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(VI. No. 20.

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March 21st, 1899.

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FARMING

VOL. XVI

MARCH 21st, 1899.

No. 29

Agricultural News and Comments

At the last meeting of the Agricultural Student Union of Ohio, Professor C. A. Zavitz, of the Ontario Agricultural College, gave a very interesting address on the work of the Ontario Experimental Union.

There is a good market for butter in South Africa, which is supplied chiefly by Australia from October to May, and by Denmark from May to July. Considerable American butter is also shipped there, and the greatest demand for it is from July to October.

In an improved horse collar the facing is formed of a metal plate of similar shape to those now in use, the back consisting of an inflatable tube, which is blown up to the desired hardness, adjusting itself to the shape of the animal's back and easing the strain of pulling.

This seems to be an age of trusts, or at least our cousins across the line are having their fill of them. The latest rumor is a beef trust by the big packers. Every beef raiser will know what this means should the packers succeed in their scheme. It is to be hoped that it is only a rumor.

A rein guide and guard has been invented to prevent the reins from falling over the dashboard or from becoming entangled in the horse's tail when driving. It is so arranged that it can be fastened beneath the back strap and to rest on the animal's haunches, thus supporting the reins.

A Michigan man has invented a feed cooker which can be placed in a barrel to cook the contents and prepare them for fe ding to stock, a stove being formed of a metal tube, with a smoke pipe at the top, and draft pipes running down on one side, in which air is forced to burn the com bustibles.

A new Dairy School has been started at Woodstock, N.B. Mr. J. F. Tilley, one of the dairy superintendents of the Province is in charge. Woodstock is in the centre of the best farming district of New Brunswick and should be well patronized. Mr. Tilley in ordering FARMING for the school speaks of it as a most valuable farm and dairy journal.

What is said to be the largest hog ever raised was recently slaughtered in New York. The animal was a Jersey red boar two and one-half years old, weighing alive 1,609 lbs., and dressing 1,336 lbs. It measured nine feet from tip of nose to the end of its tail, two and onehalf feet across the loin, two and one-half feet across the hams and six feet in girth.

A self propelling traction sleigh has been invented by a resident of Washington State. The propelling power con sists mainly of two barrels mounted parallel to each other, each having ice-cutting flanges projecting therefrom, and on these rests the weight of the sleigh. As these barrels are rotated by hand power or otherwise the sleigh worms its way along over the ice and snow.

Some idea of how much the British people eat may be gathered from the amount of butter and oleomargarine imported last year. Of butter the imports were 320,909,-300 lbs, and of oleomargarine 89,987,500 lbs. The butter imported cost the people of Great Britain \$99,800,855 and the oleomargarine \$11,918,870. Denmark turnished nealy fifty per cent. of the butter and Canada only about three per cent. An English tood specialist has devised a plan for blending peanut meal with grain products to produce a mixture having the desirable qualities of pure wheat flour, with the added rich protein contents of the pea meal. Winter wheat flour has about 10.4 per cent. protein, but the food of man should contain about 20 per cent. by weight of protein. Peanut meal has about 43 per cent. of protein, which is a muscle producer, and if a satisfactory combination can be made with wheat flour the two would contain sufficient nourishment to meet the requirements of man's physical existence.

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Inter-Provincial Trade

Last week a deputation consisting of representative breeders and members of the Cattle, Sheep and Swine Breeders' Association waited upon the Provincial Government and asked for a grant of $\$_1,000$ to extend inter-provincial trade in purebred live stock. In many respects it was one of the largest and most representative deputations that has waited upon the Government during the present session, and we trust that the powers that be will see their way clear to accede to the request of our stockmen and breeders.

It is hardly necessary for us 'o state that we are entirely in sympathy with the stockmer. in their request and believe that the Government could not expend \$1,000 that would do more good, not only to the important live stock interests of Ontario, but to every agriculturist in the province. There is no class of our citizens doing more for the building up of the agricultural interests of this country to day than the importer and breeder of purebred live stock, whether of cattle, sheep, or swine. Every purebred animal he brings into the country, or produces, adds so much more wealth to the country in the improved quality of its live stock. True, the breeder is not doing all this work for nothing and expects to make a profit on every animal he sells, which is nothing but fair-though we question very much whether any large breeder or importer in Canada has ever made himself rich in the business. His services, nevertheless, are just as valuable, and any grant from the public chest that would help him to extend his trade would be returned tenfold in the improved condition of the live stock of the country.

The special branch of farming that has made Great Britain famous among agriculturists all over the world is that of purebred live stock. She is to-day the breeding ground from which new blood is secured to replenish the herds in about every country under the sun, and there is a possibility of Ontario in this special line becoming for this continent what Great Britain is for the whole world. But to give Ontario this proud position a market must be found for the stock produced or in other words we must let people in the other provinces and in the United States know that we have the best of purebred stock for sale. Considerable progress has been made along this line during the past two years by the publishing of a list of purebred stock for sale and sending it to prospective buyers, not only in Ontario, but in other parts of the Dominion and in the United States. To extend this work, however, and to place it on a basis that will thoroughly establish and insure this trade for all time to come the various associations interested need more money. It will not do to put off this matter till next year, as a large portion of the trade may be lost by that time. There never was a period in the history of this continent when there was a greater demand for purebred live stock of all kinds than at present, and the time to strike is now.

There may be a feeling in the minds of some that only our larger breeders and importers are benefited by this movement. But this is not so. The real benefit comes to the smaller breeders and those who have a few good animals for sale. The publication of these lists has been a great help to the smaller breeders in enabling them to get better prices for their stock, and to reach buyers in all parts of the country. As one of the members of the deputation pointed out, the work of the larger bodies has been very much hampered during former years because the smaller breeders who bought stock from them were not able to get sale for their produce. These lists, in enabling the latter to dispose of their young animals, have greatly benefited the larger breeder and importer, and thus given an impetus to the live stock trade of the country that it never had in the past.

But all this work has a reflex action ; it benefits the one who buys as well as the one who sells. Not only is the Ontario breeder, who is enabled by the publication of the lists of stock for sale to dispose of his surplus animals greatly benefited, but the purchaser in the other provinces of the Dominion is equally benefited. And, as the impor-tation of purebred stock into Ontario from Great Britain and elsewhere is of immense value to this province, so the exportation of good stock outside of Ontario adds greatly to the wealth of the other provinces of the Dominion in which this stock is sold.

In this way the work that is being carried on by these live stock associations has more than a provincial character and not only should they be aided in the most liberal way by the local Government but also by the Dominion Gov-The Federal Government has during the past ernment. eight or nine years spent large amounts in developing dairying in the outlying provinces with splendid results. But why should it not do something to encourage the raising of better stock in these provinces ? And there is no better way of fostering the raising of good live stock in these newer districts than by granting such assistance to the live stock associations as will enable them to greatly extend the good work they now are doing.

Another important work which these associations have accomplished is that of obtaining reduced rates on the railways for the transportation of purebred live stock. Though very valuable concessions have already been obtained from the railways, there is more to be done in this respect and which can be done much more effectually if the association have more funds. Then, there is the great question of transportation as it applies to the carriage of our products to the consumer in Great Britain and elsewhere. There is no more important problem before the people of Canada to day than this. In the transportation of cattle alone the Ontario shipper has to pay \$6 per head more to get his animais to the consumer than the cattle shipper of the Western States. This is something that these associations, which are looking after the interests of the live stock farmer, might very well take up. Until these great disadvantages in regard to freight rates are removed or remedied this country will never be able to successfully compete with other lands in supplying food products to the British consumer.

Sheep Worrying and the Dog Tax

A subscriber in Norfolk County sends us a number of suggestions for amendment to the Act imposing a tax on dogs and for the protection of sheep. He informs us that this question has been very fully discussed by the farmers in his district, who agree that the present law does not meet the needs of the case, and as a result a great many farmers all over the province have gone out of sheep-raising. These suggestions, which are based upon a resolution passed by the Bloomsburg Farmers' Union, are, we understand, in the hands of the Minister of Agriculture and the local member for North Norfolk, and will probably come up for discussion at the present session of the Legislature. They are as follows :

1. That one or more inspectors be appointed in each municipality, who shall act as valuators on sheep destroyed by dogs. They shall also be authorized to destroy all dogs found without tags and dogs known to have worried sheep.

2. That the Act be amended so that an annual tax of five dollars be levied on bitches.

3. That each municipality shall pay full value for sheep damaged or destroyed by dogs. 4. The owner of any dog known to have worried sheep shall be

free from liability, the dog in every case to be destroyed. 5. It shall be the duty of the assessor to collect the dog tax and furnish each dog owner with a tag, for which he shall pay an annual fee of -- cents.

6. All cities, towns and incorporated villages shall bear a share of the loss caused by dogs worrying sheep in proportion to the number of dogs kept in each.

It is hardly necessary for us to state that we are quite in sympathy with any scheme which has for its object the development of the sheep industry in Canada. There is no doubt but that the worrying of sheep by dogs has induced a great many farmers to give up keeping sheep, and has also prevented many more from engaging in that profitable line of farming. If the present law relating to the tax on dogs is inadequate, by all means something should be done at once to remedy matters. The suggestions made herein seem to be along the right line. If carried into effect they certainly would inflict no hardship on anyone. A dog that is not worth a reasonable tax and the trouble of a tag should be destroyed, as it is of no value The part referring to towns and villages bearto anyone. ing a share of the losses incurred from sheep worrying is in many ways commendable. Very often it is the village or town dog that is guilty of the destruction of sheep in many However this may be, the changes proposed are districts. worthy of the fullest discussion and we would be pleased to hear from our readers as regards their practicability and effectiveness.

A Great Agricultural Meeting at Souris, P.F.I.

(Specially Reported for Farming by J. A. MacDonald.)

One of the greatest, if not the very greatest, agriculturat meetings it has ever been the privilege of the writer to attend was held at Souris, P. E. Island, on March 2nd. It was the largest meeting of farmers ever held (probably) There were about three thousand persons in Canada. present. The large opera house of the town was filled to the door, while hundreds at the door were unable to gain entrance. The meeting was held under the auspices of the local government. Profs. Robertson, Macoi n and Dillon, with the members of the Cabinet and about fifty specialists of the province-such men as Robertson, of Inkerman, Moore, of Cropaud, etc., etc., and many ad-vanced farmers of Kings county came by special train. On the platform were about a hundred of the leading farmers of the county, and the leading clergymen of every denomination, besides prominent business-men and politicians.

The meeting was called to order by Dr. McIntyre, ex-M.P. of the county. The first speaker was Prof. Macoun, Horticulturist of the Central Experimental Farm, Ottawa, who did very well under the circumstances, and gave much practical information on matters horticultural, and at the close of his talk was put through a close fire of question-John Robertson, the P.E.I. apple king, of Inkerman, ing. placed a number of apples on the platform, showing the capabilities of the island for apple growing. Mr. R. strongly urged the audience to take up the growing of apples to a larger extent, assuring them what he had done could be done by others.

Prof. Robertson, Agricultural and Dairy Commissioner, on coming forward was greeted with great applause and was listened to in an address of one and one-half hours with marked attention. Prof. Robertson is certainly a great speaker, and is nothing if not practical. It is a question if there is an equal of Prof. Robertson as a platform speaker on matters agricultural in the wide world, certainly not in Canada or the United States. Those of us who have heard the leading speakers of Canada and the States willbear this statement out.

Previous to the meeting the writer heard some friends remarking to this effect : "If Prof. Robertson would give us \$200 each at the close of his lecture we might be able to profit by what he'll tell us." At the close of the meeting it was curious to note these same parties acknowledging their mistake, and affirming that no man wanted a single dollar more than the average farmer possesses to carry out in every detail the teaching of Prof. Robertson in his lecture of one and one-half hours. This shows how intensely practical the Professor is, and what great results are possible to be obtained from the teaching of such a man.

Prof. Robertson first spoke of the soi!, what it was and how agriculture might be taught in the public schools as it is at present taught in 1,600 schools in the Empire State. He very plainly showed the fundamental principles of plant growth, the value of the clover plant, selection of seed, aided by glasses containing samples of selected and nonselected seeds.

One portion of his lecture was then given to swine raising, and another to chicken fattening. He promised that the chicken-fattening station would be in operation in the province, with cold storage, by August next. He also said that a number of illustration stations would be located in the province next June—three at least, located by the roadsides, where all could see at a glance the xperiments being carried on and the results thereof.

There is no doubt these illustration stations can be made to work great object lessons to the farmers far away and ahead of single experiment stations. In France alone there are 4,0000f these stationsscattered throughout the country

Mr. Dillon was the next speaker. He took the cow for his theme, saying that in order to fatten pigs or chickens you must have milk. He startled the audience by telling them of the large amount of British gold brought to our shores last year for cheese and butter. He counselled all dairymen to sow plenty of peas, oats and vetches this spring for cow feed, and be thus prepared for a possible drouth. Mr. Dillon alway: obtains an attentive audience, and retains the full confidence of the farmers and dairymen of Prince Edward Island.

Premier Farquharson delivered the closing address in a running speech, and promised better things for the farmers of the province. By co-operating with Hon. Sydney Fisher, Premier Farquharson has several helps under consideration for the benefit of the farmer. A vital problem the popular Premier is to grapple is that of keeping the sons and daughters on the farms.

A vote of thanks was tendered to the professor in a nice speech by John McLean, ex-M.P., and seconded by Hon. Thomas Kirkham, of Souris West. The meeting broke up at eleven o'clock, the speakers leaving immediately by special train for Charlottetown, where a meeting of the Dairymen's Associations of the Province took place the following day. Special low rates and a number of special trains were arranged for this meeting. The meeting took place on March 3rd, and was the largest dairy meeting ever held in the province.

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One of the Best in America

Singhampton, Ont., March 9th, 1899.

To the Editor of FARMING :

Please send me your paper, FARMING, for the present year, for which find enclosed \$1. I would say that it is one of the best farm papers published in America.

Yours truly, ROBERT EMERSON.

Further Efforts to Improve the Seed Grain of Canada

During the past ten years continuous effort has been made by Professor Saunders, Director of the Experimental Farms, to improve the quality and increase the productiveness of the seed grain used by the farmers of this country. During that time about 120,000 packages of three pounds each have been sent out to over 100,000 farmers, who have greatly benefited thereby. This work is being continued this year, and these samples are in great demand.

This season, under instructions of the Minister of Agriculture, a new feature has been added to this work. A select number of farmers have been chosen from each county or constituency in Canada, selected mainly from among those who have shown by the returns they have made regarding samples received in the past a special interest in this subject. Nearly 5,000 of these farmers have been invited to join in this special test which will be made in each instance on plots of one tenth acres each. The quantities of grain to be supplied, which is being mailed free from the Experimental Farm, are as follows: Oats, 8 lbs.; spring wheat, 10 lbs.; barley, 10 lbs.

Fourteen varieties which have been thoroughly tested at all the experimental farms, and have proven to be among the best sorts grown, have been chosen for these trial plots. Six of these are oats, viz.: Abundance, Banner, Improved Ligowo, American Beauty, Bavarian and Golden Giant; four spring wheats, Preston, Stanley, Percy and Advance; two two-rowed barleys: Beaver, and Sidney; and two sixrowed barleys: Royal and Trooper.

Every farmer entering on this test has had his own choice of variety, but can only receive one sample. At the close of the season the results obtained in each county will be published so that this test will, to some extent, be a competitive one, and will show the value and usefulness of these several sorts of grain in the various provinces of the Dominion.

The following particulars are given by Dr. Saunders in reference to the introduction of the varieties chosen for this special test and the record they have made as to crops during the past four years:

The ABUNDANCE oat was imported from France by the Experimental Farm in 1891, and has been grown each year since with very satisfactory results. It is a white oat with a branching head and a fairly stiff straw, a vigorous grower, and very productive. In the uniform test plots at the Central Experimental Farm it has given an average yield during the past four years of 66 bushels 37 pounds per acre. The Abundance oat has been similarly tested at all the experimental farms throughout the Dominion, and has given, as the result of four years' trial, an average crop of 65 bushels 9 pounds per acre. The largest crop yet given by this variety at any of the experimental farms was had at Indian Head, N.W.T., in 1895, when it produced 108 bushels 28 pounds per acre.

The BANNER oat was first grown at the experimental farms in 1890, and has been sown each year since and has given heavy crops. From the outset it has shown great vigor and has been very productive. It is a white oat with a branching head and a stiff straw. In the uniform test plots at the Central Experimental Farm it has given an average yield during the past four years of 70 bushels 21 pounds per acre. The Banner oat has been similarly tested at all the experimental farms throughout the Dominion, and has given, as the result of four years' trial, an average crop of 71 bushels 17 pounds per acre, which is the largest yield given by any variety. The heaviest crop yet obtained from this oat at any of the experimental farms was at Brandon, Man., in 1898, when it gave 106 bushels 6 pounds per acre. In 1895 at Indian Head, N.W.T., an 18 acre field of this oat gave an average of 106 bushels per acre.

The IMPROVED LIGOWO oat was imported from France by the Experimental Farm in 1891, and has been grown each year since with very good results. It is a white oat, large and plump, with a branching head and stiff straw, a vigorous grower and very productive. In the uniform test plots at the Central Experimental Farm it has given an average yield during the past four years of 65 bushels 30 pounds per acre. The Improved Ligowo oat has been similarly tested at all the experimental farms throughout the Dominion, and has given, as the result of four years' trial, an average crop of 64 bushels 6 pounds per acre. The largest crop yet given by this variety was had at Indian Head, N.W. Γ , in 1896, when it produced 92 bushels 32 pounds per acre.

The AMERICAN BEAUTY oat was first grown on the Experimental Farms in 1891, and has been tested each year since with very satisfactory results. This is a pale yellow oat with a branching head and fairly stiff straw, a vigorous grower and very productive. In the uniform test plots at the Central Experimental Farm it has given an average yield during the past four years of 62 bushels 32 pounds per acre. The American Beauty oat has been similarly tested at all the experimental farms throughout the Dominion, and has given, as the result of four years' trial, an average crop of 71 bushels 16 pounds per acre, which is only 1 pound per acre less than the Banner, which stands at the head of the list for productiveness. During the past season (1891) a five acre field of American Beauty gave at the Central Farm an average crop of 82 bushe's 11 pounds per acre. The largest crop yet given by this variety was had at Brandon, Man., in 1898, when it produced 113 bushels 18 pounds per acre.

The BAVARIAN oat was first grown on the experimental farms in 1895, and has been tested each year since with good results. It is a white oat with a branching head and a stiff straw, which has shown much vigor and been very productive. In the uniform test plots at the Central Experimental Farm this oat has given an average yield during The the past four years of 62 bushels 13 pounds per acre. Bavarian oat has been similarly tested at all the experimental farms throughout the Dominion, and has given, as the result of four years' tria!, an average crop of 66 bush-The largest crop yet obtained els, 33 pounds per acre. from this variety at any of the experimental farms was at Brandon, Man., in 1898, when it gave 109 bushels 14 pounds per acre.

The GOLDEN GIANT oat was first grown on the experimental tarms in 1893, and has been tested each year since with satisfactory results. It is a yellow oat with a sided head and a fairly stiff straw, which has proved vigorous in growth and very productive. In the uniform test plots at the Central Experimental Farm this oat has given an average yield during the past four years of 65 bushels 7 pounds per acre. The Golden Giant oat has been similarly tested at all the experimental farms throughout the Dominion, and has given, as the result of four years' trial, an average crop of 04 bushels 19 pounds per acre. The largest crop yet obtained from this oat at any of the experimental Farms was at Indian Head, N.W.T., in 1895, when it produced 104 bushels 4 pounds per acre.

The PRESTON wheat is a cross-bred sort produced at the Central Experimental Farin, Ottawa, in 1888, by fertilizing the Ladoga wheat with the Red Fife. It is a bearded variety which has shown great vigor and productiveness. It has a stiff straw and ripens on an average about four At the Central Experimental days earlier than Red Fife. Farm it has been tested alongside of a large number of other sorts, under similar conditions for four years, and has given an average yield for this period of 26 bushels 4 pounds, which is 2 bushels, 4 pounds per acre more than that obtained from any other sort at Oitawa. The Preston wheat has been similarly tosted at all the experimental farms throughout the Dominion, and has given, as the result of four years' trial, at all these farms an average of 32 bushels 17 pounds per acre, being 1 bushel 17 pounds more than that obtained from any other variety tested. The largest crop yet given by the Preston at any of the Experimental Farms was at Brandon, Man., in 1895, when it gave 48 bushels 20 pounds per acre.

The PERCY wheat is a cross-bred sort, produced at the Central Experimental Farm, Ottawa, in 1888, by fertilizing the Lad.ga wheat with the White Fife. It is a beardless variety with a stiff straw, which has shown much vigor and productiveness, and ripens on an average about four days earlier than the Red Fife. In the uniform test plots at the Central Experimental Farm it has given an average yield during the past four years of 21 bushels 7 pounds per acre. The Percy wheat has been similarly tested at all the experimental farms throughout the Dominion, and has given, as the result of four years' trial, an average of 30 bushels 24 pounds per acre. The largest crop yet obtained from this variety at any of the experimental farms was at Indian Head, N.W.T., in 1898, when it gave 45 bushels 20 pounds per acre.

The STANLEY wheat is a cross bred sort, a sport which occurred in the variety known as Preston, a cross between Ladoga and Red Fife. This is a beardless sort with a stiff straw, which has shown much vigor and productiveness, and ripens about four days earlier than Red Fife. In the uniform test plots at the Central Experimental Farm it has given an average yield during the past four years of 22 bushels 41 pounds per acre. The Stanley wheat has been similarly tested at all the experimental farms throughout the Dominion, and has given, as the result of four years' trial at all these farms, an average of 29 bushels 3 pounds per acre. The largest crop yet obtained from this variety at any of the experimental farms was at Nappan, N.S., in 1896, when it gave 49 bushels per acre; the second largest crop was at Brandon, Man., in 1895, when it gave 43 bushels 30 pounds per acre.

The ADVANCE wheat is a cross-bred sort, which was produced at the Central Experimental Farm in 1888, by fertilizing the Ladoga wheat with, the White Fife. It is a bearded variety with a stiff straw, which has shown much vigor and productiveness, and ripens on an average about three days earlier than the Ked Fife. In the uniform test plots at the Central Experimental Farm it has given an average yield during the past four years of 21 bushes 20 pounds per acre. The Advance wheat has been similarly tested at all the experimental farms throughout the Dominion, and has given, as the result of four years' trial, an average crop of 29 bushels 8 pounds per acre. The largest crop yet obtained from this wheat at any of the experimental farms was at Brandon, Man., in 1895, when it gave 46 bushels 20 pounds per acre.

The variety of two rowed barley known as BEAVER is a hybrid produced by crossing the Swedish two rowed barley with the Baxter, a six rowed sort. This cross was effected at the Central Experimental Farm in 1889, and it has been tested each year since with satisfactory results. It has a stiff straw, is a vigorous grower and productive. In the uniform test plots at the Central Experimental Farm it has given an average yield during the past four years of 42 bushels 9 pounds per acre, which is the highest yield obtained from any of the varieties tried at Ottawa. The Beaver barley has been similarly tested at all the experimental farms throughout the Dominion, and has given, as the result of four years' trial, an average crop of 41 bushels 12 pounds per acre. The largest crop yet given by this variet, was had at Indian Head, N.W.T., in 1896, when it produced 66 bushels 32 pounds per acre.

The variety of two-rowed barley known as SIDNEY is a hybrid of the same parentage as Beaver. This cross was effected at the Central Experimental Farm in 1889, and this barley has been tested each year since with satisfactory results. It has a stiff straw, is a vigorous grower and productive. In the uniform test plots at the Central Experimental Farm it has given an average yield during the past four years of 39 bushels 38 pounds per acre. The Sidney barley has been similarly tested at all the experimental farms throughout the Dominion, and has given, as the result of four years' trial, an average crop of 39 bushels per acre. The largest crop yet obtained from this variety at any of the experimental farms was at Indian Head, N.W.T., in 1896, when it produced 61 bushels 42 pounds per acre.

The ROYAL s.x-rowed barley is a hybrid which was produced at the Central Experimental Farm in 1889 by crossing the Swedish two-rowed barley with the Baxter, a sixrowed sort. It has been tested each year since with satisfactory results. This barley has a stiff straw, is vigorous in growth and productive. In the uniform test plots at the Central Experimental Farm it has given an average yield during the past four years of 53 bushels 26 pounds per acre. The Royal barley has been similarily tested at all the experimental farms throughout the Dominion, and has given, as the result of four years' trial, an average crop of 45 bushels 4 pounds per acre. The largest crop yet given by this variety at any of the experimental farms was at Brandon, Man., in 1895, when it produced 65 bushels 30 pounds per acre.

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The TROOPER six-rowed barley is a hybrid of the same parentage as Royal. It has been tested each year since with satisfactory results. This barley has a stiff straw, is vigorous in growth and productive. In the uniform test plots at the Central Experimental Farm it has given an average yield during the past four years of 48 bushels 17 pounds per acre. The Trooper barley has been similarily tested at all the experimental farms throughout the Dominion, and has given, as the result of four years' tr'al, an average crop of 46 bushels 29 pounds per acre. The largest crop yet given by this variety at any of the experimental farms was at Indian Head, N.W.T., in 1896, when it produced 67 bushels 14 pounds per acre.

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Ornamental Shrubs

Written for "Farming" by E. Morden, Niagara Falls South, Ontario.

Ornamental shrubs and trees would be much more largely planted if examples in sight had been planted and manabed with more judgment and taste. To distribute shrubs singly through a lawn is a mistake. Commonly the effect is b.d., the labor of cultivating a space about each shrub is so great that it is rarely continued. A large bed or group of shrubs can be better and more easily cared for; while a single shrub is often interesting for a brief period a group of shrubs is interesting for months together.

If a considerable variety is planted there will be _outinuous bloom during the season of growth. While the foliage lasts plants with a golden or purple foliage give a continuous effect. The Forsythias give a very early abundant yellow bloom before the leaves appear. As these are often in bloom at the spring planting season they sell at sight. Their foliage is bright and good. Several of the spireas are early, and one has golden foliage Spirea ban Houttie has good foliage and produces a snow bank of Spirea thunbergii is valuable on account of its bloom. peculiar light green narrow foliage. It is useful in bouquets for months together. Meigela rosea is a fine bloomer and useful in foliage. Meigela bariegata has a nice golden-bordered foliage. The denterias in June make a fine show and ought to be more largely grown. Tartarian honeysuckle makes nice hedges. It comes into leaf very early in the spring, and 1s then much admired. In late summer, in time of drought, the foliage sometimes drops. Flowering quince and flowering almond are both fine in early spring, but singly are rather common place later on. Neither is reliable in northern Ontario. Syringas, single and double, with cream colored very fragrant blossoms, are valuable. Their resemblance to orange blossoms gives us the name mock orange. Rhodotypus kearoides is a nice shrub with white flowers and light green foliage. Golden elder is visible at long distances. Prunes pissardi, or purple leafed plum, is a small tree, suitable for a centre or background in a group. Its foliage has a persistent dark liver color and is very distinct. Golden poplar is a small tree and valuable in a group.

Autumn flowering shrubs are peculiarly valuable. Of these the tree hydrangea, which holds its immense heads of blocm from August until the end of the season, is not as well known as it should be. It always blooms. In dry ground the heads are not so large. Hydrangea paniculata grandiflora is none too large a name for it. The Rose of Sharon, althea, or tree hollyhock, blool. s for months in autumn. The large flowers are red purple, blue purple, or white with red centre. Tree hollyhock is a good name and a correct one. A variegated leaf variety has leaves with distinct white colorings. These shrubs flourish here, but are not reliable in some parts of Ontario.

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Manures and Manuring

By T. C. Wallace, Before the Ontario Farmers' Institute

(Continued from last issue.)

OUR SOILS.

To return again to our soils. As we got them from the prairie and forest primeval they contained a rich upply of humus, caused by the decomposition of ages of plant life which had grown up and dying down left plant bodies for food for following plants. This humus was rich in the atmospheric element of nitrogen, got from the air through the species of "nitrogen collectors" already referred to, and by the action of micro organisms of nitrification. It was rich also in mineral matter, which had taken new form in the plants which had formed it (though inorganic elements), and these soils are what we term organized or in a condition which grains, roots, grasses and fruits can feed from them readily. We term them rich. On these soils our farming generally began by

GRAIN GROWING

as an easy and remunerative method of working. As we found these lands in a state of rich humus supply, we may take as a first condition of manuring that a good supply of humus is necessary.

As we grew our grain crops let as inquire what was the general result on the fertility of our soils and how did it leave them for future agriculture. It may as well be stated here that the soils of our farms are mines of agricultural wealth, but it is mostly locked up so tight in the hard anyielding ground rock that our plants cannot feed from it. Only that portion of it which is available to our plants can be called fertility, the rest has yet to be rendered so.

The straw contains most of the potash removed from the soil by the crop. It was usually returned to the soil, apart from the fact that our soils are usually well stored with potash. Even often to a greater extent than lime, no serious loss of potash occurred by such grain growing.

If the straw was returned without burning, humus was also maintained to some extent. The most of the nitrogen goes to the grain, though the straw also carries some back to the land. It has been an accepted theory that wheat is a great user of nitrogen because it seems to be benefited by the application of soluble nitrates, but this, I think, is founded on empirics. The real fact would seem to be that the wheat grows during the early part of the season when nitrates are not very active in the soil and has yielded up its life by midsummer, after which nitrates are more active. The phosphoric acid of this crop then goes off almost entirely in the wheat seed, and the straw retains almost none of it, because it goes to effect perfect ripening of the grain and fit it for reproduction of the species. The loss, then, in grain growing is principally of the nitrogen and phosphate. So serious does this become in time that the grain gets poorer and softer, the crop less, the stand weaker, and the plants succumb to various fungoid diseases and the ravages of insects which are always in evidence to attack weakened constitutions. As it is in the animal kingdom, so it is in the domain of plant life. Gradually the seriousness of this state of affairs dawns upon us and we begin to realize the necessity of returning some of the lost fertility. We hit upon the plan of stock keeping for beef, mutton, pork and the dairy. The crops shall then be fed upon the farm and only the finished product sold off. The manure of the animals with the straw litter shall be returned to the land and we then think we have done our whole duty and fall into the error of calling that complete manuring.

The Condition of Live Stock on the Western Ranges

From a bulletin issued by the National Live Stock Association on March 3rd we take the following : "For the past month the headquarters of the National Live Stock Association has been engaged in gathering reports of the condition of live stock on the western ranges. These reports include almost the entire West, and cover loss from winter weather and storms, together with general condi-tions for the spring. Owing to the incomplete condition of this work it was not intended to make public results until later, but as there have been many conflicting reports published, and these headquarters are besieged with inquiry for facts, it is thought best to publish information thus far received. It is well to state, however, that while reports up to this time are much more favorable than generally expected, the danger period is not over. While most of the cattle have wintered well, the winter has been of unusual severity, and while losses are light thus far, the cattle are as a rule very weak and in poor condition to withstand severe storms of the spring. One of the worst features in the outlook is the scarcity of forage reported from many districts. Very early grass is an absolute necessity to keep many of the cattle alive.

"The 'cattle of commerce,' or, more intelligently speaking, cattle in the feed lots, do not enter into this question in any manner, as the agricultural districts have sufficient feed to carry these animals through the winter with only nominal losses.

"With the exception of Montana, reports have been received from leading stockmen, and are considered accurate as far as they go. . . The heaviest losses have been with so-called 'through cattle,' that is, cattle being moved north from the south. Where the cattle went into the winter in bad condition, the mortality has been he vy, reaching in some sections as high as 20 per cent. Taking the range section as a whole, to the present time, the losses will average 4 per cent. With the most favorable conditions that can be expected an additional loss of 2 per cent. may be looked for before spring, and should the weather continue bad through March a heavy loss will certainly result.

"The department of agriculture reports that there were in the neighborhood of 13,000,000 head of cattle in the range country on January 1st, 1899. Assuming that this is correct, 6 per cent. of this number would indicate the destruction of 780,000 head of cattle during the present winter.

"One feature of the reports received is the scarcity of steers above the age of two years which seems to prevail generally over the West. Some sections, notably Texas, reports a scarcity of all classes of cattle, but outside of old steers the shortage is not pronounced, and many sections report plenty of young stock.

"Final conditions on the opening of spring depend entirely upon the weather for the next six weeks. It is too early to give anything more than a bare estimate of conditions as they now exist.

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Treatment of Winter-injured Trees

In a recent bulletin the Kansas Experiment Station gives the following for the treatment of winter-injured trees: "Where trees are merely injured, the real damage done to the orchards will depend greatly upon the treatment given them from this time. Trees that are killed should be removed at once from the orchard. If they can be used for fire-wood, well and good; if not, they should be piled and burned to destroy any insects or disease that may infest them. Trees that are partly top-killed are weakened and deadened throughout, and should be heavily cut back, the extent depending upon the degree of injury. In many cases it will be necessary to cut back to the main branches or even to the trunk, but where the injury is less severe the cutting may be confined to the smaller branches of the tree. Though the branches of an injured tree may not be killed, it is advantageous to cut them back, because the wood that is browned and deadened can never perform its life functions again. It becomes as heart-wood and must be enclosed by a layer of new wood. The quicker we can get this deposit of new wood the better and the more of it the better. By cutting cff the branches of the tree, it is reduced in surface and the new wood is more rapidly deposited on the parts that remain. The energy that is spent in blossoning is also saved to the tree by the severe pruning. It is necessary to prevent the vitality of the tree from dissipating itself in any way, and to husband and apply it so as to restore the tree quickly to its normal process of growth.

"Trees treated in this way will rapidly regain their vigor unless the injury is very serious. They will also quickly resume their normal habit of growth and shape. Cutting back the last year's growth in the winter is especially beneficial to the peach, whether it has been injured by cold or not, as its branches tend to grow long and slender, and in bearing fruit near the extremities they break and split and are ruined. Where blackberries and raspberries have been killed back to the ground, the canes should be cut out and burned.

"A difference in opinion exists as to the best time for cutting back injured trees: some growers prefer to have the work done before the leaves open, others choose a later time; but the safe t way is to do it early. As soon as the degree of injury is known, therefore, we may wisely begin the pruning. If left till a later time, other work may crowd it out entirely, with the result that the orchard is lost. A saw and tree pruners are the tools to be used. It will be beneficial to carry along a keg of white lead and apply a coat of the lead to the wounds made. This will keep out the air, prevent the wood from checking, and retard evaporation from it. All pruned-off wood should be removed from the orchard and burned.

"The process here described will not save all the trees that have been injured, but, if done with care, it will save many, and those that die after the treatment is given will probably die in spite of rather than because of it.

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Alfalfa for Fattening Hogs

Last fall the Kansas Experiment Station made an experiment to test the feeding value of alfalfa hay when fed to hogs. The hogs fed in this experiment were bought of farmers and averaged 125 lbs. each. They were placed in lots of ten each, in large pens The alfalfa hay used was of the best quality, carefully cured. Black hulled white Kaffir corn was the grain fed, the hogs being fed all that they would eat without waste. The hay was fed dry in large forkfuls in a large trough. The pigs were given more than they would eat. One lot of hogs vere fed Kaffir cornmeal dry and alfalfa hay; one lot whole Kaffir corn dry; one lot Kaffir cornmeal dry, and one lot Kaffir cornmeal wet. The experiment began on November 24th, and lasted nine weeks. At that time the alfalfa-fed hogs were ready to be marketed, while those fed grain alone would have required four or five weeks' more feeding to get them in good marketable condition.

The gains in nine weeks from the different methods of feeding were as follows :

Gains per hog in po	unds.
Kaffir corn meal dry and alfalfa hay	90.9
Kafhr corn whole	59.4
Kaffir corn meal fed dry	51.4
Katfir corn meal fed wet	63.3

The gain from feeding alfalfa hay with Kaffir corn meal fed dry, over the meal alone fed dry, is more than seventythree per cent. The gains per bushel of feed were as follows:

rounds.
Kaffir corn meal dry and 7.83 pounds alfalfa hay 10.88
Kaffir corn whole
Kaffir corn meal fed dry
Kaffir corn meal fed wet 8 09
The hogs in nine weeks were fed 656 pounds of alfalfa

I. R.

hay. For each 7.83 lbs. of alfalfa hay fed with the Kaffir corn meal, the hogs gained 3.4 lb. over those having dry Kaffir corn meal alone, a gain of 868 lbs of pork per ton of alfalfa hay. In a former experiment it was shown that the gain pei acre when hogs were pastured through the summer on alfalfa with a light feeding of corn was 776 pounds of poik.

These results obtained at the Kansas Station are certainly good. Alfalfa is receiving more attention in this country, and we would like to hear from any who have had any experience in feeding it to hogs. Pork raising is one of our most important industries, and any plan that will tend to lessen the cost of production will be relicoined by our farmers. Nothing is said in the experiments mentioned above as to what effect the feeding of alfalfa had upon the quality of the pork.

CCRRESPONDENCE

Some Practical Poultry Questions

To the Editor of FARMING:

I should like to hear through this valuable paper in next issue, from some expert poultry breeder, his strictly unbiased opinion as to the following questions :

Is it possible to make hens lay as many eggs in winter as in summer?

Isn't heat as essential to egg production as proper food and exercise?

Would 60 or 70 degrees in a poultry house be too warm, other requisites being provided?

What breed or strain of fowl is actually the most profitable as a broiler, and as an adult ?

Markham, Ont., March 11, 1899.

NOTE—Will some of our poultry breeders kindly give J.R. the information he desires? The questions are thoroughly practical and furnish a good opportunity for imparting knowledge of value to the poultry industry of Canada.—EDITOR.

A Talk on Manure

To the Editor of FARMING :

I have read with much pleasure, and I hope pront, "Bulletin No. 31 on Barn-yard Manure," by Professor Shutt, of the Central Experimental Farm. Every farmer should secure a copy and mark, learn, and inwardly digest the truths therein contained. The practical information, so clearly and planny stated, if intelligently followed, would be the means of adding a large amount of wealth to the farmers of this Dominion.

Driving through the country in the winter season, it is surprising to see the careless and reckless manner in which otherwise good farmers handle the manure; the horse manure thrown out in one pile to ferment and fire fang, and thus become useless as a fertilizer. When manure heats to such an extent as to become white, it is worthless, as ali the good or the gases have gone off into the air to be brought down by the rain, probably to enrich some other man's farm. It reminds me of rendering out tallow in a pot with a hole or a crack in it. The grease drops into the fire and is burned up, while there is nothing left in the pot but dry, ureless cracknels. The cow manure is thrown out in another pile to freeze solid and get mixed with snow and water from the barn roof. Others haul the manure out to the fields and put it in round high heaps like a stack. The rain will run off these heaps like water off a duck's back, and the manure will heat and burn up. If, however, the horse and cow manure were put into a heap near the barn every day, in the absence of a manure shed, and the heap built up square at the sides, and flat on top, the horse manure would heat up the cold cow manure and the flat heap would catch what snow and rain would fall, which would regulate the heat, and result in making a perfect fertilizer. If it were found that the pile was heating too much, saturate it well with water, or shovel snow on if convenient, and thus check the fermentation; the results would amply repay the trouble.

By this plan the manure could be hauled out to the fields where it is intended to be applied, and handled in the same way. We are in favor of a light dressing of manure and applied more frequently, rather than a heavy dressing at longer intervals. The manure should be kept as near the surface as possible. The better plan is to mix it with the top soil by very light ploughing or cultivating. I would not advise spreading manure on the surface after the ground is frozen but it is all right anytime up to then. There should always be a good supply of absorbents in the stable and there is nothing better than dry earth. This absorbent costs nothing, is as good as gypsum and can be gathered during the dry time in summer from the road side, or along the line fences, and stored conveniently for use. Then by having water tight gutters, which are easily con structed, the most valuable part of the manure will be saved and the stable kept as sweet as a nut.

Pownall, P.E.I., Feb. 27th, 1899. A. A. MOORE.

Sheep on a 100-Acre Farm

To the Editor of FARMING:

In reply to your inquiry concerning sheep I would say that on the average 100-acre farm from ten to twenty sheep is the number that is kept in our neighborhood. I have always contended, however, that whatever a man has the most taste for that is what he should follow. If a man has more taste for taking care of and feeding sheep, he should be able to do better with them, and he could keep more than the man who had not this inclination. Another man would perhap: do better in caring for cows if his taste lay that way. I would advise your correspondent to go slow, and creep up; buy a few good ones, and as he gained in experience he could keep more. If he wishes to make his a sheep farm he might keep as many as a hundred, but I would go slow myself.

As to the most profitable way of keeping sheep on the average farm, I hardly know how to answer. I know some farmers who turn their sheep on the road in the summer, and do not feed them very good through the winter. Thev just feed them on pea straw, which is a cheap way, but I do not say that it is the best way. I think it is better to give sheep the best care possible, and keep them grow-ing from the start. There are other farmers who think the most profit is in having the lambs come very early, and selling them for spring lambs at five and six dollars each. There is a good deal in this plan, as the lambs are then out of the way early, but then there is a lot more work about this way than there would be to have the lambs come later, say about the first of April, when they soon get to grass, are not of much further trouble till fall, when they are fed for the butcher. If they have been well fed, and are a good kind, these lambs will realize from four and a half to five cents per pound, live weight, which gives a good profit. We have had 'ambs weigh at nine and ten months We have only a small lot at present, as we keep 200 lbs. them only for breeding purposes, but are hoping to in-crease our flock soon. A few very choice ones will bring better returns than a large lot of poor ones.

As to the cost of keeping a sheep for a year. We have always had an abundance of 'eed, so I hardly know the actual cost. About five pounds of turnips per day is a good average feed for a good-sized sheep. This would be about twelve bushels for the winter, which, at six cents per bushel, would be seventy two cents, and a pound of oats a day would be about four bushels, which, at twenty-five cents per bushel, would make one dollar. These, with the roughage, would winter sheep very well until they began to lamb, when they would want some clover hay and a little bran. Then to this should be added pasture, which should not be more than twenty five cents per month if it had to be hired. I think the way we keep our sheep that it would cost more than this, say from \$5 to \$7 per year. Hoping this will be satisfactory,

WILLIAM WILLIS.

Pine Ridge Farm, Newmarket, Ont., March 3rd, 1899.

QUESTIONS AND ANSWERS. THUMPS IN PIGS.

A subscriber wishes to know the symptoms and also the cause of the disease known as thumps.

The disease known as thumps is very common among pigs, especially young ones. It is, however, not a disease in itself but an evidence of disease, and is an accompaniment of many diseases. Its symptoms are a jerking or twitching action of the heart or diaphragm. As thumps are merely an evidence of other diseases, to cure it it would be necessary to get at the disease itself. The remedy given by 2 western farmer in FARMING for Feb. 28th may have been successful in that it cured the disease which produced the thumps in his pigs.

FEEDING OATS IN SHEAF.

A subscriber at Pownal, P.E.I., asks: "Is it more profitable to feed oats in the sheaf to the cows or to thresh and grind them? Some say that if fed in the sheaf the cows will dry off."

Answered by Projessor G. E. Day, Agriculturist, Ontario Agricultural College, Guelph, Ont.

There is no reliable information regarding the merits of feeding oats in the sheaf as compared with threshing and grinding. Many good dairymen follow the practice to a greater or less extent. Sheaf oats afford variety and are much relished by the cows. There is certainly no danger of drying off the cows, but of course the sheaf oats should not constitute the entire ration. A good sheaf of oats will furnish in the neighborhood of two pounds of straw for every pound of grain. Of course there is great variation in this respect, but the proportion stated will serve as a general guide.

SPRAYING FOR PROFIT.

We have received, "just from the press," a copy of "Spraying for Profit," by H. E. Weed, M.S., manager Mont Vista Fruit Farm, and form ily entomologist of the Mis-sissippi Experiment Station. The aim of the author is to place before the farmer and fruitgrower a small, practical handbook for ready reference, describing the application of the more common insecticides and fungicides so largely used for suppre sing injurious insects and fungus diseases. This object has been very creditably accomplished, and the book is one which should be worth many times its



Settlers' **One-Way** Excursions

To Manitoba and Canadian Northwest will leave Toronto every TUESDAY during March and April. Passengers travelling WITHOUT LIVE STOCK should take train leaving Toronto at

8100K should take statt teams to the state of the should take train leaving Toronto at 9.00 pm. Colonist Sleepers will be attached to each

Guide" apply to any Can. Pac. agent, or to C. E. McPriERSON

Assistant General Passenger Agent, 1 King St. East, Totonto

cost to every farmer. The price, in paper covers, is 20c., and it will be sent by FARM-ING, postpaid, to any address for that sum. Any subscriber sending in his renewal subscription for one year may obtain a copy of the book by enclosing 10c. additional.

THE FEDERAL LIFE ASSUR ANCE CO.

In another column we publish the 17th annual report of the Federal Life Assurance Co. The statement furnished by the direc tors shows a marked increase in business dur ing the past year. New business for the year represents the enormous sum of \$2,248,850, and covers nearly 1,500 applications for new policies. The increase in income, the additions made to assets, and the satisfactory con-

sound financial standing of the company and the wise and prudent management of its affairs by the directorate. Shareholders and policy-holders alike will be gratified with the report and a large increase in business may be looked for during the coming year.

REMARKABLE RESULTS FROM ONE APPLICATION.

Germantown, Pa., May Sth, 1897. The Lawrence Williams Co., Cleveland, O... Replying to your favor of March 29 h, after awaiting results of the application of "Gom bault's Caustic Balsam," to a bad strain on my trotting horse, Samuel T. (back tendons on hind leg), I am pleased to report the lame-pess entirely gone and the limb as good as bac





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Parties wishing a first class Harrow will do

well to write us direct, or apply to the local

agent.





The flexibility of the Harrow enables it to adapt itself as readily to rough and uneven ground as to smooth, and the oscillating mo-tion produced by its flexibility pulverizes the ground, and leaves it in a loose and more porous condition than an other Harrow, and it is made of the very best material money can buy for the purpose. The bars are made of

HARD SPRING STEEL

very stiff and strong, the biages and teeth be-ing of solid steel, all of which are of a bigher grade than is possible to use in any other make of Harows. We can guarantee more than double the strength and wear in this Harrow than there is in any other make

Our Motto, " Not how Chesp, but how Good." TOLTON BROS., GUELPH, Ont. trouble in securing such remarkable results from one application of your Caustic Balsam. This horse trotted on a half-mile track on Fri-day of last week in 2:20. Thanks for your interest in this case. CHAS. CHIPMAN.

Publishers' Desk.

Seed Grain .- Our readers' attention is called to James Hewer's advertisement in this issue. James Hewer, seedsman, Guelph, makes a specialty of seed grain, and living in Guelph, the home of the Agricultural College, he has every advantage to study which is the most profitable grain for the farmer to grow.

Reliable Seeds.—The special offer made by Messrs. John S. Pearce & Co., of London, Ont., in last week's FARMING should be read by every one. It contains three offers of reliable field, garden and flower seeds, which it will be difficult to duplicate. If any reader of this has not received a copy of FARMING containing this advertisement we shall be pleased to supply him with one.

The Vessot Sub-Soli Lance.-Mr. James II. Peters, of Moosonin, Assa., writes to FARMING, "I have purchased a Vessot sun soil lance through an advertisement I saw in FARMING, and all who have seen it work think it fine. We could tel to the row where it was used." This testimony was given vol-untarily and was comprised in the letter asking questions with regard to poultry taising answered in FARMING of the 28th February It confirms what we had previously heard as to Vessot's sub-soil lance.

Egg Crates .- Many farmers do not suffi-Egg Crates.—Many tarmers do not suffi-ciently appreciate the value of proper facilities for marketing eggs. By the use of a good crate a large percentage of breakages may be saved, and a good business-like looking pack-age is often the means of procuring a cent or two a dozen in excess of the usual prices. The "Humpty-Dumpty" crates made by the Dowswell Manufacturing Co., of Hamilton, Ont., are the best thing we have ever seen of the kind, and should be used by every farmer the kind, and should be used by every farmer in the country.

An Eventful Day .- March 4th was a day of great events for a large number of day of great events for a large number of farmers residing in the neighborhood of Mitchell, Ont., when the whole town turned out to celebrate the delivery of a large con-signment of the machines which "have made America famous" to the purchasers of the Deering Harvester Co.'s implements in that locality. Three carloads of machines were delivered, and there were over one hundred farmers in line during the narade in spite of farmers in line during the parade, in spite of the fact that the roads were in a very bad condition, some of the farmers coming with sleighs and some with wagons. It was the first event of the kind that has ever taken place in the town, and the farmers were very enthusiastic. A large crowd of townspeople and farmers who were no purchasers, but came in to inspec' the machines and participate in the celebration, were also present. A brass band was engaged for the occasion, and rendered a number of selections during the afternoon. After loading the machines, 175 farmers were entertained at dinner. After-wards a procession was formed, which paraded the streets headed by the hand, and paraded the streets needed by the bind, and the proceedings closed with speeches by lead-ing local celebrities and Mr. II. H. Hanna, of London, the general agent of the Deering Harvester Co. Altogether, it was one of the most successful deliveries the company have had in Ontario. The Mitchell *Recorder* re-ports that the duty collected on this consign-ment alone amounted to nearly \$1,000, and that it included to recarly \$1,000, and that it included specimens of nearly all of the various classes of implements manufactured





To introduce Diam-ond Grip Fence in new localities. Don't have to wind wires a-round each other (like old woren fences), as cross wires are gripped and p. cted from wea-ther; ... n never slip or break: 5 times as strong and lasts 10 times as long, as any woren wire coiled spring, plain, twisted or barb wire. Cheapest Fence in end that was ever invented. Agents wanted ; write quick to nu ny mikuluna kaine lienkie Agents v quick to

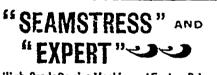
CANADA FENCE CO., London, Ont.

Agents Wanted. SPRAMOTOR CO.

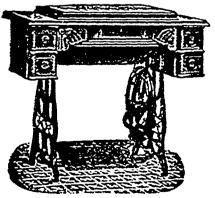
357 Richmond St., - London, Ont.

by the company. The Accorder also states that this is the third year the local agent at Mitchell has handled the Deering machines, and that he has never been applied to for a repair of any kind, and never yet received a complaint from a purchaser.

A Great Commercial Enterprise. -Among the many best and greatest things that North America possesses, certain manufacturing establi-huten's always stand out conspicuou-ly. This is notably true of The Sherwin Williams Company, the home plant of which at Cleveland, Ohio, holds a unique position in the manufacturing world. The Sherwin Williams Company owes its distinc-tion not only to the fact that it is the largest producer of paint in the world, but as well to the system and method of manufacture, the splendid conduct of its factory, and the in-stitutions established for the benefit of employees. Besides the main plant at Cleve-land, The Sherwin-Williams Company have factories at Chicago and Montreal, and their factories at Chicago and Montreal, and their own watchouses and branch offices at New York, Boston, and Toronto, with several auxiliary interests at other trade centres. The Cleveland plant consists of fifteen large buildings conveniently a ranged for ship, ing both by railr ad and water. The company's printing and advertising establishment is in a separate building adjacent to the main plant. Here all the pristing and preparation of ad-vertising and sample cards are carried on. The Sherwin-Williams Company operates its we box factory and cooperage establishment, and makes all its own cars. For the con-venience of employees a dining room and kitchen is provided, where lunches are served to all employees of the company. Special wash-rooms and bath-rooms are also pro-vided, while perhaps the most unusual feature in the establishment is a laundry in which all the company's towels, aprons, table liren, etc., are laundered. The Shriwin-Williams Mutual Benefit Association has been in su-cessful operation for a number of years, paying benefits to the employees who become members in case of sickness, accident, and death. A monthly magazine called "The Chameleon" is printed for circulation among the staff of workers in the manufacturing, the stan of workers in the transactoring, sales and account departments of the com-pany. Besides these there are many other distinctive features of the 'actory system that make The Sherwin-Williams' institution the most model paint plant in existence. Every-thing that promotes cleanliness, health, and neatness is done in the most thorough manner, and the result is a highly sympathetic working between employees and employers.



High-Grade Sewing Machines at Factory Prices Equal to any Machine made in every respect, regardless of name or price



Latest improvements, high arm, long self threading thuttle, auromatic bolbin-winder, steel attachments ALL STVLES. OAK OK WALNUT FINISH. Why spend from \$40 to \$60 on a machine when you can buy as good a machine as ever was nade for half the money? Write for catalogue and prices.

THE BAILEY DONALDSON CO. 1 ST. PETER STREET Department "F."MONTREAL



Read in another column what one man has to say about it without being asked

CTODS.

Circulars on application

S. Vessot & Co., Joliette, Que.

BUY

542

The company always extends a cordial invitation to visiting paint dealers who desire to inspect their factories.

Stock Notes

ATTRNTION is called to the advertisement of Hackney horses for sale on page 550 Any one desirous of obtaining a good animal of this class will do well to write to Box 502, Woodstock, Ont.

MR JOHN BELL, of Amber, Ont., writes, "I am pretty well sold out of Tamworths, having sold Mr. G. B. McGill, of Middleton, N.S., a car load for the purpose of breeding a suitable supply for a large packing concern just started in Annapolis County, Nova Scotia," This is the stock referred to in Mr. Scotia." This is the slock referred to in Mr. J. J. Ferguson's report of the Nova Scotia farmers and dairymen's convention in last week's FARMING. The car load of Tam worths purchased from Mr. Bell will be dis-tributed among the farmers of the Annapolis valley. This sale furnishes another evidence of the value of advertising.

MR. L. ROGERS, of Cooksville, Ont., is rapidly gaining a reputation as a breeder of purebred Yorkshires. During the past few weeks he has made a number of sales and his stock has been inspected by some of the leading breeders in the province. One of the least known breeders of purebred Yorkshires, who has recently visued all the principal herds, says Mr. Rogers' is equal to any of them. At present he has a number of very choice young boars, ranging from six to eight months old, from pedigreed stock, which he would like to dispose of to make room for spring litters. They are from the best prize-winning stock on both sides, the sire being a prize winner at Toronto and the dam having won first for best sow of any breed against strong compemon at one of the last fall fairs. They are a tition at one of the last fail fails. They are a good lot all through, weighing from 200 lbs. to 225 lbs. each. He also has a number of young pigs which will be ready to ship about the end of April. They come from noted prize.winning stock, and should make a good showing for the fall fairs.

MR. J. C. LVONS, of Lucknow, Ont., whose MR. J. C. LYONS, OI Lucknow, Ont., whose advertisement appears in this issue, is particu-larly well equipped for business this season. Mr. Lyons is one of the most successful breeders of purched poultry in Western On-tario, and we shall not be surprised to see him topping the list at no distant date. His pens for the coming egg season are the best he has ever mated up. He writes: "Every pen is headed by a noted prize-winner, and every feheaded by a noted prize-winner, and every female is either a prize-winner or bred from prize-winners. My show record for the season of 1898.9 comprises a list of 300 prizes-195 of them being firsts. I won 1st and 2nd in some classes wherever I showed; hence so many 2nds I have purchased a number of winners since the shows to infuse new blood into my stock. I have not spared either money or time to bring my stock up to such high quality, and I honestly believe that my pens



MAMMOTH WHITE GIANT PROLIFIC YELLOW DENT IMPROVED LEAMING



J. E. Richardson's Selected Seeds

Special Choice List of Vegetable, Field and Flower Seeds These are not cheap seeds, but the best that money can buy WRITE FOR IT CATALOGUE FREE

VEGETABLE SEEDS

Tomnto-Richardson's Cre k ide Glory, 15c. pkt. west Corn-Nendal's Err y Giant, 5c. pkt. Potatoes-Carman, N., 3, \$1,25 per bus. Great Divide, \$1,25 per bus. FIELD SEEDS

Sugar Beet -- Danish Improved, 50c. 10., 5 Ibc. 82.25 Corn (Field)-Mainmoth sight-rowed yellow, \$1.25

Barloy-Success Beardless, \$1.00 per bis., 5 bus. and over, 00c. per bis., 6 bus. Onts-The New Black Meday (all old). Clover and Timothy. Write for prices.

FLOWER SEEDS

Pansles-Richardson's Giant Mixture, 100. pkt. Sweet Peass-Richardson's Princeton Mixture, 5c. Verbenn-Manmoth Strain, 10c. pkt. Marning Glory-Japarese Innerial, 10c. pkt. Carnation-Extra Choice Double, 25c. pkt. Philox Drummondil-Mixed large flowering, 5c. "Splenden's Climson, pure white eye, 10c. pkt.

LAWN GRASS SEED

Richardson's Special Mixture, 18c. per lb.

Address all communications to

J. E. RICHARDSON Seed Merchant and Grower PRINCETON, ONT.

Ewing's Selected Seeds

Are thoroughly reliable, and better cannot be found. We MAIL FREE our

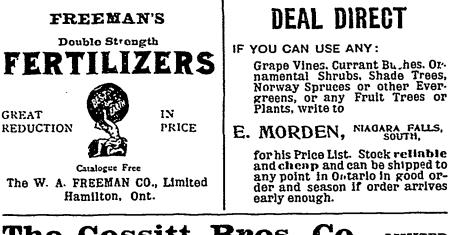
ILLUSTRATED SEED CATALOGUE FOR 1899 TO ALL WHO WILL SEND US THEIR ADDRESS

__PLEASE SEND FOR ONE

O ir Assortment comprises all the best varieties of Gar len, Field and Flower Serds, a well as Clovers, Timothy and other Grasses, Corn and Seed Grain. Spray Pumps, etc. Thomas-Phosphate Powder and other artificial menures. Flowering Plants and Bulbs.

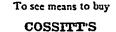
WILLIAM EWING & CO.,

142 McGill Street, MONTREAL:



The Cossitt Bros. Co., LIMITED

A Record of Over 50 Years as Manufacturers of Farm Implements.



All-Steel **Ball-Bearing** Disc Harrow

with Patent Lock Scraper and Clod Cleaner.

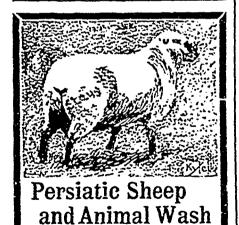
Without a doubt the best Harrow in the market.

Send for catalogue describ-ing our Ball - Bearing Nowors; Tiger and Ithacs. Horse Rakes; Reapers; Harrows; Scuff vrs; Corn Shellors, Root Pulpers, Etc.

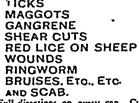
Our Machines will speak for themselves when put in operation. Head Office and Works : BROCKVILLE, ONT.

will produce a large percentage of high class birds this year of the utility breeds as well as those for show purposes.'

MR. A. C. HALLMAN, of New Dundee, Ont., writes: "My herd of Holsteins and Tan worths were never so complete as now. My Holsteins were never better. They are a rich-bred lot and in fine shape. Sales have been good. I sold that grand cow, Lady Alma, to Mr. Rettie, of Norwich. She is a true model of a dairy cow and will do well in his hands, I sold three rich-bred cows to Mr. H. Park, Norwich. They are Princess Medina 2nd, a very rich cow; Belldena 2nd and Lady Griftin, the two latter are very fime induviduals and will do well for Mr Park. Another valuable cow went to Mr. De Mont-Another valuable cow went to Mr. De Mont-morency, of the same place. This is Grace P., a beautiful cow, Pieterje blood and a grand producer. A fine yearling bull went to Mr. Anson Grot, Preston. Another year-In quality and style 1 never had anything better. They will make grand animals. My Tamworths are now nearly reaching the hun-dred, and 1 believe 1 am safe in saying that, in point of breeding and individual excellence, have no equal in America. I am using five very choice imported English prize-winners at the head of my herd. These boars bred to such choice prize-winning sows as I have cannot fail to produce the very best of young stock, and any one who sees the boars and dams will be convinced that their product cannot fail to be of the right sort. I have several hitters from my young boar, Whilasie Crystal, an English Royal prize-winner. They are very choice, good quality and grand bone My champion imported sow, Lady Whilasie 2nd, is doing immense. She is a wonderfully smooth sow. For a fine top and depth of side I never saw her equal She was bred to my choice young imported boar, British King, in point of breeding and individual excellence. side I never saw her equal She was bied to my choice young imported boar, British King, a boar of great length and depth of side and very smooth. She is due to farrow in the middle of March. I have some orders bxoked for her coming litter. Such is the demand for her pigs by those who have seen her. My Barred Rocks are also a fine lot of birds. Have just added a very fine first prize cock-erel, which will put me in shape to send out settings of eggs second to none in this coun-try." try."



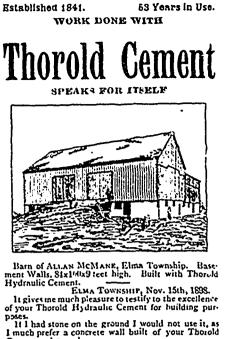
A powerful non-irritant and healing prepara-tion that is proving a boon to farmers all over Canada for sheep and cattle allments, such as: such as: ICKS



AND SUGHS. Full directions on every can. Cures the worst cases. The most effective and econom-ical dip on the market. If your dealer can't supply you, write us direct for it, and if there's anything out of the ordinary in the ailments of your flocks and herds we'll be pleased to give free any additional advice in the matter







of your Thorold Hydraulic Cement for huilding pur-poses. It I had stone on the ground I would not use it, as I much prefer a concrete wall built of your Thorold Cement and gravel. Duing the past summer I erected a barn 84 feet by 100 feet, with basement walls 9 feet high Your Thorold Hydraulic Cement was used in the erection of the said walls. I also put in floors with it for my horses and cattle. It has given splendid satilaction, and I have no hesitation in recommending it to those whorequire to use Cement. My walls and floors are here for inspection, lots 24 and 23, Elma Township 1 strongly recommend your Thorold Cement to all farmers, who intend building barn walls or putting in stable floors. Yours respectfully, ALLAN McMANE. Atwood P.O., Perth Co., Ont.

Our Thorold Cement is the best and cheapest for Silos, Barn Walls, Floors for Horses and Cattle, Fig Pens, etc. Write us for free pamphlet and full par-ticulars.

AGENTS WANTED in unrepresented districts

ESTATE OF JOHN BATTLE

Mention this paper.

THOROLD, ONT.

Important Change 10 Nursery Firm

Owing to the increased demand for Nursery Stock Owing to the increased demand for Nursery Stock the undersigned has decided to enlarge hs business, and for this purpose has taken in an energetic part-ner, and to bominion Nurseries will hereafter be uun by Smith & Reed We propose, as in the past, to offer trees direct to planters at reasonable rates, guaranteeling them to come in good condition and to be just what they are represented. Thanking the farmers for their past liberal patronage we respect-fully solicit a continuance of the same. Send for Catalogue—Free.

SMITH & REED

(Successors to A. M. Smith)

Dominion Nurseries, - St Catharines. Ont

When replying to advertisementsplase mention FARMING

HELDERLEIGH FRUIT FARMS and NURSERIES -400 ACRES



Sixteen years' experience. Everything wanted that is useful and valuable in the Nursery Steek line-ether FRUIT or ORNAMENTALS. SEND FOR CATALOGUE, which is furnished ware to applicants.

Do not make the mistake of buying chesp stock-it is dear as a glit. GOOD RELIABLE SALESMEN WANTED in a number of fine townships, to start work at once. Complete Outfit FREE.



PUREBRED POULTRY FREE.

Boys can make more money raising pure-ed poultry than in any other way. We are bred poultry than in any other way. We are told that one young Canadian has been in receipt of an income of from \$300 to \$500 a year for the past three years from his poultry pens without any interference with his ordinary avocations or his attendance at school. He began at 13 years of age and has now an es-tablished business which will yield him a certain income independently of any other busi-

ness he may take up. We offer the boys who are willing to devote a few hours of their time each week to securang subscriptions for FARMING an opportunity ang subscriptions for FARMING an opportunity to make a start in the poultry busi-ness. There should be no difficulty in securing the nece-sary subscriptions to obtain the prizes desired. Write at once and secure an outfit. Then when it is received select the varieties of poultry which take your fancy and go to work with a deter-mination to get them. If you do this you cannot fail, Your friends and acquaintances will belp you when they know of your deterwill help you when they know of your determination.

These premiums are from the pens of Mr. T. A. Cox, of Brantford, Ont., who won 495 prizes last year at the leading Canadian poultry shows.

PAIRS FROM PRIZE-WIN-NING STRAINS.

For five new yearly subscrip-tions at \$1.each we will send, carriage paid to any railway station in Ontario, a choice of **One pair** from either of the following varieties :

One Pair of Brown Leg-	
horns-regular price	\$5 00
One Pair of B. Langshans	5 00
" " Barred Ply-	
month Rocks	6 00
One Pair of S L. Wyan.	
dottes.	5 00
OnePair of Blk. Minorcas.	5 00
" S. G. Dorkings.	5 00

EGGS FOR HATCHING.

For two new yearly subscrip-tions at St each we will send tree, carriage or express paid, one setting of thirteen eggs from either of the following varieties of pure-bred prize-winning stock; regular price, \$2 per setting: S. G. Dorkings, B. Langshans, S. L. Wyandottes, or

Black Minorcas. To show the profits to be made under procer conditions from purebred poultry it is reported in the *Reliable Poultry Journal* for March, 1899, that Mr. J. W. Shaw, of Brock-ton, Mass., sold during the first week in Feb-ruary, in one shipment, nine birds-five males ruary, in one snipment, nine birds—hive mates and four females—for \$400, and that Mr. A. C. Hawkins, of Lancaster, Mass., had re-ported the sale of eleven Wy and ottes for \$400, five going to one man for \$200 and six to an-other for the same amount. The possibilities are great if you start with the right kind of teach stoci

A Watch Free. - To any boy who will send us three i ew yearly subscriptions at \$1 each we will give one solid mickel, open face, sten wind, up-to-date watch. Carriage and all expenses raid. Hohner's Up to date Cased Mouth Organ.—A fine organ for con-

certs, with nicket shaped covers, twenty holes, brass plates, twenty reeds Each organ in a velvet satin lined case, with clasp. Price, 40c. Sent to any boy free for one new yearly subscription at S1.

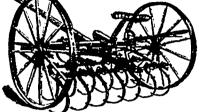
Sample copies and outfits free. Address-

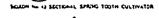
FARMING, 44-46 Richmond St. west, Toronto, Ont.

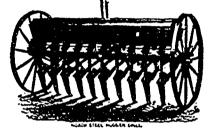
BOWHILL STOCK FARM, ... Teeswater, Ont. FOR SALE

1 SHORTHORN BULL, 14 months old, color red, in fine form and good q uality. Dam English Lady Sth, by Victor G.; Sire Albert Victor (Imp.) G. B. ARMSTRONG, tf Box 3. TEESWATER, ONT.









The Buffalo All-Steel Disc Harrow.

This is the only Disc Harrow made or sold in Can-ada, having independent, adjustable spring pressure upon theinner ends of the gang disc, allowing any amount of pressure to be thrown upon the inner ends of the gangs, by the foot of the operator. By this means a perfectly flexible action is secured and the ground can be worked to a uniform depth. Examine this Machine carefully and compare with others.

The No. 12 Cultivator

IS A MARVEL OF SUCCESS. The only Culti-vator made that both lines of teeth will cut an even depth in the ground. Examine it and you will see why. The only Cultivator with a movable tooth set so that the angle of the teeth can be regulated to suit any condition of soil. Pressure can be regulated to act differently on every section requiring it. The teeth are carried between the wheels instead of trail-ing behind, as in other machines, thus securing lighter draft. This machine is furnished with grain and grass seed box when required. It has reversible diamond steel points for the teeth, also extra widethis le-cutting points can be furnished. Examine it and you will buy no other.

THE BEST DRILL MADE.

The Hoosier Needs No Introduction.

Over 40,000 Drills and Seeders of our manufacture in use in Canada. The only Drill made with lever for instant and perfect regulation of depth of hoe in all kinds of soil, while team is in motion. Sows ab-solutely correct to scale; saves seed, as every kernel is deposited at a proper depth to grow. Purchase only the best and you will be satisfied. We also manufacture Binders, Reapers, Mower Rakes, Cultivators and Pulpers, as good as the best Send for illustrated catalogue.

NOXON BROS. MFG. CO., (Limited)

Ingersoll, Ont., Canada





Patented, Roller Bearings, Steel Stand, Combined Foot and Lever Drive, The Easiest Driven, The Best Finished,

: : : The Most Durable.

BEFORE BUYING SEE IT.

MAXWELL & SONS DAVID ST. MARYS, ONTARIO, CANADA.



Telephone and Post Office

.. HIGHEST TYPE OF BACON HOUS. .

Oak Lodge Herd of Large Yorkshires



WILL REPAIR

ARIT Soile Rubbers Four Failing RATCE ALL will not do impossible things. It will not make a worn out garment new, nor mend one run over by a r lway train, but it will mend all as stated above, and nothing less. Eight patches, 2 inches square, for a cent. If you cannot obtain it from your hardware dealer, send 25 cents and we will mail a can to your address, prepaid. Manufactured by

DOMESTIC SPECIALTY CO.

Bamilton, Ont., Canadz-

Rubber Goods Rubber Cor's Rubber Boots Rubber Overshoes Half Solo Rubbers

Cloth Goods Binder Canyas Grain Bags Mail Bags Your Pants

The Largest Herd of Pure-Bred Yorksbires in America.

This berd has won the best prizes offered for the breed during the last ten years. Only one breed kept, but the choicest of its kind. Three im-ported stock bears and several sows that have all been winners at the largest shows in England, also winners at prominent Canadian and United States shows. Pigs of a i ages for sale. If

J. E. BRETHOUR, Burlord, Ont

The Ontario Agricultural Gazette

The Official Bulletin of the Dominion Cattle, Sheep, and Swine Breeders' Associations, and of the Farmers' Institute System of the Province of Ontario.

THE DOMINION SWINE BREEDERS' ASSOCIATION.

	REEDERS ASSOCIATION.	1110
	bires.	pu
Bonnycastle, F. & Sons, Campbellford	20 head, 4 weeks to 8 months.	•
Cole, T. J Bowina ville	20 head, 4 weeks to 8 months. Boar, 2 years. 2 boars and 5 sows, 6 months; 2 boars, 4 sows,	
Colwill Bros liewcastle	2 boars and 5 sows, 6 months; 2 boars, 4 sows,	
Decker, C. RCh-sterfield Ewing, J. BDauford. Green, GFattview Evans, J. CGrimsthorpe Smith, H. DCompton, Que. Vance, R. Ida Yuitl, J. & SonCarleton Place	25 head, all ages ; young sows.	•
Ewink, J. D Carnord	ou nead, an ages.	
Event 1 C Grimethorne	Charte and 14 cours 3 weeks to 6 months.	rec
Swith, H. D	Spring nice.	
Vance, R	Stock, all ages.	
Yuill, J. & Son Carleton Place	Sows, all ages.	
Poland	Ching	
Jones, W. & H Mt. Elgin		
York	shires.	
Brethour, J. EBurford	35 boars, 6 months; 100 pigs, 2 months.	
Brethour, J. EBurford Cole, T. JBowmanville Colwill BrosNewcastle	Stock, both sexes.	
Colwill Bros	3 sows; boar, 4 months.	
Godard, C. E	Boar. Boar. Young stock. Figs, both seves, 8 weeks; 5 sows, months aged	
Robertson H. P. Beachburg	Flow but sever 8 weeks 5 sows months aged	
Koncision and a second se	sow; boar, 11 month	
Ross, A. W	13 sows, fi and 7 months ; pigs, both sexes, 7 weeks.	
Ross, A. WDouglas Spicer, JYeovil.	20 boars and sows, 1 to 3 months.	
Tamw		
Duchaus I IS Ducfuel	Jacober 10 march 12 ima bases Carry d	
Brethour, J. E	Imp. boyr, 12 months; 3 imp. boars, 6 months. 4 boars, 1 scw, 3 weeks; boar, 6 montas. 4 boars and 3 sows, 6 months; 20 young pigs. 21 boars, 6 weeks to 11 months, 30 sows, 6 weeks to 6 months.	
Nichol I C Hubrey	A boars, 1 New, 3 weeks, boar, 5 montas,	
Simonton I. H Chatham	21 hours 6 weaks to 11 months Strowe 6 weaks to	
	6 months.	
Smith, H. D Compton, Que,	Suring pigs.	
	Jorsoys.	
Fraser, I. O. & SonFellows		
Chester	Whites	
Bird-all, F. & Son Birdsall	Pigs, 8 weeks.	
Godard, C. E Cobourg	3 boars; 2 sows; young pigs, both sexes.	
Bird-all, F. & Son Bird-all Godard, C. ECobourg Gummer, G. AColborne	Young pigs, both sexes; sow; boar.	
THE DOMINION SHEEP	BREEDERS' ASSOCIATION.	PI
	shires.	
Miller D. Stouffuille		
Miller, RStouffville Yuill, J. & SonsCarleton Place	Kwar and awa lambt all ages	
		-
South	downs.	0
Jeffs, E. & Son	1 two-shear rams, 3 shearling rams, shearling ewes.	- SI
Leico	stors.	ing
Jeffs, E & Sons, Bond Head	Stock, all ages	H
-		18
	wolds.	10
Bonnycastle, F. & SonCampbellford		
	yearing rams.	fol
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	BREEDERS' ASSOCIATION.	
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Short Barclay, L	BREEDERS' ASSOCIATION. thorns. Cow; bull, 3 years; 2 bulls, 13 months. 6 bull calves, 2 to 4 months; beifers and heifer calves. 3 young bulls. 4 bulls, 10 to 16 months; young cows and heifers. 2 young bulls; heifers and young cows. Cow, 4 years; bull calf, 4 months; bull, 10 months; bull 8 months + heifer.	mi de Sv
Short Barclay, L	BREEDERS' ASSOCIATION. thorns. Cow; bull, 3 years; 2 bulls, 13 months. 6 bull calves, 2 to 4 months; beifers and heifer calves. 3 young bulls. 4 bulls, 10 to 16 months; young cows and heifers. 2 young bulls; heifers and young cows. Cow, 4 years; bull calf, 4 months; bull, 10 months; bull 8 months + heifer.	mi de Sv D
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NOTICE TO SECRETARIES.

Clause 57, page 15 of the pamphlet known as Rules and Regulations Governing Farmers' Institutes reads as follows:

"On or before the 10th day of January of each year the secretary shall send a revised list of members for the current membership year to the Superintendent, and on or before the 10th day of each succeeding month he shall forward the name and address of each additional person who has since the previous return become a member of the Institute."

Some of the secretaries have not strictly complied with this clause, allowing a long period to elapse between sending in the lists. Names which are received earliest get the reports; names that are received late may perhaps miss getting some of them as an edition is liable to run out.

The following is the average attendance at meetings, reports of which

have been received since the last lipublished :	ist
Norfolk, North 75	
Simcoe, W.st 110	
Victoria, East 92	
The following is a list of memore	:15
received since the last list published	:
Addington I	
Grey, Centre I	
Grey, North	
Dutferin 28	
Durham, West	
Halton	
Haldimand 12	
10 . 110 .	
Parry Sound, East 7	
Peel 15	
Perth, South 61	
Peterboro', West	
Norfolk, North 123	
Northumberland, East 129	
Manitoulin, East	
Muskoka, Centre 10	
Muskoka, South 10	
Simcoe, West	
Victoria, East	
Wellington, West 100	

PLAN TO RAISE THE STANDARD OF CANADIAN-BRED STOCK.

The committee appointed to wait on the Ontario Government and ask for a grant of \$1,000, to be used for the purpose of extending interprovincial trade, met in the Palmer House, Toronto, on Wednesday, March 15th, 1899. The committee was composed of the House, foronto, on wednesday, march again, 1899. The committee was composed of the following gentlemen: D. G. Hanmer, Burfora, President Do-minion Sheep Breeders' Association. A. W. Smith, Maple Lodge, Vice-Presi-dent Dominion Sheep Breeders' Association. Geo. Green, Fairview, President Dominion Swing Breeders' Association.

Swine Breeders' Association. Wm. Jones, Mt. Elgin, Vice-President Dominion Swine Breeders' Association. Authur Johnston, Greenwood, late Presi-dent Dominion Shotthorn Breeders' Associa-

tion; Director Dominion Cattle Breeders'

Association. Richard Gibson, Delaware, Director Do-minion Cattle and Sheep Breeders' Associa-tions; late President Dominion Shorthorn

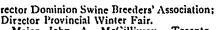
tions; fate President Dominion Shorthorn Breeders' Association. Dr. James Mills, Guelph, President On-tario Agricultural College. John I. Hobson, Guelph, President Do-minion Cattle Breeders' Association; Presi-dent Provincial Winter Fatr Association; Vice-President Dominion Shorthorn Breed-ers' Association ers' Association.

Peter Christie, Manchester, President Canadian Association.

J. D. Howden, Whitby, President South Ontario Agricultural Association. Wm. Smith, Columbus, ex-President Cana-dian Clydesdale Association.

R. Miller, Slouffville, Vice-President Do-minion Shorthorn Breeders' Association ; late President Dominion Sheep Breeders' Associa-Fresident Dominion Sheep breacters association; Director American Shorthorn Breeders' Association.
W. E. Butler, Detcham Centre, Director Dominion Swine Breeders' Association.
Jos. E. Brethour, Burford, sale President Dominion Swine Riceders' Association.

Dominion Swine Biceders' Association; Di-



Major John A. McGillivray, Toronto, Director Dominion Sheep Breeders' Association; Director American Sheep Breeders' Association.

J. W. Wheaton, Toronto, editor "FARM-INC

The following resolution was moved by D. G. Hanmer, seconded by Peter Christie, and carried : That this committee, composed of representative stockmen, are unanimously in favor of the plan outlined at the directors' meetings of the Live Stock Associations to extend interprovincial trade in purebred by extend interprovincial trade in purebred ¹⁰⁰-stock, and consider it most important that, in the interests of the country generally, Gov-ernment assistance should be given in order to energetically pursue the policy laid down. The committee waited on the cabinet at 2.15 p.m., Thursday, March 15th, 1899. The points brought to the notice of the Government were: The general plan as out-lined the growth and present work of the

lined; the growth and present work of the associations; history of the lists of stock for sale and how published; that breeders and importers of purebred live stock have not made money out of their tusiness in propor tion to the benefit the country at large has re-ceived from their work; the desirability of extending the lists of stock for sale.

GENERAL OUTLINE.

It is proposed that the Government set aside \$1,000 to be used by the Live Stock Associations in extending interprovincial trade in purebred live stock. This will be done by publishing monthly a list of stock each member of the Live Stock Associations has for sale, and placing the list in the hands of all farmers and breeders throughout Canada. During the past year considerable work has been done in this direction by the associations with the funds now at their disposal, but with an additional sum much more work can be done which will be of great value to this province.

One of the great detriments to the rank and file of the farmers going into the business of raising purebred stock is that they cannot procure purchasers for their stock at remunerative prices—they cannot get more for them than they can for grades. The reason for this is the smaller breeder has not enough stock to advertise extensively, and, therefore, it is not known that he has thoroughbred stock for sale. The scheme proposed will provide the means by which the smaller breeder can get rid of his stock, neighboring farmers will see that the purebred stock is sold, and will be willing to raise more themselves. This will eventually raise the standard of all stock raised in the country.

It is a fact at the present time in the Montreal market American cattle are worth from treal market American cattle are worth from one cent to one and a half cents more than Canadian cattle. The associations propose to publish the Breeders' Directory, one in the east and one in the west, also to continue the one already published in Ontario. The directory will be published in papers having the largest circulation in the district in which they are nublished. Any member of an assothey are published. Any member of an asso-ciation will have the privilege of advertising monthly all over Canada the stock he has for sale.

GROWTH AND PRESENT WORK OF THR ASSOCIATIONS.

In 1894 the Cattle Breeders' Association was organized. There was, however, prac-tically no monobership. During the year 1895 the association was re-organized, and

1895 the association was re-organized, and during the remainder of that year and in 1896 a membership of 84 was obtained. In 1898 the membership had increased to 99. The Sheep Breeders' Association was or ganized in 1890. The membership at that time was 53 and the receipts \$303. In 1896 the membership was 61 and the receipts \$1,619.13. In 1898 the membership had in-creased to 94. The Swine Breeders' Association was or-

creased to 94. The Swine Breeders' Association was or-ganized in 1891. The membership at that time was 40. In 1896 the membership was 240, and in 1898 369. During the year 1898 the lists of stock for sale were published in Ontario. During the years from 1890 to 1896 special efforts were each year made t



Our entire herd of Shorthorns, consisting of 30 head, comprising such well-known Scotch families as Nonparells, Minas, Jilts, Ceellias, Bossies, and Duchesses of Gloster. Sired by the best imported Cruickshank and Campbell bulls. Among the lot are some very fine show animals, bred from imported stock, as well as cows that are very heavy mikers. The ycung things are a choice lot, sired by such imprived bulls as British Statesman, Comet, Golden Crown and Grand Sweep. In all ten bulls will be offered, also the imported bull, British Statesman, a first class show bull, bred from one of the best milking strains in Scotland. See Catalogue, which will be sent on application. All will be sold without reserve, as Mr. Pearson is giving up farming. is giving up farming.

JOHN SMITH, M.P.P. Auctioneer, Brampton. S. J. PEARSON & SON, Meadowvale, Ont,

TORONTO, ONT.

BINDER TWINE

PURE MANILA, 650 FT. TO LB. SPECIAL MANILLA, TIGER, STANDARD.

Farmers | Don't be taken in. There is none "just as good." These twines will not bunch at the knotter, and a Binder will run all day without stoppage, thus saving time, annoyance and a "lot o' cussin'."

We pack our twine in bags of the size of ordinary grain bags, and we are not ashamed to put our name upon it. Don't take any other.



induce breeders to join the association. During 1895 absolutely nothing was done to increase the membership, and members took advantage of advertising their stock in the lists published by the associations.

HISTORY OF THE LISTS OF STOCK FOR SALE.

In the secretary's annual report of March, In the secretary's annual report of March, 1897, the following was a clause: "It has been the practice of each association to pub-lish in 'he annual report each year the name and address of each member, and specify the breed he reared. This has grown to be the largest Breeders' Directory in Canada, Dur-ing the last three ways of how how a new parts ing the last three years I have been very fre-quently asked for these lists by parties desir-ing to buy purebred stock, and have mailed hundreds of copies, sending them to various parts of Canada and the United States. I believe that if these lists of breeders could be revised and distributed monthly, it would Le of great value." It was decided at the annual meeting to place the matter in the hands of the Executive. At a meeting of the Ex-cutive in June of the same year the matter was brought up, and was strongly opposed by some on the grounds that the funds belonging to the associations should not be used for this purpose. It was decided after a fair dis-cussion that the associations were organized for the benefit of the live stock trade, and that the officers were fully entitled to formulate and carry into effect any plan considered by the association to be for the benefit of the country at large, but in order that there would be no ground whatever for taking objection, it was decided that the amount spent should not exceed the membership fees of the various not exceed the membership fees of the various associations. As there was still considerable opposition it was decided to again place the matter before the Executive Committee of the Live Stock Associations. This was done in the association tent at Toronto Industrial Exhibition in the fall of 1897, when the de-cision of the former meeting was sustained, and the secretary was instructed to make the best tetrus possible regarding the publication best terms possible regarding the publication. This was done, and the first list of stock for sale was published in FARMING on October 12th, 1897. Since that time the list has appeared monthly.

In addition, notices of meetings, notices regarding the Fat Stock Show, and reports of meetings were published, and it was chiefly through the notices regarding the association cars of stock for the West that the cars were made precible. It is humans of this list of cars of stock for the West that the cars were made possible. It is by means of this list of stock that the secretary is able to locate stock when requested to do so by intending pur-chasers, and it is the persons who are there advertised who have the first opportunity to sell, and who will sell if their stock is suited to the requirements of the purchaser. During the past year the secretary has received more conviries than ever before as to where certain enquiries than ever before as to where certain breeds of stock can be found, and his only guide is the list of stock for sale. Towards the end of last year stock through-

out the Province was very scarce, and the inter provincial trade was very large. Should not the Gazette, which is being received by breeders throughout Canada, be entitled to a fair share of the credit? It is impossible to make any accurate statement as to the work done by the Gazette in making sales, but the opinion of the large number of prominent live stockmen who have sent unsolicited testi-monials is evidence as to the work being done through this medium. I will quote only

one: "Your advectisement of stock for sale in the Gazette is a very happy one, and must be useful to buyers.

(Signed) SYDNEY FISHER, Minister of Agriculture."

THE WORK DONE BY BREEDERS AND IM-PORTERS OF GREAT VALUE TO THE COUNTRY.

The importers and breeders of live stock in Canada have added millions of dollars to the revenue of this country, and the results of their labors will continue to bear fruit for failed to grow wealthy, and in some cases even to make a good living. That being the case, all parties interested in our progress

THE FEDERAL LIFE ASSURANCE COMPANY.

SEVENTEENTH ANNUAL STATEMENT.

DIRECTORS' REPORT.

The seventeenth unnual meeting of the Shareholders of The Federal Life Assurance Company of Canada was held at the Head Company of Canada was held at the flead Office, in Hamilton, on Tuesday, the 7th inst. In the absence of the President, Mr. Beatty, Mr. William Kerns, First Vice-Presi-dent, occupied the chair, and Mr. David Dexter acted as Secretary. The following report and financial statement was submitted by the Directors :

The Directors have pleasure in submitting for the Directors have pleasure in submitting for the information and approval of the Share-bolders, the following report of the business of the Company, together with a statement of Receipts and Disbursements for the year which closed on 31st December, 1898, and of the Assets and Liabilities on that date. New business consisted of fourteen hundred

and fifty-nine applications for insurance, aggregating \$2,248,850, of which thirteen hundred and eighty-one applications for \$2,114,232 were accepted, applications for \$134,000 having been rejected or held for further information.

Annuity premiums to the amount of \$12,-731-50 were also received.

In the past year, as in the preceding year, fully ninety per cent. of the new business written by this Company was on its invest-ment plans. This, and the fact that the ad-vent of three additional and well equipped competitors in the field within the past two years has not diminished the share of new business which this Company has been able to secure, indicates the continued growth of feeling in favour of investment insurance rather than towards other forms of investment on which interest carnings are depreciating steadily.

The income of the Company shows a gratifying increase over previous years, and the addition of \$143,835.14 to the assets is espe-cially noticeable, the total assets having risen to \$866,283.41, exclusive of guarantee capital.

tal. The security of the policy-holders, includ-ing guarantee capital, amounted to \$1,475,-253,41, and the liabilities for reserves and all outstanding claims, \$757,399.20—showing a surplus of \$717,884.21. Exclusive of uncalled guarantee capital, the surplus to policy-hold-ers was \$103,884.21. Assurances for \$114,575 on fifty-seven lives became claims through death, of which amount the Company was re-insured for \$7,-ooo. Including cash dividends and dividends applied to the reduction of premiums (\$30,-\$78,32) with matured endowments for \$4,600, the total payments to policy-holders amounted the total payments to policy-holders amounted to \$143,702,25, In accordance with instructions received from the shareholders at the last annual meet-

from the snareholders at the tast annual meet-ing your Directors applied for and obtained from the Parliament of Canada a special act of incorporation changing the name of the Company to the Federal Life Assurance Com-pany of Canada, and granting enlarged powers for business and investment in and out of Canada Canada.

The investments of the Company have been carefully looked after and have yielded for years past the best results reported by any Company doing business in this country. Ex-penses have been kept within reasonable limits while due effort is being made for new business. The chief officers and agents of the Company are entitled to much credit for their able representation of the Company's interest. The office staff have also proved faithful in the Company's service.

The accompany's service. The accompanying certificate from the Au-ditors vouches for the correctness of the statements submitted herewith. All accounts, recurities and vouchers having been examined by them.

FINANCIAL STATEMENT.

INCOME.

Premiums, interest and rents......\$ 410,831 73

DISBURSEMENTS.

Paid policy-holders for death claims, erdowments, dividends, etc..... General expenses, re-insurance i dividends on capital..... 143,702 25

127,548 09 ASSETS.

LIABILITIES,

Reserve fund.	757,399 20
Surplus to policy-helders.	717,884 21
Surplus to policy-helders. Insurance written and taken during the year	2 021,585 00 11,125,566 43

JAMES H. BEATTY, President.

DAVID DEXTER, Managing Director.

AUDITORS' REPORT.

To the President and Directors of the Federal Life Assurance Company :

Gentlemen, -- We have made a careful audit of the books of your Company for the year ending 31st December, 1898, and have certi-fied their correctness.

The securities have been inspected and compared with the ledger accounts and found

to agree therewith. The financial position of your Company, 68 on 31st December, is indicated by the accompanying statement. Respectfully submitted, H. S. STEPHENS,

SHERMAN E. TOWNSEND,

Auditors.

Hamilton, March 1st, 1899.

In moving the adoption of the Directors' Report, Mr. Kerns referred to the steady and substantial growth of the Company's business ; the large increase from year to year in its in-come, assets and surplus. He stated that while the expenditure had been decreased 6.56 per cent. in the last year, the assets of the Company had increased 19.90 per cent. the net surplus 37.92 per cent. and the reserve funds 21.41 per cent., the capital and assets having now reached \$1,475,283.41. He quoted from the December number of

the Economist to show that the Company had the *Economist* to show that the Company had so carefully managed the investment of funds as to earn a better rate of interest in each of the past eight years than the average rate earned by all of the Canadian life assurance companies. The rate carned by the Federal in 1897—the last year in which the average can be obtained from the report of the Super-intendent of Insurance—was 5.64 per cent., and the average rate earned by all the Cana-dian companies 4.48 per cent.

and the average rate earned by all the Cana-dian companies 4,45 per cent. After the adoption of the Directors' report an interesting report of the mortality experi-ence of the Company and of the history of medical examinations for life insurance was read by the Medical Director, Dr. Wolver-ton ton.

Congratulatory remarks regarding the sub-stantial progress of the Company and regard-ing the management were made by several of the share-holders.

A vote of thanks to the officers, agents and office staff was responded to by Mr. David

Dexter, the Managing Director. The retiring Directors of the Company were re-elected, with the addition of T. H. Mac-pherson, E q., M.P. The Auditors were reappointed.

and national growth should do all in their power to assist the men who are doing so much for the country. It may be argued that breeders of purchared live stock are in the business for the money they make out of it. If we were to say this is not true the country would laugh at us, but we maintain it is not true. A successful breeder is born, not made. A man cannot buy a few head of purebred stock and produce good animals that will be benefit to his country unless he has had a life-long training and an inborn love for the work. The great reason why the rank and tile of our cattle have become worse during the last few years is because the great breeders of live stock have not found their calling remunerative. Some means should be adopted to overcome the difficulty. It is a most valuable industry to the country and should be among them are many of the brightest and best men in Canada. The associations have done much in reduc-

ing the railroad rates, but a great deal can be done in extending the inter provinc al trade by taking up the lists of stock for sale and publishing them breadcast throughout the land. By this means Canada will be more widely and better known as a producer of purebred live stock ; breeders, by making ex-tensive sales, will be encouraged to import from England and improve the stock here. Thus will not only the most extensive breeders profit by the scheme, but the man who owns one or two animals will be bene-fited in a marked degree. The help asked is certainly due and should be cheerfully given.

BOOKS AND BULLETINS RECEIVED.

- Eleventh annual report of the State Board of Agriculture, Kansas, containing a full report of the work for 1867 9S.
- American Shorthorn Herdbook, Vol. XLII., containing pedigrees of animals calved he-fore February 181, 1898. J. H. Pickrell, secretary, Springfield, Ill.
- Holstein-Friesian Herdbook, Vol. III., published by the II observation for the second of Canada. G. W. Clemons, St. George, Ont., secretary and editor. It contains a record of all Holstein Friesian cattle in Canada.
- Report of the Secretary of Agriculture at Washington for 1898, including reports of the heads of the various departments of the service.
- Annual report of the Pennsylvania Department of Agriculture for 1897, part I.
- Annual report of the Agricultural Experiment Station, Wisconsin, for 1898.
- The Journal of the Royal Agricultural Society of England, third series, volume the ninth part IV., for the quarter ending December 31st, 1898.
- Special Bulletin on Fruit Pulp, issued by the Ontario Department of Agriculture. It contains valuable information on this sub-Copies may be had on application to iect. the Department of Agriculture, Toronto.

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A choice preperty in the Village of Lakefield, con sisting of a bis k house, lawn, gardens, orchard and fields. Suitable for a

Poultry Farm, Market Garden or Gentleman's Residence

Ten minutes' walk from Post Office and G.I.R. Station, Good boaving and fishing. \$2,500.00. Apply to

E. ROLLESTON TATE Lakefield, Ont. d3-21)

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Agents Wanted. Ontario Binder Twine Co., 124 Front St. West. Toronto, Ont.

BELLEVILLE POULTRY YARDS. Eggs, \$1 per setting of 13, from Barred of White Plymouth Rocks, Single or Rose Comb White Leghons, Rose Comb Brown Leghorns Black Minorcas. MALCOLM DULMAGR. Belleville, Ont. [17]

RED CAPS-Prize Wilne's at loronto Industrial and Hamilton Poultry Shows. A few cockerels left yet. Eggs, \$1.25 for 15. ERLAND LKE, Stoney Crathons Information Information Information left yet. E Creek. Ont

BUFF LEGH RNS-Buff Rocks. Winners Petro lea, Owen Sound, Galt. Bra ford-hot compe-tition, tegs \$1.59 atd \$2.00 ter 15 Fine of cherel-chenp. Write sure. Phomas II. Mills, Box 277, chenp. Writ Sarnia, Out.

W. R. VANDERVOORT, Sidney Crossing, O-t W. Eggs for have ing from pure-bred Harted Plymouth Korks, Buil Colinas, Black Minorcas and S. W. White Legborns, at \$1 per 13, also Pekin Duck (ges at \$1 per 11 [d1-25]

JAS. Mc CORMACK & SONS, Rockton, Unt. A J large number of Barred Rocks and Black Spanish Fowls, Fine loulouse Geese and Cayinga Ducks for Sile d-3-21

G BENNELL& PARDO, Charing Cross, Ont. Eggs Gi from the following B Langsbans, P. Cochins, Barred and White P Rocks, S G Dorkings, S L. Wyandottes, Br Leghores, Cornish, Black, Red and Pit Games, \$1. per 13, Pekin, Rouen and Aylesbury Ducks \$1 per 9 d-3 21

SUNNYSIDE POULTRY YARDS

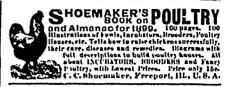
SUNNYSIDE POULTRY YARDS
I have for sale the foll wing varieties of the richest strains of blood that can be produced, winning 495
Prizes at the following shows: Toronto Industrial, Provincial, Quebec, Gait, Drianto, Calt, Brant-ford and Harmiton
Choice SG and W Wyandortes, Light Brahmas, Black Langshans, Black Javas, Black Minorcas, Cornish I dian Games, B B R. Games, S. G. Dorkings, Brown S C Leghorns: Barred, W and Foff Plymouth Rocks, W. C rolisb, Andalu-sians, Hon ans, B B. R. Game and Pyle Bantams, M B. Turkeys,
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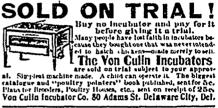
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EGGS FOR HATCHING

Barred Plymouth Rocks, Silver Wyandottes and S. C. W. Leghorns at \$1 00 per 13. Also Pekin and Rouen duck eggs at \$1.10 per 11. Four settings of any one or all varietie. for \$3 00 Orders booked now Satis-faction guaranteed All hens are selected with a view to large egg production as well as quality.

W. R. GRAHAM, Belleville, Ont.

THE IMPROVED

Safety Incubator

Is guaranteed to give satisfaction to all or money refunded. Absolutely self regulating. Supplies its own m isture. Will cut hatch all others. No cus, toms duty to pay on it.

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WE heartily thank you for the liberal and increased patronage which has made the past year a recordbreaker in our business. Remember, we do not class our

Queenston Cement

with the Water-Limes nd Hydraulic Cements now on the market, but guarantee it equal to the Imported or Domestic Portlands for all farm structures, such as Basement Walls for Stables, House or Cellar Walls, Cisterns, Hog Pens, Poultry Houses, and for all kinds of Stabling.

Kindly investigate our System of Ventilation. This system is fully covered by letters patent, but to our patrons we make no charge.

Write for our New Pamphlet for 1899, containing valuable information, prices, etc.

Isaac Usher & Son, Queenston, Ont.



MARKET REVIEW AND FORECAST.

Offic of FARMING,

ond street west, ito, Mar. 20th, 1899. 44 and 46 F

General trade concrementative. The specu-lative element which since the beginning of the year has been operating pretty freely, especially in the stock market, has withdrawn somewhat, and business is being conducted on a more legitimate basis. One of the exciting features of the week in general trade is the excitement in the tea market. Cash pay men's show large increases over those of last year at this time.

Wheat.

Weaker and weaker seems to grow the wheat market, and if 'he declines of the past two weeks continue much longer at Chicago and elsewhere prices will soon be below the eost of production. The *Trade Bulletiu's* special Lond. n cable of March 16 gives some idea of how European markets are at the present time. It rea's thus:

'The market continues dull at all ports, and with liberal imports, especially from the United States, prices have an easier tendency, and still lower prices are expected. A small eargo of No. 1 Manitoba hard has just sold at 293. c.i.f. April shipment."

During the week Chicago market sunk to mearly the bottom price of the season. The coming crop situation continues favorable. Though in the more northern parts of this continent the danger is by no means over yet, and a great deal will depend upon the nature of the weather from this out. The U.S. Department of Agriculture's estimated report wheat in farmers' hands in the United States on March 1st has weakened values some, though not as much as was to be ex-pected under the circumstances. The estimated amount in farmers' hands in the United States on that date is given as 29.3 per cent. of last year's crop, or 198,000,000 bushels. There is probably a larger percentage of last year's crop in the hands of Canadian farmers than this. These facts, together with the fact that there is only about four months till the new harvest is on, are causing the present depression.

The prices in Canada have not dropped as low as one would expect from the conditions elsewhere. There is very little wheat offer-ing on the market, and there appears to be very little demand for export. Red and white is quoted at 67c, north and west, with sales reported at 64c, for export. Goose is quoted at 67c, north and west; No. I Manitoba hard at 80c., Toronto, and No. I Northern at 76¹/₂c. On the local market red and white fetch from 70 to 701/2c., spring fife 71c., and goose 66c. per bushel.

Oats and Barley

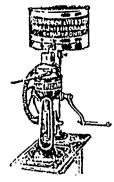
The English oat markets have ruled quiet, and stocks are liberal. In the United States there is estimated to be 38.7 per cent. of last season's crop in farmers' hands, as compared with 38.9 per cent. at this time last year. Though receipts have been large at Montreal, prices have not dropped any, and are quoted at 33 to 33 c. in store. Oats are quoted here at 30 to 30 c. for white east, and 29 to 30c. west. On the local market they bring from 35 to 36c. per bushel. The Montreal barley market is quiet at 54

to 56c. for No. 1 malting. It is quoted here at 46 to 47c. west.

Peas and Corn.

The London, England, market for peas is reported firm with a good enquiry. The Montreal market is steady at 72 to 73c. The market here keeps firm at 65 to 66c. north and west. They are worth from 60 to 62c. en the local market here.

The estimated amount of corn in farmers' hands in the United States on March 1st was Al.6 per cent. of last season's crop as com-pared with 41.1 per cent. a year ago. No. 2 American is quoted at Montreal at 43 to 44c. a car lots. American is quoted here at 41 14 43c. on track.



To be Simple is to be Great-Emerson.

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Is considered such a great machine.

No simpler machine can exist and the result of the work is wonderful. Gasoline Engines for all purposes. Write us for full particulars and Catalogues.

Richardson & Webster,

ST. MARYS, ONTARIO

Bran and Shorts

Bran continues scarce and high at Mon-treal, where it is worth \$15.50 in car lots. Shorts are quoted at \$1650 to \$17, and are also scarce. City mills here sell bran at \$1450 and shorts at \$1650 f.o.b. Toronto in car luts.

Clover and Timothy Seeds.

The Montreal market is steady with more business doing. Ontario timothy is quoted there at \$1.60 to \$1.75, and American at \$1.25 to \$1.50; red clover at \$3.75 to \$4.50; \$1.35 to \$1.50; red clover at \$3.75 to \$4.50; Alsike, \$3.50 to \$4.50; mammoch clover, \$4.25 to \$4.75, and flax seed \$1.20 to \$1.25 per bushel. On the local market here red clover selis for \$3 30 to \$3.70; white, \$5 to \$8; Alsike, \$3 to \$4.20, and timothy, \$1.20 to \$1.35 per bushel.

Eggs and Poultry.

The English egg market is weak and lower with a good demand at the decline. On this side the egg market has taken a decided slump, and prices for new laid at Montreal in large lots are about 12c., while at O. tario points 10 and 11c. is the most that is being paid for shipment. The market here is about steady at from 12½ to 13c. for strictly new laid in large lots. On the local market new laid fetch from 13 to 14c. per dozen.

The demand for dressed poultry is falling off at Montreal, where it is difficult to get 10c. per lb. for turkeys, and other fowls in propor-tion. Prices here are about the same as last week.

Potatoes.

Considerable quantities are being shipped from Quebec and the East to Toronto and other points. This has caused a firmer tone at Montreal, where potatoes are quoted at 55 to 58c. per bag. The market here is firm at 68 to 70c. per bag for cars on track and 75 to Soc. out of store and on the local mar-ket.

Fruit.

Apples continue firm at Montreal, where There is reported to be a good market for Canadian dried apples in Germany. Apples bring from \$2.50 to \$3.55 per barrel on the local market here local market here.

Hay and Straw.

Very little hay is going forward just now on export account, owing to the blockade at the seaboard. The Montreal market is quiet, where baled hay is quoted at \$5,50 to \$5,75 for bales. We are the to the form of the second where baled may is quoted at \$5.50 to \$5.75 for choice No. 2, \$4 50 to \$4.75 for ordinary No. 2, and \$3.50 to \$4.25 for clover. Hay is selling at country points in Quebec at \$3.30 to \$4 per ton f.o.b. Prices here are \$7 to \$7.50 for cars on track, and \$4 50 to \$5 for baled straw. On the local market timothy brings \$8 to \$9.50; clover, \$6 to \$7; sheaf straw, \$6 to \$7; and loose straw, \$4 to \$5 per ton. per ton.

Cheete

The cheese situation just now is a particularly strong one. There is a decidedly strong

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market in England and prices seem to be steadily moving upward. Most of the low-piced goods have been cleared off, and the demand is now for the better quality of cheese. demand is now for the better quality of cheese. Both at London and Liverp lol cheese was selling at 52s. to 53s. during the week, and in some cases 54s, was asked. The market on this side continues to gain strength, and rul-ing prices are now 10 $\frac{1}{2}$ c. to 10 $\frac{1}{2}$ c, with fin-est Westerns worth 10 $\frac{1}{2}$ c. The bulk of the holdings at Montreal are disposed of. It is reported that some fodder cheese is being made in the Ingersoll district. The present high prices and the likelihood of a good open-ing may induce many factories to make fodder high prices and the incennood of a good open-ing may induce many factories to make fodder cheese. It would be as well for the trade, however, if no fodders were made at all. The shipments from Montreal from May 1st, 1898, to date show a shortage of 255,250 boxes, as compared with the last export season, and the combined shortage of Canada and the United States amounts to 554.326 boxes, the largest deficit in the history of the trade.

Butter.

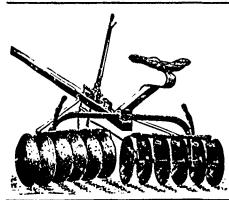
While the English cheese market is strong while the Logissh cheese market is strong the butter market there has ruled dull. The *Trade Bulletin's* special London cable of March 16th reads thus: "The market has ruled dull all week but with comparatively light stocks, holders are not forcing things. Finest Canadian creamery 96 to 98s with an occasional parcel bringing 100:," The Mon-treal market keeps firm for fresh made choice treal market keeps tirm for fresh made choice creamery at 20½ to 21c.; good to fine, 19½ to 20c. and fair 18½ to 19c. The bulk of it is being sold for local trade, though a few lots of creamery are going forward. Western dairy is quoted at from 13½ to 16c. and is in good demand. The total increase in shipments

demand. The total increase in shipments from Montreal and New York from May 1st, 1898, to date is 43 005 packages as compared with the same period a year ago. The market here is steady with creamery bringing 20 to 22c. for prints and 19 to 20c. for tubs. There is a good demand for all choice offerings of dairy butter which brings 14 to 16c. for large rolls. On the local mar-ket pound rolls bring from 18 to 20c. and large rolls from 15 to 17c. per lb.

Cattle.

The British market for cattle has not been altogether satisfactory of late for shippers, many of them losing money. The butchers' boycott seems to have something to do with it. The American markets have been fairly sleady, though large receipts have weakened prices in some places. Really prime cattle for export seem to be scarce all over this confor export seem to be scarce all over this con-tinent. There have been very large receipts on this market. On Friday we had the largest market for sometime past. The quality of the fat cattle offered was better than for several weeks back, but still it would pay farmers to keep them longer. On ac-count of the heavy run prices, especially for exporters, took a drop of 10c. to 20c. per exporters, took a drop of 10c. to 20c. per

cwt. Generally speaking trade was fair. Export Cattle.—Choice loads of heavy ex-porters sold for \$4.75 to \$4.90, and light ex-porters at \$4.60 to \$4.75 per cwt. A few choice lots brought \$5 per cwt., but these were few in number.



A Disk Harrow Given Free to any FARMER who intends buying this spring, if he will first, by actual field work, find any other Cultivator, Disk Harrow, or Pulverizer that will do AS MUCH WORK with AS LITTLE HORSE POWER as

THE "BISSELL" DISK HARROW

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DEERING HARVESTER CO.

Make Your Own Butter

a 3 21

Butchers' Cattle.-Choice picked loss of butchers' cattle, equal in quality to the best exporters' hur not so heavy, sold at \$4 35 to \$4.50 per cwt. Good butchers' cattle bring from \$4.20 to \$4.30, and medium from \$3.70

from \$4.20 to \$4.30, and medium from \$3.70 to \$3.05 per cwt. Stockers and Fieders — Buff do stockers were in good demand on Friday, s lling all the way from \$3.40 to \$3.75, with choice picked lots at 10 to 15c, per cwt. Stock heifers weigh-ing 600 lb, each bring from \$2.75 to \$3 per cwt, and light stock bulls from \$3 to \$3.25 or cwt. Heavy fride \$20 cord and \$10 to \$3.25 per cwt. Heavy feeders are caree and bring from \$4 to \$4 25 per cwt. Calves. — These bring from \$2 to \$10 each

for the bulk, while choice yeals bring \$5 per cwt.

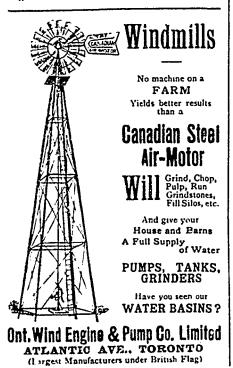
Mikh Cows and Springers. The demand for these is good and they ring from \$25 to \$45 each, with some choice ones feiching as high as \$50

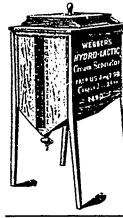
Sheep and Lambs

The Unicago and Battalo markers, though supplies continue large, have been active with a good demand. On Friday the Buffalo mar-ket was to to 15c, per cwt, higher. About 300 sheep and lambs were effered here on Friday. Ewes sold for \$3 to \$5 50, and buck-\$2 50 to \$2.55 per cwt. The deliveries of yearling lambs were light with prove firmer at \$4 50 to \$4 6, and god hery cwis and wethers fetching \$5 per cwt.

Hogs.

Hogs. About 1500 were offered on Friday. Choice selections weighing from 160 to 200 lbs, each; unfed and unwatered sell for \$4.50; light hogs for \$4 12], and thick fats from \$3.75 to \$3.87½ per cwt. There is a good demand at Montreal from the packers, who are paying as high as \$4 75 for nice light bacon hogs, and quotations there are \$4 50 to \$4 75 as to quality. The Trade Buildenn's cable of March 16th reads: "Then arket for Canadian bacon is quiet but steady, consider ing the liberal receipts from Canada."





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