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# THE FARMER'S ADVOCATE

AND HOME MAGAZINE

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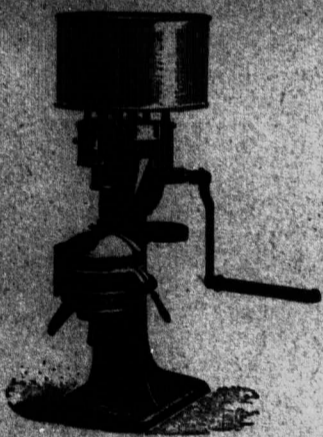
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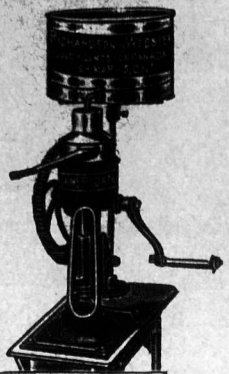
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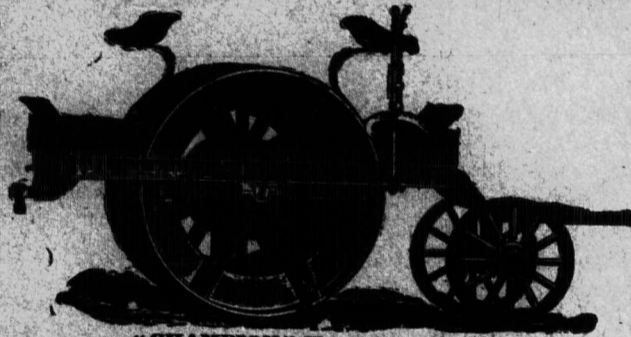
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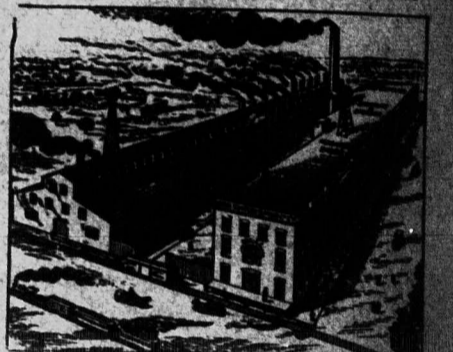
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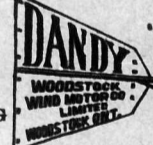
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# FARMER'S ADVOCATE

AND HOME MAGAZINE

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Vol. XXXIV.

LONDON, ONT., AND WINNIPEG, MAN., JULY 1, 1899.

No. 481

## EDITORIAL.

### The Farmer's Dwelling House.

CASH PRIZES OFFERED.

The observation is frequently made in many sections of the country that the farmer erects better buildings, comparatively speaking, for his animals than he does for himself and his family. He is charged with putting more thought and results of observation into barn plans than into house plans, and that he seems to be more concerned for the ventilation and sanitation of stables than for the comfort and well-being of his wife and family. We shall not stop to discuss how well founded the complaint may be, but as many new farmhouses will undoubtedly be erected in the near future, and many substantial old ones can be easily improved by a little alteration, we have a plan to propose whereby helpful ideas may be placed at the disposal of our readers. Time was when the main idea appeared to be "lots of room" enclosed within four square walls, with little or no regard to obviating unnecessary steps and toil on the part of the wife and daughter or domestic help, or to a tasty exterior, or to making the rooms where the members of the family spend most of their time the most comfortable. To begin with, the farmhouse should be *homelike*—a place to live in, the associations of which will become almost part and parcel of the family as it grows up. Heretofore the ventilation, drainage, heating by furnace (more cleanly, economical and effective than an assortment of stoves), arrangement of cellar, back kitchen, etc., have received altogether too little attention, compared, in many cases, with an ambitious but costly attempt to make a big, showy edifice. What we propose is to offer the sum of \$45, divided into three prizes (1st, \$20; 2nd, \$15; and 3rd, \$10), for the best and most complete plans, with written descriptions sufficient to explain the former fully, together with a good clear photograph of the house itself; the house to be one of the cost of which would in the ordinary course run from \$1,500 to \$3,000, not exceeding the latter. Many people themselves now possess and can use cameras, or, if not, the services of a local photographer can readily be secured to "take" a picture of the residence. Many persons naturally take a justifiable pride in their homes, and already have in their possession good photographs. In such cases it would only be necessary to prepare the plans of the cellar or basement and different stories, showing how they are laid out, together with closets, pantry, verandas, dimensions, etc., and forward to us, with a letter describing the house, material used, cost, etc. This competition will be open for two months (July and August), all plans, photos, and manuscript to reach the FARMER'S ADVOCATE office, London, Ont., on or before the 1st of September next. Announcement will be made as soon as our awards are made, and so soon after as practical we will publish in the ADVOCATE engravings of the prizewinning houses, and plans and the descriptive articles. We desire our friends to aid us in furthering the object we have in view, as stated above, by at once entering the competition and sending us the plans, photos, and articles. Do not put it off till a more convenient season, but decide to-day that you will do so. Prepare the plans in pencil or ink (the latter preferred), or making pencil sketch first and pen and ink afterwards. Make arrangements for the taking of the photo, if you have not one already, and writing the descriptive article. Mark your name and address on each, and wrap up the photo carefully, so as to avoid injury in coming through the mails.

### Fattening Cattle Loose Instead of Tied.

Early in the year 1897 the attention of one of the editors of the FARMER'S ADVOCATE was called to the results of a comparative test between cattle fattened loose and a similar lot tied in the usual way. It was conducted on the farm of Hon. Wm. Mulock, Postmaster-General, near Aurora, Ont., in the County of York, and was under the oversight of Mr. Wm. Linton, the well-known Shorthorn breeder. The gains in flesh stated to have been made by the cattle at liberty, compared with these confined, were so remarkable as to challenge instant attention. A member of our staff visited the farm, obtained a description of the plan of feeding and particulars generally of the trial, which were published in the April 1st issue of the ADVOCATE of that year. There was not only the direct advantage of extra gain in flesh, but a simpler and less expensive plan of stabling, and lessened labor for the attendants, all of which are important items which a good business farmer will not overlook in these days of close margins, because they may mean the difference between loss and profit. That the subject deserved further investigation was, therefore, apparent on its face. On a few stock farms here and there the plan had been in use, giving satisfactory results, such as those of Mr. W. C. Edwards, M. P., of Rockland (where this plan had been in vogue for some years on an extensive scale); A. & D. Brown, Elgin Co.; the McMillans, of Huron; Baty, of Middlesex, and others, from whom we obtained and were enabled to lay before the farmers of the country a fund of definite and suggestive information. The desirability was suggested of an experiment on this subject at one of the Government institutions, and the matter was promptly taken up by Mr. Wm. Rennie, the able Superintendent of the Ontario Agricultural College Farm at Guelph. A careful trial was made during the winter of 1898, which resulted in favor of the loose system of feeding, as our readers are aware. In the 6 months' feeding period the loose steers, on similar rations, gained about 70 pounds each per head more than those confined. A good many others have since been encouraged to give this plan a trial, and the consensus of opinion seems to be that the cattle make greater gains—"do" better—on the same food with less labor. That they should thrive better with a fair amount of liberty and exercise than when tied day after day and month after month—in many cases never let out at all—during the long feeding period, does not seem unreasonable, because under the latter conditions the secretions and other processes will naturally become clogged and impeded, thus preventing the animal from making the best use of its food. Animals so fed require to be dehorned; and, as a rule, have access to water at all times. An incidental advantage arises in the fine condition in which a large quantity of manure is left for use in fertilizing the farm for future crops. Last year a number of stables were overhauled in order to change from stalls, with stanchions or chains, to open compartments, and this year some old stables are being altered and new ones constructed according to the latter plan. That feeders might be further informed on the subject, one of our staff recently spent a couple of days in Huron Co., Ont., and elsewhere we give the results of his enquiry in the case of two successful feeders, Mr. Wm. Murdock, who the past season fed 44 head loose and 18 tied, and Mr. D. A. Forrester, who delivered the other day a well-fattened bunch of 40 head, all fed loose—5 in each pen. Both are well satisfied with the system. A plan of each stable is given. We might add that Hon. Mr. Mulock himself visited Mr. Forrester's stables last winter and was so well pleased with the details of the internal arrangement that he intends to modify his own stables accordingly this summer. He now considers it an advantage to have fewer cattle penned together. We also publish a letter with an elaborate set of

plans kindly furnished us by Mr. A. S. McBean, of Glengarry Co., Ont., in reply to a recent enquiry from one of our readers, in which he gives an admirable description of his stabling for 125 head of cattle, 100 hogs, and 8 or 10 horses, besides poultry. Mr. McBean has been fattening export cattle for 7 or 8 years, and a year ago rearranged his stables, giving up the system of tying cattle, and he is well pleased with the change. The plans which he has furnished us, as well as the others published, will repay careful study.

### Preparation for the Fairs.

As the fair season approaches again, we are led to think of the need of preparation for the competition for the prizes offered in the various lines of live stock, agricultural, dairy and horticultural products. In the case of live stock, no doubt the work of preparation has been, as a rule, in process for many months. The experienced breeder and showman recognizes the fact that the preparation of prizewinners, in the broadest and best sense, begins before they are born by the mating of the best parents, with a view to the production of offspring combining a maximum of the good qualities of the highest type of the breed.

Having such a foundation to build upon, the preparation of the animal for this year's showing may well have commenced at the close of last year's fair season—not by continuing to force it to obesity by feeding full rations of concentrated and fattening foods, but by varying its bill of fare, making it to consist mainly of bulky foods, such as good clover hay and early-cut, well-saved straw, corn fodder, and a liberal supply of roots, bran, and ground oats. This, together with regular and sufficient exercise, appears to us ideal treatment for at least the first half of the year since the last year's showing season. While in these remarks we are thinking primarily of cattle, yet in the main the same general line of treatment, with variations to meet the different circumstances, applies to all classes of stock. The first desideratum is the laying of a firm foundation by securing a strong constitution, with the best quality of bone and abundant muscle and vital force; then the finishing touches may safely be added in the form of a larger proportion of the more concentrated foods, such as oil cake and cotton-seed meal, peas and corn; but for variety and safety it is well, in feeding any or all of these, to add bran and oats, in order to avoid cloying of the appetite, and to produce natural flesh in preference to fat exclusively, and to prevent the tendency to lumpiness or the production of rolls of hard fat on the exterior of the carcass, on the one hand, or of excessive softness and flabbiness on the other. There is a quality of handling in the well-fed animal which responds to the touch with a certain elastic softness which pleases and satisfies a judge who knows from experience when he finds what is about right; and, other things being equal, this quality of handling may well, and often does, turn the scales and decide the placing of competing animals, since it indicates a kindly feeder in any class of beef cattle, and is found, as a rule, in the deepest milking and richest butter-producing cows. While it goes without saying that it is hardly possible to prepare stock for successful showing by allowing them to run out in the hot summer sun, where they have to fight flies and forage for a living, but that they must be kept up in well-ventilated stables with screen doors and windows to admit fresh air and exclude flies, yet it is important that sufficient exercise to keep their legs in the best condition shall be given, and to this end they should have the run of a pasture field, if not during the nights, at least for two or three hours in the evening and early morning of each day. This we know is hardly practicable in the case of bulls, but these may be given liberty to exercise in a shed, or be led out for a mile or two in the cool of the

**THE FARMER'S ADVOCATE**  
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THE LEADING AGRICULTURAL JOURNAL IN  
THE DOMINION.

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13. LETTERS intended for publication should be written on one side of the paper only.
14. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles. For such as we consider valuable we will pay ten cents per inch printed matter. Criticisms of Articles, Suggestions How to Improve the ADVOCATE, Descriptions of New Grains, Roots or Vegetables not generally known, Particulars of Experiments Tried, or Improved Methods of Cultivation, are each and all welcome. Contributions sent us must not be furnished other papers until after they have appeared in our columns. Rejected matter will be returned on receipt of postage.
15. ALL COMMUNICATIONS in reference to any matter connected with this paper should be addressed as below, and not to any individual connected with the paper.

Address—THE FARMER'S ADVOCATE, or  
THE WILLIAM WELD CO.,  
LONDON, CANADA.

evening. Experienced showmen know the importance of securing a glossy and soft-feeling quality of hair, and this can only be obtained by blanketing and careful and industrious grooming, which does not mean scratching with a sharp currycomb, but frequent brushing, the use of soft woolen dusting cloths, and, what is still better, a free use of "elbow grease," or long-continued hand-rubbing, which is the best possible agency to produce a gloss and a kindly feeling.

Training animals to lead gently and naturally by the halter or line, to walk freely with a proud and sprightly carriage, and to stand well in the best positions to show themselves to advantage, counts for much more in the showing than many exhibitors reckon upon. We have seen prizes awarded to animals judged in a fixed standing position which we apprehend would not have gone to their credit had they been required to walk around the ring before the ribbons were tied. Judges are now rightly paying more attention than formerly to this feature in all classes of stock. An animal intended for breeding purposes ought certainly to be capable of walking freely, and the idea contained in the axiom, "No foot, no horse," is being wisely extended so as to apply to all live stock, for it is certain that quality and strength of feet and legs and their proper placing are of no small importance as indications of constitutional vigor and prepotency.

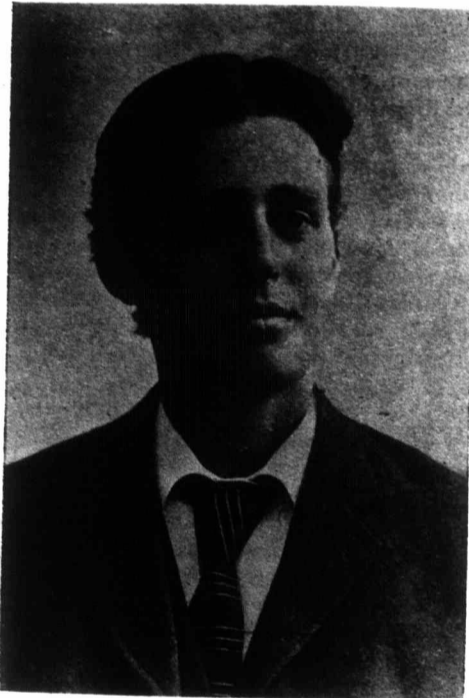
The same general idea of early planning and thorough preparation as is outlined in the foregoing remarks apply to all exhibits intended for competition, whether they be agricultural or dairy products, or fruits and flowers. Strict attention to the adoption of the most approved methods in the selection, cultivation and development of the best varieties of grain or roots, the fertilizing, thinning and protection of fruits, and the most scrupulous cleanliness in the handling of milk from which butter or cheese is made in order to secure the highest degree of perfection in quality and aroma, are absolutely necessary to success where competition is so keen and trained judges of fine discriminating taste are called upon to officiate. In every department of our great agricultural and industrial exhibitions the standard of excellence is advancing, and those who would stand among the winners in this friendly rivalry must learn to realize that the best is none too good.

**The 1899 Graduating Class from the Ontario Agricultural College.**

In this issue we take pleasure in presenting photogravures of the members of the 1899 graduating class from the Ontario Agricultural College. It will be gratifying to our readers to notice that these young Bachelors of Scientific Agriculture (the degree conferred by the Provincial University) all come from Canadian farms, and also that they have decided to follow agriculture in one or other of its branches. We congratulate them on successfully completing their course, and bespeak for them, one and all, careers of usefulness, that will do credit to themselves and their alma mater.

Mr. A. M. High, B. S. A., was born on a farm in Lincoln Co., Ont. His parents are of German descent, known as Pennsylvania Dutch. Mr. High secured his associate diploma at the end of his second year, in 1894, and did not re-enter the College till October, 1896, and graduated at the end of the 1898-9 College year. While at the College Mr. High was appointed by his fellow students to the office of treasurer of the Young Men's Christian Association, and editor of the Horticultural Column of the O. A. C. Review. He has given especial attention to horticulture, which line he intends to follow from now forward.

Mr. Chester D. Jarvis, B. S. A., of Guelph, was born near London, Ont., in 1876, being the son of Mr. L. G. Jarvis, the well-known poultry judge and late manager of the Poultry Department of the Ontario Agricultural College. Mr. Jarvis, after receiving a good general education, worked on his father's fruit and poultry farm at Port Stanley, Elgin Co. In 1896 he entered the O. A. C.,

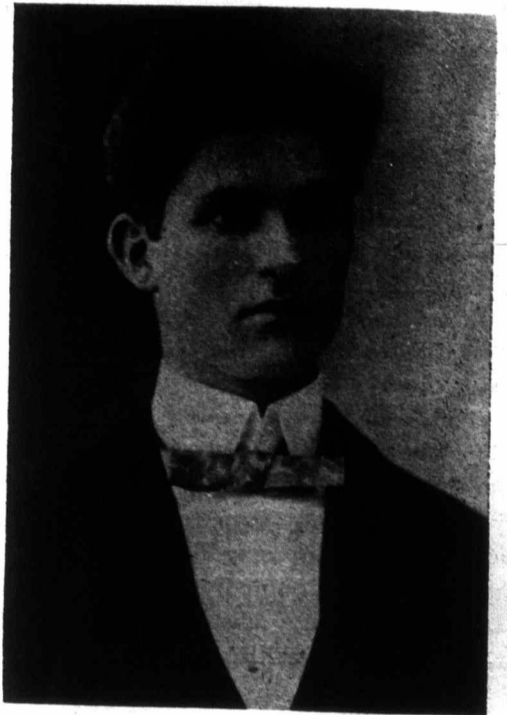


A. M. HIGH, B. S. A.

where he passed all examinations with good standing. Two years later he received his associate diploma, was awarded the scholarship in veterinary science, won first place in the essay competition at the College, and was awarded the Minister of Agriculture's prize. During his third year he was elected president of the O. A. C. Literary Society. Mr. Jarvis specialized in horticulture, and intends to follow this line of work. He is now employed at the Horticultural Department, assisting in experimental work in fruit and flowers.

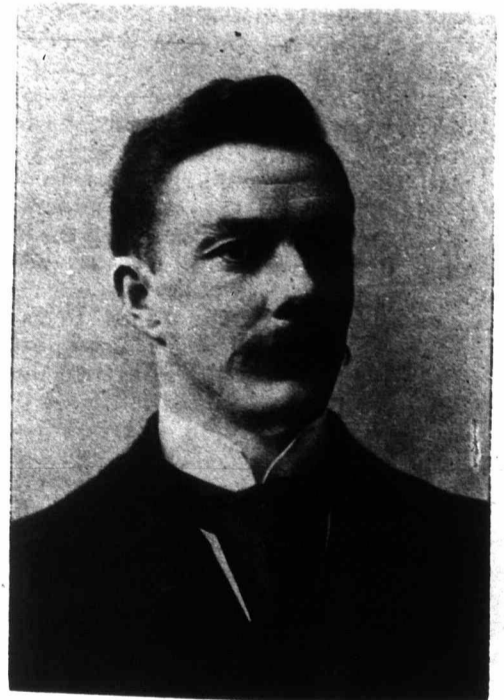
Mr. Wm. N. Hutt, brother of Prof. Hutt, Horticulturist at the Agricultural College, was born in the Township of Stamford, in the County of Welling. He comes from a long line of farmers of U. E. Loyalist stock, who were the pioneers of the Niagara district. His father, F. A. Hutt, is one of the leading farmers and fruit-growers of his county, and has always taken a deep interest in agricultural and municipal matters. Mr. Hutt was brought up on the farm, and attended the public and high school in his township. For two years he attended the St. Catharines Collegiate Institute, and there obtained honor matriculation and a first-class certificate. For a couple of years he taught school near home, and spent his summers on the farm. Mr. Hutt has always been a close student of agricultural problems, and has kept in close touch with the current agricultural literature of Canada and the United States. He has also been a speaker at local Farmers' Institutes, and a writer for the agricultural press. In the fall of 1897 he entered the O. A. C., taking the first two years' work of the course in one year, and has graduated this year as a specialist in horticulture. At the College Mr. Hutt took prizes for oratory and essay writing. It is his intention to follow the science and practice of agriculture, which he considers well worthy of any man's best thought and energy.

Mr. F. R. Mallory, B. S. A., was born in 1880, in the Township of Sidney, County of Hastings. His father is a farmer of direct U. E. Loyalist descent. His mother is a niece of the late Hon. Senator Read, who was born in the County of Suffolk, England. Mr. Mallory's father's 400-acre farm is one of the oldest in the country, being one of the first cleared by the U. E. Loyalists on their advent to Canada. His forefathers for five generations on the side of both parents have been farmers, and three generations on his father's side have lived upon the farm now in possession of his father. Mr. Mallory attended the public school until the age of thirteen, when he passed the entrance examinations. He then worked upon his father's farm until the age of fifteen. In January of 1896



CHESTER D. JARVIS, B. S. A.

he entered the Commercial Department of Albert College, Belleville; concluded his commercial course in April of the same year. With the purpose of following agriculture in view, he entered the first-year class at the Ontario Agricultural College in October of 1896. In his first-year examinations he stood well up in general proficiency and passed with honors. In his second year he passed with honors in nearly all subjects. Entered the third year in October of 1898 and obtained the degree of B. S. A., being an honor man in nearly all subjects, and distinguished himself by writing the best thesis handed in by those who were candidates for B. S. A. In his third year, Mr. Mallory was agricultural editor of the O. A. C. Review. In his second year he held the position of secretary of the Young



WM. N. HUTT, B. S. A.

Men's Christian Association. Mr. Mallory at present intends to assist his father in managing and working the farm, upon which is kept herds of Holstein cattle and Berkshire and Tamworth swine.

Mr. W. J. Price, B. S. A., was born at Coningsby, Wellington Co., Ont., on September 9th, 1877. His father, Enoch Price, was born in Ireland, and for many years has followed the occupation of farming, formerly in the County of Wellington, but at present in Dufferin. His mother was born in Canada, of English parents. During Mr. Price's College course he won several prizes. Some of these were: first prize in general proficiency in the first year, first in English, first in natural science

and the Geo. A. Cox scholarship in natural science. A prize won later was the special prize given by the College to the graduate who stood highest in his class with first-class honors in his special course. He held during his second year the office of secretary-treasurer of the Athletic Association. Other offices held were corresponding secretary of the Y. M. C. A., critic for the Literary Society, business manager for the College paper, the O. A. C. Review, and a year later he was appointed managing editor of the same paper. It is now Mr. Price's intention to pursue the study and practice of agriculture on scientific lines.

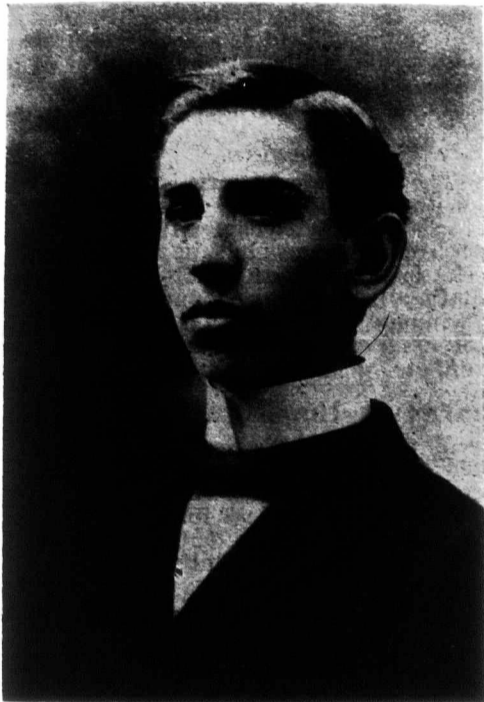
Mr. G. H. Murdock, B. S. A., was born on a farm near Wyevalle, Simcoe Co., Ont., where his father,

5th, 1873, and lived on the farm until 19 years of age, thus serving a splendid practical apprenticeship to the profession of agriculture. He attended public school until he had passed the examination for entrance to high school, came to the O. A. C. in the autumn of 1892, and secured his associate diploma in the summer of 1894. Since then Mr. Buchanan has been engaged in the office of Mr. Zavitz, the Experimentalist, excepting three months in the winter of 1898, when he took a course in the Western Ontario Shorthand Academy. In October, 1898, he re-entered the College for his final year. During his course in college he endeavored to take as practical a course as possible, giving a fair share of attention to Athletic, Literary and Y. M. C. A. Associations. He took a good standing in class-

stock, the exams. on which included written and practical work on sheep, swine, dairy cattle and beef cattle. For the present Mr. Marshall will remain at home, where mixed farming is followed, but he expects to take postgraduate work in agriculture.

**Mr. John A. Nelles, the New Western Fair Secretary.**

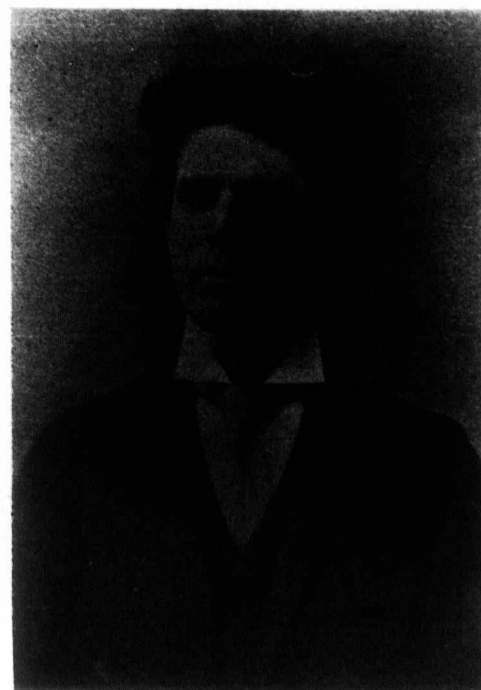
In consequence of the appointment of Mr. Thos. A. Browne as Postmaster of London, Ont., Mr. J. A. Nelles, of this city, has been appointed Secretary of the Western Fair, and has already actively undertaken his new duties. Mr. Nelles was born in London Township, Middlesex Co., 46 years ago,



F. R. MALLORY, B. S. A.



G. H. MURDOCK, B. S. A.



JOHN BUCHANAN, B. S. A.

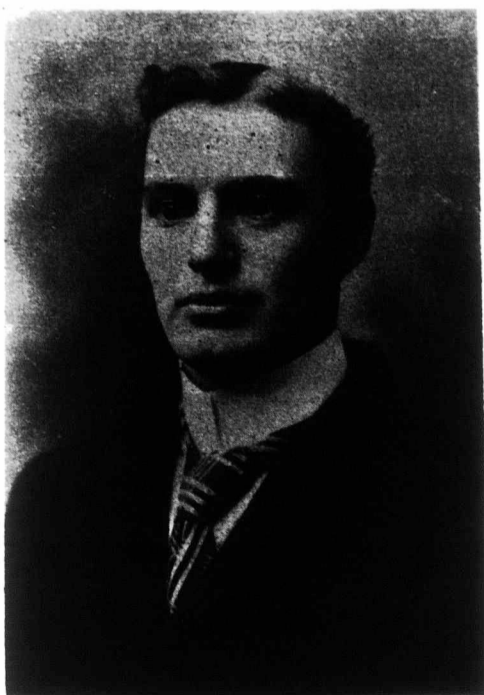
H. Murdock, was a successful farmer. Mr. Murdock's parents were born in Victoria County, near Lindsay, Ont. He entered the College in the fall of 1896, with the intention of preparing himself for farming, which is the line he intends to follow in after life. He will handle his father's farm and pay special attention to live stock.

Mr. M. Raynor, B. S. A., was born on his father's farm at Rosehall, Prince Edward Co., Ont., in 1879. His parents are both Canadians, descendants of the U. E. Loyalists. While at the College, Mr. Raynor was president of the Young Men's Christian Association during the College years of 1898 and 1899. He was also one of the agricultural editors of the O. A. C. Review published monthly for the College year by the Literary Society. In his first year he

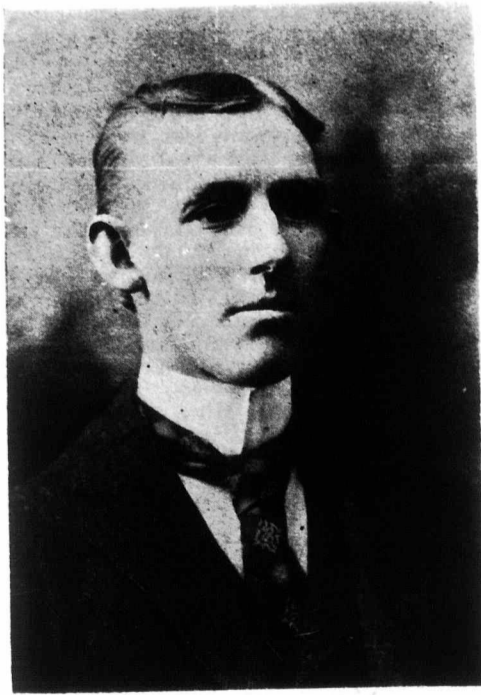
work, however, securing first-class honors in several subjects, and standing sixth in general proficiency at the end of his second year. In graduating year he gave special attention to essay work and thesis, and won first-class honors in these branches. He held the position of personal editor of the O. A. C. Review during his second year, and College reporter for same in his third year.

Mr. Fred. Rupert Marshall, B. S. A., was born and has always lived at Westbrook, six miles west of Kingston. His parents are of English and Scotch descent, and his father has always made farming his occupation. On finishing public school work Mr. Marshall attended high school for one year, and then spent two years at the Kingston Collegiate Institute. He then remained three years

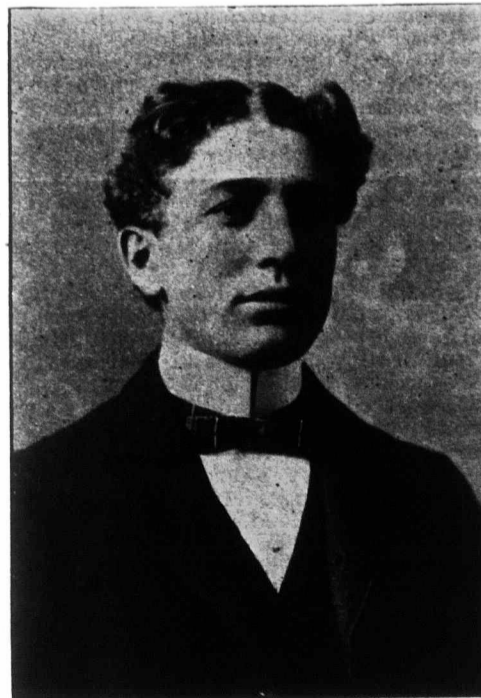
being the son of a pioneer farmer, Mr. John Nelles, who came to the locality before there was a tree cut where the city now stands. With the exception of two years spent in the Western States, his home has been in London, where he stands high in the esteem of the business community. For 17 years past he has been actively engaged in the general insurance business, during all of which period he has been Secretary of the London Board of Trade and also of the London Cheese Board, the incorporation of which this year was mainly brought about through his efforts. All arrangements for the forthcoming show on Sept. 7th to 16th are well advanced, and prospects were never more auspicious. We bespeak for the Western Fair under the new Secretary continued progress and prosperity.



W. J. PRICE, B. S. A.



M. RAYNOR, B. S. A.



F. R. MARSHALL, B. S. A.

stood third in general proficiency and won a prize awarded by the College. He also won a \$20 scholarship for the Department of English in the same year. This was awarded by G. A. Cox. Mr. Raynor purposes to remain on the farm at home for a few years at least. At one time he says he felt like leaving the farm to enter some other work, but thanks to the training at the Ontario Agricultural College, he has changed his views, and now believes farming is an occupation which is not to be despised.

Mr. John Buchanan, B. S. A., was born of Scotch parentage, in the County of Huron, Ont., on April

on his father's farm, and entered the O. A. College in his nineteenth year. In his first-year work he obtained honors in all departments, with first-class honors in mathematics and natural science, being awarded the Cox scholarship in the first-mentioned department. For the year he stood fourth in general proficiency. In his second year he obtained honors in all departments and retained the same place in proficiency with those of the class who took the first year at the same time. In his final year he was assistant managing editor of the Review, and captain of the Rugby football team. On the final examination he obtained honors in several branches, with first-class honors in live

**A Wise Precaution.**

In Denmark very stringent laws have been enacted to prevent tuberculosis in cattle and the spread of infectious diseases in man. All dairies are prohibited from giving out milk or buttermilk to be used for food of man or beast unless it has been subjected to a temperature of at least 185° F., and the residue in the separator bowl must be burned. This latter plan might well be followed by everyone using a cream separator as a common-sense safeguard.

## STOCK.

## The Royal Counties Show.

This very popular society was honored this year by the acceptance of its presidency by Her Majesty the Queen, and its grand exhibition of live stock was during the week honored by visits from H. R. H. the Prince of Wales and their Royal Highnesses the Dukes of York and Connaught, as well as other members of the royal family. H. R. H. Prince Christian undertook the duties of acting president, which were carried out in a thorough and efficient manner by His Royal Highness, assisted as he was by a most energetic council. Under such high patronage, and favored with an ideal showyard, under the shadow of the royal residence at Windsor Castle, it is no wonder that there was in all



KING CLOVIS 6794.

WINNER OF CHALLENGE CUP AND GOLD MEDAL AT ROYAL DUBLIN SOCIETY'S SHOW, 1899.

sections a record entry and a high standard of quality. This society is one that fully recognizes the claims of sheep, and gives them the place of precedence in its catalogue; therefore we will, in our brief and necessarily much condensed report of this excellent show, follow the same order.

**Hampshires** were the first breed placed in the catalogue, and its total entry was one hundred pens. The general high merit, even and uniform type and true character of this breed was such that we think that it has at no previous exhibition of this society been exceeded. The yearling rams were a capital class—uniform in flesh and fleece, the old rams a notable class for great merit of type and character, particularly the leading sheep. The single ram lambs, a class of twenty-nine, were an exceptionally grand lot, showing, in the best sense of the word, early maturity. There have been larger classes of single ram lambs, but certainly not in recent years—at any rate, one that was equal in merit to this. The pens of three ram lambs were fully equal in merit to the former, but not quite so uniform in respect to character, for in selection there is always experienced the great difficulty of being able to get all three alike. The yearling ewes were a capital class, of nice merit and type, notably the leading pen; and the ewe lambs exhibited in a marked degree the chief characteristics of this breed. The principal prizewinners were: Mr. J. Flowers; Mr. A. Henderson, who took champion prizes for best pen of lambs and for best pen of females; Mr. R. W. Hudson, who secured championship for best ram or ram lamb; Cary Coles; R. Coles; W. T. Twidell; H. C. Stephens; T. F. Buxton; E. Whalley-Tooker; J. Bonham-Carter, etc.

**Southdowns**, with an entry of ninety-two pens, made a large exhibit, but there was entirely lacking that uniformity of type and character, especially in respect to quality of fleece and color of faces and legs, that one would desire to find in a breed that has behind it so grand a reputation. No matter how one may regret to record the fact, it becomes clearer every year that unless a more careful system of mating and breeding is observed by a larger number of breeders than are doing so at the present time, it will be a long time before this breed regains that uniformity of type and character it once possessed. The yearling rams were a useful lot, the Prince of Wales being particularly fortunate in securing premier honors and championship for his entry in this class, which was far too feminine in appearance, especially in its head, for a ram. The old rams were a useful class, the leading sheep being a very good one from Mr. C. R. W. Adeane's. The ram lambs, both in the class for singles and for pens of three, had many very excellent specimens amongst them, though in many instances these, for some cause or other, failed to secure the judge's approval, whose method of selection was somewhat sharply criticised. The yearling ewes and ewe lambs were very useful, and, we thought, far more credit to their breed than the rams. In addition to H. R. H. the Prince of Wales, the following noblemen and gentlemen were amongst the prizewinners: Earl Bathurst, who took the female championship; Lord Ellesmere; Sir James Blyth; W. Toop; the Pagham Harbour Co.; Mr. H. L. B. McCalmont; H. Penfold; and A. Hearman.

**Kent or Romney Marsh** sheep had an entry of twenty-nine, and there was disclosed throughout the whole of the classes far greater uniformity of type than a few years ago, previous to the work of registration being undertaken. Yearling rams were not particularly strong, but the three specimens in the old ram class to which the awards were made were of grand type and quality. Yearling ewes and ram lambs were small but highly creditable classes, the principal winners being Messrs. W. Millen, C. File, and F. Neame.

**Shropshires** made a large entry, there being no less than forty-four pens present, as against nineteen last year. Their general average of merit and quality was high in all respects, and it is much to the credit of this breed that so great uniformity is and can be shown. The yearling rams were headed by a typical Barrs ram, followed by one of Mr. A. E. Mansell's, whilst one of A. Bradburn's came in for third honors. The old ram class found Mr. Tanner's ram at its head—a ram bred by Mr. A. Mansell, and Barrs' flock came next. A very creditable lot of yearling ewes were shown, whilst the ram lambs were hardly up in condition, though the winning pen was a typical one, of high merit and quality; the more successful winners being Messrs. M. Barrs, A. Tanner, A. Mansell, R. P. Cooper, P. L. Mills, and A. Bradburne.

**Oxford Downs** were more fully typical of their breed, owing to an increased entry and to the re-appearance of Mr. A. Brassey's exhibits, which for the past year did not compete. His unbroken success has, however, been stopped, for in yearling rams Mr. Treweeke's flock secured the lead, but in the classes for ram and ewe lambs the known merit and quality of the Heythorpe flock held its own, Mr. W. A. Treweeke winning champion in the yearling ram, Messrs. Brassey and W. Arkell also being winners in the different classes open to them.

**Agricultural Horses** (principally, if not entirely, Shires) numbered ninety-nine entries, and these were undoubtedly of a far higher merit and quality than we have ever seen before at the meetings of this society. The present high value of the Shire horse and the increased number of studs, combined with its present-time popularity, all tended to make this exhibit, which will probably hardly be equalled at the Royal, one of the greatest merit and quality throughout. We tabulate below some of the principal winners, giving first those who secured the champion and special awards. The best stallion or colt was Buscot Harold, Mr. A. Henderson's champion at Islington in 1898 and 1899; best mare or filly, Sir J. Blundell Maple's Dunsmore Gloaming, champion female at the last Shire horse show, bred by H. R. H. the Prince of Wales. Lord Wantage's Hendre Crown Princess won the Shire Horse Society's medal for mare or filly, and Mr. R. W. Hudson's Traitor that for colts. In addition to the above, the following breeders secured first prizes: A. Ransom, Lord Wantage, Lord Llangatock, and Sir J. B. Maple; Mr. R. W. Hudson being perhaps the most successful.

**Hackneys** were considerably in excess of the previous year's entry—forty as against fifteen—Sir Walter Gilbey's Gay Danegelt being a most prominent winner: a grand type of this breed, and one whose improvement is most noticeable; Orange Blossom securing the Hackney Society's medal for mares, and amongst the other winning studs we noticed those owned by Messrs. A. E. Evans, W. Foster, J. Barker, and Sir Charles Piggott were very successful.

## CATTLE.

**Shorthorns** numbered one hundred and sixteen entries, as against forty-one last year; the high merit, typical character and good quality of many being very noticeable, particularly the winning animals, many of which, we are pleased to note, were bred and owned by Her Majesty the Queen, amongst whose deservedly popular successes (for in every instance the merit of the animal fully justified the award) were the following: Champion of the year and best female (Fairy Queen); 2nd and R. N. for bulls calved in 1897; 2nd and 3rd for bulls calved 1898; 1st and 2nd for heifers calved in 1897; and 1st for those calved in 1898. Messrs. George Harrison, J. Deane Willis, Miss A. de Rothschild, J. Thorley, H. Dudding, etc., were also winners.

**Aberdeen-Angus** were entered to the number of forty-two, and the general high merit has, we think, been seldom equalled at any previous show of this society, which has been only recently induced to include these cattle in their schedule. The Rev. C. Bolden, who secured two out of the three special awards, was the more successful exhibitor, though Col. Tufnell, who took the other special, was a very strong competitor; Mr. W. B. Greenfield, Sir J. B. Maple and R. W. Hudson also being successful winners.

The **Sussex** breed of cattle were only thirty-three in number, but that which was lacking in respect to number was fully made up by their very high and uniform quality. The Earl of Derby and Mr. P. Lalliard were the winners of the specials, two falling to Earl of Derby's share, and it may be remarked that the herd of this breed owned by His Lordship is one of exceptional merit, true type and character. The Hon. R. P. Nevill's herd was also very successful.

**Devons** made a very excellent entry of twenty-five, Her Majesty the Queen's herd securing the R. N. for the specials, which were won by Hon. W. E. B. Portman.

**Herefords**, with a typical entry of first-class merit and quality, were honored by a valuable

entry from Her Majesty the Queen's herd, whose uniform success was very popular, the premier prizes in both bull classes going to the royal herd, as well as R. N. for the special prize, which was secured by Mr. A. E. Hughes' cow, Mr. J. Tudge securing the leading place for heifers.

The entries in the **Jersey** classes numbered two hundred and twenty-seven, a record entry of the breed at this show, and remarkable as being one of very great quality and merit. N. S. Freeman-Thomas won the bull championship, and Mrs. McIntosh that for females.

**Guernseys** made an equally large entry, one hundred and thirty being the number. Their general average merit, even quality and type was admirable throughout the whole of this large entry, Mrs. F. A. Montefiore securing the female championship, and Mr. E. A. Humbro that for the males.

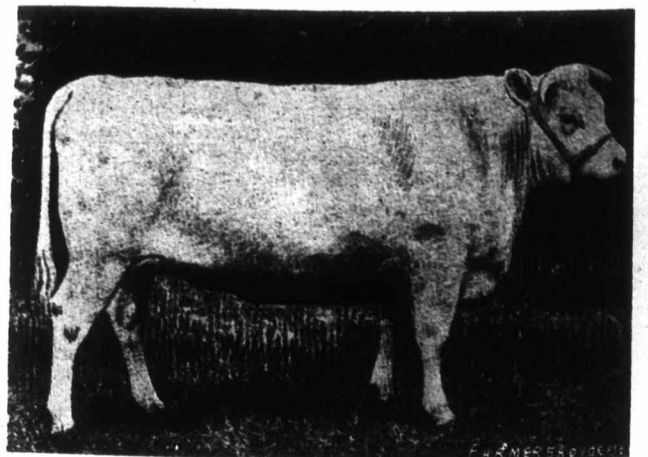
Thirty-six **Kerry** cattle were entered—grand animals, of very excellent type—Messrs. Robertson being the principal winners; and an entry of forty-one was made in the sister breed, **Dexter Kerries**, wherein Mr. E. S. Woodiwiss won the principal awards.

## SWINE.

The **Berkshire** pigs were largely and well shown, the entry numbering no less than seventy-two, as against forty-eight last year. Mr. Edney Hayter's Highclere Topper, a grand boar, was made champion of the breed, and Mr. G. T. Tomkins secured the special for best sow. Amongst the other successful winners were Messrs. J. Jefferson, E. Burbridge, N. Benjafield, A. Hiscock (Jr.), Earl of Carnarvon, etc.

## Shorthorns at the Royal Counties Show.

The red, white and roan were in force at this show, held this year at Windsor, June 5th to 8th, the entries numbering 116. There were, however, some absentees. In the class for bulls calved previous to 1897, nine had been entered, but five only came into the ring. The quintette were, however, all well-known old competitors, and the first winner was found in Mr. P. L. Mills' celebrated champion Marengo, which is now so massive that he weighs over 25 cwt., but he is said to be as active for service as ever. Second to him was placed Mr. J. Deane Willis' Bapton Victory, of grand character and very perfect build, and H. R. H. the Prince of Wales brought a very shapely roan called Stephanos, with a handsome head, broad, level back, wanting perhaps a little better covering at the shoulders, but otherwise of excellent mold, which proved a worthy third winner. He was bred by H. M. the Queen. Thus it happened that Mr. John Handley's Prince of the North, the champion of the Oxfordshire Show, and the second winner at Exeter, could only obtain reserve. The only other animal that appeared was Mr. Richard Stratton's six-year-old Flag Signal, which has developed into considerable length, and, with his good middle and hind-quarters, fully deserved the H.C. ticket awarded him. Bulls calved in 1897 mustered to the number of sixteen, and were headed by Mr. George Harrison's shapely and grandly-ribbed Count Beauty, bred in Scotland, and a son of Mr. W. Duthie's Golden Count. There were two very good bulls in the class from the Royal herd of H. M. the Queen, and Matchless, by Captain of the Guard, was selected for second prize. He carries a handsome head,



SHORTHORN HEIFER, FAIRY.

BRED BY AND PROPERTY OF H. M. THE QUEEN. WINNER OF CHAMPION PRIZE AS BEST SHORTHORN AT ROYAL COUNTIES SHOW, AT WINDSOR, 1899.

stands wide, and is of full substance, filling the eye well, but on close inspection requires a little more packing at the shoulders. Robin Nonpareil, the other Royal bull, a handsome roan, obtained reserve; Mr. J. Deane Willis' Bapton Count, with his broad back and uniform build, making an excellent third prize winner. Three other very useful animals were noticed, Mr. G. F. King's Viceroy, of a rich dark color, a son of Mr. Deane Willis' Count Lavendar, a handsome roan, belonging to Mr. W. Heaton, from Lancashire, called Prince Arvon, and Mr. D. A. Green's Bapton Emigrant, another of Count Lavender's sons, a well-shaped roan of admirable character. Mr. H. Dudding had three very useful animals in the class, one of which, Pride of Fortune, bred by Mr. W. Duthie, did not seem to be appreciated sufficiently. Mr. Morgan Richardson's Cavalier, bred by Mr. J. D. Willis, also seemed well worthy of notice no less than Mr. J. Thorley's Ringdale Rover. The judges were certainly not liberal enough in their honorary awards.

The yearling bulls were in still greater force, numbering nearly a score, and quite filling the ring. The high merit of about eight of them also entailed a severe task on the judges. The chief difficulty, however, lay between the Queen's pair of grand-looking roans and Mr. J. D. Willis' Bapton Emperor and Rosedale Jeweller. The latter two are well known to have beautiful character, and the former is so perfect in outline that it is hard to find his equal. He is a son of the far-famed Ingram Yet, but the Queen's Marmaduke, with his beautiful coat and full outline, was so even a competitor that one of the judge's would have made him first, while the other was as steadfast in preference for Bapton Emperor. Lord Brougham was therefore called in as arbitrator, who decided in favor of Mr. Willis' being first and reserve, and the Queen's two having the second and third prizes. Half a dozen others received barren honors, consisting of Mr. Cookson's Gustave, Mr. Sidney Hill's Langford Lavender, Mr. D. A. Green's Lavender Yet, Mr. Leopold de Rothschild's White President, which was first prizetaker at the Oxfordshire Show, and Mr. G. F. King's two useful white bulls. Mr. Morgan-Richardson's Major-General appeared superior in symmetrical molding, and certainly in wealth, to the others, except the prizetakers.

The half dozen cows which came into the ring seemed to puzzle the judges almost as much as the young bulls had done, and, indeed, it was difficult to decide amongst the respective merits of three or four of them. Mr. George Harrison's well-known Welcome was moved up until she got quite to the top, one of the judges favoring her claims in preference to those of the Waddesdon Manor Miss Belladrum 6th, and, indeed, the type of the two animals is different, Welcome excelling in evenness, but not having the wealthy substance and large scale of Miss Alice de Rothschild's cow. Lord Brougham, as referee, gave preference to Welcome, and after Miss Belladrum 6th came Mr. Brierley's Queen of Hearts and Jewel 2nd for third prize and reserve, Mr. Leopold de Rothschild's Sittyton Bride and Mr. John Little's Ruby being both H.C. Of Mr. Brierley's pair Queen of Hearts has preserved her grand form perfectly, and, strange to state, her defect at the tail does not appear so noticeable as when she was younger. Some will have it that Jewel 2nd has lost form since last year, but this does not seem very perceptible, although she has certainly lost bloom owing to breeding so fast. She has a good calf at foot now. The three-year-old breeding heifers formed a class well-nigh equal to that of the cows. Mr. Sidney Hill's Evelyn 2nd, a full-shaped, grand roan, bred by Mr. G. F. King, was selected for the first prize above Mr. Henry Dudding's Blossom, which, with a little more packing at the shoulders, would be very perfect. Mr. Leopold de Rothschild's Mayflower 4th, with her well-sprung ribs and substance, made a worthy third winner. She was a first winner at the Oxfordshire Show, when not having such strong competitors as here. A reserve was found in Mr. D. H. Mytton's Silene, also very broad, deep and massive; Mr. John Little's Butterfly 2nd, of nice character, and having a fine calf at foot, being, perhaps, the most useful of the lot for dairy purposes. The two-year-old heifers formed a very superior class. Her Majesty had two therein, a beautiful level white called Fairy, which was not only first, but eventually carried off two champion prizes, and Feodora, more wealthy, with finely-sprung ribs, but not quite even. To her was allotted third prize, a second winner being found in Mr. J. D. Willis' Bapton Pearl, tolerably well known as a full-shaped heifer, of very uniform build and nice character. Mr. Heaton had reserve with the well-known Daisy IV. Mr. Deane Willis' Bapton Fluff could only get H. C., a distinction bestowed also on Mr. George Harrison's Fairy Queen, Mr. Leopold de Rothschild's President Bride, and Miss Alice de Rothschild's Princess Ida. The yearling heifer class was large as well as good, as many as nineteen competing, and there were some half dozen absentees from those originally entered. The Queen got another first prize with her very handsome roan Cicely, by Prince Victor, a full-shaped heifer, very uniform and handsome. Of course she must have been very good to have been placed in front of Mr. J. Thorley's beautiful pair, Ringdale Memory 3rd and Nonpariel 2nd; the former with her handsome head and lovely coat satisfies the eyes more and more the oftener she is seen; her herd companion is very compact in build, and very wealthy. These deservedly received second and third prizes, leaving reserve to Mr. Deane Willis' White Heather, of stylish form and nice character. The Prince of Wales had a good roan heifer by his bull Stephanos, called Glisten, which received H.C., as well as Mr. Sydney Hill's Crocus, which, with a little more packing at the shoulders, would be very perfect.

The Shorthorn dairy class for cows in profit should perhaps have been noticed before, it having been the first to enter the ring. Miss Alice de Rothschild's Bructer Queen, bred by Lord Lovat, in Scotland, of large scale, and a cow combining grazing and dairy property admirably, was selected for first prize; Mrs. Francis Pratt's Dairymaid's Daughter, whose deep milking causes her to carry little flesh on her bones, getting the second premium; Lord Rothschild's Princess 2nd being reserve. The Shorthorn Society's special prize for the best bull in the three counties of Berks, Wilts, or Hants was awarded to Mr. J. D. Willis' Bapton Emperor, to which the Queen's Marmaduke was placed reserve. A champion prize for the best female in the

Shorthorn classes, offered by Viscount Baring, was taken by the Queen's Fairy, which also carried off Mr. Martin J. Stutton's 20-guinea champion prize as best animal in the Shorthorn classes. As Mr. George Harrison's Count Beauty was placed reserve for it he was deemed the second best Shorthorn. The reserve for the female champion prize was the Queen's heifer Cicely.

**Weaning and Feeding Lambs.**

BY J. M'CAIG, PETERBORO.

The time of weaning lambs will depend to some extent on the time at which they have been dropped. Four months is not too young, and more mistakes are made by delaying it too long than in doing it too soon. If lambs have thrived well, an earlier age is preferable, both on account of the lambs and for the good of the ewes. The time to prepare for a successful lambing season next year is before the time of coupling in the fall, and an important consideration is to have the ewes properly rested and recuperated between weaning and coupling time. Those who leave their lambs too long with their dams are usually the ones who make the poorest provision for the lambs after they are weaned, and the lambs are taken off the ewes either in the brown pastures of harvest or after the grass has been stricken with early frosts and has become indigestible and innutritious. In either of these cases lambs will fall away if not properly looked after, and will not have the constitution and vigor that will fit them to go into the breeding flock as either sires or dams. By having lambs as early as March, they may be weaned before the pastures become dry, and the more experience one has with early and late lambs the more he finds the possibilities for excellence in favor of the early ones. A grass lamb may be little trouble and may turn out fair at a low average cost, but in order to force a lamb, and this seems to be the profitable and inevitable tendency on our valuable lands, the lamb requires vigor, hardiness, and good appetite, and for these qualities a sniff of the March blasts and taste for concentrated grain food in the creeps is necessary. A lamb dropped on the grass will not take to grain foods as well as one whose run is

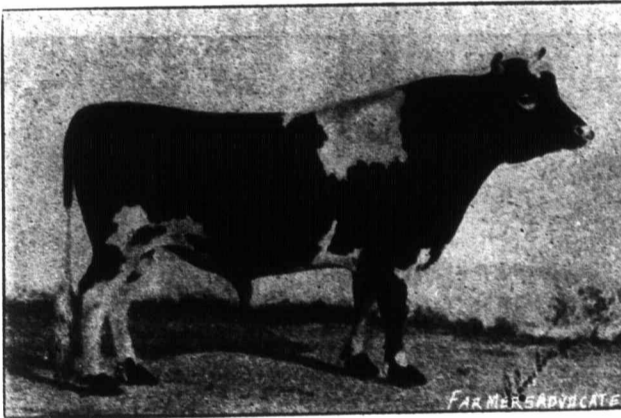
The method of weaning need not be elaborate. Both ewes and lambs probably adapt themselves to the changed conditions most quietly by a total separation at once. The little care that is necessary in milking ewes after weaning shows that the milk supply gets very small in three or four months, so that the advantages a lamb would get from a protracted weaning are small compared to the trouble of frequent separations and the uneasiness caused by the lengthening out of the weaning process. The ewes should be watched for three or four days to prevent spoiling of the udder. Some will need no milking at all, some will require it once, and very few will need it more than three times. They should not be milked dry, and once a day is often enough at first, with longer intervals later if the milking has to be continued. They should be turned on dry pasture for a few days. I have found it a good plan in the case of ewes with twins to leave the smaller of the two with the ewe for a week or ten days after the other has been taken off. It helps the weaker lamb and dries the ewe gradually, and it is generally a ewe-suckling twin lambs that has the greatest quantity of milk and requires attention at weaning time.

The lambs after weaning should have the best grazing the farm affords. Rape is good sheep feed at all times, but is at its best after the cool weather of fall has begun. The after-grass of good clover meadows is ideal lamb food and should be saved for them. New-seeded meadows are good for them also—better than the lambs are for the meadows. The practice of sowing rape thinly in spring grain crops furnishes a lot of valuable feed and improves the land at the same time. Adjacent pieces of rape and meadow have proved to be the very best arrangement for fall feeding of lambs—better than rape alone and just as profitable as rape and grain. Rape seems to be such a complete ration for lambs that for ordinary purposes grain feeding is unnecessary with it, but to the man who is possessed with the idea that the best lamb is none too good for him, a feed of grain will be found a good tonic for his young things in the morning, and he will find no difficulty in creating an appetite for the same thing in the evening. An important difference between the feeding of young and old stock is that with the young stock feed, by causing growth, is creating an increased capacity for more food, while in the case of old stock the capacity is fixed. Young stock running out is not likely to be fed off its legs. Generous feeding of young stock is profitable likewise because that growth in bone, frame, etc., as well as flesh, appropriates food elements more completely than the making of flesh alone does, as in the case with old sheep.

Ewe lambs require plenty of muscle- and bone-making rather than fat-making food, and their ration should consist principally of bran and oats. Wethers require more fattening rations, but the demand is not for fat sheep to such a degree that wethers and ewes should be separated. What will put the wethers in good shape will be none too good for your future ewe flock. In the case of ram lambs for breeding purposes heavier feeding is both desirable and necessary. The additional size, strength, and coarseness of the sex means grosser appetite; the restlessness of rams on the approach of fall means more food to keep them in good flesh; and to take the market well for breeding purposes, size from rapid growth and good looks from generous feeding are necessary. It is harder to get a ram fleshed up on top than it is a ewe. For these reasons peas and oil cake may be added to the rations of bran and oats, and the rams should be kept well filled all the time. The grains may constitute a larger portion of the whole ration for rams than they do for ewe lambs. Feeding suitable rations as to kind and quality, the only measure as to quantity is the appetite of the lamb. Feed enough to satisfy you that the lamb is ready to quit when the trough is empty.

**The Honor Roll Again.**

SIR,—In the construction of the notes under the record of 1888, in the Honor Roll of the Royal, I presume you took your data from the London Live Stock Journal of July, 1888, which reads as follows: "Mr. Robert Thompson (of Inglewood, near Penrith) takes five out of the eight first prizes; having also the champion prize for females, and holding reserve for champion males. Hardly ever before in the history of the Society have so many of its honors gone to one man. And the Inglewood winners were curiously alike. If it be a feat to accomplish—to have bred a lot of cattle with a strong family likeness running through the whole, and to have assured that that family type is a very fine type—Mr. Thompson (thanks to a very impressive sire) has achieved that feat." Speaking of the female section, it is said that Mr. Thompson's Molly Millicent is "almost an ideal Shorthorn. It is impossible to maintain that milk and meat cannot be combined when such cows are presented. They all have frames like Christmas bullocks and udders like dairymen's cows." Perhaps your historian might have given the Sheriff Hutton herd a little credit also for Mr. Handley's bull, Self Conceit (55026), and done no one an injustice. We had supposed Mr. Gibson intended to give us an elaborate description of a great many of the winning animals individually, but, with very few exceptions, it is a repetition of the report of the Royal Agricultural Show. With regard to the Duke of Northumberland, your historian says: "He must have been a freak, or our breeders have been standing

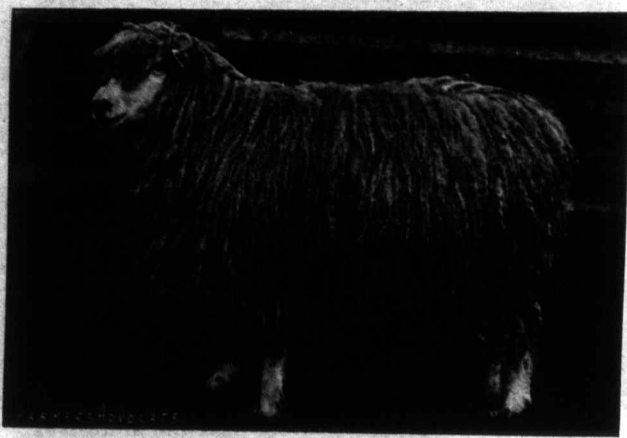


GUERNSEY BULL, SHEET ANCHOR. OWNED BY H. M'WOMBLY, MADISON, N. J.

limited to the pen and that has a comparatively roomy end of it available with tempting foods in it for himself alone.

A March lamb may be weaned by the end of June. If he has had grain food while sucking, so much the better; he will be large, lusty, and strong, and will not lose flesh. It will be advisable in all cases to feed some grain before weaning, and only a small quantity is necessary. A mixture of equal bulk of bran with a combination of chopped peas and chopped oats in equal weights is good. A good single handful of linseed meal mixed with a gallon of this will be profitably added and will help to preserve and increase the bloom of the young things. Mature sheep show no unground grain in their manure and may be left to do their own grinding. Many prefer whole grain for lambs even. For rapid gains I prefer ground feed before and even after weaning. Lambs eat and masticate ground food slowly. Of course, with ruminating animals all food goes pretty well through the mill. I cannot give any satisfactory reason for my choice of ground feed. I have a decided preference for it, however, as I feel that a little less will do them and they seem to fill out on it from the beginning. It may be that the fine grinding of the food lessens the work of the paunch itself, which triturates the food to some extent, and that the grinding likewise makes the elements of the food more easily acted on by the fluids secreted by the paunch. The slowness with which lambs lick up ground food suggests the idea of its passing directly over the gullet into the fourth stomach. In either of these cases there is an economy in the energies of the organism just as there is in feeding a sheep in the fold or pen instead of making him travel long distances for it. Experiments with ground and unground foods go to show that the grinding brings no more than enough advantage to pay for milling the grain. The experiment, to be valuable, should begin with the life of the lamb and last until matured or sold, as it is probable that in fattening lambs that have been rustling over rough foods the mastication of whole oats would be no tax on their energy compared to the increased and concentrated nutriment it would yield, and conversely the relief from feeding ground food would be no advantage.

still. I never yet met a breeder who knew him at his best but what said he was better than any they had since seen." I believe there are a very great number of breeders of the present day who would like to know wherein his superlative goodness consisted. His picture, reproduced in connection with the Honor Roll, is said to be a true likeness of the bull. If so, looking from the cut of the Duke to those of the other bulls illustrated, or to that of Bracelet on the same page, it is very easy to see where his defects lay, and he never was a remarkably good bull. There have been thousands of bulls that were his peers since his day. We knew Thos. Bates and we knew his cattle in his lifetime,



LINCOLN RAM LAMB "AI."  
BRED BY KIRKHAM BROS., BISCATHORPE. IMPORTED MAY, 1899, BY F. M. PERK, MT. MORRIS, N. Y., FOR MR. ROBERTS, PHILADELPHIA.

and he never owned as heavy-fleshed cattle as many we have seen since. We will admit that he was an artist, and that he put a finish on his cattle that we do not see to-day; but he bred his cattle in and in so much that he ruined them constitutionally. At the same time, it was wonderful how they retained their beauty of outline; and whenever they got onto any other family they invariably put that beautiful finish to their progeny. Mr. Bates never won a prize after the Booths stepped into the arena; nor were his cattle able to win in other hands until they got a cross of the blood of other good families, but were still called Bates cattle; and perhaps, this same statement applies to all breeders who have tried to hold a monopoly of certain families of Shorthorns. WM. LINTON, York Co., Ont.

Summarized Notes from English Shows.

At different county shows through England one or other of the different breeds are generally found more numerous than others; hence, to see an entry of Hampshire Downs alike remarkable for its number and quality we would find that the Wiltshire County Show was one at which this breed's entry is sure to be seen to great advantage. At this Society's show, May 31st to June 1st last, there certainly was an exhibition as fine a lot of this particular breed as we would desire to see. The Chilmark flock, property of Mr. James Flower, fully maintained its high reputation for the merit and quality of its exhibits, which were well-developed and grand typical specimens of this very excellent variety of sheep. The whole of the first prizes offered went to Mr. Flower, who also secured the champion award. Mr. Carey Coles, with a grand ram, came in for second honors in the yearling ram class, R. N. in the ramb lamb class (pen of five), and H. C. for ewe lambs. Mr. H. C. Stephens' big, well-developed pen of five ram lambs secured the second prize in their class; Mr. E. Whalley-Tooker being second for single ram lambs, running Mr. J. Flower very close for first place; and Mr. R. W. Hudson was second in the ewe lamb class for pen of five; Mr. G. Palmer being the owner of a typical and level pen that came in for R. N.

The Suffolk County Show at Bury St. Edmunds.—The most notable features of interest at this show were the grand display made by the Suffolk sheep, the Suffolk Punch horses, and the Red Polled cattle. Taking the sheep classes first, we find that Lord Ellesmere's flock were most successful, winning all the champion awards and the special for best collection of Suffolk sheep with his entries, the whole of which displayed a grand typical character, with excellent conformation and first-class wool and flesh. Mr. S. Hubert Smith, a young exhibitor, came in for first honors in both the house and the field ram lamb classes, the former of which numbered forty entries and the latter fifteen. Mr. H. L. B. McCalmont's flock was successful in the old ram class, securing the second prize with a grand specimen. Mr. R. Burrell's flock, as well as those of Messrs. A. Paley, J. W. Eagle, S. R. Sherwood, and R. W. Barclay, were also successful. The exhibit was a remarkable display of this breed, whose repute for mutton production of the highest quality rivals that of the Southdown, which breed made but a very small entry, but of capital quality, Earls Ellesmere and Cadogan being the successful winners.

The Red Polled cattle, alike useful as milk and beef producers—in fact, a breed many consider one that more nearly than any other represents the ideal general-purpose cattle—made a display of excellent quality and great merit, many of the successful animals being those bred by the late Mr. J. J. Colman, whose recent lamentable death

necessitated the dispersal of his world-renowned herd some time since at a very high average. There were three classes for bulls, and the following were owners of the winning animals, which were grand in type and character: Sir J. T. Rowley, Bart., James G. Platt, and T. G. Methold; whilst Messrs. R. H. Mason, Alfred Smith, the Hon. W. Lowther, and J. B. Dimmock were also successful. The female classes numbered four and contained as grand a lot of cows and heifers as one could wish to see, to the number of 23 entries, Mr. J. E. Platt leading in three classes, and Lord Amherst, of Hackney, in the other.

Suffolk Punches, a grand breed of most valuable draft horses, whose value for hardiness of constitution, great endurance, and quick action, appears not yet to have become well known to Canadian breeders. The demand for the geldings of this breed is a large one, and as this breed is one that can move, it would, we feel sure, be of value to your own farmers, for they would find them to be excellent horses for general farm work, and their produce would no doubt meet with a ready, lucrative sale if sent here broken at four or five years of age. Visitors from Canada are strongly recommended to take a trip in East Anglia and see these excellent horses at their home. The entry as a whole was one of sterling merit and high quality. As evidence of this we quote the fact that the judging took from 8.30 a. m. to 5 p. m. in the opening day to complete. Thirty-five entries filled the four classes of males, and the principal winners therein were W. H. Hewitt, Alfred Smith, and A. H. E. Wood. Sixty-four entries were made in the mare, filly and foal classes, representing as level, even, and typical an exhibit as we have ever seen of this breed, whose trueness to type, color, and character is well known. The leading winners, which represent the principal studs of the breed, were A. Smith, whose stud is one of the foremost in the breed; R. W. White, Sir Cuthbert Quilter, A. H. E. Wood, and John Symons.

A Canadian's Visit to the Old Land.

To the Editor FARMER'S ADVOCATE:

SIR,—Having just returned from a visit to England and Scotland, I thought a few items of what I



AUCHENBRAIN (£80).  
BORDER LEICESTER RAM. CHAMPION OF THE BREED AT GLASGOW AND PAISLEY, 1899.

saw there would be of interest to your many readers.

I attended the Bath and West of England Show at Exeter, which is second only to the Royal, and was somewhat disappointed in the exhibit of Shorthorns, especially in the male sections. I believe we can make as good a show of Shorthorns in Canada at our fall exhibitions. I saw no such animals as Royal Windsor, Lord Irwin, Sir Arthur Ingram, Telemachus, Lord Zelland, Bolivar and Edgar, Lady Fragrant, Vivandiere, Molly Millicent, and Queen Mary, as described by Mr. Gibson, and which I have seen shown at the Royal and other large shows in Great Britain. Mr. Mills' grand bull Marengo was not shown at Exeter. He is more of the stamp of the earlier Shorthorns, having great scale, very deep in his quarters, and beautiful character. I had the pleasure of inspecting Mr. Duthie's fine herd at Collynie. His stock bulls are a very grand lot, and the cows are just what a breeder would want to select a stock bull from, having large, deep frames and splendid udders. I find Mr. Duthie directs special attention to the milking qualities of his Shorthorns in using bulls from deep-milking dams. Mr. Marr was absent at Exeter, and we had only time to make a hurried visit. His cows have much of the fine character of his neighbors', and the fine old bull Wanderer heads his herd. Importers will find it very difficult to purchase cattle in Great Britain, as most breeders will not price their animals subject to the tuberculin test, and when a price is asked it is generally advanced about forty per cent., which, together with the cost of the testing, is a very serious item to the importer. I went across with Mr. W. D. Platt, Hamilton, to assist him in selecting his importation, and he has now in quarantine at Quebec twenty-three head, which will be a great acquisition to his already very fine herd.

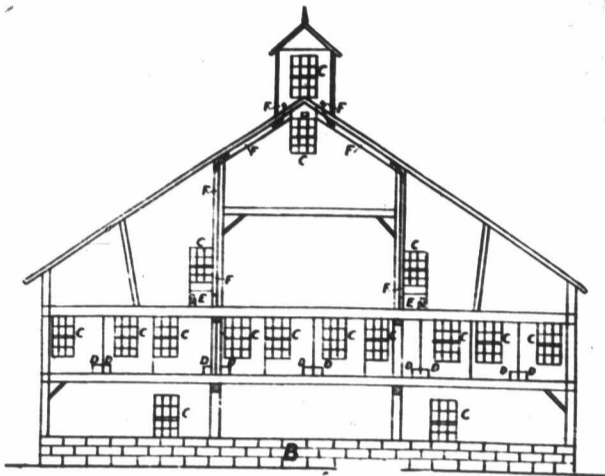
Brant Co., Ont., June 24th, 1899. JAMES SMITH.

Stables for Fattening Cattle and Swine on a Large Scale.

To the Editor FARMER'S ADVOCATE:

SIR,—In your issue of June 1st I notice an inquiry from Mr. John Wallace for plans of a barn for feeding 200 or 300 head of cattle. I herewith submit plans of my barn calculated to accommodate 125 head of steers to be fed loose, 100 hogs, 125 fowl, and from 8 to 10 horses, the principal object in view being to save labor in the feeding of the stock.

I have been feeding cattle for export during the winter months for seven or eight years, and until within the last year I fed the cattle tied in stalls, but last summer I altered my barn, and last winter



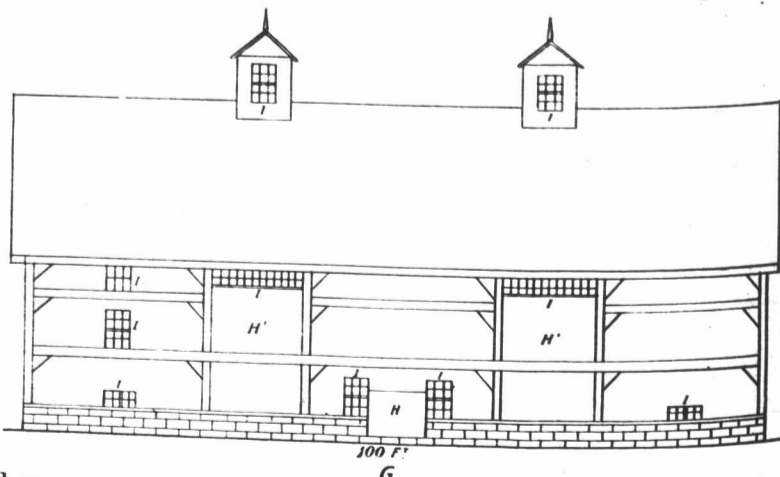
PLAN NO. 4 X—END VIEW OF STABLE RUNNING BACK FROM BARN OWNED BY A. S. M'BEAN.

- A—End view of cattle stable running off from barn.
- B—Three-foot stone wall.
- C—Windows in this end of building.
- D—Small doors leading from hen coops to yards below.
- E—End view of boxes running full length of stable in which chains for raising and lowering feeding racks are attached and through which hay is passed to feed racks when up. Boxes also used for ventilating, and from which spouts run up to cupola, marked with arrows.
- F—Ventilator shaft to cupola.

fed the cattle loose and all running together, with much better results.

My barn is 100 x 50 feet, feeding stable 105 x 65 feet, which is joined to the barn, forming the letter L reversed, as seen by plans. The whole building stands on a wall 2 feet thick and 2 feet above the ground, making a basement for cattle, pigs and horses; the basement in barn being 8 feet high, in which is the horse stable, implement shed, grinding apparatus, two stalls for sick animals, space divided off for hogs to sleep and feed in, and space for surplus roots. The boiler and engine are in a small building adjoining the barn on a level with basement, as seen in plan No. 1. The floor beneath the cattle is of earth, and beneath where the pigs are fed of cement concrete.

The basement of feeding stable varies in height: The two outside sections being 16 feet high, running from the ground to the loft; the middle section being 8 feet high, leaving a floor 23 feet wide on the second floor of the feeding stable, running from one end to the other on a level with the second floor of the barn, and a section 15 feet wide at each end of the stable on second floor, as shown in plan No. 2. The section nearest the barn, on the second floor, is used for large water tank, two stalls for milk cows, and hoisting apparatus for feed racks, and a bridge leading to basement, used in bringing up cattle to be weighed, and doors leading



PLAN NO. 4 Z—SIDE ELEVATION OF BARN OWNED BY A. S. M'BEAN.

- G—Front view of barn.
- H—Horse stable door.
- H1—Barn doors.
- I—Windows on this side of barn.

to barn floor.) The farther end of section is divided off into 10 pens for hens; the center section, with the exception of two feeding passages 5 feet wide on east side, is used for a turnip bin and pens for breeding cockerels, as shown in plan No. 2.

The third floor of feeding stable is used as a mow; the middle section being used for storing hay, the two outside sections for straw for bedding, as seen in plan No. 3.

The second floor of barn is used for granary, grinding room, tool room, office, barn floors, large mow over horse stable, weighing scales, hopper bins for oats used in feeding horses, root cellars,



and space where corn and straw cutter stand. The root cellars (f. f., plan 2) are rendered frostproof by being double boarded, with felt paper between, and a dead-air space of 6 inches between the lining and outside boards of barn. There is also a 2-inch space between the turnips and wall, and a 4-inch space on floor. This is made by nailing a 2 x 4 inch scantling on walls and nailing boards on this, leaving the boards about 4 inches apart. There is also a shaft running down through the center of the bin, arranged with slats, and in this way air circulates all around the turnips. The root house is filled by carts being dumped on the floor and the roots thrown back by men. Doors open off this floor into round silo adjoining barn, as seen by plan No. 2. The bottom of silo is about 6 feet lower than the floor of second flat, and the silage from the bottom is forked up into large trucks which stand on floor.

The third floor of barn over granary contains hopper bins, mows for hay and other feed, as shown in plan No. 3. In the peak of the roof of barn and stable is a track by which the mows are filled from the barn floor.

The horses are fed their hay through trapdoors opening off each barn floor, as shown in plan No. 2, and are watered from the tank in basement of cattle stable, and which is directly under a large supply tank on second floor of stable, and which is filled by a windmill or steam pump, as shown in

plan No. 1. The water can have the chill taken off it by a steam pipe, which runs from the boiler into the tank, as shown in plan No. 1. The capacity of the large tank is about 2,000 gallons, sufficient for three days' water supply. The cattle have constant access to water supply.

The stable is ventilated by bringing the fresh air in through a large box, which runs underground the full length of the stable, and which is brought up to the ceiling of middle section in basement, and runs back the full length of stable, with openings to distribute the fresh air into the stable. The air coming such a long distance underground has the chill taken off it, consequently no condensation takes place. The outside end of the ventilator is about ten feet above ground, and arranged with a wide-mouthed funnel with vane attached, so that the opening always faces the breeze. The warm and foul air is taken off by ventilators running up into cupolas, which have slides that can be opened or shut as required, regulating the temperature. A yard about 40 x 100 adjoins the stable, in which the cattle are allowed out on fine days.

The feeding racks are 16 feet long by 4 feet wide, divided into 16 boxes, 8 on each side, each box 2 feet square and 1 foot deep; 18 inches above top of boxes is the bottom of the hay rack, which is 1 foot wide at the bottom and 4 feet wide at the top, and 4 feet deep, having slats on the sides 6 inches apart. The boxes and rack are in one, and move together, as shown in small cut. There are four of these racks on each side of middle section, making a total number of feeding boxes 128. Chains are attached to each end of each rack, and run up and pass over pulleys, and join on to a main chain,

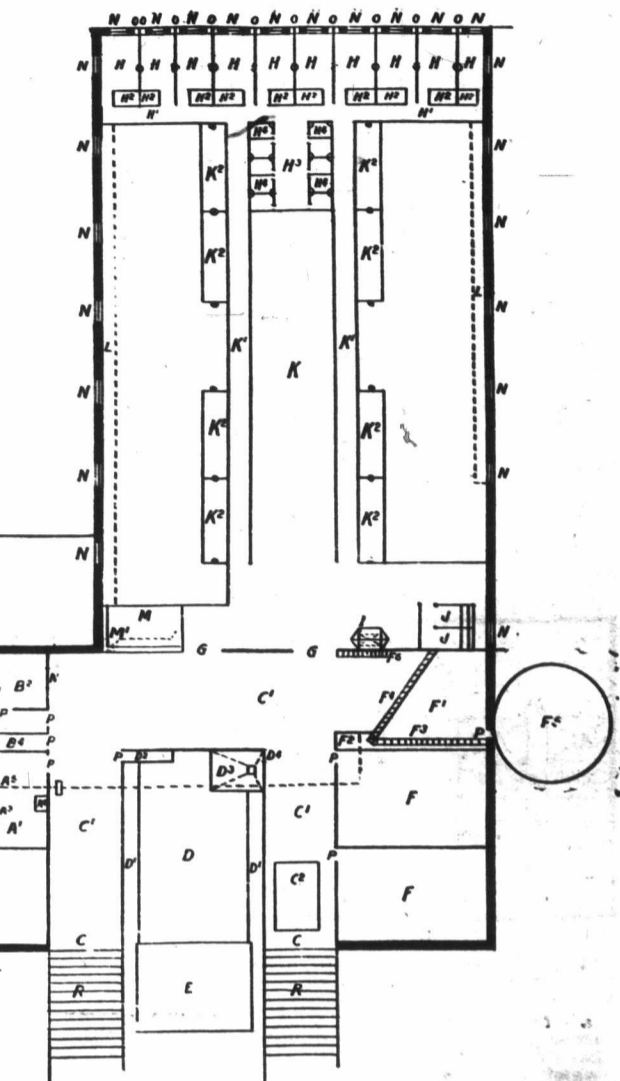
which runs the full length of the stable over the top of joists of loft floor, and which is covered by a box 3 feet wide by 3 feet high, the top of the box being arranged to open so as to allow racks to be filled with hay. On the end of the chain nearest the barn a large box is hung which contains sand, and weighs about 1,000 pounds heavier than the four racks when empty, so that when the box filled with sand is down in the basement the tops of the racks are up to the joists of the mow which contains the hay, the hay racks being filled through trapdoors. The feeding boxes are level with the floor of the middle section, and are filled from the 5-foot passages. When the racks are full they weigh from 1,000 to 1,500 pounds more than the box containing the sand, and go down by gravitation. A brake is attached to the main chain at the point where it passes through the floor, regulating the speed ascending and descending, and which is left on when racks are empty or full, so that they cannot move until brake is released. It will be seen that these racks work automatically, and require no power to raise or lower them. The racks slide on grooved posts, which run from the basement to the upper joists, and which hold the racks in position. These racks work on the same principle as a hoist

in a warehouse. It will be seen in plan No. 1 that there is space for five feeding racks on each side, but the center one is left out opposite each door, leaving a passage straight through the basement, making it more convenient for teams hauling out manure.

The pigs are fed in the space allotted to them in basement of barn, as shown in plan No. 1, so that the cattle cannot eat any of the pigs' feed. The pigs roam about among the cattle nearly all the time, picking up any feed that is dropped by the cattle. When the litter is changed in hen pens and dropped down through trapdoors into the basement the pigs pick up any odd grain that is left in the straw. This shows the advantage of having the hogs running loose with the cattle, as they are always foraging, allowing nothing to waste. I never had pigs that did any better.

The cattle are all dehorned when put in the stable. Very little crowding is noticed, each animal soon learning to choose a box and stay there until he empties it. The racks are filled and lowered, and remain down until within an hour or so of the next feeding time, the cattle having hay before them all the time.

The manure is not moved until some time in February, fresh straw being put down each day. The manure becomes packed, and is almost as hard as a wooden floor. No evaporation takes place nor



PLAN NO. 2—SECOND FLOOR OF BARN OWNED BY A. S. M'BEAN.

- A—Granary; a1, grinding room; a2, grinding apparatus which goes through floor; a3, elevator; a4, pulley just under floor; a5, shafting just under floor; a6, opening to hopper bin from barn floor where grain is dumped in from wagons and elevated to bins on top of granary for grinding.
- B—Stairs leading to upper part of granary which contains the hopper bins; b1, passage leading to door at the end of barn; b2, tool room; b3, office; b4, stairs to basement and engine room.
- C—Barn doors; c1, barn floors; c2, large scales on barn floor.
- D—Large mow over horse stable; d1, trapdoors arranged to feed horses from barn floors; d2, stairs leading to horse stable from barn floor; d3, hopper bin over horse stable used for storing oats for horses; d4, door for filling hopper bin from barn floor.
- E—Shed over horse stable door.
- F—Root cellars; f1, space where corn cutter stands, also elevator; f2, corn and straw cutter; f3, elevator in position for filling silo; f4, elevator in position for putting cut straw on loft over cattle; f5, silo; f6, steps leading to loft over cattle.
- G—Doors leading into cattle stable on a level with barn floor.
- M—Large water tank, capacity about 2,000 gallons; m1, pipes from windmill and steam pump and boiler.
- I—Apparatus for raising and lowering feed racks.
- J—Two stalls for milk cows.
- K—Large turnip bin; k1, feeding passages on either side of bin used for filling feed boxes of racks, also passage leading to hen coops; k2, feeding racks when lowered.
- H—Ten hen pens divided by wire; h1, three-foot passage running along in front of pens, used to feed hens and gather eggs; h2, nests with roosts on top; h3, space for keeping feed; h4, pens used for keeping breeding cockerels during winter season.
- L—Two-foot walk running along wall, used for opening and shutting windows.
- N—Windows in feeding stable and hen coops.
- Q—Small doors to allow hens to go down to yards.
- P—Doors in different parts of barn.
- R—Roof of engine room.
- It—Approaches to barn floors.

any of the gases escape. We did not use much more straw than when the cattle were tied, and a very much larger quantity of manure was made in the same length of time. The amount of straw used for 125 head of cattle, 60 hogs and 8 horses was about 1,800 pounds per day.

The labor required to feed 114 head tied in stalls, that number being the capacity of the stable when cattle were tied, was 2½ men, while the labor required in feeding 125 head loose, and 60 hogs, was 1 man. The wear and tear on the building was comparatively nothing, as the animals stood on the ground. No joist to rot out, no stanchions to repair, no chains to fix, nor water troughs to level and repair. We never had to curry an animal during the whole feeding period. We sprayed them three times with coal oil emulsion, using the Spramotor Co.'s spray pump, which gave excellent

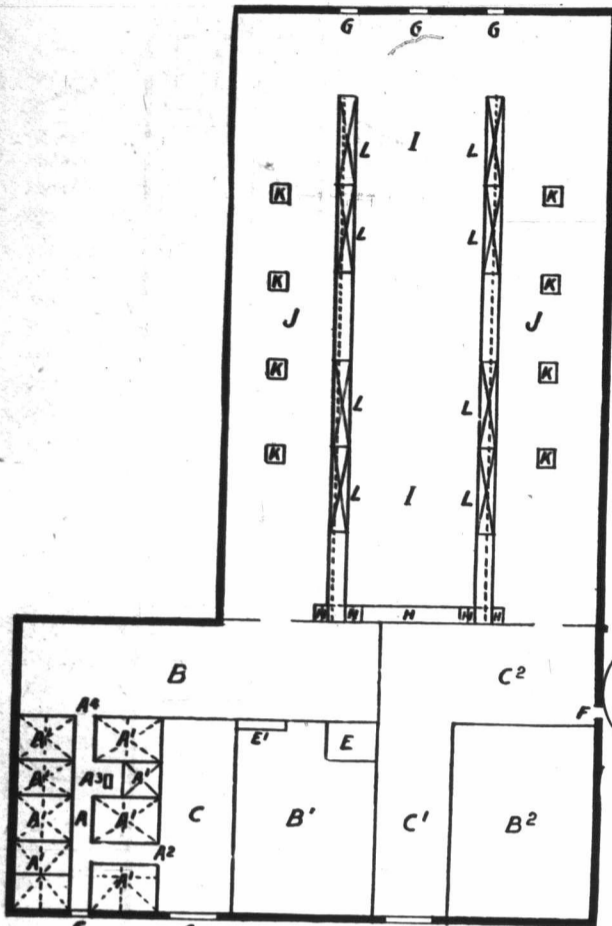


satisfaction. The spray was pumped on the cattle from the middle section above, the cattle all being driven to one side, and we were not troubled with vermin of any description. When they were shipped out they were as clean as race horses.

Glengarry Co., Ont. A. S. M'BEAN.

PLAN NO. 1—GROUND FLOOR OF BARN OWNED BY A. S. M'BEAN.

- A—Implement room; a1, grinding room; a2, leg of elevator; a3, hopper bin, which is filled from barn floor; a4, large driving wheel; a5, engine room; a6, engine; a7, boiler room; a8, boiler.
- B—Large well and windmill; b1, pipes from well to tank and steam pump; b2, pipes leading to tank.
- C—Stairs leading from upper floor from outside.
- D—Room for wood; d1, boiler used to cook pig and chicken feed; d2, pipe from boiler; d3, stairs leading up to barn floor.
- E—Horse stable; e1, furnace room; e2, stairs leading to barn floor; e3, bottom of hopper bin where oats are drawn for feeding; e4, bottom of hopper bin; e5, stalls.
- F—Space used for storing turnips; f1, two stalls for sick animals; f2, space used to enter horse stable and water horses.
- G—Hog pen; g1, troughs for feeding; g2, bottom of silo; g3, small door through which hogs go out into cattle stable, being too small to allow cattle to enter hog pen; g4, door leading into hog pen.
- H—Doors in different parts of the basement; h1, windows in different parts of basement.
- I—Approach to horse stable.
- J—Tank where cattle and horses are watered.
- K—Large basement for cattle.
- L—Feed racks down ready for feeding.
- M—Bridges graded to doors over stone wall; m1, doors into cattle stable; m2, passage running from one side to the other.
- N—Bridge leading up to barn floor used in weighing out cattle.
- O—Hen yards; o1, doors leading from one yard to the other; o2, small bridges leading from pens to yards; o3, large yard for ducks during summer; o4, small shed for ducks to lay and sleep in; o5, door leading to duck yard; o6, stairs leading to hen yards from pens on the outside of building.
- P—Large yard where cattle are turned out in mild weather; p1, gate leading from yard.
- Q—Box under ground bringing fresh air distributed from (R).



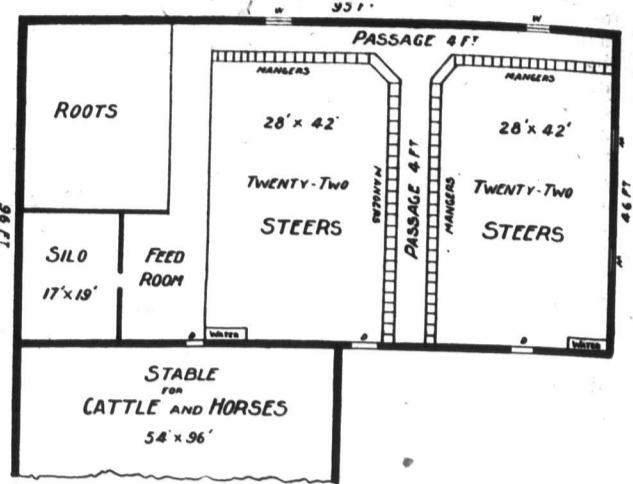
PLAN NO. 3—THIRD FLOOR OF BARN OWNED BY A. S. M'BEAN.

- A—Top floor of granary and passage from stairs; a1, hopper bins; a2, passage and door opening opposite barn floor; a3, top of elevator on which is a swivel spout, which can be adjusted to put any grain or feed into hopper bins; a4, door leading to second floor.
- B—Mow over tool room, office and barn floor; b1, mow over horse stable; b2, mow over root cellar.
- C—Space over barn floor; c1, space over barn floor where hay and straw are put in mows, either in barn or feeding stable; c2, space over straw and ensilage cutter, which allows elevator to swing into silo and over cattle barn.
- D—Silo.
- E—Top of oat hopper bin; e1, top over stairs leading to horse stable.
- F—Door into silo.
- G—Windows in different places.
- H—Passage to allow man to pass from one side of loft to the other when loft is filled with hay.
- I—Large mows used for hay.
- J—Spaces used for keeping cut straw for bedding.
- K—Trapdoors through which straw is dropped to basement for bedding.
- L—Top of feed racks and trapdoors through which they are filled with hay. Dotted line is the main chain used in raising and lowering feed racks.

out three times during the winter. Each pen has an 8-foot door, which makes it possible to back a wagon or sleigh inside to haul away the manure. Above each door is a 6-foot window, 20 inches high. The windows are hinged at the bottom, and when open provide ventilation without direct draft upon the animals.

The 49 head that were tied were fed on ensilage and cut straw and cutoatsheaves, with 6 lbs. corn chop per day. They were not quite as even a lot as the loose ones, nor did they present as thrifty an appearance. Some of their skins were scurfy and dry, while the loose ones presented a bloom and mellowness that indicated a very thrifty condition. The tied cattle had water before them constantly, and were never out of their stalls from fall till they went away on June 17th. They were mostly three-year-olds, but a few two-year-olds were scattered amongst them. They were not weighed when put into feed, but Mr. Forrester estimated the 89 head at about an average of 1,100 pounds each. When they went away the 40 head fed loose averaged 1,401 1/2 pounds each, and the 49 tied ones 1,335 pounds each. This difference cannot be taken as a basis for comparison between the two methods of feeding, as the loose cattle were of perhaps a bit better average class of cattle. They were selected for the box stalls on account of being dehorned. Mr. Forrester has fed cattle loose two winters, and holds a very high opinion of that method of feeding, as they take not more than half as much work as tied cattle. They are always apparently contented and ready for their meals at feeding time, and undoubtedly they gain some faster. Mr. Forrester's basement stables are not of a suitable form to divide up for loose feeding, but he thinks seriously of adjusting them for that purpose.

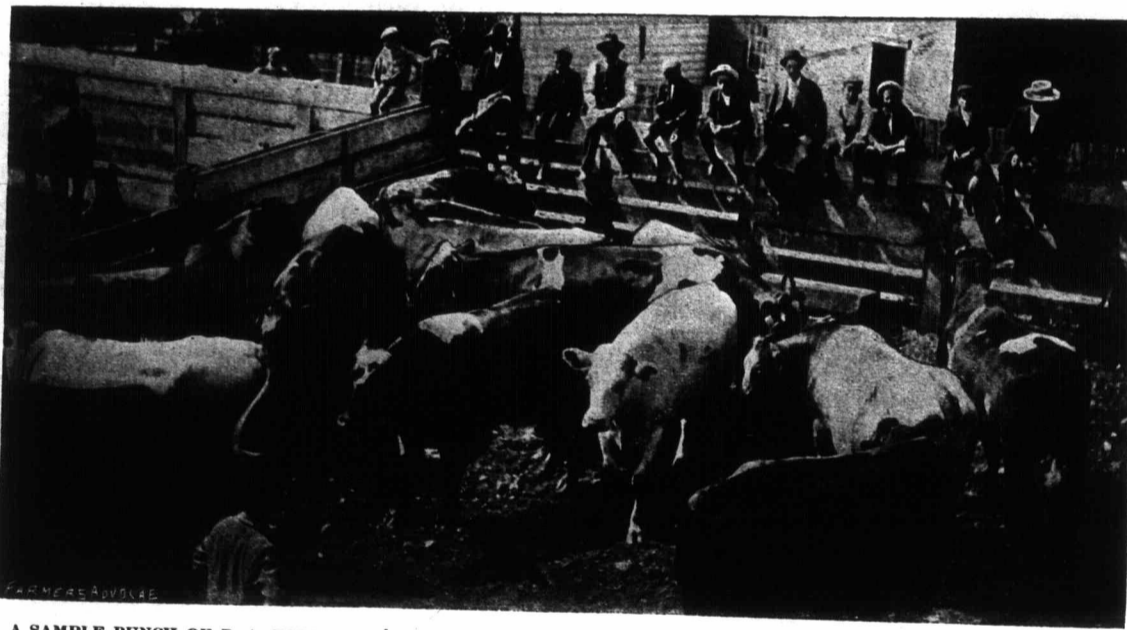
We might add that when Mr. Forrester was in Scotland a few years ago he looked into the systems of cattle feeding followed there, and found the plan of fattening cattle loose in compartments followed by many feeders altogether.



GROUND PLAN OF MR. WM. MURDOCK'S BASEMENT, SHOWING PENS WHERE 44 STEERS WERE FED LOOSE.

has fed 18 steers tied in double stalls, so that he has had a fair chance to estimate the relative advantages of the two systems. The pens in which the loose cattle are fed are floored with cement. They are furnished with water in each pen, and feeding mangers on two sides. The mangers of the old stalls, which were seven feet wide, are each divided into three compartments, separated only by a scantling at the top, so that stronger cattle cannot crowd the weaker ones away from the feed. The mangers are about 30 inches high, so that the feed is easily put in from the passage.

When the cattle were put in at the approach of cold weather they were fed on cut hay and straw and ensilage, with a light allowance of crushed grain. The hay and straw were mixed in equal parts and put into the mangers first. The chop was mixed with the ensilage, along with ten pails of water, twelve hours before feeding. This softened the granular particles, which were thus rendered easily digestible. At the commencement each beast received 20 to 25 pounds of ensilage mixed with four pounds of bran and chopped oats in equal parts. This was placed in the mangers on top of the cut straw and hay. With the feed was mixed half an ounce of salt for each animal daily. The ensilage was increased up to almost 30 pounds per day, and the meal ration to 10 pounds per day by New Year's, and then the grain consisted of three pounds of corn, one of peas and six of oats. Mr. Murdock considers corn more economical than peas at the prevailing prices, but as the peas he used were broken and buggy, he could not sell them to advantage. He is also favorable to bran feeding—especially in the



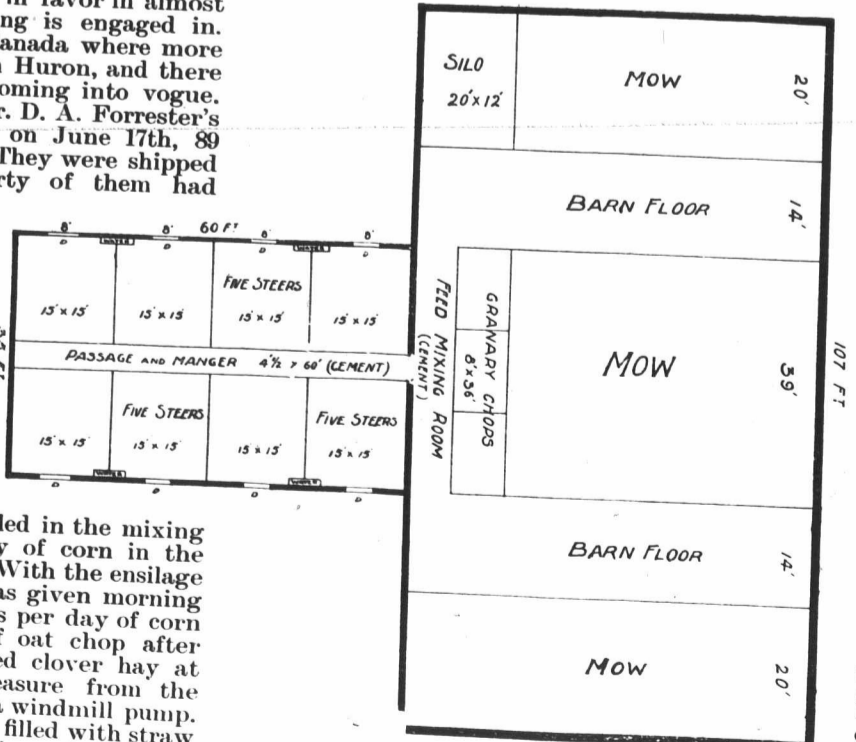
A SAMPLE BUNCH OF D. A. FORRESTER'S STEERS, FED IN LOOSE BOXES. AVERAGE WEIGHT, 1,401 1/2 POUNDS EACH.

**Feeding Cattle Loose in Pens of Five.**  
MR. D. A. FORRESTER, OF HURON CO., ONT., FED 40 LOOSE AND 49 TIED.

It is but a very few years since the fattening of steers in loose boxes was commenced in this country. We believe Mr. W. C. Edwards, M. P., Rockland, Ont., was among the first to discover its advantages, and the plan was soon investigated and adopted by other progressive spirits, until today we find the system growing in favor in almost every district where beef-raising is engaged in. There is perhaps no county in Canada where more good cattle are fattened than in Huron, and there we find loose feeding rapidly coming into vogue. Near the town of Clinton is Mr. D. A. Forrester's farm, from which he delivered, on June 17th, 89 head of nicely finished heaves. They were shipped by E. Watson, of Blyth. Forty of them had been fed loose in pens, and 49 tied in stalls. The loose lot were kept in bunches of five in the pens, the plan of which we show in this issue. The building of eight pens was planned and put up for loose feeding two years ago. The pens are each 15 feet square. The passage down the center is 4 1/2 feet wide, floored with cement, which is raised 2 1/2 feet above where the cattle stand. This passage forms the manger for the cattle on both sides. They were fed from a truck which is filled in the mixing room. The feed consisted largely of corn in the form of ensilage and corn chop. With the ensilage was mixed cut straw, which was given morning and evening, along with 6 1/2 pounds per day of corn chop, with a light admixture of oat chop after January 15th. They also received clover hay at noons, and drank at their pleasure from the troughs, which were supplied by a windmill pump. Above the pens is a loft, which is filled with straw direct from the threshing machine. The cattle were kept well bedded, and the pens were cleaned

**Forty-four Steers Fed Loose --- Bedding Not Used.**

The plan we give of Mr. Wm. Murdock's cattle-feeding barn, in Huron County, Ont., represents clearly the arrangement of the part where he has for two winters fed steers loose. Each of the two pens is 28 by 42 feet, and sufficient to accommodate 22 head. Mr. Murdock



GROUND PLAN OF MR. D. A. FORRESTER'S BARN, SHOWING ANNEX WHERE 40 STEERS WERE FED LOOSE.

early part of the season. The cattle were bedded for the first month, and cleaned out once a week. After that they received no bedding for a time, but the cement floor was scraped twice a day and cleaned out once a day. Mr. Murdock would prefer to use bedding, but his farm of 100 acres is not large enough to furnish sufficient straw. During the last six weeks they were bedded with cut straw, which gave them a chance to get cleaned up before being shipped. The 18 head of tied cattle were fed in the same way as the loose ones, but they received water only once a day and that when they were turned out. On February 3rd, 52 head of the cattle were sold. On April 5th, 40 of those fit to ship were selected out from the entire herd. Of the 44 loose animals 34 were chosen and six were selected from the 18 tied up. That is, about 75 per cent. of the loose-fed cattle were ready to ship early in April, when only 33 1/2 per cent. of the tied ones were equally well finished. The lots were very uniform when put in and were fed alike, but Mr. Murdock attributes some of the advantage of the loose cattle over the tied ones to their free access to water at all times. He claimed that when the cattle were in one month he could plainly see the loose cattle doing better. The last of the cattle went away about the last week in May, a well-finished lot. They were not heavy cattle, but well finished, weighing upwards of 1,250 pounds. Mr. Murdock is so well pleased with the loose feeding that he intends to enlarge his loose-feeding pens for the coming winter, and feed all his beefing cattle in that way. He is greatly in favor of ensilage, and is growing 14 acres of Leaming and Butler dent corn for his silo.

**LOOSE FEEDING FAVORED AFTER A TRIAL.**

Near the farm of Mr. Murdock is that of Messrs. John Kitchen & Son. For lack of stall space, Messrs. Kitchen fed six head of steers loose, in 1897-8, in a pen 16 by 18 feet. The cattle were considered too crowded, and last winter just three head occupied the box stall, while 14 head were fed tied. Their feed consisted of well-cobbed silage and cut straw, half of each by bulk, and a mixture















UNCLE TOM'S DEPARTMENT.

MY DEAR NEPHEWS AND NIECES,—

Hip, hip, hurrah! Don't you hear the merry shout? The hot, dusty school-rooms are all closed, and for six long weeks the well-thumbed books will be allowed to lie in silent state, while their owners revel in the freedom of holiday-time. The rosy June hours dragged on but slowly to those eager hearts whose anticipations not even the dread of approaching examinations could mar. Now that the much-desired time has really come, I hope all will find their fairest flights of fancy fully realized. Oh, that the joyous hopefulness of youth might never leave those merry hearts—that care might never leave its traces on those fair young brows! And yet I pause ere giving free utterance to such a wish, for a cloudless sky sates the sight, and one must have gale enough to ruffle the sails, would he ever reach his destination: for it is truly said that "No one ever worked his way in a dead calm."

Many things we are wont to call "misfortunes" prove stepping-stones to success, the gale that fills our sails and bears us on our long life-voyage. We must, however, look to our rigging and keep the sails trimmed and in proper shape, not only that we may catch the breeze, but that we may make it serve our purpose instead of being buffeted by it or driven upon the rocks.

We are often inclined to envy those fortunate beings whose wealth or social position appears to give them greater advantages than we can hope to enjoy, and yet if we take the trouble to look into the matter, we find that very many of the world's cleverest men have climbed from obscurity and comparative poverty to eminence and wealth. Homer was once a beggar; Cardinal Wolsey a butcher's son; the father of the great poet Virgil a potter; Robert Burns a simple plowman; while Shakespeare, Daniel Webster and Abraham Lincoln were farmers' sons. Coming to our own day, we find that Garfield worked his way "from log cabin to White House." Again, Mr. Schurman, who receives a large salary as secretary to the present President, was thirty years ago working in Prince Edward Island for a salary of thirty dollars a year. By dint of hard studying he won a scholarship worth sixty dollars a year; then he went to college and paid the remaining fees by acting as accountant for different merchants every moment of his spare time.

The accident that deprived Prof. Mills of his hand was instrumental in advancing him in his after career, for by incapacitating him for farm work it caused him to turn his attention to study. I might quote many similar instances to show that so-called adversity is often a blessing in disguise, but I know you are anxious to be off to play, so I will say good-bye for this time.

Your loving—UNCLE TOM.

The Meadow Lark (*Sturnella magna*).

This pretty, plump little bird is familiar to many of us. As we walk through the fields we often hear the sweet, plaintive call, to which some song-bird lovers have fitted these words: "Betsy-de-ah—Betsy-de-ah—" "Spring o' ye-ah—Spring o' ye-ah." The plumage is brown and yellow, speckled with black. It has a curious habit of seldom perching upon trees, but generally preferring fences or telegraph poles. This propensity, however, is of the greatest service to farmers, for when the cutworm begins its dreaded work our little meadow lark comes nobly to the rescue, as the tree-loving birds do not see these horrid ground caterpillars; but our friend *does* see them—and a fine meal is made! It walks with a dainty step (as the picture would indicate), and, every now and then, stops to give its tail a little nervous twitch, which is very funny. It eats various weeds, but the chief food is insects:—favorite of all, the grasshopper, which, we suppose, is a very dainty dish to set before the king—if the king happens to be a grasshopper epicure! It has been proved that the meadow lark's food consisted of a large percentage of insects even when the ground was covered with snow, which speaks much for the bird's skill in finding what it preferred. As a rule, meadow larks are not looked upon as enemies to agriculture, and are usually left in peace. Sometimes, however, they fall victims to the cruel gun, for they are considered to be a great table delicacy. The writer—alas!—has eaten roast lark—about a hundred years ago—but now feels quite ashamed of it. This plump little lark looks so innocent—but, still, what horrid things he eats!

Kitty Knew About Sheep.

"Seven sheep were standing  
By the pasture wall.  
Tell me," said the teacher  
To her scholars small—  
"One poor sheep was frightened,  
Jumped and ran away,  
One from seven—how many  
Woolly sheep would stay?"

"Up went Kitty's fingers—  
A farmer's daughter she,  
Not so bright at figures  
As she ought to be.  
"Please, ma'am!" "Well, then, Kitty,  
Tell us if you know."  
"Please, if one jumped over  
All the rest would go."

Puzzles.

[The following prizes are offered every quarter, beginning with months of April, July and October: For answers to puzzles during each quarter—1st prize, \$1.50; 2nd, \$1.00; 3rd, 75c. For original puzzles—1st, \$1.00; 2nd, 75c.; 3rd, 50c.]

This column is open to all who comply with the following rules: Puzzles must be original—that is, must not be copied from other papers; they must be written on one side only of paper, and sender's name signed to each puzzle; answers must accompany all original puzzles (preferably on separate paper). It is not necessary to write out puzzles to which you send answers—the number of puzzle and date of issue is sufficient. Partial answers will receive credit. Work intended for first issue of any month should reach Pakenham not later than the 15th of the month previous; that for second issue not later than the 5th of that month. Leave envelope open, mark "Printer's Copy" in one corner, and letter will come for one cent. Address all work to Miss Ada Armand, Pakenham, Ont.]

- 1—  
1. What tree is called the dancing tree?  
2. " " " " housemaid's tree?  
3. " " " " is the tree that is nearest the sea?  
4. " " " " forbids you to die?  
5. " " " " where ships may be?  
6. " " " " tree is warmly clad?  
7. " " " " the schoolboy's restraint?

BUTTERCUP.

2—RIDDLE.  
We are five little creatures, all of different voice and features. One of us in *glace* is set, one of us you may find in *jet*, another you may see in *tin*, and if the others you wish to find, we never fly from *you*. What are our names?

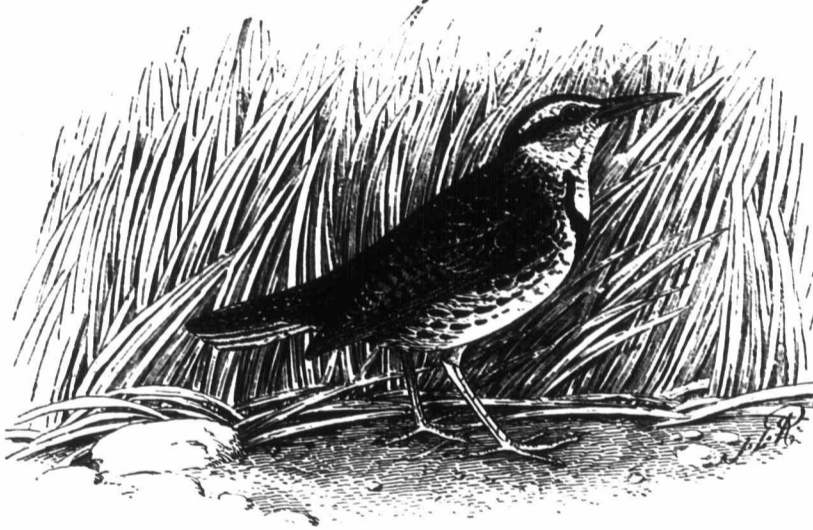
BUTTERCUP.

3—DOUBLE ACROSTIC.

In "friends" we like,  
In "soldiers" with pikes,  
In "rambler" who bikes,  
In "painters" on strike  
Led by the renowned Mike.

In "printers" fond of pie,  
In "sailors" drinking rye,  
In "buffoons" who dye,  
In "juveniles" that cry  
And really don't know why.

In "Cupids" with arrows,  
In "animals" that burrow,  
In "farm boys" that will harrow  
The wheat field to-morrow.



THE MEADOW LARK.

Twice you have to read me down  
Ere the answer correct is found;  
Days of celebrations then you'll get,  
That loyal Canadians never forget.  
"ARRY AWKINS."

4—NUMERICAL ENIGMA.

My 2, 10, 3, 6 is to avoid.  
My 12, 2, 1, 7 is labor.  
My 4, 11, 3, 1, 8 is bold.  
My 9, 11, 6 is a vessel.

Whole, one of the most enjoyable parts of our "Dom."  
"ARRY AWKINS."

5—SUBTRACTION.

Take thousand from a sum of money and leave to expire.  
Take one from to hasten and leave a pronoun.  
Take 500 from grub and leave charge.  
Take 500 from beverage and leave a place of enjoyment.  
Take 50 from a support and leave reposed.  
Take 1/4 of one from a vein of metal and leave a boy's name.  
Take 1000 from a vessel and leave to plunder.  
Take one from to stop and leave a pen.  
Take part of three from flow and leave to mind.  
Take 100 from a play and leave charge.  
Take 1/5 of eight from to acknowledge and leave a large basin.  
Subtractions added will give the name of a popular novel.  
"ARRY AWKINS."

6—

We belong to a school of twenty-six;  
Our captain, who leads us, is called No. 8.  
We're a part of the body that sometimes doth ache.  
The next in command is called No. 5.  
After five comes another, and he's No. 1.  
I'll make this a vowel that him you can't shun.  
Now we have three, but there's one to come yet.  
That man, on the list, is named No. 4.  
Those make the whole, and you want no more.  
You can't work without it or leave it at home.  
With your wits about you you can see it, I'm sure.  
There's only four needed, and you want no more.  
RUPERT NEPTUNE.

- (1) Work around the field, and practice with the swords.  
(2) The small boy's and the stone cutter's favorite.  
(3) To drop from a high place, and just before winter.  
(4) What the coppers carry, and a person's name.  
(5) What belongs to a window and to a girl's dress.  
(6) He plays in the band, and to sell his goods he must travel.  
RUPERT NEPTUNE.

8—CHARADE.

My *first* takes an almost princely rank  
(Pronunciation not the best);  
My *second* is found in "of"—how frank!  
My *third* soon make one sigh for rest.  
My *whole* now find in our fair, free land,  
A refuge from a despot's hand.  
"K. K."

9—ACROSTIC.

(Words of the same number of letters.)

1. Fencing material; 2, a bay; 3, a Mohammedan pilgrim to Mecca; 4, a harbor; 5, remains of burnt bodies; 6, proportion; 7, a ditch.  
Primals and finals spell one of our "Cousins" who has made a very satisfactory standing during the past year.  
"DICKENS."

10—ANAGRAM.

When difficulties block our way,  
And pause we must in dire dismay,  
Shall we retreat and shun the fight,  
Deny the truth, betray the right?  
NO EVER DARE.  
F. L. S.

11—CHARADE-RIDDLE.

Every married SECOND is a FIRST, but not every FIRST is a WHOLE. Every WHOLE, though, is a SECOND and a farmer.  
F. L. S.

Answers to June 1st Puzzles.

- 1—Sinai, Anna, nothing, two—Santiago.  
2—Shark—hark; table—able; maid—aid; gate—ate.

3—Pestilent  
e stover  
nacre  
era  
t  
mar  
extra  
neglect  
TRANSFUSE

- 4—Simple Simon, Una, Buttercup, Toledo, Jessie Hyde, A. E. T., Barney, Ogma, Dickens.  
5—Elephant, gorilla, weasel, giraffe, antelope, bearer.

SOLVERS TO JUNE 1ST PUZZLES.

Emma H. Humble, M. R. G.

ADDITIONAL SOLVERS TO MAY 15TH PUZZLES.

M. N.

COUSINLY CHAT.

Rupert Neptune.—We are very glad to have you for our cousin, and hope you will long be one of our number.  
K. K.—You are very welcome also. We have several cousins from your country.  
F. L. S.—I thought you had deserted us altogether, and am pleased to find myself mistaken.

I notice a considerable falling off in our list of solvers, while contributors of original puzzles continue to come in. Why do not all send answers as well, and kill both birds with the one stone? We commence a new quarter with this issue, so all begin anew, and let us have a larger circle than ever.  
A. A.

Recipes.

JELLIED CHICKEN.

Boil a chicken in as little water as possible until the meat falls from the bones, chop all fine and season with pepper and salt. Now put in a mold a layer of hard-boiled eggs cut in slices, and then the meat in layers with the eggs until the mold is full. Boil down the liquor left in the pot and add a tablespoonful of gelatine, and when dissolved pour into the mold with the meat. Set in a cool place over night and then turn out when wanted.

RASPBERRY VINEGAR.

To four quarts of red raspberries put enough vinegar to cover, and let them stand twenty-four hours. Scald and strain it, and add a pound of sugar to every pint of juice. Boil for twenty minutes, and bottle.

RASPBERRY ICE.

One quart berries. Extract the juice, and strain. Add one pint of sugar, let dissolve in the juice, half a pint of water and the juice of one lemon. Freeze like ice cream.

DELICATE PUDDING.

One cup sugar, 1 cup milk, 1 egg, 1 cup of raisins, and butter the size of an egg; 2 teaspoonfuls of baking powder, and flour to make a stiff batter. Steam one hour. As this makes a large pudding, allow plenty of room for rising.

A Reader's Lament.

I cannot read the old books  
I read long years ago—  
Eliot, Dickens, Thackeray,  
Bulwer, and Scott, and Poe;  
Marryatt's yarns of sailor life,  
And Hugo's tales of crime  
I cannot read the old books,  
Because I haven't time.

I love the dear old stories,  
My thoughts to them will stray;  
But still one must keep posted on  
The writers of to-day.  
My desk is piled with latest books  
I'm striving to dispatch;  
But ere I've finished all of them  
There'll be another batch.

Hope's new one isn't opened yet,  
I've not read James' last,  
And Howell's is so profligate now,  
And Crawford writes so fast;  
"Evelyn Innes" I must skim,  
"O'er 'Helbeck' I must pore,  
"The Day's Work" I'll enjoy, although  
I've read the tales before.

And then there is "The King's Jackal,"  
"The Gaddy," "Caleb West,"  
"Silence," "The Forest Lovers," and  
I can't name all the rest.  
I'll try to keep up with the times,  
But oh! I hope that I  
May read my "David Copperfield"  
Once more before I die.

Corydon Wells, in the "Bookman."

CENTRAL CANADA....

Exhibition Association

TWELFTH ANNUAL EXHIBITION AT OTTAWA, ONT., SEPTEMBER 11th TO 23rd, 1899 TWO WEEKS.

This exhibition is second to none in Canada for Live Stock Accommodation, Quality of Exhibits, Excellence of Attractions.

Grounds extended and several new buildings erected since last exhibition. \$1,500.00 added to Prize List this year, principally in the Live Stock Department. Offered in purses for Horse Races, \$3,000.00

"Bombardment of Pekin"

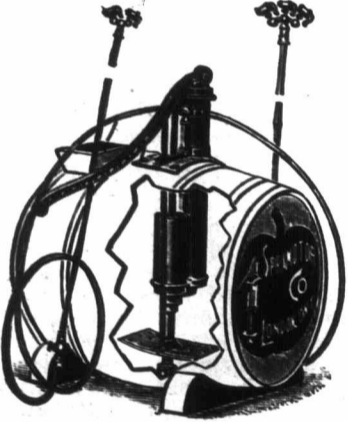
Reduced rates on all lines of travel. For Prize List, Race Programmes, and all information, write the Secretary.

Wm. Hutchison, M. P., President. E. McMahon, Secretary. 26 Sparks St.

ALL SPRAYING, DISINFECTING AND WHITEWASHING CAN BE DONE WITH THE

SPRAMOTOR

It is the result of most careful and exhaustive experiment. Each feature was thoroughly tested before being placed on the market.



If you desire any further information, let us know and we will send you a 72-page copyrighted catalogue and treatise on the diseases affecting fruit trees, vegetables, etc., and their remedies.

SPRAMOTOR CO., 357 RICHMOND ST., LONDON, ONT. Mention this paper. AGENTS WANTED.



The Farmers' Binder Twine Co., Ltd., BRANTFORD, ONTARIO,

Take this medium of impressing upon the users of twine the importance of not buying a single pound outside of their agents, for the harvest of 1899, if this co-operative movement of three thousand farmers is to be held in existence for future competition. There is no necessity to say anything further. Every intelligent man in the country understands the importance of this advice, and if they have not already found it out, the sooner they get there the better for themselves.

THIS is the Company that sold you, as farmers, their entire output of last year (1,500 tons of twine) at HALF what others were charging.

JAMES COOPER & SON, KIPPEN, ONT., IMPORTERS AND BREEDERS OF Registered Shropshires.

Fashionably bred and true to type. Only the best specimens of the breed kept. Selection in breeding our stronghold.

50 ram and ewe lambs for sale. 20 yearling rams also to sell. A limited number of yearling ewes.

CLYDESDALES, AYRSHIRES and POULTRY.

We are now offering a limited number of imported stallions and mares, and booking orders for young Ayrshires from our show cows. Shetland ponies and fancy poultry. R. Ness & Sons, Howick, Que.

GOSSIP.

The New Brunswick International Exhibition will be held at St. John, September 11th to 30th. Chas. A. Everett, St. John, N. B., is the manager and secretary. The Nova Scotia Provincial is fixed for Sept. 23rd to 30th, at Halifax. Secretary, J. E. Wood.

A FINE IMPORTATION OF SHORTHORNS.

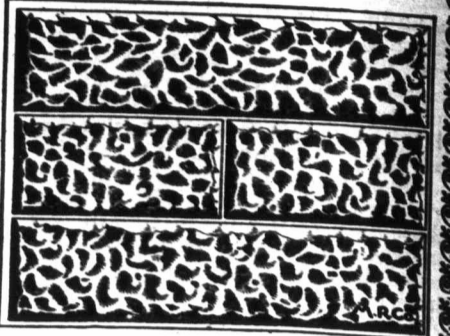
Mr. W. D. Flatt, Hamilton, Ont., finding a growing demand for Shorthorns from his well-known Trout Creek herd, recently made a visit to England and Scotland, accompanied by Mr. James Smith, of Brantford, formerly manager of the Bow Park farm and herd, one of the most reliable judges of cattle in Canada, and made selections of 23 head of choice animals (5 bulls and 18 females) from several of the best herds in the Old Country, which are now in quarantine at Quebec, and which, judging from the character of the herds from which they come, the ambition of Mr. Flatt to own the best, and the united judgment of himself and Mr. Smith, will no doubt prove a valuable acquisition to the Trout Creek herd and to the sum total of high-class cattle in Canada. Mr. Flatt's herd now numbers very close to 100 head, and in breeding and quality ranks high among the best and will compare favorably with any herd in America. Mr. Flatt writes: "I found good things very scarce and prices extremely high. There were four herds in Great Britain which impressed me very much. They were those of Messrs. Duthie, Marr, Philo L. Mills, and R. & W. T. Garne. These herds certainly contain the dual-purpose cow - milk and beef combined. Their great success lies in the use of strictly first-class sires from good milking dams of the natural, fleshed sort, and if we wish to attain that point we must use sires that will improve our herds." Among the bulls in this importation is the roan yearling, Master of the Clan, a strong, sappy bull, bred by Mr. Duthie, Collynie; sired by Chief of the Clan; dam Mademoiselle 8th, of the favorite Uppermill Missie family, whose dam, Mademoiselle 5th, is granddam of Mr. Peterson's bull Merry Hampton, second prize at Highland show and first and champion at the Ross-shire show, and sold for \$1,500 to Mr. Dustin, of Illinois. Precious Stone is a roan two-year-old bull, of good size and quality and commanding style; bred by Mr. A. M. Gordon, Newton Insh, N. B.; sired by Touchstone, bred by Mr. Cruickshank, sire of Mr. Harrison's show bull Cornelius. His dam, Pauline, is said to be one of the best milkers in Scotland. Proud Crescendo, a red yearling by Crescendo, an exceedingly well-bred Cruickshank bull; dam Maggie Undine 7th, by Proud Duke, from a William of Orange cow, is a thick-fleshed, well-proportioned bull. A very promising red bull calf of three months is Yeoman of the Guard, bred by Mr. Mills and sired by Royal Chamberlain. His dam, Emma 24th, is a show cow in form and was entered at the leading shows to compete in the milk test. Gladiator is another three-month-old red bull calf from Mr. Mills' herd, by Pride of Fashion, bred by Mr. Duthie. Among the females are five charming young heifers from the Ruddington Hall herd of Mr. Mills, two of which are daughters of Marengo, winner of 22 first prizes and 6 championships, including the Royal Show of 1898, and who will undoubtedly add more to the list this season. One of the Mills heifers, Lady Blanche Douglas, is by Scottish Victor, a son of Mr. Duthie's Scottish Archer, bred by Mr. Cruickshank, and from a Sittyton Victoria, one of the very best of the Cruickshank tribes. Another, Pure Cream, said to be one of the most promising yearlings seen in Great Britain, is a daughter of Nonpareil, by Emancipator, the sire of Mr. Flatt's imported stock bull, Golden Fame, for which he paid \$720. Mario's Heiress, a roan yearling daughter of Marengo, and for grand-sire the prize-winning Star of Morning, and for great-grand-sire Mario, winner of 1st prize at the Royal, at Windsor, in 1889. This heifer, too, is a winner, having won 1st at Nottingham, 2nd at Peterboro, and 2nd at Lincoln in 1898. From the herd of Mr. A. M. Gordon comes the cow Red Ruth, of the famous Sittyton Clipper tribe, a 1st prize winner in the Old Land, and a daughter of Star of Morning, who is a grandson of Field Marshal and sire of numerous winners. Lady Douglas, bred by Mr. James Durno, Rothie, is a roan 4-year-old that has won six first prizes, including 1st at the Royal Northern at Aberdeen. Her sire, Lord Douglas, a winner of six first prizes, is a son of Lavender 46th, who was the dam of the great American bulls, Duke of Lavender and Lavender Lad. Lady Douglas is of the same family as Challenge Cup, the Royal winner; also of Mr. Harrison's Bright Archer. A cow of remarkable scale and quality is Beta 3rd, a roan 4-year-old, from the herd of Sir A. H. Grant, Morning, her breeding being a happy combination of Booth and Cruickshank. Butterine is a substantial roan 3-year-old, bred by Mr. J. B. Manson, Kiblean, Old Meldrum, by Merryman, bred at Uppermill, and a son of William of Orange, Mr. Marr's noted stock bull. Her dam's sire, Touchstone, bred by Mr. Cruickshank, Sittyton, is the sire of Mr. Harrison's show bull, Cornelius. Gladys, a red 2-year-old of grand presence and promise, is from the herd of Mr. Bruce, Fochabers, and was got by Sigmund 2nd, and her dam by Dashwood, bred by Mr. Duthie. Ruby Lass, Rosebush and Isabel are a trio of 2-year-olds, of fine form and quality, from the herd of Mr. Jamieson, Mains of Waterton, sired by Topsy, and used many years by Mr. Cruickshank, who considers the breeding of these heifers choice. Five large, heavily-fleshed and top-milking cows, from the herd of Messrs. Garne, of Gloucestershire, of standard English tribes, topped by Scotch-bred bulls of superior merit, complete the consignment now in quarantine, and which is, all things considered, one of the most important importations made to Canada in years.

AN IMPORTANT SALE OF JERSEYS. Messrs. W. A. Reburn & Co., Massawippi, Stanstead, Quebec, announces in our advertising columns that they will dispose of their entire herd of choice Jersey bulls, about fifty head, on or about July 26th. These consist of the best selected from the original herd of Mr. Reburn, Sr., and their product, and are principally pure St. Lamberts, of the best lines of breeding. Fuller particulars may be given in our next issue. In the meantime those interested will do well to write for a catalogue.

Are You Building?

WHY NOT USE OUR Rock-Faced Stone?

STEEL SIDING - GALVANIZED OR PAINTED.



It makes a wonderfully durable and economical covering for new buildings, or for improving old ones.

Gives a most handsome effect - is very easy to apply - offers fireproof protection, and can't be penetrated by dampness. By deciding in its favor you will get the best results at least expense. WRITE US if you're interested - we'll send full information.

THE METALLIC ROOFING CO'Y (LIMITED), 1185 King St. W., TORONTO.

AUCTION SALE

50 PURE ST. LAMBERT Jerseys

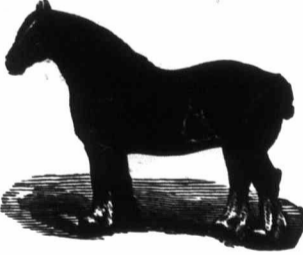
ON OR ABOUT JULY 26th, 1899.

WE will sell our entire herd, composed of 20 cows (in milk, or soon due), 23 heifers (in calf) and heifer calves. One aged bull, one yearling and five bull calves. All first-class. Particulars and terms, see next ADVOCATE. For catalogues, address -

W. A. REBURN & CO., MASSAWIPPI, QUEBEC.

FOR SALE... IMPORTED AND CANADIAN-BRED Clydesdale Stallions

From One to Four Years Old. Also



SEVERAL THREE YEAR OLD FILLIES, All registered and warranted sound. Inspection invited.

ROBT. DAVIES,

Thorncliffe Stock Farm, TORONTO.

FOR SALE: Nine Clydesdale Stallions

Just landed from Scotland; also a few imp. and home-bred Shorthorn females.

JOHN ISAAC, KINELLAR LODGE, MARKHAM, ONT.

River Bow Stock Farm. B. SNARY & SONS, CROTON, ONT., Breeders of

Shorthorn Cattle, Poland-China and Chester White Swine.

We offer for sale seven good young bulls, from seven to twelve months old; eight heifers of choice quality and breeding. Sired by Chief Captain. Pigs of both sexes and all ages at moderate prices, quality considered.



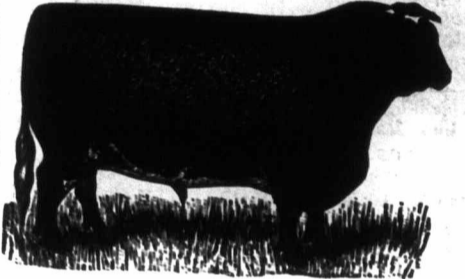
Shorthorns and Shropshires.

I have a few promising young bulls on hand, and am looking orders for Shrop. ram lambs for fall delivery; well covered.

GEORGE RAIKES, BARRIE, ONT.

ARTHUR JOHNSTON

Greenwood P. O. and Telegraph Office,



OFFERS FOR SALE

15 SHORTHORN BULLS FIT FOR SERVICE; 3 IMPORTED. 25 COWS AND HEIFERS Including 9 recently imported heifers. Prices right. Catalogues on application. Clarendon Station, C. P. R.

Pickering Station, G. T. R. "NO BUSINESS, NO HARM."

W. D. FLATT, HAMILTON P. O. and TELEGRAPH OFFICE,



OFFERS FOR SALE

Twenty-two Shorthorn Bulls CHOICE from three to fifteen months old. Persons requiring show bulls can be supplied from this bunch.

TWENTY COWS AND HEIFERS served by imported bull, Golden Fame = 26056 - Farm 6 miles from Hamilton. Catalogue sent on application. Visitors met at G. T. R. or G. P. R., if notified. Prices consistent with quality. Inspection invited.

JOHN DRYDEN, BROOKLIN, ONTARIO, BREEDER OF Scotch Shorthorns, Choice Shropshire Sheep.

SHORTHORN CATTLE AND LINCOLN SHEEP. Imp. Baron Blanc 11th at head of herd. Seven young bulls for sale - good ones. Also a few females. Stud rams all imported from H. Dudding, Esq.; the same blood as the 1000-guinea ram.

J. T. GIBSON, DENFIELD, ONT.

Maple Lodge Stock Farm SHORTHORNS. - Imported Knuckle Duster, and the great sire and show bull, Abbottsford, in service. Several choice heifers for sale, and a grand lot of young bulls by Calthness, from good milking dams. Some splendid Leicester ewes and rams for sale also.

A. W. SMITH, MAPLE LODGE P. O., ONT.

F. BONNYCASTLE & SONS  
CAMPBELLFORD P. O., ONT.

BREEDERS OF  
Shorthorns, Cotswolds, and  
BERKSHIRES.  
Have 9 bull calves for sale, from 1  
to 8 months old, price from \$45 to  
\$60 each (registered). Also heifers  
and heifer calves; 30 Berkshire pigs,  
from 5 weeks to 5 months old, from  
\$5 to \$10 each (registered).

SHORTHORNS FOR SALE  
HERD ESTABLISHED 1855.

A number of Young Bulls, Cows and  
Heifers for sale. Herd headed by imported  
Christopher = = =, and Duncan Stanley  
= 16361 =. Grand milking cows in herd.

JAMES DOUGLAS, -om- CALEDONIA, ONT.

SHORTHORNS  
9 BULLS, 4 HEIFERS,

Mostly Scotch-bred, and got by such bulls as Kinellar  
Sart (imp.), Northern Light (imp.), Prince and Prince  
Riarrack. Prices right. Correspondence Soli-  
cited, and Visitors Welcome.

G. A. BRODIE,  
Stouffville Sta., G. T. R. BETHESDA, ONT.

Scotch Shorthorns For Sale:

90 HEAD TO SELECT FROM.

We are offering a number of cows  
and heifers (including some show  
heifers), from such sires as Valkyrie  
= 21806 =, Young Abbottsburn's  
Heir = 15947 =, and imp. Mariner  
= 3720 =, served by imp. Diamond  
Jubilee (Vol. 15) now at the head of  
herd. Farm 1 mile north of town.  
T. DOUGLAS & SONS,  
-om- Strathroy Station and P. O.

W. G. PETTIT & SON,  
FREEMAN P. O., Burlington Junction  
ONT. Telegraph Office.

10 SHORTHORN BULLS 10

By Indian Statesman = 23004 =, from 10 to 20 months.  
Twelve young cows or heifers with calves by side or  
in calf. Twelve ram and 20 Shropshire ewe lambs,  
sired by (Imp.) Flashlight. Also, Berkshire boars  
and sows, all of which will be sold at moderate prices.  
Farm half mile from Burlington Junction, G. T. R.  
-om-

MOUNT ROSE  
STOCK FARM

Young Shorthorn bulls,  
heifers and cows for  
sale. Prices right.

J. W. Hartman  
& SONS,  
Elmhedge P. O., Ont.

SPRINGHURST SHORTHORNS

Herd bred for practical usefulness, and  
produces as large a proportion of top  
show cattle as any herd in Ontario.  
Young stock, both sexes, for sale.

Exeter Station, G. T. R., H. SMITH,  
half mile from farm. -om- HAY, ONT.

WE OFFER  
Three Bulls for Sale

Six, eight and eleven months old, all red, and ex-  
ceptionally well bred, and FOUR BERKSHIRE  
BOARS fit for service. Prices right.

A. J. C. SHAW & SONS,  
-om- THAMESVILLE, ONT.

SPRINGFIELD FARM  
HERD OF  
Shorthorns, Oxfords,  
and Berkshires.

Young bulls and Heifers  
on hand. Also a few  
choice Berkshires.

CHAS. RANKIN,  
Weybridge, Ont.  
SUNCO Co. -om-

SCOTCH SHORTHORN BULLS AND HEIFERS

HERD ESTABLISHED IN 1872.  
Such sires as imported Royal George and imported  
Wartare have put us where we are.

A. & D. BROWN,  
-om- ELGIN COUNTY, IONA, ONTARIO.

SPRINGBANK FARM.

Shorthorn Cattle, Oxford Sheep, and Bronze Tur-  
keys. Young bulls for sale.

JAS. TOLTON, WALKERTON, ONT.

SHORTHORN BULL FOR SALE:

Elvira's Saxon 21064, by Royal Saxon 10537; dam  
Elvira 11th 11616, by Duke of Guelders (imp.).

R. MITCHELL & SON,  
Burlington Station. -om- Nelson P. O., Ont.

HAWTHORN HERD  
OF DEEP-MILKING SHORTHORNS.

3 heifers bred to Beau Ideal = 22554 =,  
of first-class quality and A 1 breeding. -om-  
Wm. Grainger & Son, - Lonsdale, Ont.

SPRING GROVE STOCK FARM

Shorthorn Cattle and  
Lincoln Sheep. Herd  
prize and sweepstake at  
Toronto Industrial Ex-  
hibition, 1897 and 1898.  
Herd headed by Import-  
ed Blue Ribbon = 17095 =  
and the famous Money-  
tuffel L. d = 20521 =.  
High-class Shorthorns of  
all ages for sale. Also  
prizewinning Lincoln.  
Apply  
T. E. ROBSON, Hideron, Ont.

WM. WYLIE, 228 BELURY ST., MON-  
TREAL, ORHONICK, P. Q.

Breeder of high-class  
Ayrshires. Young stock  
always for sale; bred  
from the choicest  
strains procurable.  
Breeding stock select-  
ed from the most  
fashionable strains  
and prizewinning  
stock of the day. Farm located at Howick, Que.  
5-1-y-o

TROUT RUN STOCK FARM.

One Ayrshire bull calf, 3 mos., \$25. Grand  
lot of females, all ages. Five cows to calve  
in August, fit to show in any company.  
The calves will be from Royal Star, 1st at Toronto  
and 1st and sweepstake at London, 1888. Write for  
prices and full particulars.

WM. THORN,  
Norfolk County. -om- LYNEDOC, ONT.

W. F. STEPHEN,  
Breeder and importer of choice  
and fashionable

AYRSHIRES

from deep-milking strains. Two bull  
calves for sale. Write or come to

BROOK HILL FARM,  
Carr's Crossing, G. T. R. -om- Trout River, Que.

CHOICE AYRSHIRE BULLS

Four calves dropped in August, October,  
December and March, and sired by Craigie-  
lea of Auchinrain (imp.), first prize bull at  
Toronto in 1897 (the only time ever shown).

W. W. BALLANTYNE,  
Formerly Thos. Ballantyne & Son. Stratford, Ont.  
"NEIDPATH FARM" adjoins city, main line G.T.R.

Six-Young Ayrshire Bulls - Six  
FOR SALE!

From eight to ten months old; all imported in dam,  
and all from good herds. Will sell them right. Address

ROBT. HUNTER,  
Manager to W. W. Ogilvie. LACHINE RAPIDS,  
-om- QUE.

AYRSHIRES FOR SALE.

The kind that can speak for themselves. Size,  
constitution, dairy and show combined. Six young  
bulls for sale, by Glencairn 3rd (imp.), dam Primrose  
(imp.). Five from Napoleon of Auchinrain (imp.).  
Their dams are all Glencairn heifers. Five of their  
dams were shown last fall at Toronto, London, and  
Ottawa. Also a few good cows. No culls sold.

JAMES BODEN, TREDINNOC FARM,  
-om- STE. ANNE DE BELLEVUE, QUE.

MAPLE CLIFF Dairy and Stock Farm.

Three young bulls fit for  
service, and bull calves.

AYRSHIRES, BERKSHIRES,  
TAMWORTHS,  
Booking orders for spring litters. -om-

R. REID & CO., HINTONBURG, ONT.  
Five minutes' walk from Cen. Expl. Farm, Ottawa.

MEADOWSIDE FARM,  
J. YULL & SONS, Props., Carleton Place.

Breeders of high-class, deep-milking Ayrshires.  
Sweepstakes young herd at Ottawa. Shropshire  
sheep from prizewinning stock. Berkshire pigs  
and Barred Plymouth Rocks. Young stock for  
sale. Visitors met at Queen's Hotel. Give us a call.  
-om-

Ayrshire Cattle and Berkshire Pigs.

The bull Tom Brown and the heifer White  
Floss, winners of sweepstakes at World's Fair,  
were bred from this herd. Young stock for  
sale. Also Leicester sheep & Berkshire swine.

D. BENNING & SON,  
5-1-y-o Glenhurst Farm, Williamstown, Ont.

HIGH-MILKING AYRSHIRES.

Descended from some of the most noted prizewinners  
at the World's Fair, Chicago, and other important  
competitions. None but the best are bred from. Young  
stock of both sexes for sale. Leicester. -om-

DONALD CUMMING, LANCASTER.

4 Yearling Ayrshire Bulls for Sale. Also a  
number of spring calves, sired by Douglas of Loudoun.

F. W. TAYLOR, Wellman's Corners, Ont. -om-

2-Choice Young Ayrshire Bulls - 2

Descended from the noted heavy-milking Orange  
Blossom family, so successful with my late father.  
-om- F. T. GUY, BOWMANVILLE, ONT.

NOTICE.

The prize list just issued by the retiring  
Secretary (Mr. Thos. A. Browne) of the West-  
ern Fair, to be held at London, Ont., Sept. 7th  
to 16th, is a model of systematic arrangement  
and conciseness, and reflects credit on the com-  
piler. It gives all the necessary information  
under distinct headings, and is void of "vain  
repetitions." It is a departure from the old-  
fashioned rut in the preparation of such litera-  
ture, but if the intending exhibitor will look  
over it thoughtfully for a few moments he will  
find that all he needs to know has been pro-  
vided for in such a manner a wayfarer man,  
though a farmer, need not err if he follows its  
well-considered plan. The prize list is a liberal  
one, the amount of money offered being con-  
siderably more than in former years, and the  
prospects that 1890 will be a record year for  
the Western Fair. The following special  
requests of the Secretary are worthy of careful  
consideration:

- Send for a prize list.
- Read all of the rules carefully.
- Ask for special entry paper. One has been prepared for each department.
- Make out entry papers in accordance there-  
with.
- Be particular to send entries as early as  
possible.
- Do not be later than September 1st, but rather  
before, as there may be corrections required  
which will necessitate our writing you.
- Give registry numbers where required in Live  
Stock classes.
- Be particular to give P. O. address as com-  
plete as possible.
- Be sure and enclose entry fees.
- If your neighbors express a desire for a copy  
of the Prize List send their address at once on  
a post card, and a copy will be mailed.
- If you have no use for this Prize List pass it  
around among your friends.
- Remember the Fair dates, Sept. 7th to 16th.
- Remember late entries and those without  
fees will not be accepted.
- The address of the new Secretary is J. A.  
Nelles, London, Ont.

GOSSIP.

Mr. Wm. J. Duck, Springridge Farm, Morpeth,  
Ont., breeder of Poland-China hogs and Short-  
horn cattle, has recently added to his stock  
the imported bull, Aberdeen Hero. He was  
bred by Alexander Watson, Kinellar, Scotland,  
and imported by Mr. Arthur Johnston, Green-  
wood, Ont. Mr. Duck says he paid a lot of  
money for him, but his size, quality and breed-  
ing warranted him in doing so.

W. F. Stephen, Trout River, Quebec, writes:  
"My stock has done very well this season.  
Great demand for Ayrshires; have made large  
number of sales. My bull, Klondike, is turning  
out a remarkably fine animal. Uncle Sam's  
heifers are making grand milkers. From  
twenty-four cows and heifers I am now getting  
twenty gallons cream per day, which I ship to  
city of Montreal. I expect to have a number  
for sale this fall."

MAPLE HILL HOLSTEINS.

One of the staff of the FARMER'S ADVOCATE  
recently called on Mr. George W. Clemons, St.  
George, Ont., and found his noted herd of Hol-  
steins in their usual good shape, making butter  
cheaply while the grass grows, as they do profit-  
ably the year 'round. A prominent figure in  
the herd is the matronly Madge Merton, who  
boasts a shining record as a prizewinner, hav-  
ing stood third at the World's Fair and first as  
a three-year-old, and sweepstakes for the silver  
medal as best female any age at Toronto in 1895.  
She will be due to calve in this month, and will  
be in fine shape for the shows, her wonderful  
constitution, great udder development and rich  
colored skin making her a choice specimen of  
her sort. Mondamin's Daisy Barrington, whose  
record of 62 lbs. milk daily at two years old,  
and an average of 50 lbs. for six months in her  
two-year-old form, and a record of eleven first  
prizes and three sweepstakes at thirteen shows,  
is also "coming in" this month, and is in fine  
bloom. Queen DeKol 2nd is now in her four-  
year-old form, and is fulfilling in her maturity  
her great promise when as a two-year-old she  
was first prize at the Provincial Dairy Show at  
Brantford, and the Prince of Wales sweep-  
stakes as best in the test under thirty-six  
months old. Empress Josephine DeKol, the  
sweepstakes two-year-old wherever shown last  
year, is now in full flow of milk, and shows  
splendid indications of great capacity for dairy  
work, having extraordinary milk veins and a  
shapely and well-balanced udder, which meas-  
ures 18 inches as a two-year-old. She will be  
due in August, and should make a grand show.  
Inka 5th is holding her own admirably. The  
young things sired by Colanthus Abbekirk 2nd,  
and the champion Count Mink's Mercedes, are  
very promising, and the young imported bulls  
now in service, DeKol 2nd's DeKol Duke and Sir  
Pledge DeKol, strong in the blood of that great  
family, are going on splendidly. A new addi-  
tion to the list of stock bulls is Young Daisy  
Teak's King, a brother of Daisy Teak's Queen,  
winner of the championship in the milking test  
at the Winnipeg Industrial in 1895, and sweep-  
stakes as best dairy cow any bred at the same  
show last year, her phenomenal record of 72.25  
lbs. milk and 2.62 lbs. butter (80 per cent. butter-  
fat) in one day on the fair grounds stamping  
her as one of the very best of any breed.

OAK LODGE SHROPSHIRE.  
Shropshire sheep have found substantial  
admiration and support at the hands of Messrs.  
James Cooper & Son, whose splendid breeding  
establishment is at Kippin, Ontario, which we  
had the pleasure of visiting in the early part of  
May. The flock was founded upon selections  
made from such English breeders as Bradburn,  
Minton, Tanner, Batch, Williams and Thomas,  
all of which are located near Shrewsbury,  
Shropshire, England. The present flock of fifty  
breeding ewes and lambs, a dozen shearing  
ewes and twenty shearing rams are a uni-  
formly good bunch. Both covering and size are  
among the points that receive attention. The  
sires have been selected with much care; the  
present four-shear ram, Montford Beauty, being  
a get of Mr. Alfred Mansell's noted Fair Star.  
He is a sheep possessing grand quality in con-  
formation and covering. The bunch of home-  
bred shearing rams are highly worthy of the  
attention of breeders requiring young, fresh,  
well-bred sires, where quantity and quality of  
wool are regarded as of due importance. The  
young stuff were showing the effect of the  
luxuriant pastures at Oak Lodge.

Horse Owners! Use



GOMBAULT'S  
Caustic  
Balsam  
A Safe Sore and Positive Cure  
The Safest, Best BLISTER ever used. Takes  
the place of all liniments for mild or severe action.  
Removes all Bunches or Hemorrhoids from Horses  
and Cattle. SUPERSEDES ALL CAUSTERY  
OR FIRING. Impossible to produce cure of  
Bunches.  
Every bottle sold is warranted to give satisfaction.  
Price \$1.50 per bottle. Sold by druggists, or  
sent by express, charges paid, with full directions  
for its use. Send for descriptive circular.  
THE LAWRENCE-WILLIAMS CO., TORONTO, CAN.

Jersey Cattle

THAT WILL PUT  
MONEY IN YOUR POCKET.  
Mrs. E. M. Jones,  
Box 324. -om- BROCKVILLE, ONT., CAN.

BRAMPTON JERSEY HERD.

Offering high-class A.  
J. C. C. cows and heifers  
in calf, and heifer calves;  
9 choice young bulls.  
High-grade cows in calf;  
and Berkshires.  
E. H. Bull & Son,  
-om- BRAMPTON.

S. WICKS & SONS  
MOUNT DENNIS, ONT.

Offer two Registered A. J. C. C. Jersey Yearling  
Bulls. These are grand youngsters; cheap if sold at  
once. We have also some fine Registered C. K. C.  
Collie Pups; also some fine young Registered Bitches.  
Manufacturers of the Skee Hot Water Incubator.  
Hatches 100 per cent. The best and most scientific  
Incubator in the market. -om-

FOR SALE!

JERSEY BULL, THREE YEARS OLD, A GRANDSON  
OF THOLINE, THE SECOND RICHEST COW IN THE  
WORLD. ALSO TWO YEARLING SHORTHORN BULLS  
AND A FEW CHOICE YOUNG BERKSHIRES.

S. DYMENT, -om- BARRIE, ONTARIO.

Deschenes Jersey Herd.

HEADED BY IDA'S RIOTER OF ST. LAWRENCE 47570.  
4 young bulls fit for service-regis-  
tered. Also Tamworth swine from  
diploma herd, Canada Central Fair,  
Ottawa, 1898.

R. & W. CONROY,  
DESCHENES MILLS, QUEBEC.

MEADOWBROOK JERSEYS, TAM-  
WORTHS, W. WYANDOTTES.

Young Heifers and Bulls for sale. Six nice Tam-  
worth Sows, fit to breed; a splendid Boar, 7 months  
old, for sale. Eggs for balance of season, two set-  
tings for \$1. o EDGAR SILCOX, Sheddon, Ont.

GLEN ROUGE JERSEYS.

WILLIAM ROLPH, Markham, Ont., offers  
twelve Jersey Bulls and Heifers (pure St. Lambert),  
out of tested cows. Grand individuals. Prices right.  
22-y-om

.. MAPLE HILL..  
HOLSTEIN-FRIESIANS

I offer for sale MADGE MERTON 5th, sire  
Colanthus Abbekirk 2nd, dam Madge Merton (nine  
months old); INKA 5th's MERCEDES, sire my  
champion show bull Count Mink Mercedes, dam the  
Advanced Registry cow Inka 5th, record 184 lbs.  
butter in a week (one month old). Remember my  
herd won championship gold medals in 1897 and 1898.  
-om- G. W. CLEMONS, ST. GEORGE, ONT.

HOLSTEIN BULLS

that we think you will want when you know their  
breeding, and the large OFFICIAL milk and butter  
records of their nearest ancestors. Six of them are  
sired by a son of our great cow, Korndyke Queen,  
others by sons of De Kol 2nd, and some by Manor De  
Kol. Heifers and young cows of equal breeding. It's  
better to buy the best. We furnish papers to pass  
them through without duty or detention. There is  
no quarantine. Write for just what you want.  
-om- Henry Stevens & Sons, Lacona, N. Y.

Lynnfield Holstein Herd.

Do you want to buy young cows that are great  
milkers, also two-year-old heifers, bred to our  
stock and show bull, Homestead DeKol Belle  
Boy. We have also some fine heifers nine months  
old. For choice Holstein-Friesians write or visit me.  
-om- C. M. KEELER,  
GREENBUSH P. O., ONT.

Oh, Yes!

We sell Holstein Bulls. Sold 7 in  
May. Have 12 now on hand; oldest  
9 months old; bred right and are  
right. Write for particulars. Male or female.  
State just what you want.  
-om- A. & G. RICE, Currie's Crossing, Ont.  
Oxford County. -om-

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**BOGLE & JEFFERS,**  
**PROPRIETORS. BUSINESS COLLEGE**

Students have a **LARGER EARNING POWER** who acquire the following lines of preparation under our efficient system of training. IT HAS NO SUPERIOR.

1. Bookkeeping.
2. Shorthand.
3. Typewriting.
4. Telegraphing  
(Commercial and Railway Work).
5. Civil Service Options.

Students may commence telegraphing on the first of each month, and the other departments at any time.

**J. FRITH JEFFERS, M. A., Principal.**  
Address: BELLEVILLE, ONT. -om

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AND SHORTHAND SCHOOL.  
A business education will help you. Students assisted to situations. None but specialist teachers employed. Write for particulars.  
**H. M. KENNEY, PRINCIPAL, WOODSTOCK.**

**CENTRAL Business College**  
STRATFORD, ONTARIO,  
The Leading Commercial School of Western Ontario.  
Write for catalogue. **W. J. Elliott, Principal.**

**CANCER** CURED WITHOUT KNIFE OR PLASTER. FULL PARTICULARS FREE. -om  
**F. STOTT & JURY, Bowmanville, Ont.**

**GUERNSEYS.**  
This is the dairy breed for ordinary farmers. Large, vigorous, and hardy, giving plenty of rich milk. Several fine young bulls for sale at very reasonable prices. A few heifers can be spared.  
Address—**SYDNEY FISHER,**  
17-y-o ALVA FARM, KNOWLTON, P. Q.

**GUERNSEYS**  
Two Choice Bull Calves AND Five Heifers for Sale.  
ALSO—  
**Tamworth and Berkshire Pigs.**  
**W. H. & C. H. McNISH,**  
LYN, ONT.

**INGLESIDE HEREFORDS.**  
UP-TO-DATE HERD OF CANADA!  
**TAMWORTHS**  
CHOICE PIGS SIX TO SEVEN WEEKS OLD.  
Send for Illustrated Catalogue. Address, -om  
**H. D. SMITH, COMPTON, QUE.**  
**F. W. STONE ESTATE,**  
GUELPH, ONTARIO.

The first Hereford herd established in Canada by importations in 1859 of the best prizewinners of England, followed by repeated further importations, including winners of first prize at Royal Agricultural Show. Choice young Hereford Bulls for sale. Also McDougall's Sheep Dip and Cattle Wash, fresh imported, non-poisonous and reliable; thoroughly tested by over forty years' use on farms of above estate. -om

**GOSSIP.**

In writing to advertisers, mention the "Farmer's Advocate."  
**W. R. BOWMAN'S SHORTHORN CATTLE, SHROPSHIRE AND SUFFOLK SHEEP, YORKSHIRE SWINE, AND B. P. ROCK FOWLS.**

Mr. W. R. Bowman, whose stock farm is near the town of Mount Forest, Ont., is one of those men who possesses the requisite amount of judgment and energy to succeed in what he undertakes. We have always found him alive and progressive in stock matters and up to the demands of the times. In Shorthorn cattle he has been a strong admirer of the high milking strains, and made a selection for his foundation from the Mayflower family, of which his herd is largely composed. A daughter of Clara 40th (imp.), by Eclipse, has also made her home with Mr. Bowman's herd. Some half dozen heifers approaching their second year are now among the number of the even, thick, early-maturing kind. The sire now in service is Monarch of Mapleton, by Monarch of Bowfront, and out of a pure Bates cow, and although not in high flesh, is a strong, evenly-made bull, and proving highly satisfactory.

In Shropshire and Suffolk sheep we found the stock in excellent shape. Of the former about fifteen breeding ewes were on hand, while double that number of the latter are in the breeding pens. The Shropshires were selected from the pens of Phin, Hunter and Campbell, to which was mated a very choice young ram selected from Mr. W. E. Wright's flock at Glanworth, Ontario, resulting in some splendid, strong, well-covered lambs, thirteen of which are rams. A dozen or more shearing rams were held over, which should attract attention early this fall. The Suffolk ewes were imported from the Earl of Elsmere's estate, at Stetchwood, Eng., and mated to a ram bred by the Iowa Suffolk Sheep Company, Iowa, resulting in fifteen each of ewe and ram lambs. Very little has been known of this breed in Canada, but from their lamb producing and rearing qualities we would suggest that they are worthy of a closer investigation than has heretofore been given them. They are a big, strong sheep, with black heads and legs, less bone than the Hampshire and equal as mothers, being copious milkers. We wish Mr. Bowman success in his new enterprise, and think the sheep are in the right place to find out their relative value with other similar breeds.

In Yorkshire swine we found a splendid stock of matrons on hand. Among them were three very choice sows of Hollywell ancestry, by a Hume sire of Marion & Haskett breeding. Also a couple of litters of April pigs by the Brethour-bred Silver King, out of a Rose dam. We also saw three full sisters by Lord Grey that are good ones, as well as four very promising females tracing to imported Countess and Mistress, which are straight, lengthy, good sows, covered with beautiful, glossy, straight hair, and with plenty of bone. In comparing this stock with our former visits we would state that Mr. Bowman is the strongest in Yorkshires to-day that we have known him. A pen of B. P. Rock fowls receive attention, and much care has been devoted to the selection of suitable stock for mating.

**OFFICIAL TESTS OF HOLSTEIN COWS.**  
Mr. S. Hoxie, Supt. of the Advanced Registry of America, has issued a statement of tests of 34 cows and heifers made from Oct. 1st, 1898, to Jan. 1st, 1899.

These tests are for seven consecutive days, and are supervised by officers of agricultural colleges and State experiment stations or by persons vouched for by such officers. The amount of butter-fat are determined by the Babcock test, and the amounts of butter are calculated on the basis of 80 per cent. fat to a pound of butter—the rule established at the World's Columbian Exposition.

Amongst the number in this report we find the following, which are the highest in the list:  
Calamity Jane 26292; age 7 years, 10 months, 11 days; owned by A. & G. Rice, Currie's, Ont.; amount of milk, 485.8 lb.; amount of butter, 22 lb. 5.2 oz.; in a food test; cost of butter per pound, 7.04 cents.  
Calamity Jane 26292; age 7 years, 10 months, 11 days; amount of milk, 572.5 lb.; amount of butter, 25 lb. 0.9 oz.  
Inka Hartog's Pietertje Kate 23484; age 8 years, 1 month; amount of milk, 456.8 lb.; amount of butter, 20 lb. 3.2 oz.  
Daisy Texal 2nd 4831; age 3 years, 1 month, 21 days; property of A. & G. Rice, Currie's; amount of milk, 444.8 lb.; amount of butter, 18 lb. 2.1 oz.; in a food test; cost per pound, 9.32 cents.  
Daisy Texal 3rd 4832; age 1 year, 11 months, 28 days; owned by A. & G. Rice; amount of butter, 10 lb. 1 oz.  
Lilith Pauline DeKol 43134; age 2 years, 1 month, 18 days; amount of milk, 333.9 lb.; amount of butter, 15 lb. 2.2 oz.

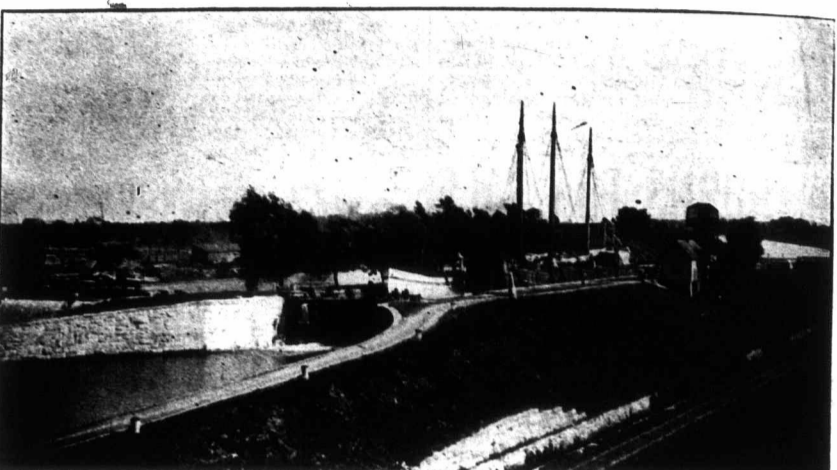
**JAS. TOLTON & SONS' SHORTHORNS, OXFORDS, AND BRONZE TURKEYS.**

A recent inspection by one of the FARMER'S ADVOCATE staff of the herds and flocks at Mr. Jas. Tolton's splendid farm near Walkerton, in Bruce County, Ont., found the herds and flocks in their usual up-to-date form. Among the 30 odd head of Shorthorns are an exceptionally promising bunch of young females, one two and three years old, and as they are descended from excellent milking dams, their future usefulness is assured. The imported cow, Cleopatra, purchased at Mr. Simmons' dispersion sale, is rearing a splendid bull calf to imported Blue Ribbon, which we would be inclined to suspect Mr. Tolton would reserve to head his herd. He is a straight, deep, good calf, with a wealth of natural flesh not found in every family, and of the early-maturing kind. The present stock bull, Earl of Warwick, by Earl of Moray, and out of Mr. Gaunt's Melody, has not only proven himself a worthy sire, but has made rapid growth. He has a broad, level back, well-sprung ribs, such a deep body, and long, level quarters, standing well on his legs, is active and useful, and has a mild, quiet disposition; in fact, he is an all-round good bull. Seven red and roan bull calves were in view at the time of our visit.

**Oxfords.** Thirty-two breeding and eleven yearling ewes are on hand this season, and among the young lambs we saw some fine, growthy, promising fellows; the sire employed last season being Bath & West, a sheep bred in Mr. Brassey's noted English flock.

Bronze turkeys receive attention here, and much care has been exercised in the selection of suitable foundation stock.

Work Done With **THOROLD CEMENT** Speaks for Itself.



**NEW WELLAND CANAL, LOCK 24**  
with Wastewair and Swing Bridge, and Niagara Central Bridge in the distance.  
From **W. G. Thompson, Esq., Engineer in Charge New Welland Canal and Sault Ste. Marie Canal.**

My tests of the Thorold Hydraulic Cement have extended over a period of twenty eight years, and have been on a large scale, as exemplified in the locks, bridges, culverts, and other masonry on the Welland Canal and Welland Railway, and the record, which has been invariably satisfactory, is to be found in examination of the structures. The necessary tearing down of masonry and concrete during the Welland Canal enlargement has afforded abundant evidence of the reliability of the Thorold Hydraulic Cement, both in masonry and concrete, and above and under water. I desire no better cement for the class of work referred to.  
April 17, 1884.



**ABERDEEN BRIDGE, OAKVILLE, ONTARIO.**  
Masonry Work built with Thorold Cement. William Gibson, Esq., M. P., Contractor.

Oakville, January 16th, 1897.  
Dear Sirs,—Thorold Cement was used in the construction of Aberdeen Swing Bridge, at town of Oakville, and it has given perfect satisfaction.  
C. J. MARLATT, Reeve,  
Chairman of Bridge Committee, 1894.

(From the Toronto Globe, September 19th, 1894.)  
**OAKVILLE'S ENTERPRISE.**  
An \$11,000 Steel Swing Bridge Formally Opened Yesterday—A Large and Enthusiastic Audience.

OAKVILLE, SEPT. 18.—(Special)—The erection of a fine new steel swing bridge over the river here justified the enthusiasm displayed by the people of Oakville at its opening to-day. The new bridge is a splendid structure, and is undoubtedly a credit to the Town of Oakville and the Council of the County of Halton, who have aided them in erecting it. The bridge has a clear span of 115 feet between the abutments, and is 118 feet over all. It has a 16-foot roadway and two 4-foot sidewalks. It is a deck swing steel bridge with riveted Warren truss girders. It swings in either direction upon a central pier, 17 feet in diameter at the top and 19 feet at the bottom. The central pier and abutments are of solid masonry laid in Thorold Cement. The laying of the central pier was a difficult feat, owing to the depth of the mud. It rests on 66 piles, sunk to a depth of 40 to 50 feet. The masonry cost \$7,300 and the superstructure \$2,400. The approaches, etc., will bring the total cost up to about \$11,000. The masonry work was done by Mr. William Gibson, M. P., Grimsby, and the superstructure put up by the Central Bridge and Engineering Company, of Peterboro'.

FOR FREE PAMPHLET WITH FULL PARTICULARS, ADDRESS  
**ESTATE OF JOHN BATTLE,**  
THOROLD, - ONTARIO. -om

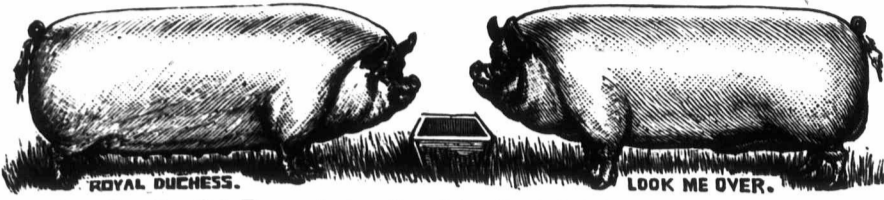
**2 Imported Shorthorn Bulls 2**

**4**  **4**  
**2 - YEAR - OLD HEIFERS.** **1 - YEAR - OLD HEIFERS.**  
ROYAL MEMBER (64741)

**HEIFERS ALL IN CALF TO IMPORTED BULLS.**  
Correspondence or a personal visit solicited.  
Catalogues on application. -om

**H. CARGILL & SON, CARGILL, ONT.**  
Cargill Station and Post Office on G. T. R., within half a mile of barns.

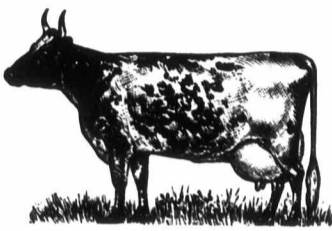
AT SUMMER HILL IS THE LARGEST HERD OF... Imported Yorkshires IN THE DOMINION.



Large, Lengthy, English Type. Among them being the first choice of the most important prize-winning English herds...

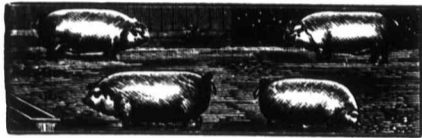
AYRSHIRES and YORKSHIRES

One Yearling Bull, February, March and April calves, and other young stock, all of choicest breeding and individual excellence...



PURE-BRED GUERNSEY CATTLE

Chester White Swine.



Duroc - Jersey Swine.

FOR SALE - Two young Bulls ready for service, and Heifers bred. First-class Pigs of all ages from imported and prize-winning sires and dams...

SHORTHORNS! SHORTHORNS!!

I have six young females for sale - three are in calf and three old enough to be bred. These heifers have four or more crosses of the finest Booth sires...

Large Yorkshires.

Have a very fine lot to select from, of good length, and easy feeders. Pigs farrowed from March to September...

E. DOOL, HARTINGTON, ONT.

Yorkshires, Holsteins, Cotswolds

Boars and sows not akin for sale, of the bacon type. Thoroughbred and high-grade Holsteins, also a three-shed ram for sale.

R. HONEY, WARKWORTH, ONT.

PINE GROVE FARM HERD OF LARGE YORKSHIRES.

Imported and Canadian-bred, from the Hasket family, which has taken more prizes at the leading fairs in Canada and the World's Fair at Chicago than any other family of Yorkshires in America...

JOSEPH FEATHERSTON, Streetsville, Ont.

W. R. BOWMAN, MT. FOREST, ONT.

Offers York and Berk. Boars and Sows, weighing from 30 to 40 pounds, at \$6 each, registered; a few boars weighing from 200 to 300 pounds, at \$12 to \$14 each...

Large English Berkshires.

HERD headed by two imported boars - Nora B's Duke and Royal Star III, half-brother to Columbia's Duke, which recently sold for \$1,200...

H. BENNETT & SON, St. Williams, Ont.

Yorkshires and Berkshires

BOARS and sows, both breeds, all ages. Sows safe in pig. Pairs supplied not akin. All of the best breeding and most approved type. Write for prices.

JAS. A. RUSSELL, Precious Corners, Ont.

BERKSHIRES FOR SALE.

Boars and sows of all ages. Choice young pigs at \$6 each, registered.

JOHN RACEY, JR., Lennoxville, Que.

THE ONTARIO VETERINARY COLLEGE

TEMPERANCE ST., TORONTO, CANADA. Affiliated with the University of Toronto.

Patrons: Governor-General of Canada, and Lieut.-Governor of Ontario. Fee, \$65.00 per session. Apply to ANDREW SMITH, F.R.C.V.S., Principal. 182-3-0m

SNELGROVE BERKSHIRES AND COTSWOLDS

High-class Berkshires of the large English bacon type, bred from the best specimens of the best imports...

R. P. SNELL, Snelgrove, Ont.

SPRING OFFERING

Yorkshires AND Berkshires

A fine lot of boars and sows eight weeks old. Pairs and trios supplied, not akin, of the best breeding and individual merit...

H. J. DAVIS, BOX 290, WOODSTOCK, ONT.

LARGE ENGLISH BERKSHIRES.

Herd headed by four first prize stock boars of large size, strong bone and fine quality...

GEORGE GREEN, FAIRVIEW P.O., ONT.

BORNHOLM HERD IMP. CHESTER WHITES.

Stock for sale at all times, all ages. Nothing but first-class stock shipped. Inspection invited.

Daniel DeCoursey, Bornholm P. O., Ont.

REGISTERED CHESTER WHITE PIGS.

Eight weeks old, at \$5.00 each.

REGISTERED JERSEY BULL CALVES \$20.00 each.

F. BIRDSALL & SON, BIRDSALL, ONT.

OHIO IMP. CHESTER WHITE PIGS.

Young stock, both sexes, for sale. Bred from imported and home-bred stock.

T. E. BOWMAN, BERLIN, ONT.

DUROC - JERSEY SWINE

We have an excellent lot of long, strong, hardy young Duroc-Jersey pigs now on hand...

TAPE BROS., Ridgeway, Ont.

GOSSIP.

Colwill Bros., Newcastle, Ont., write: "We are making quite a few sales, especially of Tamworths, and are well satisfied with the result of our advertising in the ADVOCATE..."

FITZGERALD BROS.' SHORTHORNS.

In a splendid grazing section of Simcoe County, Ont., some fifteen miles north-west of the town of Barrie, Messrs. Fitzgerald Bros. extensive farming and breeding operations are conducted...

The grade Cotswolds are up to their former mark, and a splendid, well-covered lot of lambs are to be found at Mount St. Louis.

ANNUAL MEETING AMERICAN HOLSTEIN ASSOCIATION.

At the 14th annual meeting of this Association, held at Buffalo, N. Y., June 7th, the attendance embraced members from 14 States and from Canada...

In class 1, for cows five years old or over, 55 cows of an average age of 6 years, 9 months and 6 days, yielded 18 lbs. 13.2 ozs. of butter, 80 per cent. fat in 7 days...

In class 2, nine cows of an average age of 4 years, 8 months and 6 days, yielded an average product of 17 lbs. 2.1 ozs. of butter in 7 days.

In class 3, thirteen cows of an average age of 4 years, 3 months and 10 days, yielded an average product of 16 lbs. 15.8 ozs. of butter in 7 days.

In class 4, fourteen cows of an average age of 3 years, 9 months and 16 days, yielded an average product of 16 lbs. 15.8 ozs. of butter in 7 days.

In class 5, twenty-seven cows of an average age of 3 years, 2 months and 5 days, yielded an average product 15 lbs. 9.3 ozs. butter in 7 days.

In class 6, thirteen cows of an average age of 2 years, 9 months and 18 days, yielded an average product of 13 lbs. 2.7 ozs. of butter in 7 days.

In class 7, sixty-nine cows of an average age of 2 years, 4 months and 14 days, yielded an average product of 11 lbs. 6.8 ozs. of butter in 7 days.

The results of the Economic Test to determine the cost of a pound of butter and per 100 lbs. of milk were most gratifying.

In class 1, cows five years old and over, the average yield per cow was 18 lbs. 8.2 ozs. of butter in 7 days, at an average cost per pound of 6.43 cents.

In class 2, cows four years old and under five, the average yield per cow was 17 lbs. 2.7 ozs. of butter at an average cost of 6.19 cents per pound.

In class 3, cows three years old and under four, the average yield per cow was 16 lbs. 6.9 ozs., at an average cost of 6.65 cents per pound.

OXFORD HERD OF POLAND-CHINAS

The home winners of the winners. Headed by the imported boars, Conrad's Model and Klondike, assisted by Bacon Boy and Lennox...

W. & H. JONES, OXFORD CO. -om MT. ELGIN, ONT.

Springridge Poland-Chinas

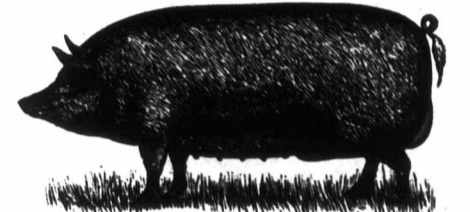
Now offering the 2-year-old sire, Blackmoore, and a few of his young females, and booking orders for young stock from the royally-bred Goldbug...

WM. J. DUCK, MORPETH, ONT.

POLAND-CHINA SWINE.

Young stock, both sexes. Eggs for hatching from B. P. Rocks and L. Brahmas, \$1 per 13; Rouen Ducks, \$1 per 11. Turkey Eggs in season...

J. F. M'KAY, PARKHILL, ONT.



One hundred Tamworth and Improved Chester White Spring Pigs of a true bacon type, our herd having won the best prizes offered at the leading exhibitions throughout Ontario and Quebec...

H. GEORGE & SONS, Crampton P.O., Ont.

SPRING BROOK HERDS OF HOLSTEIN-FRIESIANS AND TAMWORTHS.

One boar, 7 mos. old; one imported boar, 8 mos. old. A choice lot of boars and sows ready to ship. Pairs not akin. All stock sired by imported prize-winning boars...

A. C. HALLMAN, NEW DUNDEE, ONT.

Chatham HEAD OF Tamworths

1 yearling boar, 4 sows 7 mos. old, 5 sows 5 mos. old, 6 boars 4 mos. old, 8 sows 4 mos. old, 10 sows and 10 boars 3 mos. old, 8 sows and 10 boars 2 months old, 3 litters 6 weeks. Write for prices.

J. H. SIMONTON, Box 304, Chatham.

TAMWORTHS.

Upwards of 100 head to select from, bred up from Middleton Mimulus and other noted females, to which have been mated such sires as King George, Amber Smith and other prize-winning boars...

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TAMWORTHS, YORKSHIRES, BERKSHIRES.

For Sale - Two Tamworth Boars, three months old, \$8 each; Tamworth Pigs seven weeks old, weighing from 30 to 40 pounds, \$5.00 each. Choice Yorkshires, from six to eight weeks old, \$5.00 each...

COLWILL BROS., Newcastle, Ont.

TAMWORTHS

Of the Most Approved Type. WE have a dozen vigorous sows to farrow this spring to O. A. C. 419, and can book orders for right good stock...

P. R. HOOVER & SONS, GREEN RIVER, ONT.

CHOICE SPRING PIGS

In pairs, not akin; also young sows bred and ready to breed. Prices right and freight paid.

JOHN FULTON, Jr., Brownsville, Ontario.

HELLO! HELLO THERE!!

What would you like to get in Victoria Hogs at present? Let me know at once; also write for my new catalogue.

CHRIS. FAHNER, Crediton, Ontario.

CHESTER WHITE SWINE.

Young stock, both sexes. Booking spring orders.

W. E. WRIGHT, GLANWORTH, ONT.

**OAKHILL TAMWORTHS.**

FOR SALE—One boar, 16 months old. Sows in pig, and young pigs from 6 to 10 weeks old, sired by Sandy III. 638, a prizewinner wherever shown, and out of first-class sows. Prices reasonable.

**R. J. & A. LAURIE, WOLVERTON, ONT.**

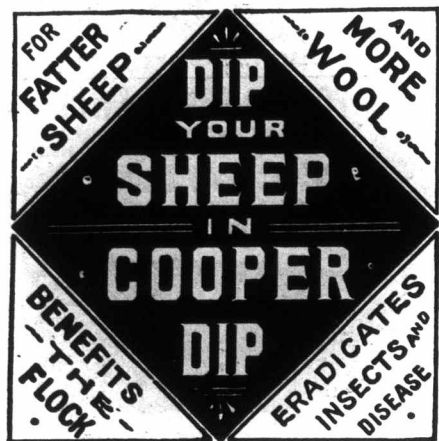
**Tamworth** BOARS and SOWS, from Elliott, Bell, and Nourse foundation. A choice bunch of Shropshire ram lambs for fall delivery, extra well covered, imported foundation.

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**CHOICE TAMWORTH & YORKSHIRE SWINE**

Of both sexes. Also five pair Toulouse geese; six pair of good Rouen and Pekin ducks; one pair Golden B. Poland (McNeil's).

**John Hord & Son, Parkhill, Ont.**



Used and endorsed by Hon. John Dryden, Minister of Agriculture, Toronto, Ont., and leading breeders everywhere.

**SUPERIOR TO ALL LIQUID DIPS.**

Twenty-five gallon packet, 50c.; one hundred gallon packet, \$2.00. If druggist cannot supply, send \$1.75 for one hundred gallon packet to

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**MONTREAL OR TORONTO.**

Book premiums on application to COOPER DIP, Galveston, Texas.

**SHROPSHIRE**

FOR SALE:

**30--Ram and Ewe Lambs--30**  
Mostly sired by the imp. ram Newton Stamp 99631. A prizewinner at Toronto in 1897.

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**ALSA CRAIG, ONT.**

**FOR 60 DAYS**

MY ADDRESS WILL BE

**GEORGE HOTEL, Shrewsbury, Eng.**

**Sheep and Cattle**

Orders for high-class will receive careful attention. Sheep imported by me have won more premiums in eight years than all other importations combined.

**ROBERT MILLER, Stouffville, Ontario.**

**HENRY ARKELL, ARKELL, ONTARIO.**

IMPORTER AND BREEDER OF

**OXFORD-DOWN SHEEP.**

Animals of all ages and both sexes for sale. Have some imp'd RAM LAMBS. Prices reasonable.

**GOSSIP.**

W. & H. Jones, breeders of Poland-China hogs, Mt. Elgin, Ont., in remitting for their advertising account, write:—"Our stock is doing well. We have received many enquiries from our advertisement and have made good sales, in number quite beyond our expectations."

At a sale of Clydesdales and Shires belonging to the Earl of Durham, May 31st, sixty lots were sold for 2,340 guineas, an average of about \$250 for young and old. A Shire mare and filly foal brought 100 guineas and a Clyde mare 91 guineas. A 4-year-old Shire gelding sold for 150 guineas, and a 3-year-old gelding for 79 guineas.

Mr. F. S. Peer, Mt. Morris, N. Y., writes: "I have lately returned to New York with my twelfth importation of cattle from England and the Channel Islands, consisting of 66 head of Jerseys and Guernseys and 16 head of sheep. The sheep are mostly Lincolns, and a very grand lot they are. The last few years in England, at the Bath and Westland Royal Counties Shows, has convinced me that there is no breed of sheep in England that show as much improvement as has the Lincoln in the last 15 years. They have not only the grandest fleeces, but the quality and fineness of the staple is something to be proud of. They are getting them with well-covered heads, and I must say, taking them all in all, they are about my ideal wool and mutton sheep. I enclose you a photo of a ram lamb 13 months old. His wool measures 15 inches, and the quality and luster is the best I ever saw, not only on the shoulders and sides, but down the flanks as well. This ram and 10 ewes were imported for Mr. Percival Roberts, of Philadelphia, and are, I believe, the first Lincolns to be imported to the U. S. directly from England, though there has been a few brought over from Canada. I had the pleasure of selecting these sheep from the celebrated flock of Messrs. Kirkham Bros., Biscathrope House, Lincoln. The ram is a fair sample of the 10 ewes of the same age. The ewes were the pick of 155 hogs (my pick), and I must say I never saw 11 such sheep together. I hope later to send you a photo of the ewes. Some of the ewes were sired by Royal, for which ram Messrs. Kirkham Bros. paid 350 guineas (\$1,785)."

Messrs. Henry Stevens & Sons, Lacona, N. Y., in reporting the sale of a fine herd of twenty-five Holsteins to Messrs. Averill & Gregory, proprietors of the Yates Hotel, Syracuse, N. Y., write: "One of the finest and best bred herds that ever left Brookside are now grazing on the pastures of the Geddies Farm, and supplying butter, cream and milk to the guests of the Yates. The proprietors of this magnificent hotel also run in connection with it the large and beautiful farm known as the Geddies Farm, comprising 500 acres and situated near the city of Syracuse. For some years they have been running a mixed herd of various breeds, and deciding they would keep nothing but thoroughbreds, some months ago they hoisted the 'red flag' and sold all the cattle upon the farm. They were then undecided which breed to purchase, but after making a thorough investigation of the different breeds they decided Holsteins were best suited for their purpose. After careful examination of our herd, which numbered at the time about eighty milk cows, they made their selections, discarding everything except those that tested high in butter-fat. And we think we can safely say a finer, more uniform or better bred herd never left the home of any breeder. Had we the time and you the space we would gladly mention each individual animal, but will only say that this herd is strong in the blood of DeKol 2nd, Netherland Hengerveld, and Pauline Paul. Several of them had made large official butter records. The bull selected to head this herd was a son of Pieterterje Hengerveld's Lady DeKol 2nd, sired by Mutual Friend 3rd's Paul, thus giving him a combination of the blood of the largest producing families ever known. His dam, Pieterterje Hengerveld's Lady DeKol 2nd, won third prize in her class in the late official butter prize contest, and his sire's dam won first prize in the official butter prize contest two years in succession. This bull is not only backed up on both sire and dam's side by the largest official butter records ever yet made, but he is also an exceptionally fine individual."



**Before the Roof Leaks**

make it water-proof and save it from decay with THE SHERWIN-WILLIAMS CREOSOTE PAINT, the original creosote paint. It will cost less than to let the roof go and repair the leaks. Use it on shingle roofs—any kind of wooden roofs. Creosote prevents decay.

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for your rooms are now possible by the use of Church's Alabastine (never sold in bulk) Danger lurks in Kalsomines which decay and in wall papers which contain poisonous coloring matter, but Alabastine is sanitary to the highest degree. It is permanent—it will not peel or scale from the hardest surface, and you can't rub it off. And, too, it is easily applied with cold water and a brush. 16 beautiful tints and White. "The healthful wall coating."

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Free, to anyone who will mention this paper, a 45-page book, "The Decorator's Aid." It gives valuable information about wall and ceiling decorating.

The Alabastine Co., Limited, Paris, Ont.

**LEICOBSTERS.**

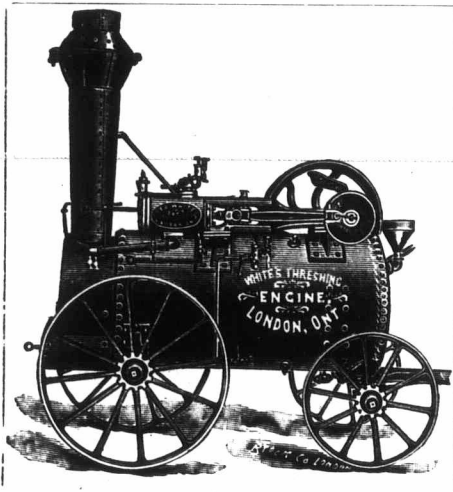
100 head to select from, among which are some specially good shearing ewes and rams. We employed two rams last fall, bred direct from imported stock.

C. & E. WOOD, FREEMAN, ONT.

**SHROPSHIRE**

Shall have a fine lot of choice early lambs for the fall trade. We import and breed only the best.

J. P. PHIN, Hespeler, Ont.



5 DIFFERENT STYLES OF ENGINES:  
Locomotive & Return-Tube Style Boilers, Portable and Traction...  
2 STYLES OF THRESHING MACHINES:  
Challenge and Advance.

WE MANUFACTURE THE LARGEST AND BEST ASSORTMENT OF



**THRESHING MACHINERY** ON THE MARKET. WRITE FOR ILLUSTRATED CIRCULAR...  
**THE GEORGE WHITE & SONS CO., Ltd., - LONDON, ONT.**

**EUROPEAN ADVERTISEMENTS.**

**Hampshire Down Sheep.**

**SPLENDID GOOD GREAT  
MUTTON. WOOL. WEIGHT.**

This highly valuable English breed of sheep is unrivalled in its

**Rapid and Wonderfully Early Maturity,**

possessing, too, a hardiness of constitution adapted to all climates, whilst in the quality of

**MUTTON AND LARGE PROPORTION OF LEAN MEAT IT IS UNSURPASSED.**

Full information of

**JAMES E. RAWLENCE,**

Secretary, Hampshire Down Sheep Breeders' Association, SALISBURY, ENGLAND. -om

**HENRY DUDDING, RIBY GROVE, GREAT GRIMSBY, LINCOLNSHIRE,** has always for inspection and sale from the largest and most noted flock of pure Lincoln Longwool Sheep in the country, both Rams and Ewes of all ages. Representative specimens from this flock have secured for many years past at the Royal Shows championship and other prizes; whilst they have also at both the Paris Exhibitions, Vienna, Amsterdam, Chicago, Palermo, secured champion awards, and at all the leading shows in Australia, New Zealand, Canada, and the States, Riby sheep and their descendants have secured the highest honors. Wool is a leading feature in the flock, its quality being amply testified by the fact that wherever exhibited it has each time secured the premier prize including that at Windsor in 1889. The record of its careful breeding and consistent success is worldwide, and the present members of the flock are fully equal to any that have preceded them during the past 130 years in which it has been in existence, descending from father to son without dispersal. The flock holds the record for the highest price ram of 1898 (i. e., 1,000 gs.), and for the highest recorded average for an auction sale of fifty-two rams (i. e., £26 19s.) at the annual sale in July, 1898. A grand selection of yearling and other sheep on offer, sired by the most carefully selected sires obtainable, in which are contained all the best strains of the present day. Telegrams: "Dudding, Ryby." -o

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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. Address: FITZALAN HOUSE, ARUNDEL ST., STRAND, LONDON W. W. Cables—Sheepcote. London. -om

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**"ABELL THRESHERS ARE GOOD THRESHERS."**

THE BIRD THAT BLITHELY CROWS IN THE THRESHING FIELDS OF

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**NEW ABELL**

**"Cock o' the North" Separator**

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His spurs are sharp,  
Right lustily he crows.

WIDE-AWAKE THRESHERMEN ARE GETTING IN ON THE GROUND FLOOR BY BUYING ONE OF THE NEW ABELL MACHINES.

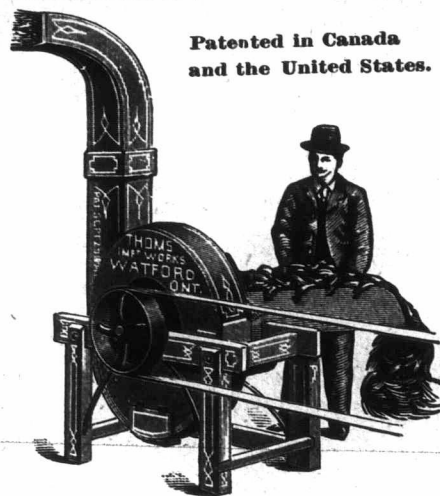
13 Gold Medals awarded to the Abell Engines.

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Patented in Canada and the United States.

OUR machines have filled more silos, twice over, than has been filled by all the other combined families of imitation machines. It's foolish boasting for any firm to say that their machines are the only practical pneumatic cutters on the market.

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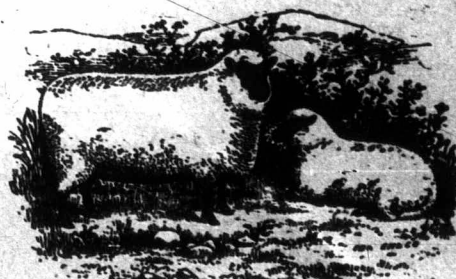
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LABORATORY OF INLAND REVENUE, OFFICE OF OFFICIAL ANALYST, Montreal, April 8, 1895.

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To Farmers, Stock Dealers and Wool Growers: For Sheep, Cattle and Horses.

**Leicestershire Tick and Vermin Destroyer**

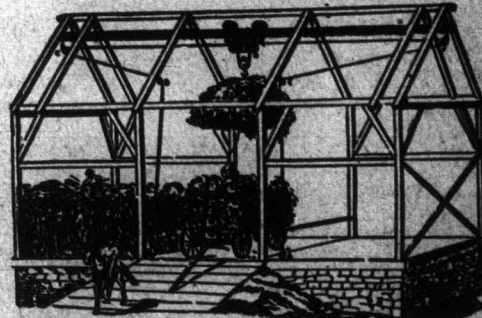
It effectually destroys Ticks, Lice, Worms or Grub, to which sheep, horses and cattle are subject, and enables the animals to thrive. It will be found far superior to other preparations used for the similar purpose. The proprietors will guarantee perfect success when used according to directions, as will be found on each box. It prevents scurf and scab, and renders the wool bright and clear. It is put up in tin boxes, price 30 cents each. One box is sufficient for twenty ordinary-sized sheep. It only requires to be tried to prove itself all that is claimed for it. Sold by druggists and grocers. Manufactured by G. C. BRIGGS & SON, 31 King Street West, Hamilton, Ont. -o



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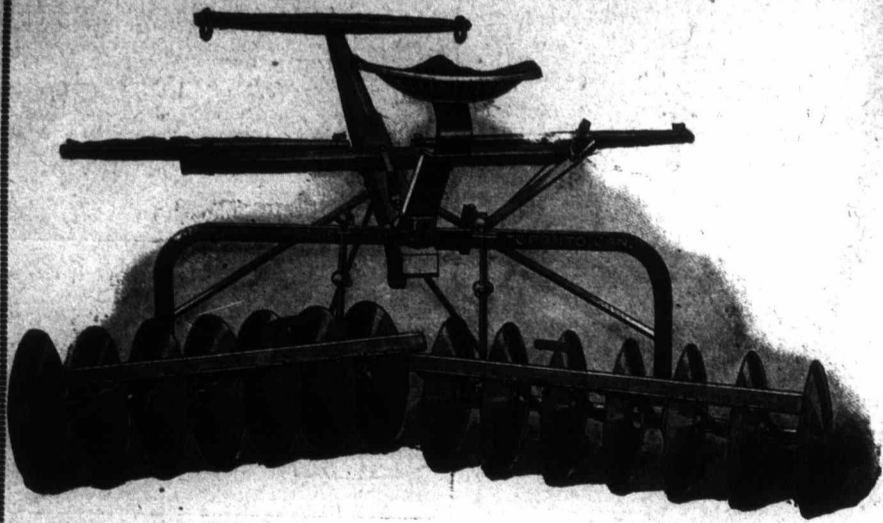
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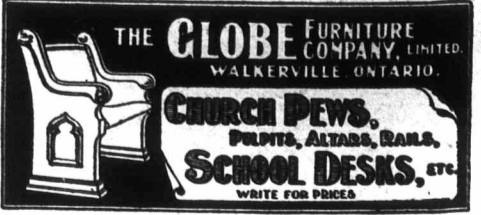
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which is a tar product, is also a cheap and effective

Circulars (specially prepared by a veterinary surgeon) on these diseases, on application.

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