfario. He worked even beyond his strength, and suited well except that he was not strong. He was handy and well informed, so at the end of a year he found work more suited to his strength in a town where his family resided. This brings me to the present date, when we think we have the man who suits and who is suited. He is with us now for his third year, and seems like one of the family, as he is interested in his work and appears to feel quite at home in every respect.

If these experiences throw any light upon the subject, I will not have given them in vain Assiniboia. RESIDENT.

# Humorous.

Professor Wilson, of Edinburgh University, was, some years ago, appointed Honorary Physician to the Queen. On the morning of his appointment he informed his pupils of the honor he had received by means of a blackboard in the laboratory, thus the Professor Wilson informs his pupils that he has this day been appointed Honorary Physician to the Queen." During his temporary absence from the room, one of the students added the words the Gueen."

# THE FARMER'S ADVOCATE

# The Red River Settlement. SOME REMINISCENCES OF FIFTY YEARS

AGO

How those yellow old papers bring back the memory of old familiar faces-most of them never to be seen again on earth, but whose lives have. more or less, left fruitful records behind them. Amongst the foremost comes the kindly, earnest, benevolent face of the first Bishop of Rupert's Land, Dr. Anderson, whose diocese might be said to have had no bounds, for it certainly could have claimed the whole northerly part of the continent of British North America, from the confines of the United States, covering at least two million square miles, some of it within the arctic zone. I remember thinking of Bishop Anderson as a kind of Robinson Crusoe amongst bishops, not only on account of his isolation, but because he seemed to be equally endowed with the faculty of making the best of things as they were and as they were not. He had such a handful of clergy, too, to help him, the exceptional few only, going forth into the wilds to carry their message. But how could they go unless they were sent, and how could their chief pastor send them forth without some practical plan for a provision for themselves and their flock? It was but pioneer work, but without pioneer work such as fell to the lot of those early settlers, both clerical and lay, the development of the Northwest Provinces, and the dioceses and missions of the big Northwest, would assuredly have been much longer delayed. Bishop Anderson was primarily a Christian pastor, then a scholar, and believing in education as a most needed factor in all progress, he at once set to work to obtain for the young people of the settlement, for the sons and daughters of his clergy, and those of the officers of the Hudson's Bay Co., some larger measure of scholastic training than had ever been possible before. In this he, too, builded upon others' foundation-a fact he recognized and was very grateful for. Some day, an old pupil of those earlier days still, may tell the story of the first school established, I believe, by Mr. Macallum, as far back as the Dr. Anderson filled almost every office, forties. from principal to usher, in the St. John's College of that day, and his sister, who was the guardian angel of the Bishop himself, of his own three bright sons, and by looking after their creature comforts and smoothing over a thousand and one little difficulties, the guardian angel also of the pupils, the boys of St. John's and the girls of the sister school, St. Cross, a field's distance off. The writer can see clearly with her mind's eye-but probably less clearly from having seen her from time to time since-Miss Anderson crossing that field to the large outside storeroom built on the river's bank, followed by John Omond, the Bishop's farmer and factotum, or by his wife, who acted as cook and housekeeper for the boys; and she can see those naughty lads peeping through the chinks to find out what they were going to have for dinner, and passing on the bits of information to their comrades outside. Once it was, when an evil spirit of mischief possessed them, that they set up a derisive cry. the ringleader darting into the willows, hoping not to be caught: "Oh yes, give Mr. Thomas not to be caught : the shoulder, and give the boys the shanks and the neck !" They had never stopped to learn that the two latter were to make them some good wholesome soup, and that the "shoulder' page, and this little episode recalls the great thump upon the storm door was sure to be prompt difficulty it must always have been, especially in  $\beta$  in answering the summons. I caught that lean.

the spring of the year, to provide meat of any kind for those hungry young folks, both of St. John's and St. Cross. If it is the early bird which catches the worm, it certainly was those carliest at the gate of the settler who happened to have a calf to spare who got that calf, and often it was but such a little, little calf ! Still, worth having for the replenishment of a nearly empty winter storeroom. I have a mental vision of our own more especial storeroom now, as 1 write. Out of doors, of course, just opposite the old clay oven where our bread was baked and which had for its picturesque background a grove of thickly-grown trees. Directly Jack Frost began to reign, that big storeroom had to be packed and lined with food, which must last until spring. A whole poultry-yard had given up of its kind as its contribution to the winter's supply, and birds lean and birds fat, birds tender and birds tough, hung suspended from the rafters, pigs stood in rows like a regiment slain by one fell blow-each with its horrible long gaping wound, which it was always a comfort to know was given after instead of before it uttered its last despairing grunt; and where there were no pigs, there were sheep-long, scraggy, and seldom of a weight to win a prize at any cattle show (had Red River ever known of such a thing), for what farmer would care to fatten any " critter ' for which there was no direct market, and which, anyway, would just have to be killed when winter came round, as it would not pay for its keep? In the center of the floor was a big square flap, which could be lifted by a large iron ring. This led to the under cellar, upon the piled blocks of ice of which reposed, in the repose which knows no waking, hundreds of frozen fish and other smaller four-legged and two-legged creatures, which before the six or seven months were over would have vanished as if they had never been. The ice was put into the "hold" of our storeroom because it would be a boon indeed during the intermediate season, not because those poor dead things required anything to freeze them more stiff and stark than they were when the laden "sleds" brought them into their last long home in our storeroom. Beef was the only meat which was, so to speak, "drawn and quartered," suppose because the whole animal could not have been persuaded to enter the door and behave itself decorously by standing upon even two or three of its legs, as the other beasties did.

I could laugh now, in spite of my sixty-odd years, at the comical attitudes which those dead animals assumed as they stiffened into the position from which nought could move them, until after hours of gradual thawing in a somewhat higher temperature, and finally of repose behind the kitchen stove, they gave up the struggle, and by swift blows of the hatchet, followed by the masterful stroke of a sharp-bladed knife, they ceased to be either pig or sheep, but became pork or mutton for the students' table. There was one sheep which one winter had a curious fascination for me whenever I went, half awe-struck, half inquisitively, into that, to us, forbidden storeroom. t looked so comically like the man who once had owned it. Its right front foot was raised, with much the same stern air of rebuke which made the youngsters run from its still living master; it looked as if it would have shaken its reproachful head, as he so often did; but, alas! it would never shake it more, in fact, it looked as if it had died having the last word, anyway. One crisp winwas to be placed before Mr. Thomas to carve for ter's day, a wave of resistless fun swept over me, them. I wonder if amongst the older folks of the though I knew its penalty if caught. The owner Winnipeg of to-day there are any who were of that sheep was expected. We had no such amongst that mischievous crowd? One thought thing as door-bells in those days, and I knew that brings back another as my pen runs over the she who was on the watch to respond to the first

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lank, reproachful-looking sheep in my arms dragged it over the snow to that door, propped at up against the panels and hid around the corner to watch it fall prone into the arms of the disgusted handmaiden. I will let the curtain drop upon the tableau; but, indeed, in a place where nothing ever happened, even that "game was worth the candle.'

My readers, please forgive all this digression. I began with a bishop, and have ended with a dead sheep. Moreover, if I am to continue my little records from time to time, you will have to make the best of me and my memories. I cannot promise to be less erratic in the next issue than I have been in this, for a remembered face suggests a remembered incident, and out of an inci dent grow many remembered faces, and so it may be that to those who only know the Winnipeg of to-day, with its electric cars and its telephone wires, with its parks and its markets, and its public buildings, with its many churches, its opera houses, and its hotels, these old-time trivialities will be but dull reading. But there may be some old friend or comrade still living-left, as I am, with little but the old memories of the long ago we spent together--who may take the "Farmer's Advocate," and for old sake's sake may read with interest and share in the retrospects scribbled from time to time in its pages H. A. B by-

# When Woods are Green.

Pleasant it is when woods are green And winds are soft and low, To lie amid some sylvan scene, Where the long drooping boughs between Shadows dark and sunlight sheen

Alternate come and go.

The green trees whisher low and mild, It is the sound of joy ! They were my playmates when a child, And rocked me in their arms so wild

Still they looked at me and smiled As if I were a boy

-I.ongfellow

# A Chapter on Vegetables.

Potatoes come from far Virginia ; Parsley was sent us from Sardinia French beans, low growing on the earth, To distant India trace their birth ; But scarlet runners, gay and tall That climb upon your garden wall-A cheerful sight to all around-In South America were found. The onion travelled here from Spain ; The leek from Switzerland we gain. Garlic from Sicily obtain ; Spinach in far Syria grows ; Two hundred years ago or more Brazil the artichoke sent o'er, And Southern Europe's sea-coast shore Beet root on us bestows. When 'Lizabeth was reigning here, Peas came from Holland, and were dear. The South of Europe lays its claim To beans, but some from Egypt came. The radishes, both thin and stout, Natives of China are, no doubt; But turnips, carrots, and sea kale, With celery, so crisp and pale Are products of our own fair land And cabbages, a goodly tribe, Which abler pens might well describe, Are also ours, I understand. -London Young Folks' Rural

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# GOSSIP.

**GOSSIP.** Mr. Edwin Battye, of Gore Bay, writes a very favorable account of the crops of that locality. Considering the heavy ratus of the last few weeks, the out-look is good. Hay will be piculiful, but about ten days later than usual. Grass seed has got a spiendid catch. Potatoes are looking very promising. In fact, call crops will be up to the average or over. Pasture is extremely good, and conse-quently cattle are putting on flesh in a very satisfactory manner. Sheep and stockers average about 3c. per lb. live weight. weight

Battye also reports a number of sales of pure-bred Shorthorss, Animals of the right type are in demand. Dur-ing the first week of the present month Mr. Battye sold four of hir valuable Ing the instance of the preserved month Mr. Battye sold four of his valuable herd to Mr. Jas McCutchton, Tekumoh Manitoulin, maniely (Miss County 10th (1995), by Rosario (2517) (This heifer won 3rd prize at the Lunodn shire Show in England, 1961) (Shi i a heart-girth, Ladysmith (1985) (Engl Lady Gordon (238536), holt they heifers are red, very thick-fleshed and short-legged. The heifers are with car-by Royal Emperor (inc.), herd by W S. Marr, of Eppermill, Mr. McCutches bought as a stock bull, Winsome Arches S. Marr, of Uppermill. Mr. McCurchiese bought as a stock bull, Winsome Archie imported in dam, out of Winsome Beauty 3rd, by Archibald, by Scottish Archer, out of a Sittyton Lavender cow bred by Mr. Duthie. With stock of that class for a foundation we will expect to hear favorably of Mr. McCutchion's herd from time to time. During the

same week Mr. Coats, Barrie Island, also bought the young red bull, Duke of same week Mr. Coats, Barrie Island, also bought the young red bull, Duke of York, out of Matchless of Elmhurst 26450, by Gordon Prince 29942. Lasides these, Mr. Baitye has, since he returned from Scotland last September, nade the following sales. Mr. Ed. Beck, Gore Bay, five cows and three caives. Mr. Arthar Johnston Ont, one yearline hifer, Duchess of Gloster, and one calf. Mr. Thos Ingram, Manito-waring, one cow, Passy Elgen, and a Crimson Flower heder, out of Crimson Fuchsia 9th, by Prince Craickshank 2nd, fle also sold one bull to each of the toilowing Messis. S. Wilson, W. berketton, J. Brown and J. Blakley, all of Manitoulin Fland Mr. Battye still ha alont forty haid and quife a number of the younger individuals of both seves are for sale

THE IOWA FIFFDINC TFST-As he time approaches for the final report of the lowa College experiment with interent supplementary loads, the Inter-national Stock Food Company wish it on the destinity understood that at no escond dat they claim to be able to give escent results on stock handled by an version call college as when fed by the excent support. Although realizing they were start disputs a stock when invited 1111 then she and when invited lyen eds to be the test 400 bet found wir subshed free of ken eds to be the test, 400 ock found was studied free of ether the use test therefore, ternational these on the list, letors write a that they are 11.5 show the j



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# THE FARMER'S ADVOCATE.

# G3331P.

GOSSIP. H. R. Lambert, Kennell, Assa., recently called at this office on his return from an ex-tended trip among the leading breeders of pure-bred stock in Ontario and the Eastern Provinces. He concluded, after inspecting the Eastern stock, to purchase in Manitoba, as he found he could secure stock better suited to his purposes. Consequently, he selected two Hereford bulls from the herd of J. A. Marples, Deleau, Man. Mr. Lambert ranches somewhat extensively, running 180 head of grades, 15 pure-bred Herefords, and 75 head of horses. He is breeding heavy horses, using pure-bred Clydesdale stallions. The Herefords are giving the best of satisfaction, and the bull, Valen-tine, bred by Sir Donald A. Smith, purchased a few years ago through Wm. Sharman, has proved a very prepotent and useful sire.

time, breed by Sir Donald A. Smith, purchased a few years ago through Wm. Sharman, has proved a very prepotent and useful sire.
J. E. Marples, the Hereford breeder of Delean, Man, writes us under recent date: "Shortly after advectising the dispersion of the Poplar Grove Herefords, I decided not to break up the herd, but to sell the surplus stock only. Applications for Herefords of both sextes have been very numerous, and the season's sales from this herd amount to fifty head at satisfactory prices. The herd being now reduced to some seventy-five head, the natural increase will som, however, bring it up to the old number. I have retained the cream, including nearly all of my show herd, although I shall no have time to exhibit this season. My grand young stock buil, Duxmoor Ingleside, by the Pan-American sweepstakes bull and the imported over, Duxmoor Brenda, is developing most satisfactorily, and giving me some grand calves. I intend to keep the herd up to a high standard, seend to note in the Dominion. The principal purchasers this season are as follows: J. F. Parker, near Lethbridge, twenty-two head to form the nucleus of a Hereford here being established in Alberta. His selection comprised a splendid lot, all young, and included a few hull, have figured successfully in the show-ring, notably My Valentine, many times a prizewinner at the Winnipeg Industrial. The built, Harold of Poplar Grove, selected to head the herd, is a grand one, and was also shown at Wminge last year as a calf. He is low, very thick, heavily quartered back and front, and standard sign, where are also here also be shown at Wminge last, year as a calf. He is low, year stands upon a splendid set of legs, with an exceedingly meat and well-poised head, and, like his noted size. As and enorths old calf a grand one, and was also shown at Wminge last, year as a calf. He is low, year stands upon a splendid set of legs, with an exceedingly meat and well-poised head, and, like his noted size. May doring the solid calf a grand one, and a s



He, too, is a Shorthorn admirer, voicing in every way Mr. Taylor's sentiments. Mr. Moore at present has seven fine animals, three bulls, three heifers, and one cow. Just now he is adding principally to his own stock, but hopes in the near future to be able to put some choice animals on the market. Some breeders say Shorthorns, others Here-fords, and still others Holsteins, but Mr. John Turner, of Carroll, prefers the Polled Angus, He has a number of this breed, and they are all in first-class condition. He claims them to be equally as good rustlers as the Herefords, easily kept, and preferable as fat cattle in the American markets. Possibly Mr. Turner's preference for them is derived from the fact that he has been always able to place his young stock, male and female, to a good ad-vantage, never in one instance having to keep over anything that was put on the market for sale. He does not claim them to be first-class milkers, but so long as a cow gives nilk enough to raise a calf properly, it is satisfactory to him, and the easy way in which the stock can be kept makes up for all defects in the milking qualities. Each year will see an increase in this stock, and before long possibly one of the best kept herds of Polled Angus cattle will be found on the farm of John Turner, Carroll.



# A POPULAR MILLING COMPANY.

A POPULAR MILLING COMPANY. The Victoria Daily Colonist of June 15th has a page devoted to the Brackman-Ker Milling Co., whose headquarters are in Victoria, with branch mills at New Westminster, B. C., and Strathcona, Alberta, besides receiving cleva-tors at Leduc, Wetaskiwin, Lacombe and Red Deer, Alberta, and distributing warehouses at Vancouver, Nelson and other points. The various nills, elevators and warehouses of the Company are pictured, including those in Alberta, but the picture which brings out most strongly the far-reaching enterprise of the firm is a view of the recent loading of oats at Van-couver for South Africa. The enterprise of this firm in demonstrating the value of Alberta oats, and in pushing for markets both for the finished product in its highest form of rolled outs and for the raw material, has been most beneficial to this district. Everyone in Alberta wishes the B. & K. Company continued abun-dant -necess, - [Edmonton Bulletin.

# IN THE ELGIN DISTRICT.

IN THE ELGIN DISTRICT. Jos. Taylor, Elgin, Man., has for the past years devoted a portion of his time and done to the breeding of Shorthorns. At the has sixteen pure-breds, including bedkers, ten heifers, and one bull. During years actual experience, Mr. Taylor has of the stock farms of several breeders of these of stock, but he has, as yet, found the all new firmly believes them to be the all new for them at any time in the year. I for them at any time in the year of or them at and beef eattle, cross-with other breeds, and easy feeders. Short has had no difficulty in disposing of there he has had raised. He keeps his bood condition, and is very careful to beeding. The also takes a great pride and at present has three fine Clydes-the taises them principally for his believing them to be the best all an horses.

MONTREAL.

NEW YORK.

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TORONTO.

Please <sup>a</sup> horses, breeder gradually wending his way mence is Mr. Jas. Moore, Beresford,

out modern machinery perfect success cannot be attained. With a DE LAVAL Separator any dairyman is assured of having the very best creaming apparatus in existence, both as to clean skimming and durability, which are the vital and all-important points to be considered in a Separator.

VALUABLE Booklet-"THE SOURCE OF GOOD BUTTER"-tells all the various requirements necessary to make dairying profitable -- mailed free on receipt of your name and address on a post card.

SEPARATOR

The DE COMPANY, Offices, Stores and Shops : 248 McDermot Ave., Winnipeg.

Mention Farmer's Advocate.

Ganadian Northern Rail'y \$45.00 WINNIPEG TOVictoria and Vancouver, B. C. AND RETURN,

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On sale July 11th to 15th. Good for 60 days. Stop-overs allowed.

For further information apply to any agent of the Canadian Northern Railway, or to

GEO. H. SHAW, TRAFFIC MANAGER, WINNIPEG. PLEASE MENTION FARMER'S ADVOCATE

# THE FARMER'S ADVOCATE

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PRINCESS ST., WINNIPEG, MAN



# YOU Horse Collars NEED

Get the best when you are buying

# PERFECTION BRAND

are the best. They are hand stuffed and hand-sewn. They are stuffed with long straw, not short stuff cut up and fed in through a ma-chine. They do not break in the throat, as our solid long straw throats will not break. Try a pair of these

# Black-Leather Rims and Back RUSSET-LEATHER FACE.

Sent, express prepaid, to any address in Mani-toba for 81.34 per pair; Ontario, Assiniboia, and Saskatchewan, for 85.004 Alberta, for 85.25 per pair. Good large bodies for heavy farm work. Satisfaction guaranteed.

Brown Back 11-inch Sweat Pads, 75 cents per pair.

A. E. WIMPERIS,

592 MAIN STREET,

WINNIPEG, - MANITOBA.

THE FARMER'S ADVOCATE. PLEASE MENTION

PERFECTION BRAND

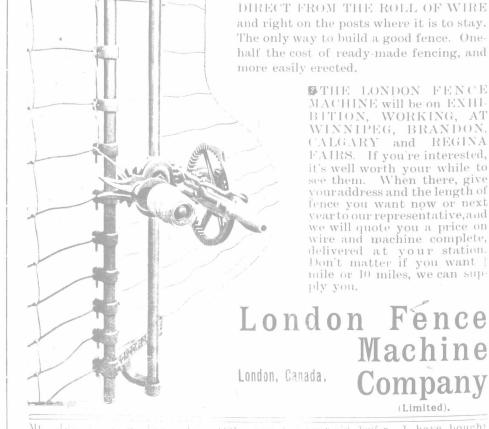
HAND MADE

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A.E. WIMPERIS 592 MAIN ST

WINNIPEG.

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and right on the posts where it is to stay The only way to build a good fence. Onehalf the cost of ready-made fencing, and more easily erected.

> STHE LONDON FENCE MACHINE will be on EXHI-BITION, WORKING, AT WINNIPEG, BRANDON, CALGARY and REGINA FAIRS. If you're interested, it's well worth your while to see them. When there, give youraddress and the length of fence you want now or next year to our representative, and we will quote you a price on wire and machine complete, delivered at your station. Don't matter if you want | mile or 10 miles, we can supply you.

# London Fence Machine London, Canada. Company (Limited).

I have bought Nelson, Ont. Mitchell & Son, Nelson, Ont. tred bull, Prince William, to herd He is a large, massive is good quality, and should good stock buil. There has good demand for Shorthorns, prices. ir prices.

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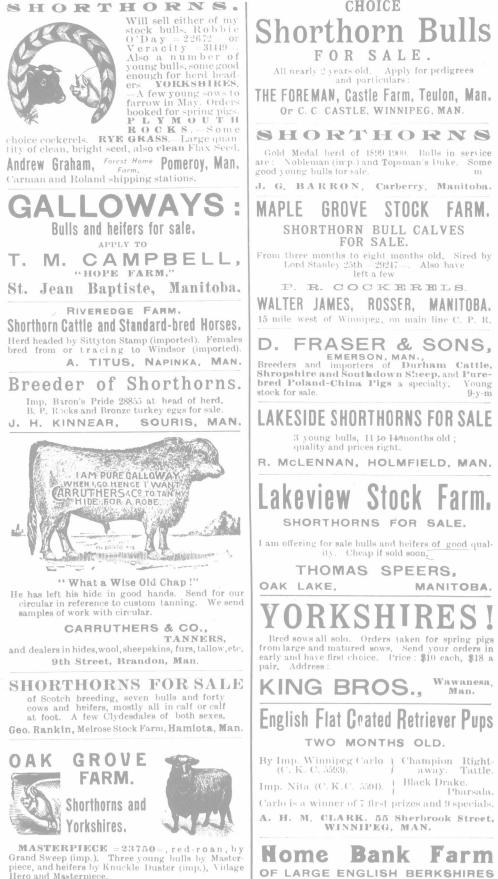
# THE FARMER'S ADVOCATE.

# FOR SALE: OF ALL AGES.

WING to lack of range, we have decided to cut our herd of draft horses down to one-half and sell 2,000 head at greatly reduced prices. This great selection of mares, geldings and growthy youngsters of all ages represents the results of seventeen years of judicious mating to strictly high-class Percheron, English Shire, Clydesdale and Hackney sires. We can furnish high-grade brood mares and fillies with foal to imported and home-bred registered stallions, and have always on hand a large and first-class selection of registered and high-grade Percheron and English Shire stallions, also registered mares and fillies of same breeds. Correspondence solicited. Inspection invited.

# LITTLE MISSOURI HORSE COMPANY, GLADSTONE, NORTH DAKOTA. W. G. CLARK, SUPT. Alex. Galbraith, JANESVILLE, WIS., and BRANDON, MAN., Importer of the best class of for the last twenty years. Has supplied 75 per cent. of the Manitoba trade during last season, New importation of winners will arrive September 1st. Don't miss seeing them. JAMES SMITH. AGENT, Beaubier House, BRANDON, - MANITOBA.

OGILVIE MILLING CO. W. W. BY ROYAL WARRANT MILLERS TO H.R.H. PRINCE OF WALES Ogilvie's ASK FOR ngarian, THE WORLD'S BEST FAMILY FLOUR. MARCHMONT STOCK FARM, W. S. LISTER, BREEDER OF..... MIDDLECHURCH, MAN SCOTCH SHORTHORNS



Hero and Masterpiece. Improved Yorkshire sows in pig. Boars fit for service. Orders booked now for young pigs. Pairs not akin.

White Plymouth Rock eggs. JAMES BRAY, LONGBURN, MANITOBA.

Are still to the front. Some grand sows, bred for the spring trade. Have two fine litters read to ship about March 15th. Now booking orders. Call or write for prices.

553

CHOICE

FOR SALE.

Or C. C. CASTLE, WINNIPEG, MAN.

SHORTHORN BULL CALVES FOR SALE.

P. R. COCKERELS.

3 young bulls, 11 to 14months old ; quality and prices right.

SHORTHORNS FOR SALE.

THOMAS SPEERS,

UKKSHIKES

TWO MONTHS OLD.

MANITOBA.



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# THE FARMER'S ADVOCATE

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# WOULD RESPECTFULLY CALL ATTENTION TO

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which for cheapness, durability and ease of application for dwellings, stores, factories, barns, stables and outhouses, steep or **FLAT ROOFS**, cannot be equalled. It has been tested for the past eleven years, and its qualities—wind and water proof, and resistance to severe frost contraction—have established it as second to no other roofing material. It is manufactured in Canada, especially to meet climatic conditions here. The C. P. R. use it in large quantities from Winnipeg to Van-couver and Fort William. This roofing does not need any wires or other strings to hold it together.



W. G. FONSRCA, ESQ.: Dear Sir, -I have no hesitation in stating that the "All Wool Mica Roofing" handled by you is a first-class material. Our new office at the mill, oatmeal mill, engine house, and roof over the new engine at the mill, have all been roofed with this material, and it has given gccd satisfaction. (Signed) W. W. OGILVIE MILLING CO. F. W. Thompson, Gen Mgr.

Mica Paint No. 3 preserves tin roofs, covers well, will stop, without fail, leaking throofs as nothing else can do. Mica Paint No. 2 preserves shingles from warping, splitting, gathering moss; will not rust, crack or peel off.

For leaflets and samples apply to W. G. FONSECA, WINNIPEG. 176 HIGGINS AVE. REAL ESTATE AGENT AND ISSUER OF MARRIAGE LICENSES.



# BEAR Western Manitoba's **Big Fair**

IN

# BRANDON

July 29, 30, 31, August 1, 1902.

Everything and Everybody will be there If you miss it you'll regret it.

# Great Exhibits

Mr. W. Harding, of V model is W move on this have been first in row class so far this year. Refain, writes f = 0.1, Denne W move refersion. The Kurnisshowing a good two year old herefy and Geo Harrison's Electric 6th, sume alloc, is write the showing of the move of the write is showing a good two year old herefy and Geo Harrison's Electric 6th, sume alloc, is write to be a first in the Kurnish for the move of the move of the move the two year old hull to the two writes to the move of the show of the two year of the move of the show of the move of the show of the two years of the show of th

(a) Inge with excess by Silver about numbers. Brass and Nation laboutes T Hobbs in a gate to what waves south the first of marker with held Winner of the latt. Thought are south to helters is a Mr. 17 ft of the cutsman. What is er Plate, dam the dam of Spicy Robin, non Magnet, also by Silver Plate, dam ow of the Cruickshank Crocus family, errs comprise a Levender, Crocus, Jealon-y, Dainty and Victoria, and of Mr. Willis best. Four are by Silver contly leased to the Shorthorn herd at or houghing for six months.

THE	FAF	MEF	'S A	1DV	OC	ATE
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IMPORTANT COMBINATION SALE OF 65 HEAD OF

# **High-class Shorthorns**

# IMPORTED AND CANADIAN-BRED, SCOTCH AND SCOTCH TOPPED

AT AUCTION IN THE NEW SALE PAVILION OF THE HAMILTON STOCK-YARDS COMPANY, HAMILTON, ONTARIO, ON

# Wednesday, August 13th, 1902.

THE CATTLE ARE ALL YOUNG OR IN THE PRIME OF LIFE, AND ARE SELECTED FROM THE FOLLOWING WELL-KNOWN HERDS:

W. D. FLATT, Hamilton, 10 Head. ROBERT MILLER, Stouffville, 10 Head.

JULY 21, 1902

W. G. PETTIT & SON, Freeman, 12 Head. J. M. GARDHOUSE, Highfield, 5 Head. JAMES DOUGLAS, Caledonia, 5 Head. GEORGE AMOS, Moffat, 6 Head. A. C. PETTIT, Freeman, 4 Head. 555

CAPT. T. E. ROBSON, Ilderton, 6 Head. H. SMITH, Hay, 5 Head.

Included is imported WANDERER'S LAST = 36129 = (80213), chief stock sire for the last two years in the herd of Captain Robson; also the imported Kinellar Claret bulls, PRINCE GEORGE (79620) and SCOTTISH HERO (79921), and a number of first-class Canadian-bred bulls. The females of breeding age will have calves or will have been bred to the high-class sires in the several herds represented. Look for notes in Stock Gossip.

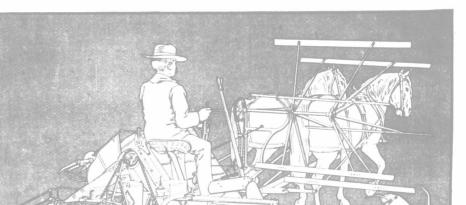
Catalogues will be issued in due time, for which applications may now be booked with

MR. W. D. FLATT, MANAGER, HAMILTON, ONT.

AUCTIONEER : COL. F. M. WOODS, ASSISTED BY CAPT. T. E. ROBSON AND OTHERS IN THE RING. -----

The	Man	Who	Buys		5
THE	M	cCOF	RMICK	BINDE	

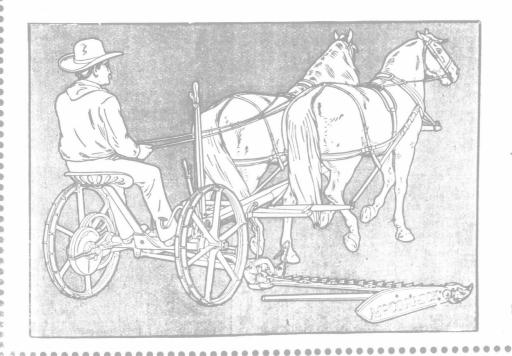
has the satisfaction of owning A BINDER that gives him FULLEST VALUE for his money



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For seventy years THE MCCORMICK CO. has been prominent in manufacturing harvesting machines, and for the season of 1902 presents the unequalled MCCORMICK line,



# comprising the

BEST BINDER, BEST REAPER, BEST MOWER, BEST HAY RAKES, BEST CORN BINDERS, BEST SHREDDERS, and the BEST TOOL AND SICKLE GRINDERS.

The McCormick Agents are in all the

Principal Towns in Manitoba and Territories.

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GENERAL AGENT,

PRINCESS STREET, - - WINNIPEG, MAN.



# THE FARMER'S ADVOCATE.

GOSSIP.

THE GREAT SHORTHORN SALE TO MATERIALIZE AT HAMILTON, AUGUST 13TH.

AUGUST 13TH. It is safe to say that never before in Canada were offered at public sale so many high-class Shorthorns, selected from so many noted herds, and com-prising so great a variety of representa-tives of first-class families and strains of blood, as will be found in the offer-ings from the seven fine herds drawn upon for the combination sale to be held at Hamiltor, Ont., on August 13th. And from what is known of the charac-ter of these herds, it is safe to predict that in combination with this variety there will be found uniformity of ex-celience of type and quality in high degree, for the reason that besides the large percentage of imported animals of degree, for the reason that besides the large percentage of imported animals of similar breeding and stamp included, there have been used in each of the herds for many years, and in most of them from the date of their establish-ment, only first-class bulls of like breed-ing and pattern. Never has as good an opportunity been afforded farmers and young breeders in this country to lay the foundation of families or herds on a sale and sound basis than will be found in this sale. Much depends upon start-ing right. It is not unusual to find the progeny of one cow selling for thou sale and sound basis with the her sound in this sale. Much depends upon start-ing right. It is not unusual to find the progeny of one cow selling for thou-sands of dollars more than that of another in a given number of years, a fact which emphasizes the importance of a good selection of foundation stock and of following it up by the use of well-selected sizes as to breeding and stamp. There has never been a more promising or propitious time than the present for starting in the business of breeding pure-bred stock, or for secur-ing good bulls for service in grade herds to improve the form and feeding qual-ities of the cattle on Canadian farms. Good cattie are scarce, and are getting scarcer every year, while the demand for such was never better nor the prices higher, while the prospect is clearly for a continuation of good prices for good cattle, and they are the only sort that pay a reasonable profit on their feed and the cost of raising them. There is every prospect of a bountiful supply of good feed in the country this year, and there is room for a few more good cattle in most of the pure-bred herds in the better for an infusion of new blood such as may be secured at the Hamilton sale and which will tell for good on the character of the herds into which the animals go. The catalogue of the sale is not to hand at this writing, but in a general way the offering may be summarized : MESSIRS W. G. PETTIT & SON have

MESSRS. W. G. PETTIT & SON have sent us their private herd catalogue, in-dicating the numbers they have con-tributed to the sale, which include the two imported Kinellar Claret bulls, Prince George, a red three-year-old, by Director, by the Prince Royal bull, Prince Horace, his dam by Sittyton Sort, and gr. dam by Gravesend; and Scottish Hero, a roan two-year-old, by the Duthie-bred Count Amaranth, who belongs to the same family as the famous Field Marshal; dam by Kintore Hero, of the Ythan tribe, with clan Alpine, Gravesend ard Vermont as sires behind these. Of the ten females from this herd in the sale, eight are imported animals, from one to four years old, and representing the Cruickshank, Orange Blossom, Fragrance, Flora, Kilblean Beauty, Jealousy, Jilt and Bessie tribes, and having for sires such noted bulls as the Duthie-bred Sittyton Prince, of the Cruickshank Victoria tribe; Craibstone, of W. S. Marr's Bessie tribe, by William of Orange; Spicy King, bred by Mr. Marr, from the Uppermill Goldie family, by Spicy Robin, whose dam was by William of Orange; Reveller, bred by Mr. Duthie, from the Uppermill Roan Lady tribe; Red Light, of the Gordon Castle Lustre tril e: the Marr Missie bull, Lord Hamp-ton, by Deane Willis' Baptor Czar, and belisarious, by the Prince Royal sire. MESSRS. W. G. PETTIT & SON have MR. ROBERT MILLER'S 10 head are all Scotch-bred, representing a number of popular families, and all young animals of high-class individual merit. ton, by Deane Willis' Baptor Czar, and belisarious, by the Prince Royal Prince Horace, a son of the noted Wil-liam of Orange. MR. JAS. DOUGLAS, of Willowbank Stock Farm, Caledonia, Ont., contrib-Stock Farm, Caledonia, Ont., contrib-utes five very choice heilers of excel-lent families. Mirth 13th, by Duncan Stanlev =16364 $\pm$ , and out of Mirth 11th -25194 $\pm$ , is a very short-legged, thickly-fleshed roan two-year-old, with call to Imp. Christopher  $\pm 28859$ Victoria 17th is a red two-year-old heiler of exceedingly smooth finish and good size, by Imp. Christopher 28859, and out of Victoria 8th = 16080 $\pm$ , one of Mr. Douglas' best cows. Queen Alice, a yearing, by Imp Christopher 28859, and out of Lady Clare 296121 : is a grand individual and gives promise of making a particularly good show heiler She is large for her age, very smoothly fleshed, and has a thuity appearance, which speaks well for her future. El-githa 32nd, by Imp.Christopher, and out of Lieutha 8th  $\pm 16758 \pm$ , is a real near yearling, of a very good milking strain. Britannia 54th is a dark roan eight-mooths-oid cali, and to all appearance will make a grand show animal. She is of pleasing form, thickly fleshed, and stard on good, straight strong legg, rightly clared She is suid by Imp. Christopher 2859, and out of Brit-mooths-oid cali, and to all appearances will make a grand show animal. She is of pleasing form, thickly fleshed, and stard on good, straight strong legg, rightly clared. She is suid by Imp. Christopher 2859, and out of Brit-mooth the The top sins of these is free are i ofted bulls, representing the changeon Topsuma, and Imp. utes five very choice heifers of excel-



2 Hackney stallions, large, handsome, high-steppers, well broken to drive.

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Size, action and quality com-

O. SORBY, GUELPH, ONTARIO.

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handy man. Can't leak, and most dur-ably economical.

Up-to-date farmers praise them en-thusiastically.

and easily applied by

Metallic Roofing Co., Ltd. TORONTO MONTREAL WINNIPEG Winnipeg Address P. O. Box 542. ...................

What shrunk your woolens? Why did holes wear so soon? You used common soap.



IMP. COTSWOLDS SE Five rams (year olds), both 10 ewes (year olds), sire imp. both sexes; Yorkshire and Ta BROOKS & LANGMAID, COU

# PLEASE MENTION FARMER'S AD

M

he noted American champion bull, St. Valen tine ; two daughters of the imp. Duthie-bree bull, Prime Minister, and a Cruickshank Match

MR, J. M. GARDHOUSE includes in his

MR. HARRY SMITH contributes 5 heifers and 1 bull, all Scotch bred, of the excellent families and by the high-class sires that have figured so successfully in his grandly-bred herd and in the principal Canadian shows in reacht years. recent years.

MR. AMOS and MR. A. C. PETTIT are young breeders who are winning their spurs, having commenced right by putting in sound and select foundation stock of approved stamp. The former will sell 6 head, two of which are imported and the balance nicely bred, being deep in the best of Scotch blood lines. Of the four head contributed by Mr. Petiti, two are imported and the other two bred from im-ported stock. Further reference to these offer-ings may be expected in the August 5th issue of the "Advocate." In the meantime all interested will do well to apply early for the catalogue as the indications are that there will be a very large demand for it, Mr. Flatt, who has the management of the sale in hand, having already received applications from a very widely-extended territory, including most of the Provinces and many of the States. MR. AMOS and MR. A. C. PETTIT are

# LADY OF THE BOYNE 5TH AND MISTLETOE 21ST.

LADY OF THE ROYNE 5TH AND MISTLETOE 21ST. In this issue we publish photo engravings of two contributions by Mr. W. D. Flatt to the great combination shorthorn sale in Hamilton on August 13th. The beautiful Missie bred march 30th, and bred by Wm. Bathle, out of Mistletoe the one of bis best cows, and by Nonparell Victor (1971), get by Deane Willis' celebrated Victor in bull, Comm Victor. The other cow performed, bull, Comm Victor. The other cow performed, bulk comm Victor. The other cow performed by Robt. Turner, Canton of Beynelic, Performed by Robt. Turner, Canton of Beynelic, Performed by Robt. Turner, Canton of Beynelic, Performed by Mr. Performed Wills' sale for S 2000, now should be Robt. Turner, State for S 2000, now should be Robt. Turner, Sale for S 2000, now should be Robt. Turner, State for S 2000, now should be Robt. Turner, State for S 2000, now should be Robt. Turner, State for S 2000, now should be Robt. Turner, State for S 2000, now should be Robt. Turner, State for S 2000, now should be ready for the show of sale for S 2000, now should be ready for the theory by Communication of head in the show of t

at Chicago on December 1-6, have made at chicago on becember 1-0, have main some notable changes in their rules. All compulsory slaughter tests are abolished, but in order to encourage the exhibition of animals fitten to win both on foot on block, prizes awarded any animal that wins in both classes will be doubled by the Exposition authorities. The following changes were also made: The following changes were also made: The classes for rams and ewes two years old or over are dropped, which changes the flock to consist of one ram under two years old, two ewes under two years, and two ewe lambs. This necessarily restricts the age of the champion ram and ewe, which has formerly been allowed to any age. In the fat sheep division, the second and third prizes for Dorsets, Cheviots and Bambouillets are dropped and the Rambouillets are dropped, and the

Rambouillets are dropped, and the money-from these classes divided among the other classes in the fat division. In the carload lot classes the new classification reads carload lots of na-tive sheep bred east of the 98th degree of longitude. A new class is made for range-bred sheep, limited to sheep bred west of the 98th degree of longitude The range car lot classification is two years old and over. S100 for first prize and \$500 for second ; one year and under two years, same amount. The champion carload will be taken from the native division and be made sweepstakes cham-pion carload of the show.

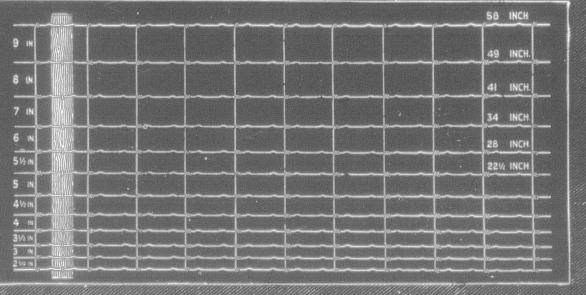
THE FARMER'S ADVOCATE

# MANUFACTURED IN CANADA BY., THE Canadian Steel & Wire Co, LIMITED., HAMILTON, CANADA.

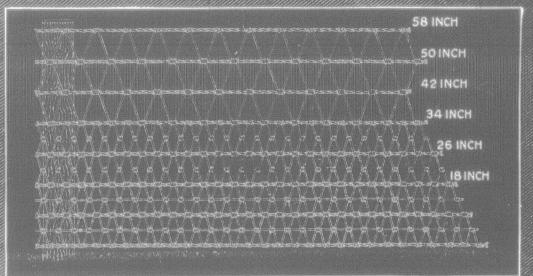
The best selling because the most satisfactory

Wire





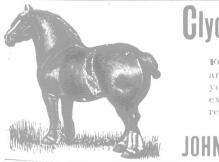
AMERICAN FIELD AND HOG FENCING All slyles and heights have stays 12 inches or 6 inches apart.



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# ELWOOD FIELD AND FARM FENCES. Six styles: heights 18 inches to 58 inches.

If there is no agency for either of these fences in your town, write for the agency. DDDD It is worth having



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# Clydesdales and Shorthorns

FOR SALE: Seven choice young stallions, and several young mares and fillies. Five young bulls and bull calves, and thirty-five excellent young cows and heifers. Mostly registered in the American Herdbook.

# JOHN BRIGHT, MYRTLE, ONTARIO.

# GOSSIP. JURSEY ISLAND TESTS.

Engl May by V Feu. 12 0  $W \in \mathfrak{H}_{p^*}^{\mathrm{cr}}$ 

American weight. The silver medal was won by P. J. Ahier's Lady Dorothy 2nd ESEY ISLAND TESTS. 4993, who gave 32 lbs. 12 ozs. of milk, Lutter tests conducted by the which made 2 lbs. 5% ozs. of butter, every Cattie Society at the R. Island weight, equal to 2 Hzs.  $9\frac{3}{4}$  ozz. The yield to 3 lbs. 6 ozs. Island with the butter made in twenty-was 3 lbs.  $\frac{3}{4}$  ozs. Island with the butter to 3 lbs. 6 ozs.  $\frac{3}{4}$  ozs.  $\frac{1}{4}$  ozs.  $\frac{1$ 



# STALLIONS AND MARES. A new importation of

# Clydesdales, Shires and Hackneys

will arrive about the end of August.

Mr. James Dalgety is now in Great Britain making selections. The character of the last consistment will give an idea of the high class of horses they im-port, and the next shipment will be the best they have ever made, a number of prizewinners having already been secured by the firm. Intending pur-chasers should not miss seeing this consignment, om

DALGETY BROS., London, Ontario, and Dundee, Scotland. LARGEST IMPORTERS IN CANADA.

Fencing

gave in twenty-four hours 42 lbs. She  $6\frac{1}{2}$  ozs.; Oxford Ixia 3rd 8584, 2 lbs.  $4\frac{1}{2}$  belong d to C. J. Labey. The only ozs.; Cora 4th 7535 2 lbs.  $9\frac{1}{2}$  ozs.; Other cow giving over 40 lbs. was Patent 2nd 8120, 2 lbs.  $\frac{1}{2}$  oz . Brave Fancy's Rose 8277. The only other cows Lady F. 86415 2 lbs.  $\frac{1}{2}$  oz . The thirty-codified with 2 lbs. or more of butter in five cows yielded an accure of 29 lbs twenty-four hours, given in Island, 112 ozs. or mole, 1 lb 122 ozs. (Land weights, besides the winners of the weight), equal to 1 lb 142 ozs. Amerimedals, were as follows: Fancy's Rose, can weight. The average time in milk 2 lbs.  $3\frac{1}{4}$  ozs.; Oxford Ixia 7100, 2 lbs.



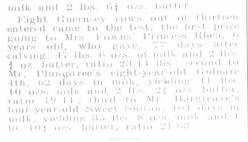
FOUNDED 7866



milk and 2 lbs.  $6\frac{1}{4}$  ozs. butter.







# OFFICIAL RECORDS OF HOLSTFIN-FRIESIAN COWS.

From June 16th to July 1st, 1902, FRIESIAN COWS. From June 16th to July 1st, 1902, four thirty-day records, one fourteen-day records have been accepted of the thirty-day records Belle Moore Zante 52126 leads; age, 3 years 4 months 28 days; days after calving, 9; mulk, 1,560,1 lbs; butter-fat, 54,827 lbs; equivalent butter 80 per cent, fat 68 lbs 8.5 ozs., or 63 lbs, 15.4 ozs 85.7 per cent, fat. Korndyke Queen 2nd 51089 follows age, 2 years 1 month 21 days; days after calving, 12 milk, 1,219.8 lbs; butter fat, 55 lbs, 7 1 ozs, or 51 lbs; 17,55 ac, 85.7 per-cent, lnka Parter, 75 merceds 515.55 was timed as a second can the 6 days. 1.1



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# AORSEMENT THE ONLY GENUINE IS AUSTIC BALSAN

JULY 21, 1902

# None gemane without the signoture of We Saurence, Williams Co-Sole Importers & Proprietars for the U.S.& CANADAS, U.S.& CANADAS,

U.S.& CANADAS, I CLEVELAND.O, The Safest, Best BLISTER ever used. Takes the place of all limiments for mild or severe action. Removes all Bunches or Blemishes from HORSes and Cattle, SUPERSEDES ALL CAUTERY or FIRING. Impossible to produce scar or blemish. Every bottle is warranted to give satisfaction. Prices 01.50 per bottle. Sold by Druggists, or sent by Express, charges paid, with full directions for the me. Send for free descriptive circulars. THE LAWRENCE-WILLIAMS CO., Toronto, Ont

# **ROSEVALE** SHORTHORNS Are of the up-to-date sort. We have for sale a number of young bulls and heifers of all ages. Marengo Heydon Duke (imp.) heads the herd. W.J.SHEAN& CO. Owen Sound, Ont.

Shorthorns and Berkshires Four young bulls, 6 to 12 months old. Pigs, 2 to 6 months old. Pairs supplied not akin. om MAC CAMPBELL, NORTHWOOD, ONT.

# SHORTHORNS (IMP.) Cows and heifers, imp. and home - bred. Bulls, imp. and home bred—all ages. Represent-ing the fashionable blood of

Scotland. EDWARD ROBINSON, MARKHAM P. O. & STN.

SHORTHORNS: We are offering 3 extra choice yearling bulls, all from imported sires, straight Cruickshank, with Lavendar and Miss Ramsden dams, THOS. ALLIN & BROS., Oshawa, Ont.

FOR SALE: <sup>5</sup> Scotch Shorthorn Durhams (bulls), 5 to 16 months; 5 young cows and heifers. Berkshire pigs, both sexes. Prices reasonable. "Camden View Farm." A. J. C. SHAW & SON, Thamesville P. O.

# & W. B. WATT, SALEM, ONTARIO (POST AND TELEGRAPH OFFICE), BREEDERS OF-

# Shorthorn Cattle, Clydesdale Horses, Leicester and Oxford Sheep, and Berkshire Pigs.

Our herd contains such families as Matchlesses, English Ladys, Mildreds, Village Buds, Missies, Stam-fords, Mysies, Vanillas, Clarets, and Marthas. The imported bulls, Scottish Peer and Coming Star (a prizewinner at Chicago in 1901), now head the herd. Farms 2 miles from Elora Stn., G.T.R, and C.P.R., 12 miles north of Guelph. om

SHORTHORNS, SHROPSHIRES, COTSWOLDS

We are now offering a number of heifers and heifer calves; a few bull calves; a number of cows; all bred in the purple and as good as the best. Also Shropshire and Cotswold sheep. -om JOSEPH BELL ESTATE, Bradford P.O. & Sta. SHORTHORNS.

# THE FARMER'S ADVOCATE.

# NOTICES.

LUMP JAW CURE .- Here is a remedy for lump jaw in cattle that is guaranteed to cure-" free if it fails," is the way the makers put it. There is no guesswork about the results where Fleming's Lump Jaw Cure is used, as it, cures in from one to three applications. It is easily applied, harmless and humane. Have also Poll Evil Cure and Cure for Spavin. Free information and book of testimonials from many users sent free to all who write Fleming Bros. 3¢ Frort street, West, Toronto, Ont., mentioning catalogue K.

mentioning catalogue K. WOVEN WIRE FENCING.—The up-the selection of fencing material, and justly so, for not only is the use-fulness of his fields increased when wise-ly fenced, but also a general attractive-ness has been added which is pleasing both to the owner and passer-by. When a genuine good ferce has beer built, the actual value of the farm has been in-creased far beyond the total cost of the work and material. The Canadian Steel and Wire Co., Limited, of Hamilton, Ort., furnishes many different styles of guaranteed up-to-date woven wire fen-fing. The "American Field and Hog Fence" is made by them. It is of six twelve inches apart, as required, ard makes a good serviceable fence. It is and can be attached to the posts at the rate of one rod per minute. The "Ell-observent styles. The lateral wires are coiled spring cables, with single-strand reinforcements, diagonally ar-ranged making a diamond mesh. Re-garding mesh, there are many sizes to fonce from, so that all requirements along that line can be satisfactorily met. It is claimed that 200 rods of this style of fence from, so that all requirements along that line can be satisfactorily met. This Company makes a specially of farm and railrond fencing, and fully realizing that the only sure basis of success is to be obtained by carefully selecting superior most approved lines, employing at all the stand constructing such on the most approved lines, employing at all the stand constructing superior material and constructing superior moter approved lines and prove a boon to wire-fence purchasers. Although the first of March. 1902, the first sea-or's output of their thoroughly-equip-ped factory will reach over 2,000 tons of wire fencing, proving that their effort is being appreciated by farmers and others. Interding wire-fence purchasers will do well to call at or write to the Ganadiam Steel and Wire Co. Hamilton, ont., whose announcement will be found escenter.

# GOSSIP.

**GOSSIF.** Volume 16 of the British Suffolk Flockbook has been received at this office, for which we are indebted to the kindness of the secretary. Mr. Ernest Prentice, 64 Orford street. Inswich, Eng-land. It is a well-bound and clearly-printed volume of 295 pages, containing registry of some 250 recognized flocks of pure breeding, and of 375 stud rams, besides a record of prizewinnings at the leading shows in 1901 and much other useful information concerning this breed, which has become very popular with English farmers.

At E H. Donchey's Shorthorn sale at Newton, Iowa, June 18th. the 53 head sold made an average of \$725. The 49 females sold for an average of \$754. At the sale from the herd of Martin Flynn & Sons, at Des Moines, Ipwa, June 19th, the 56 head disposed of made ar average price of \$445. The six-year-old cow, Canadian Duchess of Gloster 28th. bred by Thos. Allin & Rros., Oshawa, Ont., and sired by Imp. Indian Chief, sold for \$1,045, the high-est price made by any animal in the sale.

Good ones. Choicely bred. Moderate prices. Send for bull catalogue. Also Scotch-bred cows and heifers.

Shorthorn Bulls.

H. SMITH, HAY, ONTARIO. Exeter station on London and Wingham branch of the G. T. R. adjoins the farm.

# **Hillhurst Shorthorns** AND HAMPSHIRE DOWN SHEEP.

THERE are few herds on the continent that can boast of three as good stud bulls as Joy of Morning 153003, Scottish Hero 145553, and Scottish Beau 145552. These are all imported bulls, of the richest breeding, and right well do they reflect the possibilities of the future character of the Shorthorns being bred at Hillhurst. The breeding cows at Hill-hurst are of Scotch and English breeding, and are especially noticeable for their size.—Live Stock Indicator, May 15, 1902.

M. H. COCHRANE, COMPTON CO., P. Q.,

Q.T.R., 117 MILES EAST OF MONTREAL. 0m HILLHURST STATION.

# Scotch Shorthorns

# BREEDING FEMALES ALL IMPORTED.

Imp. Golden Drop Victor our present stock bull. Eleven young bulls and some young cows for sale at reasonable prices.

# H. CARGILL & SON,

Cargill Station, G. T. R. CATALOGUE FREE. OM Cargill, Ontario.

# JOHNSTON BREEDER AND IMPORTER OF

SHORTHORNS ONLY.

FOR SALE: Imported bulls and bull calves. Home-bred bulls and bull calves, from imported cows and by imported bulls. Home-bred bull calves. A large and excellent lot of young cows and heifers of various ages. -om GREENWOOD.ONT.. P.O. AND TELEGRAPH OFFICE.

PICKERING, G. T. R., 22 MILES EAST OF TORONTO. RAILWAY STATIONS : PICKERING, G. T. R., 22 MILES EAST OF TORONTO.



Shorthorn Cattle Lincoln Sheep.

HERD prize and sweep-stake at Toronto Industrial Exhibition, 1897 and 1898. Herd headed by the Marr

get of the great sire, Wanderer, of the Cruick-shank Brawith Bud tribe. High-class Short-horns of all ages for sale. Also prizewinning Lin-colns, Apply om

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T. E. Robson, ILDERTON, ONT

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From ly 7th next ular work of

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for a full or ee. PRINCH ML.

Fashionably bred, of both sexes and all ages. Nothing reserved. H. PARKER, Durham P. O. and Station,

LAKE VIEW STOCK FARM. SCOTCH SHORTHORNS, both sexes, all ages. As good as the best. Meaford Station, G. T. R. North, om Strathnairn P. O.

Maple Lodge Stock Farm. ESTABLISHED 1854.

SHORTHORNS .- First-prize milking strains, best Scotch breeding. Young bulls and heifers for sale, **LEICESTERS.**—A grand lot of ewes, bred to our imported rams, and a few choice rams, now for sale.

A. W. SMITH, Ailsa Craig Station, Maple Lodge P. O., G.T.R., 34 miles. ONT.

# W. C. PETTIT & SONS FREEMAN P. O., ONT.,

IMPORTERS AND BREEDERS OF

# Scotch Shorthorns and Shropshire Sheep,

Make a Special Offering for May and June:

 stock bulls, 3 years old, red; one crs, roan; two bulls imp. in dam, 15
 call calves from imp, cows, 12 and 11
 come-bred bulls by imp, bulls, 15 to 18
 five imp, and home-bred cows and Catalogues on application, om One of our imp. bull. months : fa months heifers, all

Burlington Jot., G.T.R. Stn., Tele. & 'Phone.

Mr. Jas. Daigety, of the firm of Dal-gety Bros., Dundee, Scotland, and Lon-don, Ont., has sailed for Great Britain for the purpose of bringing out another importation of Clydesdale stallions and mares, and a few Shires and Hackneys. The members of the firm in Scotland have already secured a number of prize-winning and hieb-class stallions and mares, to which will be added other selections of equal excellence, and from the experience and good judgment of the firm and the character of their former importations the coming consignment to arrive about the end of August may be expected to be of high-class quality. Intending purchasers should make it a point to see them early. Read their advt. advt.

Shorthorns, Berkshires, Leicesters Am offering at present the grand stock boar, Crown Prince; also some young ones. ISRAEL GROFF, ALMA, ONTARIO. Mercer's Shorthorns

Are represented by Missies, Stamfords, Floras, Claret Princesses, Red Roses, Fashians, Crimson Flowers, and Matchless families. Headed by Village Square 24963, a son of Abbottsford. Stock of both seven and



Rapids Farm Ayrshires.

REINFORCED BY RECENT IMPORTATIONS of 2 bulls and 20 cows, selected from female champions at leading Scottish shows last year. Imported Douglasdale of Dam of Aber, cham-pion at the Pan-American, heads the herd. Repre-sentatives of this herd won the first herd prize at the exhibitions at— om

Toronto, London and Ottawa in 1900, and at the Pan-American in 1901.

Come and see or write for prices.

Young Bulls and Heifers for Sale, bred from High-class Imported Stock.

A There and a state of the

# Robert Hunter, Manager

for W. Watson Ogilvie, Lachine Rapids, Quebec.

SHORTHORNS FOR SALE : <sup>6 yearling</sup> cows

H. E. HIND, Hagersville P. O. and Station, G. T. R. and, M. C. R.

all ages for sale. T. MERCER, MARKDALE P. O. & STN. Elmvale Station, G.T.R. Mount St. Louis P.O. om ARTHUR JOHNSTON, Vandeleur, Ont.

HIGH-CLASS SCOTCH SHORTHORNS

ROBERT MILLER, Stouffville, Ont.





# for \$1,500. The families represented by his purchase are of choice breeding, and should prove a valuable addition to his should prove a valuable addition to his herd. His first choice was the imported heifer, Buttermaid 2nd 138043, bred by W. T. Barneby, Saltmarshe Castle. Bromyard, England, by Hilarity, a son of Grove 3rd, and a grandson of Horace; her dam being Buttermaker, by Iro-quois, a get of Lord Wilton. His other selections were Garland 138256 and Dorothy 138233, bred by Capt. E. L. Heygate, Buckland, Leominster, Eng-land, by Fine Lad. Three heifers of Fine Lad's get were recently sold to His Majesty the King for the Royal herd at Windsor. at Windsor. Ridgevale Stock Farm, the property of Mr. R. W. Walker, breeder of Hol-stein cattle, is situated in the County of Ontario, five miles from Port Perry station on the G. T. R. and five miles from Myrtle station on the C. P. R. The present splendid herd was founded on the two richly-bred females, Madam B. 651, sired by Sir Westwood No, 12; dam Madam Dot, imp., whose milk record was 75 lbs, a day, and who cost her importers \$800.00. The other was Diploma 3rd, by Bonnie Queen's Last looy; dam Diploma, whose two-year-old mulk record was 40 lbs, a day. Her dam, Imp. Sykie, had a milk record of 75½ lbs, a day. Diploma 3rd belongs to the Bonnie Queen Strain, whose superior-ity as heavy milkers is well known. On these cows and their progeny have been used such well-bred bulls as Butter Boy 2nd, b: Butter Boy; dam Aalfie Posch 4th, who made five bs. of butter in three days, three weeks before she was two years old. Father Tensen, by Sir Archibald Mascot 353; dam Maud Ten-sen 11011, another noted record cow. The present stock bull is Forest Prince Abberkirk 1838, by Forest Prince 1106; dam Ida Abberkirk 1813. He is a big well-proportioned animal, and is leaving a splendid lot of straight, even, level-backed yourgstrs. The cows of the herd are a typical dairy-type lot, show-ing an exceptional development of udder, averaging row on grass alone from 60 to 70 lbs. of milk a day: also, three-year-old heifers of the Diploma family, and by the stock bull, and several heifers from four to five months old, by the stock bull, and several heifers are for sale. At present the bulls are all gone. Mr. Walker reports the demand for Holsteins of the right kind, especially bulls, as by far the best he ever knew. His last one was shipped last week, and he had two orders to ship him at once the same day. In writing Mr. Walker, address him at Utica P. O., Ont.

GOSSIP.

Mr. W. H. Hunter, "The Maples" farm,

A large draft of over forty Short-horrs has recently been consigned to the order of Mr. W. D. Flatt, of Hamil-ton, Ontario. The animals were secured from a large number of leading herds, including that of Lord Rosebury at Dal-meny. From Mr. P. L. Mills, Rudding-ton, came several very pretty beifers, including Viscountess Oxford of Rudding-ton and Queen of Oxford 9th, both sired by sons of the oid-time champion bull, Marengo; Druid Charity, a Clipper heifer 1.9 Druid Stone, a son of the famous Corner Stone; Broadbooks Violet, a Broadbooks heifer in calf to Marengo Sittyton Luke; and Flectric Spark, a thick, blocky heifer, by Elec-tric Star, a son of Morning Star. A large draft of over forty Short-

ELECTRIC **Handy Farm Wagons** nake the work easier for both the man a he tires being wide they do not cut into the he labor of loading is reduced many times or the short lift. They are equipped with our ous Electric Steel Wheels, eitherstraightor ger spokes. Wheels any height from 24 to 60 in. White hickory axles, steel hounds. Guarante-carry 4000 lbs. Why not get started carry 4000 lbs. Why not get started right by puttin in one of these wagons. We make our steel when to fit any wagon. Write for the catalog. It is fre ELECTRIC WHEEL CO., BOX 253. QUINCY, ILL. Shorthorns, Cotswolds 🐖 Berkshires FOR SALE: A choice lot of this year's bull calves—reds and roans— from good milking dams; Bates and Scotch breeding. Also cows, heifers and heifer calves. Young pigs, two months old, of the long bacon type bacon type. F. BONNYCASTLE & SONS. Campbellford, Ont. Hillside Shorthorns and Shropshires, Bulls, from 8 to 18 months old; heifers, various ages, of true type and fashionable breeding; also 25 ram lambs and 15 ewe lambs, from imp. sire. Will quote prices right for quick sales. om L. Burnett, Greenbank P. O., Ont.; Uxbridge Stn., G. T. B. GREEN GROVE SHORTHORNS : I am now offering a few heifers, Clarets, Floras, and one Missie; also a choice year-old bull, by Aberdeen of Markham. om

FOUNDED 1866





# Riverside Holsteins.

Victor De Kol Pietertje heads the herd, as-sisted by Johanna Rue 4th Lad, whose five nearest dams, including the record of his dam made at 25 months old, average ("official") 82.6 lbs, milk per day and 21.86 lbs, butter in one wash MATT. RICHARDSON & SON,

Haldimand Co. CALEDONIA, ONT.

4 HOLSTEIN BULLS 4 For SALE: From 4 to 7 months old, having sires in their pedigrees from such strains as Inka, Nether-land, Royal Aaggie, and Tritonia Prince, and out of imported females that have proven their worth at the pail. THOS. B. CARLAW & SON, om Warkworth.

Ridgedale Farm Holstein-Friesians for Sale. 2 yearling bulls; also bull and heifer calves; all of choice breeding. Prices always reasonable. Write, or come and see them. R. W. WALKER, Utica O. Shipping stations : Port Perry, G. T. R.

Myrtle, C.P.R. om



B. H. BULL & SON, BRAMPTON, ONT. C. F. B. and G. T. R. stations within 2 miles of farm.



PLEASE MENTION FARMENE FIRM

Ayear old brood Live

JULY 21, 1902

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JERSEYS FOR SALE. A few choice Jersey bulls and bull calves for sale at very low prices. Choice breeding;

good colors. Write for prices. -om W. W. EVERIT F, CHATHAM, ONTARIO. "Dun Edia Park Farm." Box 555.

BURNSIDE JERSEYS. For Sale: Two-year-old bull, Chumpion of Barnside; 1st prize Western Fair, London, last year; sire John Bull of Grovesend; dam tested 431bs. milk daily, whether butter in weak

John Bill of Color and Color and

Exmoor Jerseys for Sale.

Heifer calves and deep-milking cows. A. Norman Smith, Meaford P. O. and Stn.

F. L. GREEN,

BREEDER OF

Jersey Cattle and Yorkshire Pigs.

PICKBRING STATION, G. T. R. GREENWOOD P. O.

Wm. Willis, Newmarket, Ont.

Breeder of A. J. C. C. Jerseys and registered Cots-wold sheep. Have yet two fine young bulls from Count, fit for service ; also Yorkshire swine. -om

FOR SALE:

T. D. McCALLUM,

Show Ayrshires For SALE. - I offer 2 choice show heifer calves; also 3 August (1901) bulls and 4 very fine Mar. h (1902) bulls by imp. sire. om W. BALLANTYNE, Stratford, Ont. "Neidpath Farm" adjoins city. Main line G. T. R.

fine lot of the long Large English Berkshires for sale ready to ship. om

G.T.R. & C.P.R., 20 miles west of Montreal.

Ayrshires and Yorkshires A yearling bull and several choice calves from heavy milkers, fit for exhibition purposes Three Yorkshire boars fit for service; three sows

ly to mate, also a number of young pigs fit to ship. ALEX, HUME, MENIE, ONTARIO.

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J. YUILL & SONS

Meadowside Farm,

Carleton Place, Ontario,

Breeders of Ayrshire cattle. Shropshire sheep, Berkshire swine, and Barred Plymouth Rocks. A

Ayrshires.

Choice stock of each sex for sale. -om

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THE. shires W. THORN,

LYNEDOCH, - ONTARIO, Breader of prizewinning Ayrshires, Stock always on hand for sale,

EUROPEAN ADVERTISEMENTS.

HERD OF 150 cows and heifers, Ayrshire HERD OF 100 cows and neuters, bred from deep milkers, with large teats, of a commercial stamp. Es-tablished over half a century. J. & A. Wilson, Boghall Farm, Houston, Renfrewshire, Continued

PEDIGREE AYRSHIRES. Cows and heifers, all bred from prizewinning stock at the leading shows. Robert Wilson, Mansurae, Bridge of Weir,

Renfrewshire, Scotland.

English Shorthorns.

Booth and Bates Shorthorns, topped with Cruick shank bulls. Young cows, bulls and heifers always on hand for sale. Eligible for the American herd-book. Royal and Highland prizewinners included for the last two years. Close on £400 won in prizes last years and this for the last two your last year and this. **WM. BELL**,

Ratcheugh Farm, Alnwick, Northumberland, Eng. Three grandly-bred Ayrshire bull calves, 12 to 15 mos. old. Also young calves, by Napoleon of Auchen-brain (imp.), whose dam has a record of 72 lbs, of milk per day. A few choice young Berkshire and Yorkshire sows could be served before shipping. Collie pups, from Perfection Queen. Address—

# W. W. CHAPMAN,

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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.

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# PEDIGREE PIGS,

Imported bulls at head of herd: Glencairn 3rd, Napoleon of Auchenbrain, 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. om The property of Sir Gilbert Greenall, Bart., Walton Hall, Warrington, England.

This herd is unrivalled for its true type, large size and strong constitutional vigor. It is the premier herd in England at the present day. Its show-yard career is unique, the champion prize for the best Large White pig at the R. A. S. E. having been won by pigs bred in the herd in 1896, '97, '99 and 1901, besides leading prizes too numerous to mention at all the principal agricultural shows in England. A choice selection of boars and sows for sale. Inspection invited. All purchases carefully shipped. For particulars, apply to the Manager, MR. J. HALLAS, Higher Walton, Warrington, England. Railway stations:--Warrington (Bank Quay) per L. & N. W. Ry.; (Central) per Midland, G. N. or G. C. Rya. Telegrams, "HaLLAS Higher-Wal



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Yorkshires.

LOOK ME OVER. ROYAL DUCHESS. Our winnings at the large shows, for 1901, are as follows: At Toronto every possible first prize and five seconds, two silver medals, and first for pen of pure bred bacon hogs, also sweepstakes on bacon hoge over all breeds; at London every possible first but two; while at the Pan-American, where our herd was divided, half going to Toronto, we won six out of ten possible firsts, also sweepstakes on boar any age. At the Pan-American (Buffalo), Toronto and London there were thirty-six first premiums and medals given: all the medals and every first prize but six won by the Summer Hill Yorkshires. When in need of the best write D. C. FLATT & SON, MILLGROVE, ONT. Telephone: Millgrove, Ont,

HEADQUARTERS FOR THE IDEAL BACON HOG.

English

Large

English Berkshires Consists of imported and show sows; the sires are big, long fellows, of the bacon type. For sale: a few grand young sows from 3 to 6 months old. JNO. LAHMER, Vine, Ont. Vine Station. G. T. R. om





A fine lot of young pigs on hand, sired by imported bears. pairs supplied not



both seves. Importations of Shorthorns and York shires made yearly. Address on

H. J. DAVIS.

Importer and breeder of Shorthorns and Yorkshires. Box 290 WOODSTOCK, ONT.

Yorkshires a for the next dimonths Lean sup-pla either sex, that for ideal bacon type, smooth, even mish, are unsurpassed. Prives reasonable. WM.TBASDALE, our Thornhill Stal, and electric cars. Dollar P. O.

# Coldspring Herd Tamworths

Offer choice Oct. and Nov. boars and sow-Also my stock boar, advance. This is the spot for the best. Write for prices. They are moderate, quality concidence.

NORMAN M. BLAIN ST. GEORGE, ONT.

NEWCASTLE HERD OF TAMWORTHS



We are now official as the bare boars after some of the solution of the Also few choice is in the solution of the bare at the solution of the Also few choice is in the solution of the bare at the bare of the solution of the bare at the bare of the bare of the bare at the bare of th

from Toronto prizewinners COLWILL BROS., NEWCAS'FLE ONT

Choice White Wyandotte Eggs for Halehone Half price next 2 months. Only \$1 jet it set is young stock for sale. Will sell a 120 month and a set is a bargane. We must and ask for circulars of the wonderful Neural Incubator.

WM. J. CHISHOLM, - - DUNKELD, ONT.

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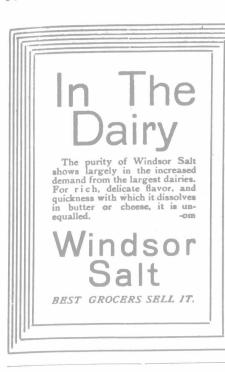
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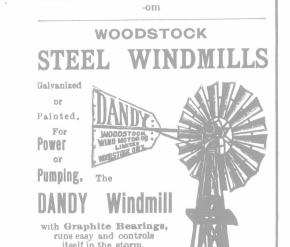


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Factory: Oshawa, Ontario. BRANCHES: WINNIPEG AND ST. JOHN.



GRINDERS, PUMPS,





FOR BROOD SOWS AND PIGS.

International Stock Food Co., Minneapolis Minn.

"International Stock Food" is prepared from Herbs, Seeds, Roots and Barl

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health and promote growth.

IT CONTAINS # 183 LARGE FINE ENGRAVINGS OF HORSES, CATTLE, SHEEP, GOATS, HOGS, POULTRY, ETC.

excellent satisfaction to all my customers. I have used it and can say that for brood sows and young pigs it is

the best preparation I have ever used, both to maintain

VOLIN, SOUTH DAKOTA.

L. G. PALMER, Druggist and Stockraiser.

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