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FARMING

February 28th, 1899.

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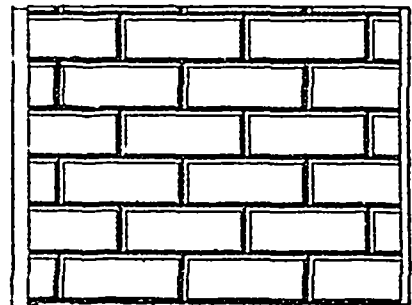
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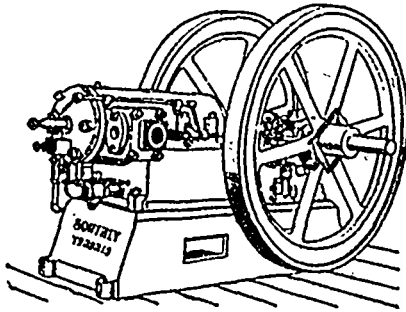
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Winners of the Herd Prize at both the Toronto and London Fairs last fall, also some thirty other prizes. The herd comprises fourteen head of imported cattle, many of them winners of valuable prizes on the Island; also some thirty animals carefully selected from the best Canadian herds. Heifer and Bull Calves, also good Cows, always on sale.

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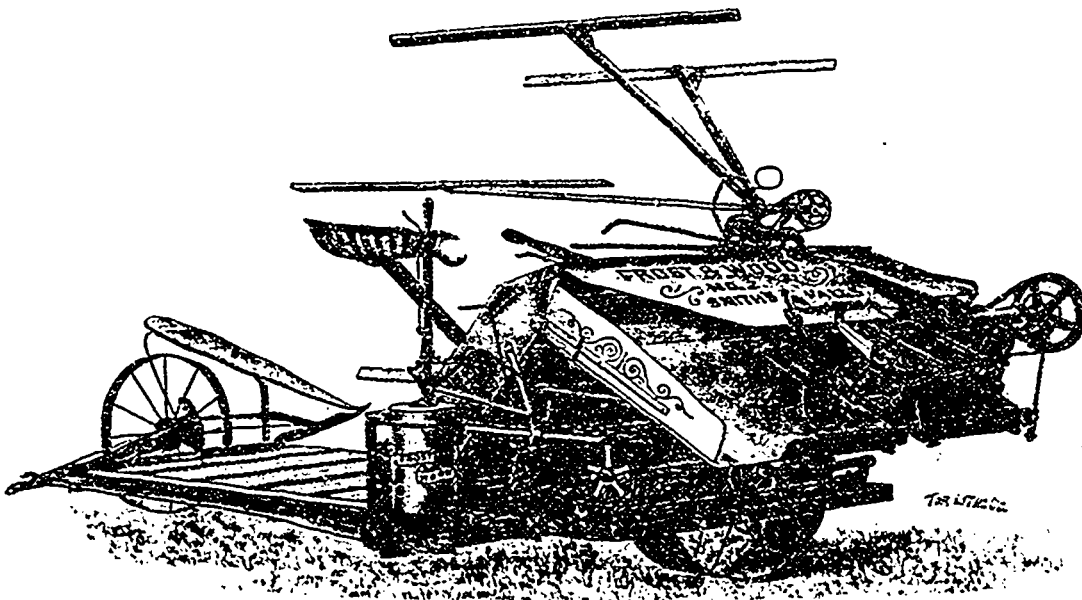
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FARMING

VOL. XVI.

FEBRUARY 28th, 1899

No 26

Expressions of Approval

The following expressions of appreciation were received on Feb 20 and nearly every mail brings us similar letters from old subscribers and practical farmers whose opinions carry weight in their own districts where they take precedence in everything calculated to advance the interests of agriculture.

MR. JOHN HUNTER, of Wyoming, Ont., who is known as one of the most successful farmers in Western Ontario, says: "I would not be without FARMING if it were \$2 00 per year. It would be much better for stockmen if more of them read it."

MR. J. W. JOHNSTON, of Maple Grove Farm, Underwood, Ont., another successful farmer and breeder says: "Enclosed find my subscription for your valuable paper to the end of 1899. I find the market reports so valuable, I always look for FARMING every week to see how the markets are standing. As I deal in the swine business I have taken great interest in the articles upon the growing, breeding and feeding of swine as discussed in your paper."

WM. J. THOMPSON, of Bronte, Ont., who is known very widely as a practical writer on farm topics, says: "I have received many times the value of my subscription to FARMING from the practical ideas published and think it is a most up-to-date journal."

Agricultural News and Comments

There is on record the statement that a cross-bred mare in Scotland was breeding at the advanced age of thirty-two years. She had given birth to twenty foals in twenty consecutive years.

Ill-fed ewes will not bring strong lambs. The winter is a trying time for the ewes unless they are well fed and sheltered. There is no other grain feed so good for ewes as bran, with a small allowance of oil-meal mixed with it.

A French scientist has been experimenting with hatching double-yolked eggs. His conclusions show that it is not always the double-yolked egg which produced twin chickens. In fact, his test shows that more frequently than not the very opposite is the case.

The English Jersey Cattle Society, in order to encourage the feeding of cows to produce butter of good quality, has resolved to give, during the present year, a prize of £1 for the butter of the best quality yielded by a Jersey cow, competing in any of the society's butter tests, that wins a medal, prize, or certificate of merit.

In 1898 Great Britain's exports amounted to £176,594,207, while the imports of foods for the same year amounted to £204,308,951, and other imports of manufactured goods to £87,119,504. Every year her imports of food products increase. The imports of foods for 1898 show an increase of £14,687,277, as compared with those for 1897.

The French Government has recently purchased 154 stallions of practically purebred coaching blood. These animals are to be used for getting harness horses, and the lowest price paid was £225, whilst as much as £500 was paid for the best of the sires. From this it is very evident that the French people have every confidence in the future of the horse trade.

Satisfactory arrangements have been made between the Canadian Horse Breeders' Association and the Toronto Country and Hunt Club for the holding of a horse show in Toronto this spring. The dates on which the show will be held are April 13th, 14th and 15th. While the military this year are not participating it will not be devoid of the important military features which have in the case of past shows attracted so much attention.

Dairy Commissioner MacDonald, of Manitoba, has recently returned from a trip to British Columbia. He points out that there will always be a large market there for Manitoba products. The local dairymen and farmers are now getting 50 cents per lb. for butter, 50 and 60 cents per dozen for eggs, and \$1.25 per gallon for milk. At present the half of the dairy products used are brought in from the United States, and the duty paid thereon, or from Ontario.

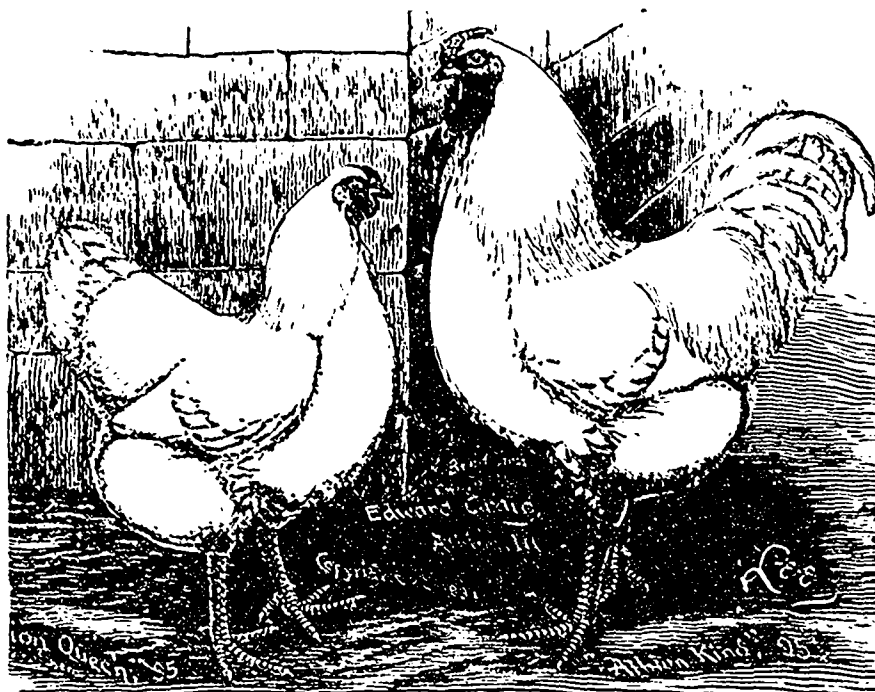
Alfalfa is becoming more valuable in the Western States as a forage and fodder where other clovers do not thrive well. One writer states that he has seen \$300 worth of pork products sold from six acres of alfalfa without producing any very serious effects on the crop. From experiments conducted by the Kansas Experiment Station, alfalfa hay is worth \$17 per ton when fed with Kafir corn to fattening hogs.

It is a popular belief that black teeth in pigs are the cause of disease; but the fact is, they are the result of disease and not the cause of it. Indigestion and a sour stomach are the cause of this discoloration of the teeth. When this is the case a change of food is recommended. Two tablespoonfuls of raw linseed oil to each pig is also recommended, and also a bran mash not too sloppy, and with each food one level tablespoonful of carbonate of magnesia.

It is a common belief that sheep do not need any drink. Nothing could be more mistaken or injurious to the sheep. They need it quite as much as any other animal, even when on good, fresh pasture. A flock in a green meadow bordering on a large pond has been observed to follow a leader to the water daily at a regular hour, and drink their fill. It is a good plan to make a salt lick at the watering place, and they will not neglect the opportunity of supplying their wants with regularity.

Horse Breeding

Of late years horse breeding in Canada has not been given as much care and attention by the average farmer as the breeding of other kinds of live stock. One reason for this, no doubt, is the dulness which has been characteristic of the horse market until within the past year or two. The introduction of electricity and its coming into general use as a motive power for street railways, etc., caused a falling off in the demand for horses suitable for this work. While, at the same time, the great business depression in the United States, which began about the same period, further increased these adverse conditions of the horse market. All this had its effect upon the market for other classes of horses, such as heavy drafts, carriage and saddle horses, with the result that farmers, to a great extent, practically gave up horse breeding.



WHITE WYANDOTTES.

Though electricity is now being used more largely than ever as a motive power the market for good heavy draft, carriage and saddle horses has undergone a decided change for the better. Heavy draft horses for home use are reported to be scarce and almost unobtainable, while there is a good British and foreign demand for them. Of good carriage and saddle horses there is not now a sufficient number to supply the demand, and they average better prices than ever before, and are also wanted for cavalry purposes in Great Britain and elsewhere. The market for the ordinary "scrub" and the average general purpose horse is, however, as dull as ever and likely to be so, because there is no demand now for street railway purposes for which this class of horses was chiefly used. While this is true there never, perhaps, was a better demand for really good draft, carriage and saddle horses as there is to day and which is likely to continue for some time to come.

The question for the farmer to consider just now is how to produce the kind of horse for which there is a live demand at good prices. There is but one way to do this: Breed the right class of mares to the right class of sires and raise and break the colts properly. For producing the heavy draft horse good purebred Clydesdale sires bred to good roomy mares is the plan recommended by many experienced horse-breeders. A popular line of breeding in the Western States to increase the size and bone is to breed grade draft mares, Normans or Clydes, to the big Shire stallions. Whatever plan is adopted none but purebred sires of the best quality and mares of the right type should be used.

The plan followed by many horse-breeders for the production of good carriage and saddle horses is to lay the foundation stock by breeding mares of good, fair size with some breeding in them to English thoroughbreds. The steady aim should be to get size and quality. Then, if this is followed by breeding to the Hackney the quality, size, and action, which gives the high-priced street and park horse, can be secured. If the original plan be continued by breeding to the thoroughbreds the large-sized hunter can be produced, which is equally in demand and at good prices. It may, however, be a safer plan for the farmer, who is not an expert horseman, to confine his efforts to producing the heavy drafts, as special skill is required in training and breaking the carriage or saddle horse properly.

But good breeding will not accomplish everything necessary to procure a good horse. No matter how good the breeding may be the young colt must be cared for and raised in the very best way. And this is one of the points wherein many farmers fail to make a success in breeding

and raising horses. The practice too often is to allow the colt to shift for itself until it is trained to work, when more care is given it. No one who wishes to raise the highest types of horses can hope to succeed by such a plan. Young colts should receive special care, more particularly during the first two years. They should get a little grain just as soon after foaling as they will take it. The amount should be increased as the colt grows, and when weaning time comes, say at about five months, no check is felt by the removal of the mother's milk. Then if the colt is kept in good comfortable quarters during the first winter [and fed liberally on good hay, grain, roots and bran, with plenty of outdoor exercise, and has good grass the following summer and reasonably good food and care the following winter, the type and character of the horse is pretty well assured. To do this will require a little more care than the average farmer usually gives his colts, but it will pay. If the breeding is all right a colt raised in the proper way and well broken will sell for double as much as the average

farm horse will bring.

The Industrial Fair Association

The annual meeting of the Toronto Industrial Exhibition Association took place February 21st. There was a large attendance of representatives of the different organizations which form the membership of the association. The directors' report for 1898 was a most satisfactory one, and showed that the Exhibition, both financially and otherwise, is in a much better position than it ever was. The total gate receipts for 1898 were \$90,004, or over twenty-five per cent. more than in any previous year. The total receipts from all sources were \$116,675.95, and disbursements \$90,540.93, leaving a balance of \$26,135.02. This very satisfactory showing should be a source of gratification not only to the Board of Directors who have managed it so well, but to every resident of the province also.

The old Board of Directors were re-elected, with the exception of Mr. H. N. Crossley, who was elected to succeed Mr. Wm. Christie, who retired this year. Mr. A. F. MacLaren, M.P., moved, seconded by Mr. E. Kidd, that the association memorialize the Ontario Government to erect on the Exhibition grounds a building suitable for the display of dairy produce, dairy machinery, and the making of cheese and butter. Mr. James Russel, President of the Dominion Shorthorn Breeders' Association, asked that larger prize money be given to Shorthorn class at the show, and stated that his association was prepared to give \$750 to either Toronto or London, whichever would give them the best terms. At a meeting of the new Board of Directors Mr. J. J. Withrow was re-elected president for 1899.

The Tuberculin Test in the United States

At the live stock meetings held here some weeks ago there was some difference of opinion expressed as to whether the United States Government required a tuberculin test of cattle imported from Great Britain. As it is important that breeders should know the exact position of affairs at this juncture we wrote the Bureau of Animal Industry at Washington in regard to the matter and have the following letter in reply:

To the Editor of FARMING:

"Replying to your letter of the 15th instant, this department has not hitherto required a tuberculin test of cattle imported from Great

Britain and other countries, with the exception of Canada, but it is now considering the advisability of making such a regulation.

Yours respectfully,
D. E. SALMON,
Chief of Bureau."

Washington, D.C., February 21st, 1899.

It will be noted that the department is now considering the advisability of requiring the test to be used on all cattle imported into the United States and a bill has been introduced into the Senate with that object in view. But as we pointed out a few weeks ago the stockmen in some centres are making a vigorous against such a regulation.

Some English Pig-Feeding Experiments

In last week's issue we gave a summary of one of the experiments conducted by the Agricultural Department of the University College, Nottingham, England, last year, in feeding hogs. Below we give a summary of the second experiment as given by the *Mark Lane Express*:

The other experiment was taken to ascertain the relative values of barley meal and corn meal as "pig foods" when fed in equal weights, together with equal quantities of whey.

For the experiment two lots of pigs of four in each lot were taken from the same litter.

The rations used, cost of food, etc., will be seen by the following table:

	Rations per Pig per Day.	Total Ration for 4 Pigs per Day.	Total cost of Ration for 4 Pigs per Day.	Cost of Ration per Pig per Day.
			pence.	pence.
Lot 1	Barley meal and whey: Barley meal, 5lb.; whey, 2 gallons.	Barley meal, 20lb.; whey, 8 gallons.	14.24	3.56
Lot 2	Corn meal and whey: Corn meal, 5lb.; whey, 2 gallons.	Corn meal, 20lb.; whey, 8 gallons.	12.64	3.16

NOTE 1.—The value of barley meal at the Institute at the time was £5 8s. per ton, the value per lb. being .58 of a penny.
2.—Value of corn meal at the Institute was £4 13s. 4d. per ton. This is equal to ½d. per lb.
3.—The value of whey for pig feeding is reckoned at one-third of a penny per gallon (being the amount realized had it been sold).

After feeding for twenty days on the above rations the quantities of meals were increased by 1 lb. per pig per day for the remaining forty-three days, bringing the cost of rations up to 4.15d. per pig per day for Lot No. 1, and 3.66d. each for Lot No. 2.

The report of Mr. T. N. Parr, of Nottingham, who purchased the pigs, was to the effect that the barley-fed pigs were leaner in flesh and se. better than those fed on corn. The flesh of the corn fed pigs was fatter than those fed on barley, but set nicely and was of good quality and very suitable for the pork-trade in which he is engaged.

The barley-fed pigs would have been better for the "curing trade," but it is very doubtful whether such an increase in price could have been obtained to compensate for the extra cost of producing the better quality pig.

From the above it will be seen that in fattening pigs some six months old corn meal is a more profitable food for the production of pork than barley meal (when feeding stuff, cost about the prices quoted), and that corn meal produces greater weights of increase than barley meal.

Although the pigs fed on barley meal produced the firmer and better quality of pork, yet, as long as the butcher makes no difference in price for the two differently-fed pigs, it will be noticed that more weight of pork can be produced by the use of corn meal, and that at a cheaper rate, than employing barley meal in the same quantities.

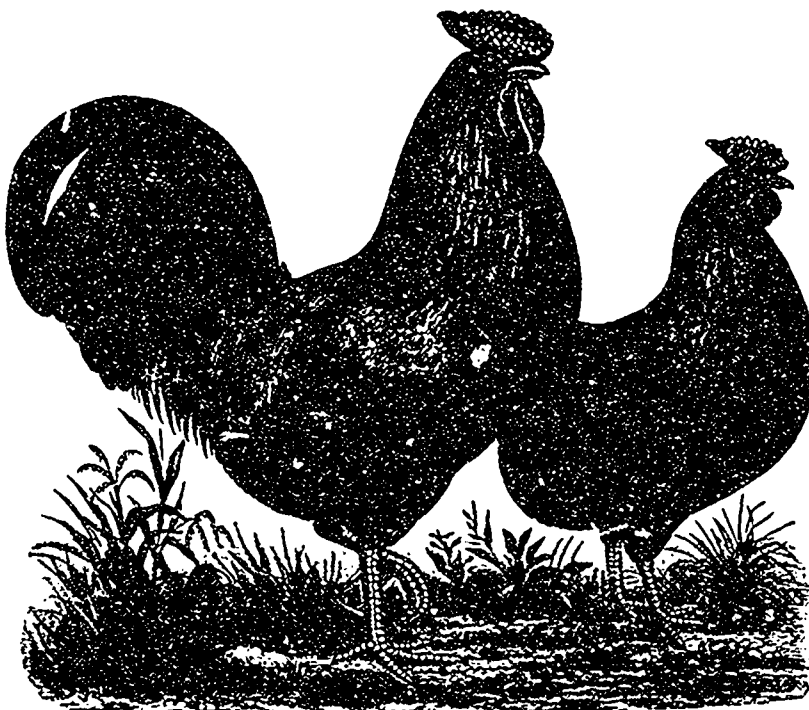
Thumps in Pigs

This disease is reported to be very common in some parts of the country. It is claimed by some that thumps are due to carelessness, and that the best cure is to thump the man who let his pigs get the thumps. But thumps cannot always be prevented. Even old breeders have thumpy pigs at times. An Indiana farmer, in a recent issue of the *Swine Breeders' Journal*, gives a simple remedy for this which he states will cure 90 cases out of every 100. As soon as the disease is seen, which generally occurs about the second or third week after the birth of the pig, take for a pig of this age about ½ of a teaspoonful of pure carbolic acid, put it in about a half pint of sweet milk and compel the pig to drink it. Then take coal oil and thoroughly soak the pig's neck, shoulders and breast. For pigs five or six weeks old give a half-teaspoonful of the acid. The writer states that one dose is all he ever had to give a pig to cure it and he has cured some bad cases.

Ducks

By James Anderson, Guelph

My experience in duck-raising has extended over some thirty-eight years, in fact ever since I have farmed for myself, and, as the River Speed runs through the centre of my farm, I have one of the best places for duck culture in the Dominion. After the first six weeks they can find their own living, as the river abounds in crawfish and other molusks on which they delight to feed. They are always fat. There is pasture on both sides of the river, and geese and ducks luxuriate there. I have tried the three different breeds—Pekin, Aylsbury and Rouen. The former is the most popular, as it is the largest, at least to look at, commences to lay the earliest, and, where you have plenty of water, is a profitable duck to raise. The Aylsbury is more tender, although an excellent table bird. I find the Rouen the most profitable of the three breeds. They are hardy, easily fattened, and, if you have the right breed, will weigh just about



RED CAPS, one of the oldest breeds of Poultry in Great Britain.

as much as the other breeds. I have had them dressed eight lbs. each at our Xmas fat stock show. Ducks are omnivorous, are great feeders, and, if you feed them well from the time they are hatched, they ought to be fit for market at three months old, which is the proper time to sell, as the prices are higher then than in the fall. The same feed will fatten them as geese, and there is a greater demand for good fat young ducks than for any other class of poultry. And a more toothsome bird cannot be put on the table than a well-cooked, well-fattened young duck. The Cayuga is a smaller bird, but is a very hardy duck, and is excellent for the table. They have more the flavor of the wild duck than the others, and are highly appreciated by gourmards for their delicate flavor. I have now given you my experience, and hope it may benefit some one, and, if it does, I will be well satisfied for the short time it has taken me to scribble out these few lines.

The Profits of Wheat Growing

At a Farmers' Institute meeting in Northwestern Ohio, recently a farmer gave the following statement as to his wheat crop for 1898 :

"Crop of 1898, credit and debit as follows for 28 acres producing 540 bushels and sold at 65 cents per bushel :

	Total cost.	Cost per acre.
Preparing seed bed	\$ 6 00	\$ 21 1/2
Seed 12 bus. at 65c	27 50	1 00
Drilling.....	0 00	21 1/2
Cutting with binder.	6 00	21 1/2
Shocking.....	6 00	21 1/2
Hauling, 3 days....	9 00	32
Hands threshing	7 50	27
Machine.....	16 50	59
Hauling to market	6 00	21 1/2
Binder twine.....	6 00	21 1/2
Wear of machinery.....	7 00	25
Tax on land	5 00	35
Incidentals	5 50	
Total cost of 28 acres.....	\$114 00	
Cost per acre.....		\$4 07
540 bushels cost per bushel 21 1/2 cents	\$114 00	
540 bushels sold at 65c. per bush....	\$351 00	\$12 54
Deduct value of land at \$50 per acre at 8 per cent. interest.....	\$4 00	\$8 07
Cost per acre as above.....	4 07	
Net gain.....		\$4 47

"If other land than corn ground is to be prepared and \$1.20 per acre to above, making cost \$5.27 per acre, or 27 1/3 cents per bushel.

"Had the yield been 15 bushels per acre and sold as above the account would have been as follows :

Yield, bus.	Value per acre.	Cost bu.	Net per acre.
15.....	\$ 9 75	25c.	\$ 2 03
20.....	13 00	20 1/2c.	4 93
25.....	16 25	18c.	7 73
30.....	19 50	16 3/4c.	10 50

"If the above yields were on other than corn ground the account would stand as follows :

15 bushels per acre cost per bushel	33 1/2c.
20 " " " "	26 1/2c.
25 " " " "	23 c.
30 " " " "	20 3/4c.

Profitable Poultry Keeping

In the last issue of the *Canadian Poultry Review*, Mr. A. G. Gilbert, Experimental Farm, Ottawa, gives the following experience of a beginner in poultry raising :

The Rev. Mr. Fisher, of Hantsport, N.S., writes that he tried poultry raising for the first time last spring, when he purchased 25 mixed hens. He bought all his feed. The

following is the result of his first attempt, with which he is very much pleased :

ACCT. WITH 25 HENS FROM 1ST JAN. TO SEPT 30, 1898, 9 MONTHS.

Cr.	.\$ c.
2500 eggs at 15c. per doz.....	31 25
52 chicks at 50c. per pair.....	13 00
19 hens for table use at 40c. each.....	7 60
1 cock sold.....	50
6 hens on hand, 1 and 2 yrs. old.....	3 00
Sold 5 barrels of droppings (near by).....	4 50
	\$59 85
	Less 26 94
	Net profit. \$32 91

Expenditure.

Paid for 25 hens and pullets.....	5 00
" feed for hens.....	13 20
" " chicks.....	6 24
" eggs for setting.....	1 00
" cockerel.....	1 50
	\$26 94

Rape for Hogs

At the Wisconsin station, two different experiments have been reported on in feeding swine rape. The first trial was on twenty Poland China pigs about eight months old. Lot one, of ten pigs, was folded in the rape, while lot two was kept in pens and fed the same grain as lot one. The plan was to make the same relative gain with both lots, but with lot one to replace a part of the grain food with rape. The two lots, at the end of seventy-six days, had made essentially the same gain, and it was shown that lot one ate about one-third of an acre of rape, and this saved 710 pounds of corn and 352 pounds shorts, or 1,062 pounds grain. An acre of rape was in this case worth about 3,318 pounds grain. In 1896 a similar experiment was conducted at the Wisconsin station, with Chester White pigs. The experiment lasted forty-nine days, during which time lot one ate six-tenths of an acre of rape, 886.2 pounds of corn and 444 pounds shorts, or 1,330.2 pounds less of grain than lot two, while making practically the same gain.

From these two trials it is concluded that one acre of rape is equivalent in value to 2,657 pounds of grain in hog feeding

CORRESPONDENCE

The Kind of Cattle for Export

Elm Park, Guelph, Feb. 16th, 1899.

To the Editor of FARMING :

In reply to "Subscriber," I would say that I am sorry I impressed any one with the idea that I wrote the article referred to by him simply because I had some Angus bulls to sell. I truthfully said I had the idea before I had one dollar invested in Angus cattle, and there has been much evidence continuously coming from Scotland every year to strengthen the fact, and not only from that country, but from the United States. At the Chicago Fat Stock Show in 1897 the best carload lot of two-year-old steers were Angus. Another best carload lot of yearling steers were Angus. At Omaha in 1898 the first and second prizes went to Angus cattle for carload lots, and in 1897 at Chicago the first prize in the slaughter test went to Angus. As to my having a prize animal for once. I think the readers of FARMING who have watched the reports of the large shows from year to year know how much a statement like that is worth.

Direct crosses between purebred Polled Angus and Shorthorn cattle are not so largely employed in Scotland as is commonly supposed, but usually a purebred bull of

either breeds mentioned is crossed with grade cows in which the blood of the opposite breed is largely predominant. In other words, cross-bred cows got by a purebred Shorthorn bull are mated to a purebred Angus bull, or cross-bred cows got by a purebred Angus bull are mated to a purebred Shorthorn bull. Many of the famous "blue grays" from the south of Scotland come from Shorthorn and Galloway crosses.

The largest ranch in the world is in Texas, and there they breed Herefords, Angus, and Durhams. The most valuable trainload of breeding stock that ever passed through the United States, I read a short time ago, was a load of Hereford, Angus and Durham cattle on their way to Texas. It was so important that it had the right of way over all other trains. I think my friend had better look after the rights of his pets in the southern part of North America, where he claims so much for them. We should find out what kind the British consumer will give us most gold for, and then let us all fall into line and try and please him.

Yours truly,
JAMES BOWMAN.

Inspection and Regulation of Stallions

Howick, Que., Feb. 21st, 1899.

To the Editor of FARMING:

In FARMING of Feb. 14th I read with pleasure an able article from Mr. William Hendrie, Jr., and with which I heartily agree. There is no time a thorough inspection is needed more than now. Horses are getting very scarce, and what are to sell are of poor quality. As a rule the average farmer would not pay the service fee for a good stallion the past four or five years, preferring to use inferior animals. I think if the Government would appoint a commission composed of leading breeders they could arrive at some practicable solution of this difficult problem. Farmers now see the mistake they made in mating their mares. I do not dictate to anyone what breed to use, but by all means take the best to be got. I may say that our Provincial Government will not allow any prize to be awarded to a stallion that does not pass veterinary inspection, which is quite a long way in the right direction. Hoping you will agitate this vital question,

I am yours, etc.,
ROBERT NESS.

Alfalfa and Fall Wheat

South Cayuga, Ont., Feb. 20th, 1899.

To the Editor of FARMING:

In some of the recent issues of FARMING we note alfalfa clover highly recommended for green feed and hay. Will those correspondents kindly tell us if they have succeeded in getting a good stand in fall wheat after alfalfa, when and how sown, also the amount of seed sown per acre, and oblige?

W. H. BESSEY.

NOTE.—Will some of our readers who have had experience in growing fall wheat after alfalfa kindly give our correspondent the information he desires?—EDITOR.

Rheumatism in Pigs

To the Editor of FARMING:

In this week's issue of FARMING I see that Mr. Wm. L. Hughes, of Harper, Ont., has pigs afflicted with rheumatism, and, as I have had three cases of the same kind this past summer, and cured them completely each time, I will give you my cure. I bought one pound each time of hyposulphite of soda, cost 10c. I pulverized it, and gave about one teaspoonful for each pig in the feed. The first lot I

carried to the trough for weeks, and they eat all right, but would squeal with pain. In two days after giving the above they got to trough alone, and in one week were as sound as ever. The other two cases I cured in less time, as I knew what to do before they got so bad. If this will benefit Mr. Hughes and others it should be known.

Respectfully yours,

W. H. DAVIS.

Tweed, Ont., Feb. 11th.

Women's Institute of Saltfleet

To the Editor of FARMING:

On the afternoon of Jan. 26th the regular meeting of the Women's Institute was held. An excellent paper on Physiology, with illustrations to explain, was given by Mrs. S. Melson. The Question Box, as usual, was very interesting.

Mrs. Hoodless, honorary president, was with us and explained the National Council of Women with a view to the institute affiliating. An instrumental duet was given by Mrs. Melson and Miss Nash, followed by a paper by Miss Nettie Miller, the subject being "A talk to the girls."

As there was considerable business the program was necessarily short. At the close of the meeting afternoon tea was served by the members.

On the evening of the same date a very successful open meeting was held. Mrs. Hoodless occupied the chair for the evening. We were treated to an address by Mrs. J. L. Smith, of Whitby, her subject being "A talk to young farmers and their wives."

Miss Laura Rose, of the Dairy Department of O.A.C., Guelph, gave us an interesting talk on bread and butter making. Two members of our institute gave papers also. They were as follows: "The modern girl," by Mrs. Melson, and "As the twig is bent the tree inclines," by Miss Corman.

An encouraging report of institute work was given by Miss M. E. Nash. Miss Anna Warren Smith, of Hamilton, delighted the audience with choice selections of vocal music. A recitation and song was given by Miss Cora Miller, of Hamilton. We also had good local talent, which consisted of a duet by Mrs. F. M. Carpenter and Miss Nina Smith; songs by Mr. S. Melson and Mr. A. E. Kimmins, and a recitation by Mr. J. H. McNeilly. As we are deriving so much benefit from our institute, it would be a source of pleasure and satisfaction to know of kindred societies being organized throughout this fair Dominion.

MAGGIE E. NASH, Secretary of W. I.

Stony Creek, Feb. 13th, 1899.

Milk Tests

Reply to G. Rice's Letter in January 10th Issue.

To the Editor of FARMING:

I hope we are not intruding upon you by taking up so much space in your valuable paper upon the above subject. For this reason I shall be as brief as possible.

While it was not our intention in proposing the plan for a milk test by weight to get down so low as the cow's tail, yet if it is our good friend's pleasure to do so, and, as the majority generally rules, probably we will have to add that also. Poor old Calamity Jane, the noted cow which it is no disgrace to come behind, will be out of it sure this time.

G.R. does not believe in a fixed scale. No, that is right, G.R., especially when it is going to fix it so that your particular breed will have no undue advantage over the smaller ones. He says, in a general way, it is stated that a large animal eats more than a small one. I think this is known to be a fact, and it is so in no general way. Why not compute a ration per head and not according to weight, if it is not a fixed rule? I will admit that individuality will have something to do with it, but a small cow

which will consume a lot of food is almost sure to be a profitable one; for what she eats will go towards production, and not to keeping up a large frame-work. G.R. brings out this point very well in a comparison between Daisy Texal and Calamity Jane, and because Daisy is a small cow and eats a lot he has great expectations.

He goes on to say that a cow producing 3 lbs. of butter will eat more than one producing 1 lb. regardless of weight. This is not necessarily the case, for the one producing 3 lbs. may be doing it at the expense of the fat in her body and this is one of the great objections to milk tests. As is often the case, a man brings in a big cow in good flesh, freshly calved, and she will produce 3 lbs. of fat per day, while nine months hence she would not produce one on the same feed. The extra 2 lbs. of butter is made at the expense of the animal's body. This is just what has been taking place in our dairy tests, and to weigh the food will not entirely overcome this trouble. But weigh the cows, and those that are fresh will weigh more and the more they weigh the greater disadvantage they would be at. The only way that it could be arrived at justly and fairly would be to weigh every animal.

Your correspondent then goes on to say that the little Jerseys ate more than the big Shorthorns in the World's Fair test. I am surprised that some of the Jersey breeders have not entered an action for libel for this statement. We all admit that the Jersey will eat as much for her size as any cow, and we will also admit that there are other cows as large as Shorthorns that will eat as much as Jerseys in proportion to their weight. I don't think that a greater difference in comparison could be made between cows of different weight for the amount of food that is required per 1000 lb. weight than between Jerseys and Shorthorns. I am very sorry that there were not some Holsteins in this test so that we could compare the Jersey with the Holstein. I suppose the fixed scale was at too great a disadvantage in this test, for I understand they entered but backed out.

Now let us take a glance at the results of the test at Chicago. Every one will admit it was one of the most carefully and extensively performed experiments which has ever been conducted, either in this or any other country with purebred animals. In the first place, let us see what the weight of the little Jerseys was. We find they averaged 920 pounds, while the big Shorthorns only averaged 1133, a little over 200 pounds difference.

In cheese, test No. 1, the Jerseys ate \$98.18 worth of feed, and the Shorthorns ate \$99.36 worth. I would like to know why our friend didn't also make a comparison between the Guernseys and Shorthorns, for the Guernseys averaged about the same in weight, while they ate only \$76 worth of food, and the Shorthorns ate \$99 worth.

In cheese, test No. 2, Jerseys ate more value in chop and mill feed than the Shorthorns, but far less in hay and silage. The Shorthorns ate \$145 worth, while Jerseys ate only \$54 worth. Then, in the thirty-day butter test the cost of food per pound of butter for Jerseys was 13.28 cents; Guernseys, 12.81 cents; Shorthorns, 15.77 cents.

Now let us notice the cost of feed for different cows of the same breed. There were 15 Jersey cows which weighed over 900, with an average of 965. There were 10 which weighed less than 900 with an average weight of 850. The average cost of food per cow of the 15 weighing over 900 was \$4.12, while for the 10 under 900 it was only \$3.78. I think this will show that the cost of feed is in proportion to the weight of the animal.

Coming to the cost of food for individual cows of different breeds. The highest cost of food per cow was a Shorthorn and which was \$4.76. The highest for any Jersey cow was \$4.23, and the greatest cost of any Guernsey cow was \$3.33.

Bulletin 149 of the M.A.C. claims, as every experienced and practical feeder knows, that the ration should be varied according to the period of lactation, the temperature, and the individuality of the cows, etc., and it also claims that the correct basis to compute rations for stock is per 1,000 lbs. live weight.

Coming to individual cows again we will notice Bulletin No. 127, M.A.C. We have the record of three cows of the same breed but different weights. Rosa Bonheur weighs 1850 and the average daily consumption was 52.43 lbs. of dry matter; Houwhize D. weighing 1600 lbs. with an average daily consumption of 33.8 lbs. of dry matter per day; Bell Sarcastic, another cow, weighing 1,550. Her average daily consumption of dry matter was 29.9 lbs. By these and various records we are led to believe that the consumption is in proportion to live weight.

Take pigs, for instance, and it has been demonstrated time and time again that the amount of food required to produce a pound of pork increases in proportion to the increase in live weight of the animal. A report of an experiment conducted this last summer by G. E. Day, B.S.A., O.A.C., will be found on page 326 of FARMING upon these lines.

In his next paragraph he makes a new discovery, and "solids other than fat are in proportion to fat." It is likely our friend has heard this over in Michigan also. I think if the four Holsteins had produced 8 lbs. of fat in place of 15, this new theory and the explosion of it would not have occurred just here.

Great exception seems to be taken to the statement that "Fat gives milk almost its entire commercial value." W.A.C. winds up his essay by saying that the food value of the cow's products is the Omega. I would like to ask him if he can formulate a test upon this method. I met a dairy professor last year who advocated this, but he couldn't. I can't agree with this, either, for we are producing butter and cheese for their commercial value, and not for food value. In making butter the greater part of the food value goes to the skim milk, and the solids in that are worth no more than 2c. per lb., while the butter-fat is worth 20c.

Butter-fat is more than a measure of the value of milk. In case of good butter it is 86 per cent. of the whole, the other 14 per cent. being mostly water, and the most of you are aware how valuable that is. In good cheese it forms about 33 per cent., and without fat cheese would be an unknown product in commerce. Butter-fat forms so much of the value of milk for all purposes that it is taken as a measure, and that is what should be done in milk tests.

G. R. says that it is the total solids which make the cheese. I think there would be far more cheese made if the total solids went into cheese and Canada would supply England with the remaining 40 per cent. I think if our friend were to analyze cheese he would find it largely composed of fat, casein and water. I wish G. R. would give your readers the name of the professor who says skim-milk is worth more than fat. It is likely he would soon have a host of enquiries as to the probable price of skim-milk for the coming season. With six years' experience with a private creamery, where we get skim-milk fresh, we find that skim-milk on an average is worth 20c. per 100 while the fat in the milk brings from 65 to 85c. per 100 lbs. of milk.

I quite agree with the last part of our friend's article that dairy tests should be to encourage greater productiveness and not to bloom any particular breed. That it would be better to have a separate class for all breeds. I cannot agree with what he says about the score card for the dairy cow. That is what has been the means of bringing her to the present state of perfection, and while the Babcock and Lactometer may help to develop her producing powers it may do so at the expense of constitution if the scoring or judging of animals is entirely left out.

As a great deal has been said and written upon this subject I think if representatives of the different breeds could meet with our leading authorities upon dairying that possibly a test could be formulated which would give general satisfaction to the breeders of the various breeds. We would like to see a meeting held for this purpose sometime in the near future. Thanking you for the space I have taken,

I am, yours respectfully,

W. E. BUTLER.

QUESTIONS AND ANSWERS.

POULTRY KEEPING AND INCUBATORS.

Moosomin, Man., Feb. 6th, 1899.
To the Editor of FARMING:

Would like to ask, through your esteemed journal, some questions re poultry.

Which is better for an amateur to keep, White or S. Laced Wyandottes? It has been claimed that the White are so much easier kept, and true to color. (Now, I think that objectionable because enough trouble will not be taken to get good stock to breed from.)

Is an incubator reliable to depend upon for hatching? A firm who handle other poultry supplies have said "that it is of no more use, except in theory, than a milking machine." This kind of thing shakes our faith, and we would like to be put right by a disinterested party.

We appreciate FARMING very much, and all are pleased to see it come into their homes. Have purchased a Vessot subsoil lance, and all who have seen it work think it fine. We could see to the row where it was used.

Yours respectfully,
JAS. H. PETERS.

Answered by A. G. Gilbert, Superintendent Poultry Department, Experimental Farm, Ottawa.

(1) White Wyandottes are the better if you prefer them. They are easier to breed and true to color. Strain has much to do with egg-laying. Get birds from a prolific egg-laying strain, or eggs from such.

(2) Incubators are indispensable to the expert who breeds for a high-priced market. Incubators are used by many large poultry concerns with great success. Don't pay attention to all you read. A market gardener has to use hot-beds to force his early green-stuff. An expert poultry-keeper uses incubators to bring his early chicks to early maturity. There are several reliable incubators on the market.

BUTTER-MAKING CONTESTS.

To the Editor of FARMING.

Some months ago I noticed an item in FARMING about a butter-making contest at some of the agricultural fairs. Can you give information how the contest was conducted? Did the contestants do the milking, separate the cream and make the butter? Was cream allowed time to ripen? etc., etc.

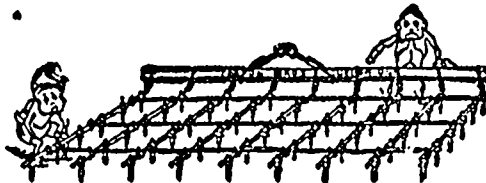
Would it be a fair contest for a farmer's son or daughter of fourteen to twenty years of age to compete with some of those running large creameries or how could the contest be most satisfactorily arranged to get the young folks of the farm to take a hand? It seems to me it would be much better to get up such a contest and offer liberal premiums than spending the money on some of the crazy patchwork or similar exhibits.

A SUBSCRIBER.

The item referred to as appearing in FARMING doubtless had reference to the butter-making contests in Great

Why ? Because

In these times of keen competition is there such a great demand for this All Steel Flexible Harrow.



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 motion produced by its flexibility pulverizes the ground, and leaves it in a loose and more porous condition than any 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 hinges and teeth being of solid steel, all of which are of a higher grade than is possible to use in any other make of Harrows. We can guarantee more than double the strength and wear in this Harrow than there is in any other make.

Our Motto, "Not low Cheap, but how Good."

TOLTON BROS., GUELPH, Ont.

WANTED

25 MEN Responsible and reliable men to canvass for our

Homestead Brand Fertilizers

BEST IN THE WORLD

We are prepared to pay a good liberal commission to agents, and will give purchasers of these fertilizers a reasonable length of time to pay for same. Write us for full particulars.

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Steel Towers, Pumps, Tanks, Saw Tables and Watering Troughs, etc.

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BOYS FOR FARM HELP.

The managers of Dr. Barnardo's Home invite applications from farmers throughout the country for the boys they are sending out periodically from the English homes.

MR. ALFRED B. OWEN, Agent,
Dr. Barnardo's Home, 214 Farley Ave.
Toronto, Ont.

Britain, where they are very popular. We do not know of any such contest ever having taken place in Canada. Several contests of this character have been conducted by the British Dairy Farmers' Association, and if "Subscriber" desires full particulars as to how these have been carried on we would advise him to write to the secretary, William C. Young, 12 Hanover Square, London W., England.

In conducting such a contest it would be unfair to have farmers' sons and daughters compete with butter-makers from the creameries. There should be separate sections for each of these classes. It is likely that the cream was ripened for churning before the contest began, otherwise it could not be completed in one day. We do not think there should be much difficulty in arranging for a butter-making contest at some of our leading agricultural fairs provided a suitable building and the necessary appliances could be secured.

AYRSHIRE BREEDERS' MEETINGS.

The first annual meeting of the Amalgamated Dominion and Canadian Ayrshire Breeders' Associations convened in the eastern office, Montreal, February, 15, 1899, Mr. Robert Niss, president, in the chair,

The report of the Secretary, Mr. Henry Wade, was then read. It was, in part, as follows: "The past year has been an historical one. The breeders of Ayrshires, previous to a year ago, were recording animals in the Dominion Herd Book with two distinct classes of pedigrees, namely: those that traced to importation on side of both sire and dam, and those that could not be traced on the dam's side clearly to an imported cow were published in what we called the appendix, although, doubtless, if dead men could speak, several of this latter class could qualify for the higher standard. Owing to the neglect of keeping private records the history of several families of imported Ayrshires has been lost track of, especially in New Brunswick and Nova Scotia, as well as nearer home. It took a surgical operation a year ago at the annual meeting at Toronto to extract the appendix from the body of the Dominion book. Then came amalgamation with our friends from this province, another historical feature of the year, which, doubtless, will work wonders in the way of renewed prosperity, life and energy in the Ayrshire cause, as this new association will soon, we hope, be a power in the land.

"There is no doubt that amalgamation at first has caused a great disappointment to some of the breeders as, unfortunately, several pedigrees in the Canada Book were the same as those that were in the appendix of the Dominion Book, and consequently had to have the knife used to cut them out also. It would give the committee on the standard of pedigrees great pleasure if they could meet some one who

A PAGE OF HISTORY

The Wire Fence business has been so completely revolutionized by the introduction of

The Coiled Spring Page

that every wire fence history begins and ends with it. There is no fence of this size that of all other makes combined. Does not this attest its superiority? Before buying any other fence get our illustrated circular. Also try price. They are way down.

THE PAGE WIRE FENCE CO. LTD.
WALKERVILLE,
ONT.

Auction Sale OF THE VALLEY HOME HERD OF Shorthorn Cattle

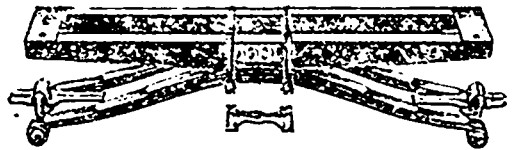
On Wednesday, March 22nd, 1899, at our Farm one mile from Meadowvale Station, C. P. R.

Our entire herd of Shorthorns, consisting of 30 head comprising such well-known Scotch families as Nonparolls, Minas, Jills, Cecilia's, Bessies, 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 milkers. The young things are a choice lot, sired by such imported bulls as British Statesman, Comet, Golden Crown and Grand Sweep. In addition 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.

JOHN SMITH, M.P.P.
Auctioneer, Brampton.

S. J. PEARSON & SON,
Meadowvale, Ont.

Carry your Stock and Farm Produce on Wagons fitted with the celebrated "XXX" Bolster Springs. They are the only perfect spring made. In comparison with these all others are useless. Address J. H. MORROW, General Sales Agent, Brighton, Ont. Special inducements to introduce where we have no agent.



"THE FAVORITE"



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

BEFORE BUYING SEE IT.

DAVID MAXWELL & SONS

ST. MARYS, ONTARIO, CANADA.

could clear up the early history of some of the cattle bred and raised in this immediate neighborhood.

"The reason why this stand has been made is, that the directors of this association do not wish to record any animals in the new Canadian Book that will not record in the American Book. The standard now is the same, and no doubt a much larger trade will be done in the future with our American friends, so it would be useless keeping on record animals that would not record with them. We also wish the American Government to recognize our certificates at the lines by the custom authorities, and, without the high standard we are aiming at, it would be useless to make the attempt.

"There are no better Ayrshire cattle in the world at the present day than what we have in Canada. We have, constantly, for several years back, been importing the very best from Scotland to cross with those in this country, and it is well known that Canada is one of the best breeding grounds for cattle in the world, therefore, we must look forward to increased sales to the United States and our own Northwest provinces, and must take great pains to breed the very best for dairy purposes, making selections of breeding animals from the best milking strains—with large udders and teats. Also carefully looking to conformation in the rest of the body.

MEMBERS.

"The membership last year consisted of 82 gentlemen, 11 of these being from Quebec. The income from which amounted to \$164. The members' fees to the Canada Association, previous to amalgamation, were from 57 members, and are accounted for in the statement of that association. I expect the membership for the present year will be very much increased.

REGISTRATIONS.

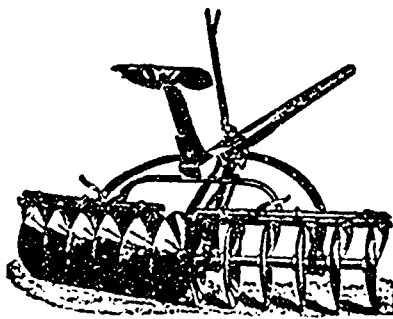
"We have been paid for 1,115 pedigrees during the past year, 418 of these coming from the Montreal office. We expect to increase this number materially this year, as we are now recording all the Ayrshires that are eligible from the Atlantic to the Pacific coast.

HERD BOOKS.

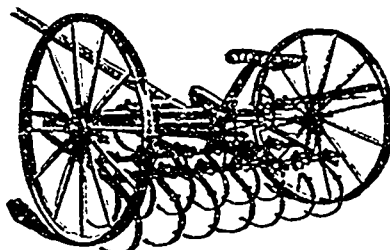
"The third volume of the Dominion book was issued late in 1897, the fifth volume of the Canada Book in 1898. This makes eight volumes from the two associations, so that the next volume will be called the ninth volume. We now have altogether 1,915 pedigrees ready to publish in volume 9, which can be made up to 2,000 if necessary. We will commence at once, if authorized by the Executive Committee.

EXHIBITIONS.

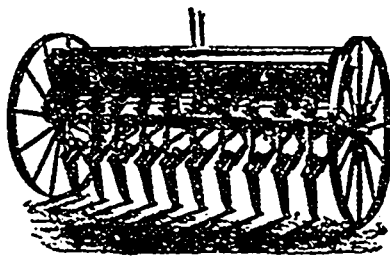
"We paid out in 1898 \$135 for prizes at some of our larger provincial exhibitions. I am afraid, in consequence of the additional expense caused by amalgamation, this will have to be discontinued for this present year. Ayrshire cattle were well brought out at



NOXON BROS. PATENT ALL-STEEL DISC HARROW



NOXON NO. 12 CULTIVATOR SPRING TOOTH CULTIVATOR



NOXON STEEL PULPER DRILL

The Buffalo All-Steel Disc Harrow.

This is the only Disc Harrow made or sold in Canada, having independent, adjustable spring pressure upon the inner 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 Cultivator 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 trailing 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 wide disc-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 absolutely 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, Mowers, Rakes, Cultivators and Pulpers, as good as the best. Send for illustrated catalogue.

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Ingersoll, Ont., Canada.

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

Queenston Cement

with the Water-Limes and 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 containing valuable information, prices, etc.

Isaac Usher & Son, Queenston, Ont.

WHEN WRITING TO ADVERTISERS PLEASE
MENTION FARMING

the different shows during the past year, a great many sales were made at satisfactory prices, and Ayrshire breeders have every reason to be satisfied with the year's results."

The financial statement for the year showed a balance on hand of \$246.67.

It was moved by F. W. Hodson, and seconded by Wm. Stewart, jr.: "That a committee be appointed by the Canadian Ayrshire Breeders' Association to meet a committee from the American Breeders' Association, and go over the standard of both books, with a view of making them precisely the same, if they are willing to co-operate with us in the matter." Carried

It was moved by W. W. Ballantyne, and seconded by Thomas Drysdale: "That the committee appointed to wait on the American representatives be composed of F. W. Hodson, Robert Ness, Henry Wade." Carried.

It was moved by J. C. Smith, and seconded by Joseph Yuill:

"Whereas, this association has learned that purchasers of Ayrshire cattle for exportation to the United States are put to much inconvenience and delay in shipment because of the necessity under present regulations of registering in the American Herd Book, in order to pass the customs

"Therefore resolved that, inasmuch as the standard of the Ayrshire Breeders' Association is precisely the same as that of the American Record, and that such cattle, to be useful in the United States, must, in the end, be recorded there. This meeting is of the opinion that every interest would be subserved and properly protected by admitting Ayrshires on presentation to the customs authorities of properly accepted certificates of registration signed by the registrar under the control of the Department of Agriculture of Ontario.

"Resolved, further: That a committee, consisting of Messrs. F. W. Hodson, W. F. Stephen and H. Wade, be hereby appointed to enlist the co-operation of the American Ayrshire Breeders' Association in presenting this view to the proper authorities at Washington."

It was moved by J. Lockie Wilson, and seconded by Thomas Drysdale: "That cheaper transportation for agricultural products, both by rail and ocean, is the most important problem to be solved by our law makers who are to assemble next month at Ottawa.

"Be it therefore resolved. That we, the members of the Canadian Ayrshire Breeders' Association, in meeting assembled, are unalterably opposed to further grants or subsidies to companies promoting fast Atlantic passenger steamboat lines, and we would urge that the energies of our representatives in the Federal Parliament be utilized in securing cheaper and faster ocean freight carriers, and that all freight rates fixed by rail and ocean carriers be regulated by methods such as are in vogue in Great Britain, United States, and all other civilized countries." Carried unanimously.

The HAPPY BUYER
OF 1899

HE BOUGHT
McCORMICK
RIGHT HAND
HARVESTER-BINDER

HE BOUGHT
McCORMICK
NEW 4-MOWER

HE BOUGHT
McCORMICK
DIG 4-MOWER

HE BOUGHT
McCORMICK
ONE HORSE MOWER

HE BOUGHT
McCORMICK
DAISY

HE BOUGHT
McCORMICK
CORN HARVESTER

HE BOUGHT
McCORMICK
CORN HUSHER AND
FOODER SHREDDER

HE BOUGHT
McCORMICK
MAYRAKE

The Greatest Output in the World
is the Greatest Guarantee.
WE SOLD
189,760
machines in the season just past and
shall sell more in 1899.
The name "McCormick" means greatest
value every time for the Farmer's money.
McCormick Harvesting Machine Co., Chicago.

READ OUR CLUBBING LIST

If you take any paper it will pay you to club with FARMING.

Patent Roller and Ball Bearing Galvanized Steel

Wind Mills
Towers and
Flag Stalls

"Maple Leaf"
Grain Grinders
Iron and Spray
Pumps
Send for New Illustrated Catalogue.

WINDMILL IDEAL

ROLLERS BEARING

WORLD'S SHAPLEY & MUIR CO. LIMITED
BRANTFORD CAN.

Important Change in Nursery Firm

Being to the increased demand for Nursery Stock the undersigned has decided to enlarge his business, and for this purpose has taken in an energetic partner, and the Dominion Nurseries will hereafter be run by Smith & Reed. We propose, as in the past, to offer trees direct to planters at reasonable rates, guaranteeing them to come in good condition and to be just what they are represented. Thanking the farmers for their past liberal patronage we respectfully solicit a continuance of the same.
Send for Catalogue—Free.

SMITH & REED

(Successors to A. M. Smith)

Dominion Nurseries, - St Catharines, Ont.

Winona Nursery Co.

OFFERS FOR
SPRING of 1899

A full line of stock, both fruit and ornamental, at very moderate prices. No agent's commission to pay.

Send for price list and catalogue. Dealers will find it to their interest to correspond at once with

J. W. SMITH, Manager,
Winona, Ontario.

NURSERY STOCK IN VERITY!



Our new catalogue is our agent, giving descriptions, PRICES, and how to plant fruit, ornamentals, shrubs, ROSES, Clematis, evergreens and small fruits. All well assorted, clean and handsome at the Central Nursery. Shall we send you one—nineteenth year? Also choice Seed Potatoes.

A. G. HULL & SON,

(Mention this paper.) St. Catharines, Ont.

CANADIAN OFFICE SCHOOL FURNITURE CO. LIMITED
PRESTON ONT.

FINE BANK OFFICE COURT HOUSE & DRUG STORE FITTINGS

OFFICE SCHOOL CHURCH & DRUG STORE FURNITURE

SEND FOR CATALOGUE

After quite a lengthy discussion on the matter of the appendix pedigrees, it was moved by W. W. Ballantyne, seconded by A. Kains, That a committee be appointed to investigate the matter of appendix pedigrees and report back to the meeting. Carried.

Moved by J. Lockie, seconded by Mr. Boden, that the committee to look into the matter of the Bonnie Scotland pedigree consist of James Johnston, R. Ness, Thos. Irving and H. Wade, secretary. Carried.

The following were chosen delegates to the different exhibitions: Ottawa Central, J. C. Smith, Hintonburg and Jos. Yuill, Carleton Place, Western, London, A. Kains, Byron, and R. S. Brooks, Brantford; Industrial, Toronto, W. W. Ballantyne, Stratford and Wm. Stewart, jr., Menie.

Moved by J. Lockie Wilson, seconded by John Hay, that we adopt the two judge system for all fairs where Ayrshires are judged. Carried. The following judges were appointed: Ottawa, W. W. Ballantyne, Stratford, and A. Drummond, Petite Cote; London, Daniel Drummond, Petite Cote, and J. C. Smith, Hintonburg; Toronto, R. Peer, Mt. Morris, N.Y., and A. Kains, Byron.

As the term of office of the eastern directors expired, the following were elected: President, R. Ness, Howick; vice-president, A. Kains, Byron; directors, Messrs. Robt. Ness, Howick; John Merrin, Belle Riviere; N. Lachapelle, St Paul l'Hermite; T. D. McCallum, Danville; W. F. St-phen, Trout River; A. Drummond, Petite Cote; R. Hunter, Maxville.

Moved by Jas. McCormack, seconded by Wm. Stewart, that the vice-presidents for the provinces be as follows: Ontario, J. C. Smith, Hintonburg; Quebec, W. C. Edwards, Rockland, Ont.; Manitoba, George Steele, Glenboro; Assiniboine, C. W. Peterson, Regina, Assa.; British Columbia, R. J. Mackie, Eburne, B.C.; Prince Edward Island, F. G. Boyer, Georgetown, Nova Scotia, C. A. Archibald, Truro, N.S.; New Brunswick, M. H. Parlee, Sussex, N.B.

Executive Committee (Eastern division)—Nap. Lachapelle, A. Drummond and R. Hunter Western division, Wm. Stewart, jr., W. W. Ballantyne and Joseph Yuill.

Revising Committee—F. W. Hodson, A. Drummond, Joseph Yuill, Henry Wade, Robert Ness.

Auditor (Ontario)—F. C. Complin; Quebec, A. Drummond.

Secretary-treasurer — Henry Wade, Toronto.

Eastern secretary—J. P. L. Berube, Montreal.

THE CALLA LILY.

When the Calla Lily begins to bloom, if the pots are placed in shallow pans of water and left there, the blooms will be found to last much longer and remain more plump and fresh than where water is simply applied to the surface of the soil.

ONLY TEA

We urge every one who reads this ad. to send in their order for TEA before the big duty goes on. We have a line of very choice Black Tea, in 20 lb. chests, at 23c. per lb. A Japan Tea, in 80 lb. chests, at 23c. per lb. Either of these Teas, any quantity, 25c. per lb. Our old special blend of Tea, either mixed or black at 30c. per lb. has no superior. Our special offer of 8 lbs. of Mixed Tea for \$1.00 is a bargain. We prepay freight in Ontario south of Gravenhurst on all orders over 10 lbs. excepting the 8 lbs. for \$1.00. We guarantee these Teas to be equal or superior to any you ever tried for the same money. Send your address for our Spring Circular and Seed List.

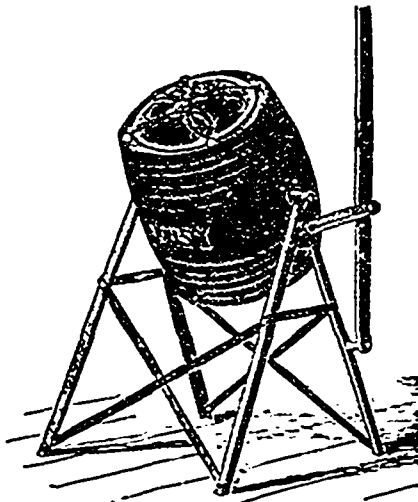
THE FARMER'S CO-OPERATIVE STORE

THE PEOPLE'S WHOLESALE SUPPLY CO.

144-146 KING ST. EAST

TORONTO

R. Y. MANNING, MANAGER



The "Daisy" Barrel Churn, 1899

ANGLE STEEL STAND
BICYCLE BALL BEARINGS
PATENT LEVER

CHURNING MADE SO EASY YOU READ YOUR BOOK WHILE YOU CHURN...

Manufactured only by

THE WORTMAN & WARD MFG CO (LIMITED)

LONDON, ONT.

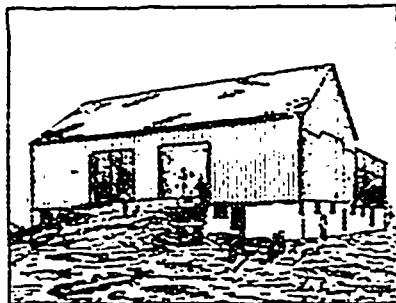
Eastern Branch: 61 McGill St., MONTREAL.

Established 1841. 53 Years in Use.

WORK DONE WITH

Thorold Cement

SPEAKS FOR ITSELF



Home of ALLAN McMANE, Elms Township. Basement Walls, 8 1/2 x 10 1/2 feet high. Built with Thorold Hydraulic Cement.

ELMS TOWNSHIP, Nov. 15th, 1898. It gives me much pleasure to testify to the excellence of your Thorold Hydraulic Cement for building purposes.

If 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.

During 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 satisfaction, and I have no hesitation in recommending it to those who require to use Cement.

My walls and floors are here for inspection, lots 24 and 25, Elms Township. I 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, Pig Pens, etc. Write us for free pamphlet and full particulars.

AGENTS WANTED in unrepresented districts

ESTATE OF JOHN BATTLE

Mention this paper. THOROLD, ONT.

The Spramotor

The only way to prevent what's past is to put a stop to it before it happens, as

Mrs. Partington would say. Many fruit-growers and farmers are induced to buy cheap "sprayers," for one reason and another, and they always regret it.

Cheap sprayers are always in need of repairs, cheap sprayers are always made of iron or mostly iron, and iron sprayers are useless in copper mixtures. You would not use a cast-iron carving-knife, because it's unsuitable.

The only way to prevent this trouble is to put a stop to it before it happens, or at least before it happens again.

The SPRAMOTORS are the result of the best efforts of the brainiest manufacturers alive.

The SPRAMOTORS embody more good features than all others combined, and that is the reason of the great demand. It is not only necessary to have one good feature, but one to be in the front rank must have all the good features.

The SPRAMOTORS shoot mixtures stronger and even than any, which fact has greatly increased their sales.

The SPRAMOTOR will last longer than any other, and is therefore economical to buy.

The SPRAMOTOR is made of brass, is the result of THREE PATENTS and others pending, is carefully made and less liable to need repairs.

Many times more SPRAMOTORS are used today in Canada than all others combined, which is one of the best arguments why you should buy one and be up with the procession. Nearly every first-class store in this country carry SPRAMOTORS in stock.

All the first-class brewers in Canada are using the SPRAMOTORS for whitewashing and disinfecting work.

SPRAMOTORS are recognized as being the standard of the world, and they have proven it by EVERY TEST that a machine can be put to.

They cost from \$5.00 upward, and a catalogue will be mailed you on application.

SPRAMOTOR CO.

357 Richmond St., London, Ont.

ONTARIO VETERINARY COLLEGE, Limited
Temperance St., Toronto, Can.

Affiliated with the University of Toronto. Patron: Governor-General of Canada and Lieutenant-Governor of Ontario. The most successful Veterinary Institution in America. Experienced Teachers. Classes begin on Wednesday, Oct. 13th, 1897. Fees, \$65 per session. PRINCIPAL, PROF. SMITH, F.R.C.V.S., TORONTO, CANADA

Publishers' Desk.

A Perfect Fence at a proper price must be a subject of interest to every progressive farmer, stockman and poultryman. To fully cover the term "perfect" a fence should not only be strong, able to withstand wear and tear, contraction and expansion, fully adapted to the purpose for which it is required, not liable to get out of repair, but it should also be sightly. To fairly come within the limits of "proper price" a fence should cost but very slight advance over the price of the material used in its construction.

The Carter Wire Fence Machine Company, of Mt. Sterling, Ohio, has satisfactorily solved the problem and provided the way to procure a perfect fence at a proper price. They have demonstrated the folly of paying 60 cents a rod for fence, the wire of which costs only 14½c. a rod. The calculation is an easy one, the saving made by their method is about \$45.50 for each hundred rods of fence put up, not an insignificant sum in these times when the cost of everything in these times must be carefully considered by those who covet success. Thousands of well pleased patrons in every section of the country testify not alone to the superior merit of the Carter fencing, but that it tands the test of time, and is in their opinion a "perfect fence at a proper price." It will cost nothing to learn fully about the Carter plan, and those interested are advised to write to the Carter Wire Fence Machine Co., Box P, Mt. Sterling, Ohio, for their latest illustrated catalogue.

Growers of Good Seeds.—A seed catalogue that stands alone is the 1899 announcement of J. J. H. Gregory & Son, Marblehead, Mass., which they are now sending free to their patrons and friends. It will pay anyone who cultivates the soil for pleasure or profit to send for this little book. It will guide them in getting the best vegetables and the finest flowers. It contains, in addition to hundreds of the standard varieties, the famous specialties first introduced by this firm—squashes, cabbages, potatoes, melons, corn, onions, beets, peas and numerous other vegetables. Messrs. Gregory & Son were the first to give a broad gauge warrant with seeds, and their goods have always been noted for their reliability.

Farm Structures and Ventilation.—We have just received the last annual announcement of Messrs. Isaac Usher & Son, the manufacturers of Queenston Cement, Queenston, Ont. It contains a great deal of solid fact and practical information in a comparatively small space, and there is not a line in it that should not be read and digested by every owner of live stock in Canada. One of the most interesting subjects of which it treats is that of the ventilation of farm buildings, and Mr. Usher, who has for years made a special study of this branch of architecture, handles it in such a way as to convince everyone that he knows it all thoroughly. The firm has invented and patented a system of ventilation applicable to farm stables which seems to be simply perfection itself. It consists in the use of ventilating tubes placed so as to convey the pure air from without the building directly to the stables, where it is distributed in a fine spray to the animals, the air being partially warmed in its progress through the pipes, which run under the floor of the feed alley in unfrozen ground. By this system the air in the stable is kept constantly pure and at an even temperature of from 45 to 50 degrees in winter. The doors and windows of the stable are always closed and the animals are kept entirely free from draughts and chilly currents of air. The Dominion Veterinary Inspector, in his report on tuberculosis in cattle, has strongly urged the absolute necessity existing for a constant change of air in buildings inhabited by animals, and attributes the diseases from which they suffer (especially tuberculosis) to the want of it. He very properly points out that farmers' architects do not make sufficient provision for ventilation. The report of the commissioner appointed by the British Government to investigate the cause of tuberculosis in cattle, shows that in districts in England where cows are kept for any considerable part of the year without a sufficient supply of fresh air 63

FREE

FOR ONE DAY'S WORK
WE GIVE this fine WATCH, with a chain and charm, for selling 2 dozen gold-topped, enamel-backed Lever Collar Buttons at 10c. each, or a lady's watch and guard for selling 3 doz. *No Money Required.* You run no risk. Write and we send the Buttons, post-paid, with our big Premium List. Sell the Buttons, return money, and we send watch, *free of all charge.* Unsold buttons returnable. Liberal commission preferred. Be the first in your field. Send your name and address to-day. *In writing, mention this paper.*
LEVER BUTTON CO., TORONTO, ONT.



BETTER THAN ALL OTHERS!

The Improved
**DOUBLE LEVER and
 ROLLER-BEARING**

"Queen Churn"

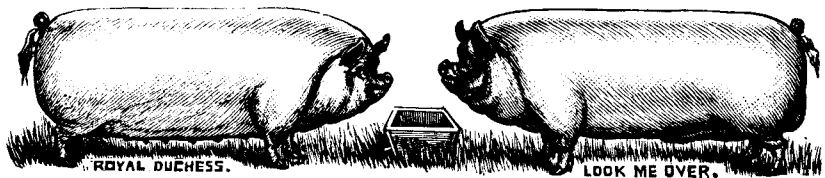
It does not require a "crank" to work the Improved "QUEEN" CHURN. The easiest working Churn ever offered to the trade. A child can work it.

Patent applied for.

For particulars, address

**The LONDON and PETROLEA
 BARREL COMPANY**

LONDON, - - ONT.

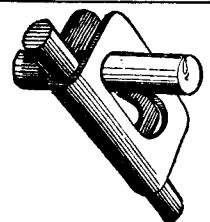


Summer Hill Herd of Yorkshire Hogs—Large Lengthy English Type—Among them being the undefeated prize-winning boar "LOOK ME OVER"—2602—acknowledged to be as good as any if not the best of his kind on the continent of America to-day. Also "ROYAL DUCHESS," a first-prize sow at the Royal Show, Birmingham, England, in 1898, together with a choice lot of other sows, young boars fit for service, and pigs eight weeks old, single or in pairs not akin. Also choice young sows bred to "Look Me Over." We ship to order, prepay express charges, guarantee stock as described.

D. C. FLATT, Millgrove, Ont.

Telephone and Post Office

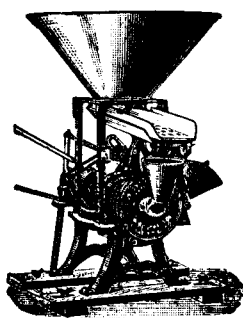
The Best is the Cheapest
 And in this case **The Cheapest is the Best**



WE WANT AGENTS at all points where we are not now represented, and will offer liberal inducements to the right man.

Sample Binding and Catalogue describing the Frost Fence and Frost Steel Gates mailed upon request.

THE FROST WIRE FENCE CO., - WELLAND, ONT.



**You Can't
 Make a
 Mistake**

If You Buy this Grinder.
 It is made by

**S. VESSOT & CO.,
 Joliette. P.Q.**

Prices and Terms are right.

per cent. of these were found to be suffering from tuberculosis, while in other districts where an abundance of pure, fresh air was at all times available they were absolutely free from disease. In a large abattoir in Glasgow, Scotland, where every animal slaughtered is tested for tuberculosis, facts were established to conclusively show that the chief cause of tuberculosis in cattle was ill-ventilated stables, and that the remedy for it was pure air and sunlight. In confirmation of this Mr. Usher cites other authorities upon the subject, including Dr. Hope, the medical inspector for the city of Liverpool. It is a subject in which every farmer should be interested, and as the facts stated in the little book issued by Messrs. Usher & Son are well worth investigation we recommend our readers to procure a copy. It will be sent free on application to Messrs. Isaac Usher & Son, Queenston, Ont.

An Enterprising Firm.—On Feb. 16th our representative called on the Frost Wire Fence Co., of Welland, Ont., who are snowing an "ad" on page 484, and was very much surprised to learn of the progress made by this enterprising firm in the short time since they opened up their Canadian branch. He was much interested in their machinery and the advanced method of manufacturing which enables this company to produce their goods as cheap or cheaper than any other concern in their line. He was also astounded to see the number of steel gates this company was making, as this gate has not been on the market more than two months. The Frost Company have already received the fourth order from the same customer for gates, and they show their own faith in them by agreeing to send any number, to be accepted if entirely satisfactory, or to be returned at their expense.

Incubators on Trial. The Von Culin Incubator Co., of Delaware City, Del., U.S.A., offer in their advertisement to send their incubator on trial, no payment to be made until after a thorough trial. This shows confidence in the merits of their manufactures and should be the means of obtaining for them a large amount of business. Write them for their catalogue and treatise on incubation. Price, 5 cents.

The Rapid, Easy Grinder.—Investigate the merits of this machine. Prominent farmers say it is the best they have seen. See advt. of J. Fleury's Sons, Aurora, Ont., on page 492.

A Business Education.—No farmer's son should neglect the opportunity of acquiring a thorough business training. No matter whether he remains on the farm or leaves it for other fields of usefulness, he will find a business education equivalent to thousands of dollars in capital. One of the best equipped and most convenient colleges in Western Canada is the Central Business College, presided over by Mr. W. J. Elliott. It has turned out hundreds of young men who are now occupying prominent positions in all parts of the continent of America.

Marketing Eggs.—The time is approaching when you will have more eggs to market than you will know how to conveniently handle. FARMING suggests that you should write to the Dowsell Manufacturing Co., Limited, of Hamilton, for their circulars. They have one good thing in their "Humpty-Dumpty" egg crate, and it will pay every farmer to investigate its merits.

FIFTH ANNUAL

Canadian Horse Show,

Under the joint auspices of the Country and Hunt Club of Toronto and the Canadian Horse Breeders' Association, to be held in

The Armouries, Toronto, Canada

On Thursday, Friday and Saturday,

April 13, 14 & 15

1899.

ENTRIES CLOSE on Wednesday, March 22nd, 1899, and should be, as well as applications for Prize Lists, addressed to H. WADE, Parliament Buildings, Toronto.

BRUCE'S SELECTED FARM SEEDS

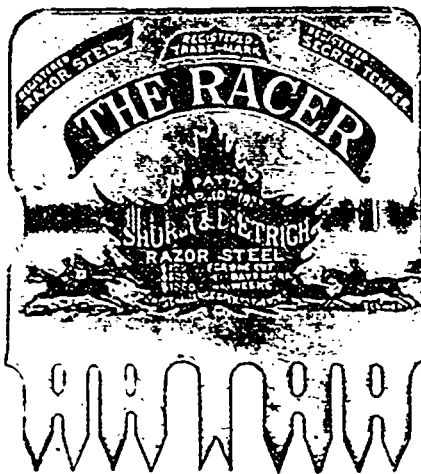


annual purchases of BRUCE'S SELECTED SEEDS with the same regularity as the agriculturists of Ontario and Quebec. Write for our Illustrated Seed Catalogue, which is mailed free.

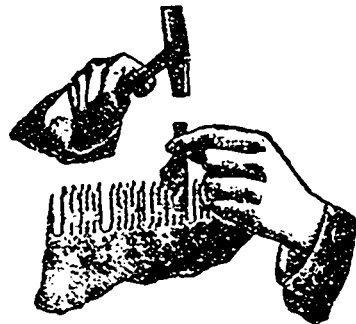
JOHN A. BRUCE & CO., Seed Merchants, Hamilton, Ontario

THE RAZOR STEEL, SECRET TEMPER, CROSS-CUT SAW

WE take pleasure in offering to the public a Saw manufactured of the finest quality of steel and a temper which toughens and refines the steel, gives a keener cutting edge and holds it longer than any process known. A saw to cut fast "must hold a keen cutting edge." This secret process of temper is known and used only by ourselves. These saws are elliptic ground thin back, requiring less set than any Saws now made, perfect temper from tooth to back. Now, we ask you, when you go to buy a Saw, to ask for the MAPLE LEAF, RAZOR STEEL, SECRET TEMPER SAW, and if you are told that some other saw is as good, ask your merchant to let you take them both home, and try them, and keep the one you like best. Silver steel is no longer a guarantee of quality, as some of the poorest steel made is now branded silver steel. We have the sole right for the "Razor Steel" brand. It does not pay to buy a saw for one dollar less, and lose 25 cents per day in labor. Your saw must hold a keen edge to do a large day's work. Thousands of these Saws are shipped to the United States and sold at a higher price than the best American Saws.



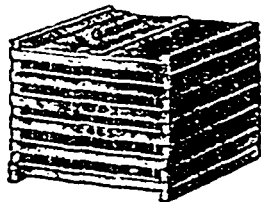
Maple Leaf Saw Set



Directions.—Place the Set on the point of tooth as shown in the above cut, and strike a very light blow with a tack hammer. If you require more set, file the tooth with more bevel. If you follow directions you cannot make a mistake. Be sure and not strike too hard a blow, and it will set the hardest saw.

Manufactured only by SHURLY & DIETRICH, Galt, Ont.

Humpty-Dumpty Egg Crates



Save their cost to the Farmer many times every year.

BREAKAGE AND DISPUTED COUNTS AVOIDED

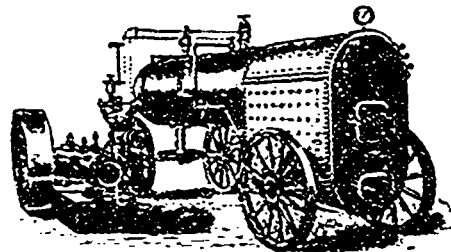
CHEAP—CONVENIENT
LIGHT—STRONG

When not in use folds compactly together. Handiest thing—with fillers removed—for carrying Fruit or Vegetables.

THE DOWSWELL
MAN'G CO LIMITED

If your dealer has not got them send to us for Circulars.

Hamilton



E. Leonard & Sons

ENGINE AND BOILER
MANUFACTURERS

LONDON, CANADA.

Build Engines for every purpose, from 3 h.-p. and upwards, with either stationary or portable Boilers to suit.

If you require power for a

Dairy, Cheese Factory

Grist or Saw Mill, etc.,

write us, stating what power is required, and for what purpose, and ask us for Catalogue 35 B.

COLOR and flavor of fruits, size, quality and appearance of vegetables, weight and plumpness of grain, are all produced by Potash.

Potash,

properly combined with Phosphoric Acid and Nitrogen, and liberally applied, will improve every soil and increase yield and quality of any crop.

Write and get Free our pamphlets, which tell how to buy and use fertilizers with greatest economy and profit.

GERMAN KALI WORKS,
93 Nassau St., New York.

Opening of New Wind-Mill Factory.

—The Gould, Shapley & Muir Co., Limited, of Brantford, have successfully completed their new premises in the heart of the city of Brantford, and they have now one of the largest and best equipped factories in Canada. About a year ago their main building was badly damaged by fire, and this led to the sale of the entire premises to the Gould Bicycle Co., Limited, who desired to extend their facilities, and to an arrangement with the city of Brantford for repairing and rebuilding the Wisner or Ventry factory. This work has been completed, and the result is a credit to the company and a surprise to all who have examined the new factory. On Friday last the members of the City Council and a large number of the prominent citizens inspected the premises and viewed the machinery in operation for the first time. Afterwards the guests, with the workmen, office staff and general agents met in the large sample room over the office to test the qualities of an excellent bill of fare, at which Mayor Raymond presided. Speeches were made by the Mayor, the President of the Company, Mr. E. L. Gould; the Vice President, Mr. John Muir; and by Mr. Henry Yeigh, the Secretary-Treasurer, in the course of which some very interesting facts were revealed regarding the business. In a future issue we hope to give our readers the benefit of the information elicited. The excellence of the G., S. & M. Co.'s machines has led to a rapid increase in their sales. With the new factory and its fine equipment, the company are prepared to meet all demands promptly.

Stock Notes

MR. JOHN SEMPLE, of Tottenham, Ont., is advertising the imported stallion, C. A., 220-, for sale in this issue. He took 1st prize as a three-year-old at Toronto Horse Show, and sweepstakes for best horse of any breed at Schomberg over several 1st prize horses with R. Marion, the Montreal horse king, as judge. He is said to be very kind and gentle in temper and a sure stock-getter. See advt.

MR. ALEX. GALBRAITH, of Janesville, Wis., is advertising prize-winning Clydesdale and Hackney horses in this issue. See his advt. on page —.

MR. JAMES DOUGLAS, of Caledonia, Ont., the well known breeder of Shorthorn cattle, is advertising in this week's issue for a competent cattleman. As Mr. Douglas is one of the oldest and most experienced breeders in Canada, this is a good opportunity for any young man who desires to perfect himself in a knowledge of the business.

MR. L. ROGERS, Cooksville, Ont., writes: "The following is a list of my most recent

"That Tired Feeling"

Is just as common and just as reasonable in horses as it is in men. When their blood is impoverished their appetite and energy leave them—their work feels twice as hard.

Dick's Blood Purifier

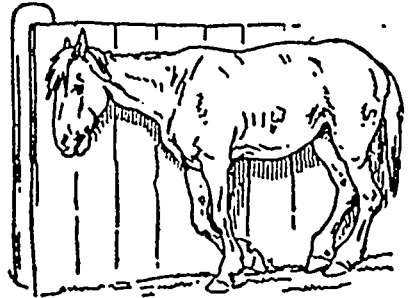
restores this lost vitality—The food is enjoyed—Every particle is digested.—The hide frees itself. Bots and kindred worms are destroyed and the horse thrives.

50 Cents a Package.

Trial Size, 25 Cents.

LEEMING, MILES & CO. Montreal, Agents.

DICK & CO., Proprietors.



Safes

CHAMPION AND BURGLAR-PROOF

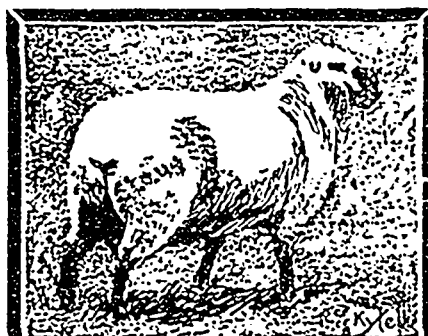
Everyone wants a good safe. We make them in all sizes and at prices to suit the times. Sixteen years' trial have proved that ours are second to none.

Send for Catalogue, Etc.

S. S. KIMBALL

877 Craig Street

MONTREAL, P.O.



Persiatric Sheep and Animal Wash

For the complete and effectual removal of all insects or vermin peculiar to sheep and cattle. Powerful, without being harsh, immediate in effect, without any irritating effects; it leaves the animal refreshed and in good spirits after use, does more than destroy the pests, it completely removes all traces of their attacks—healing sores or boils, curing open sores and leaving the skin whole and sound. Mr G. A. Brodie, a prominent stock raiser of Bethesda, Ont., used it with great success in castrating lambs, the wash healing the wounds rapidly and keeping the maggots away. He considers it the most effectual wash in the market, and heartily recommends it to farmers generally.

If your dealer hasn't it, write us for it, and tell us of anything special to the ailments of your flocks or herds and we'll advise you how best to use it.

The Pickhardt Renfrew Co.

(LIMITED)

STOUFFVILLE, ONT.



Trade Mark

A FIRST-CLASS INCUBATOR

FOR SALE.

ADDRESS—

FARMING, TORONTO, ONT.

Ask for

Eddy's

when you order matches. Then you will be sure of having the best.

BUY

Coleman's Salt

THE BEST

For Dairy or Table Use

IT IS UNEQUALLED.

Salt on the Farm

for wire worm, joint worm, army worm and all insects that destroy crops. Salt is the best insecticide. It is also a fertilizer.

TRY IT.

R. & J. Ransford,

CLINTON, ONT

sales: Geo. Pearson, Richview, one sow; Levi Goddard, Weston, one sow; D. McLellan, Highfield, one sow; R. T. Pinkney, Cooksville, one sow; N. Garbutt, Somerville, one sow; Geo. Jackson, Cooksville, one boar; T. Betsotto, Cooksville, one sow; Jos. Wolff, Springfield-on-Credit, one sow; J. D. Richardson, Berton, one boar; W. Cook, Dixie, one boar and two sows; Jos. Featherston, M.P., Streetsville, one sow; D. C. Flatt, Millgrove, one sow. Pigs that will suit such breeders as these should be satisfactory to any one."

Mr. J. W. BURT, Coningsby, Ont., whose a lot appears in another column, is offering some very fine Aberdeen-Angus cattle for sale. Mr. Burt's stock on the dam's side comes from the famous Victoria family, a noted show yard strain in Great Britain, and are descendants of the famous bull, Black Judge, of the Kennel Park herd. His young stock is in good condition and are nice, even, straight animals. Milton of Willow Grove, bred by A. Stewart & Sons, Lucasville, Ont., is at the head of Mr. Burt's herd and comes from a good milking strain. This stock bull Mr. Burt is offering for sale, as well as some fine young stock.

MESSRS. S. I. PEARSON & SON, of Meadowvale, Ont., announce in this issue a dispersion sale of their fine herd of Shorthorn cattle. The sale takes place on March 22nd, and will no doubt attract a large number of buyers from all parts of the country. There are some remarkably fine animals in the herd, many of them belonging to the best show stock in this country. The imported bull, British Statesman, bred by the late Mr. Sylvester Campbell, of Kinellar, Aberdeenshire, is one of the best in Canada, and the catalogue of sale includes a fine lot of yearling bulls, fit for service; a number of yearling and two year-old heifers, the majority of them being sired by British Statesman. The yearling bulls include Scotch Statesman, sired by imported British Statesman, out of imp. Mina Lass, by Gravesend; Closter Statesman, by British Comet, a son of British Statesman, and Nonpariel 39th; Royal Champion, by imp. Grand Sweep 17095, and Canadian Duchess of Gloster 18th, by imp. Knight of the Garter; Royal Statesman, by British Statesman, out of Sowerby's Lass, by Mina Lad, and a number of others equally as good. The females comprise a number of cows and heifers of exceptional merits from such well known Scotch families as Nonpariels, Minas, Jilt, Cecilia, Bessies, and Duchess of Gloster, sired by the best imported Cruickshank and Campbell bulls. Amongst them are the imported cow, Mina Lass, the dam of some remarkably profitable youngsters; the two-year-old heifer, Nonpariel 50th, by British Statesman, out of Nonpariel 39th; Mina Lass 10th, by the same sire; Nonpariel 51st, Nonpariel 53rd, Jubilee Jilt, Cecilia 12th, all sired by British Statesman and Sowerby's Lass, by Mina Lad, bred from the first-class families mentioned. The proprietors will be pleased to mail a copy of their sale catalogue to intending purchasers on application. M-adowvale is on the Orangeville and Teeswater branch of the C.P.R., two miles from Streetsville Junction and five miles from Brampton, on the G.T.R.

In response to our request for the address of anyone having a copy of our issue for Sept., 1893, we have received nearly one hundred replies and more than twenty copies of the number wanted. At first we answered every one individually who was kind enough to write us, but the number increased until we found it impossible to continue doing so. We trust therefore that our friends will accept this method of thanking them for their trouble. We only required one copy, and that was very promptly supplied by Mr. Jas. S. Henderson, of Rockton. The others received will be returned to those who sent them in all cases where the address has been given.

WANTED

Competent man to work among cattle and do general farm work. Apply to **JAMES DOUGLAS,** Caledonia, Ont.

**Griffiths' Veterinary
...Menthol Liniment**

A Veterinary Medicine Chest in Itself and the most Useful Home Remedy for Horses and Cattle.



IT CURES

Strains, Curb, Chapped Hocks, Wind Galls, Splints, Strained Tendons, Rheumatism, Over Reaches, Coughs, Colds, Sore Throat, Founder, Lameness, or any Soreness, Swelling, or Inflammation.

Griffiths' Menthol Liniment is endorsed by the highest live-stock authorities as the greatest of external applications.

It never blisters or removes the hair; should be in every home.

Sold by Druggists everywhere—
25 and 75 Cents

The GRIFFITHS and MACPHERSON CO.
SOLE PROPRIETORS
TORONTO and VANCOUVER, B.C.

USE

**Ulrich's
Ensilage
Corn**

MAMMOTH WHITE
GIANT PROLIFIC
YELLOW DENT
IMPROVED LEAMING

E. R. Ulrich & Sons

SPRINGFIELD, ILL.

Ask your dealer for samples and testimonials

FARMERS WANTED

To take orders in their section for the famous land reclaimer,

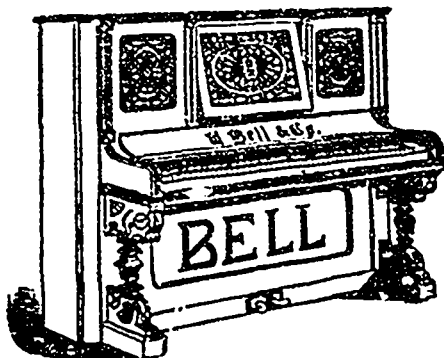
Alberts' Thomas-Phosphate Powder (Reg.)

Purity and analysis guaranteed. Correspond at once, as fall dressing of the land is important.

WALLACE & FRASER

Canada Life Building, - TORONTO

The Unparalleled Reputation of



**The BELL PIANOS
and ORGANS . . .**

Is accepted without dispute by all other makers . . .

ORGANS from \$40 upwards
PIANOS from \$250 upwards

Only the best materials used. All others are rejected. On Reasonable Terms from all Agents. Manufacturer: GUELPH, Ont.

THE BELL ORGAN & PIANO CO., LIMITED

**LEADING COLLEGES
OF CANADA**

TORONTO

THE

Best Job

Invariably goes to the one with best brain—one who has education, special training. Why not qualify for one of the best places going? You have the chance.

The **CENTRAL BUSINESS COLLEGE, TORONTO**

opens the door to success for many young Men and Women each year. It offers splendid equipment, thorough work, a strong staff and good results.

You may enter at any time. Write for prospectus. **W. H. SHAW, Principal.** Yonge and Gerrard Sts., Toronto.

STRATFORD

NONE BETTER IN THE DOMINION!

**Central
Business College**

STRATFORD, ONT.

A Commercial School of the Highest Grade. Twice as large as many of the commercial schools in the larger cities; enjoys a large patronage; Staff of Nine Male Teachers; moderate rate; board cheap. Students admitted at any time. Write for beautiful Catalogue.

W. J. ELLIOTT, Principal.

HAMILTON

**CANADA BUSINESS
COLLEGE**

HAMILTON

For nearly 40 years this College has been a leader in Commercial and Shorthand training in this country, and it is the leader to-day. Write for prospectus to

R. E. GALLAHER, Principal.



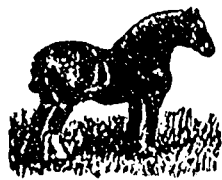
\$8 to \$15 for a to weave your own fence of **Galvanized Steel** **Spring Wire,** 22 inches high, at **25 Cts. per Rod.** 300 buys wire for 100 rod fence. Agents Wanted. Catalogue Free. **WIRE FENCE MACH. CO.** Box P. Mt. Sterling, O.

S. CROUCH, Box 13 Ridg. town, Ont. General Agent for Canada. **FRED. SMITH,** Box 17. Brandon, Manitoba. General Agent for Brandon and The North West Territories.

NO DUTY ON WIRE

Thorncliffe Stock Farm.

I have on hand the best young Clydesdale Horses and Mares on this continent. Bred from the well-known sires, Prince of Wales, Darnley, Macgregor, Energy, Lord Montrose, The Ruler, Carruchan Stamp, Knight Errant, and other celebrities.



599

SHROPSHIRE. Orders can now be booked for Shearling Rams, Ram Lambs and Ewes, sired by the celebrated prize-winning English ram, Bar None. Also rams and ewes of this year's importation.

SHORTHORNS. Choice young Heifers and Bulls by the celebrated Cruickshank bulls, Northern Light and Vice Consul.

My stock in the above lines were very successful at all the large shows last year. Call and examine stock before purchasing elsewhere. Terms reasonable.



ROB. DAVIES, PROP. TORONTO, CANADA

Fashionable Hackneys and Prize-Winning Clydesdales

OF THE . . .
BEST KNOWN STRAINS

A number of superior Hackney stallions and mares, sired by such well-known prize-winners as Ottawa, Banquo, Seagull, and the world-renowned JUBILEE CHIEF, winner of the Hackney championship at the World's Fair. Also a number of Clydesdale stallions and mares sired by such famous stockgetters as Sir Walter and Eastfield Laddie.

MATCHED HIGH-STEPPING CARRIAGE HORSES. FASHIONABLE COBS, SUPERIOR SADDLE HORSES, HANDSOME PONIES.

R. BEITH & CO. - Bowmanville, Ont.

A New Importation of

Clydesdale Stallions

Arrived Oct. 31, 1898



The largest importation of the breed made in five years, and 80 per cent. of them Scottish Prize-Winners. A few choice

HACKNEYS

for sale. Address

ALEX. GALBRAITH

JANESVILLE, - - WISCONSIN

IMPORTED SHIRE STALLION FOR SALE

Eight years old. About 17 hands; weight, about 2000 lbs. Good condition. Color, bay, with white stripe and two white hind feet. Sure stock-getter. Perfectly sound in every respect. Right in every way. For particulars address

JOHN SEMPLER

Box 73, Tottenham

WM. SMITH, Columbus, Ont., Breeder of Clydesdale Horses, Shortborn Cattle, and Cotswold Sheep. Stock always for sale.

W. D. FLATT

HAMILTON P.O. and TELEGRAPH OFFICE



.... OFFERS FOR SALE

TEN Choice Shortborn Bulls, from six to twelve months; twenty-five Cows and Heifers served by imported bull, Golden Fame #2056; also Large Yorkshires of choicest breeding and quality from Imported and Canadian-bred stock of True Bacon Type. Catalogue sent on application. Visitors met at G.T.R. or C.P.R. if notified.

Two Prize-Winning Sows

FOR SALE.

Seven months old. Both in farrow to our stock boar, "Royal First," winner of first prize at the Royal Show in 1898 in a large class. Also young stock of both sexes.

A. ELLIOTT & SON,
GALT, ONT

HENRY ARKELL, Arkell, Ont.

Importer and Breeder of
OXFORD-DOWN SHEEP

Ewes in lamb to Royal Warrick and Imp. Hero 5th for sale.

PRICES REASONABLE.

Hermanville Tamworths

PIGS

Ready to wean.

1 Pig, \$10.00
2 Pigs, \$18.00
3 Pigs, \$25.00

Cross-breds
Half-price

Orders booked and filled as received.

Yorkshires
Duroc-Jerseys
Cross-breds

Every sow in the herd has either been a winner, produced a winner by a winner, or out of a winner. No other herd with such a record. Litters come in April, May and June. Orders now received. Address (P.O. on Farm), HERMANVILLE FARM, P.E.I., Can.

W. R. BOWMAN

Offers for sale:

Twelve Shorthorn Cows and Heifers
Yorkshire and Berkshire boars and sows ready for breeding at \$10.00 each.

A 10-month Jersey Bull for \$35.00.

Mount Forest, P. O., Ont.

J. BUCHANAN, Napier, Ont., Breeder reg. Aberdeen-Angus Cattle. Stock by Lord Forest for sale.

REGISTERED

Aberdeen Angus Cattle

FOR SALE, young bull 13 months old, 3 heifers rising 1 year old, 1 heifer 2 years old, in calf. All registered or eligible for registration in American Herd Book and of first class quality and breeding. Prices and terms reasonable. Apply to

J. W. BURT, Jr.

Coningsby, Ont.

4 miles from Erin Station, C.P.R.

CHEAP CATTLE FEED

OAT DUST on hand, a good substitute for Bran or Shorts. Delivered at any station of the Grand Trunk or Canadian Pacific Railways. For Prices write to

JAMES WILSON

Monkland Mills, Fergus, Ont.

J. A. RICHARDSON, South March, Ont., Breeder of Holsteins, Dorset Horned Sheep, Tamworth Swine.

BRAMPTON JERSEY HERD.

Full stock of A.J.C.C. cows, heifers, heifer calves and bulls. Ask for what you want. A number of young Berkshires.

B. H. BULL & SON, - Brampton, Ont.

J. H. SMITH & SON, Willow Grove Farm, Highfield, Ont., Breeder of St. Lambert and St. Helen's Cattle. Prize herd at the Industrial.

W. M. ROLPH, Glen Rouge Farm, Markham, Ont., Breeder of Jersey Cattle. Herd nearly all pure St. Lambert. Young stock always for sale.

W. M. WILLIS, Pine Ridge Farm, Newmarket, Ont., breeder of St. Lambert Jersey Cattle, Cotswold Sheep.

Bursley Stock Farm.

A.J.C.C. JERSEYS

St. Lambert Blood.

Young Bulls ready for service, and stock all ages, second to none in Canada, for sale.



Large Improved
Yorkshires

Write for Bacon Pigs, all ages. Boars ready for service, etc

PRICES ARE RIGHT. Delivered Anywhere.

SILLS, SHAVER & SON,

WINCHESTER PRINGS, ONT.

JERSEY

COWS AND HEIFERS FOR SALE

Rich in St. Lambert blood at reasonable prices. Some heavy with calf. All registered in the A.J.C.C.

FOR FULL PARTICULARS

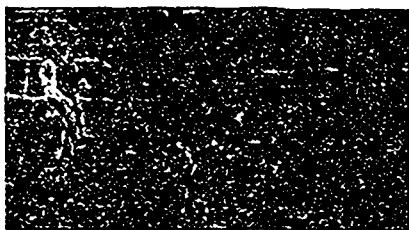
Address

J. J. KEATOR,

Deseronto, - - Ont.

Alva Farm

GUERNSEYS



Awarded first prize at Montreal for BREEDERS YOUNG HERD. Young animals of MERIT for sale. Pedigrees and particulars to parties wishing to purchase. Address, SYDNEY FISHER, Knowlton, Que.

CHOICE AYRSHIRE BULLS

FROM IMPORTED STOCK.

We offer for sale Three (3) BULL CALVES from 9 to 13 months old, sire and dams imported; also 6 calves from 1 to 4 months, good individuals and from the very best milking strains obtainable in Scotland.

W. W. BALLANTYNE,

(formerly Thos. Ballantyne & Son)

"Neidpath Stock Farm," Stratford, Ont.

Farm adjoins city main line G.T.R.

GALLOWAYS.

A. M. & R. SHAW, Brantford, Ont., Breeders of Galloway Cattle. Choice young animals for sale.

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

DEVONS.

W. J. RUDD, Eden Mills, Ont., Breeder of Devon Cattle, Cotswold and Suffolk Sheep, Berkshire Pigs, Plymouth Rock Fowls. Young stock for sale.

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 CATTLE, SHEEP, AND SWINE BREEDERS' ASSOCIATIONS.

Annual Membership Fees.—Cattle Breeders' \$1; Sheep Breeders' \$1; Swine Breeders' \$2.

BENEFITS OF MEMBERSHIP.

Each member receives a free copy of each publication issued by the Association to which he belongs, during the year in which he is a member. In the case of the Swine Breeders' Association this includes a copy of the Swine Record.

A member of the Swine Breeders' Association is allowed to register pigs at 50c. per head; non-members are charged \$1.00 per head.

A member of the Sheep Breeders' Association is allowed to register sheep at 50c. per head, while non-members are charged \$1.00.

The name and address of each member, and the stock he has for sale, are published once a month. Over 9,000 copies of this directory are mailed monthly. Copies are sent to each Agricultural College and each Experiment Station in Canada and the United States, also to prominent breeders and probable buyers resident in Canada, the United States and elsewhere.

A member of an Association will only be allowed to advertise stock corresponding to the Association to which he belongs; that is, to advertise cattle he must be a member of the Dominion Cattle Breeders' Association, to advertise sheep he must be a member of the Dominion Sheep Breeders' Association, and to advertise swine he must be a member of the Dominion Swine Breeders' Association.

The list of cattle, sheep, and swine for sale will be published in the third issue of each month. Members having stock for sale, in order that they may be included in the Gazette, are required to notify the undersigned by letter on or before the 9th of each month, of the number, breed, age, and sex of the animals. Should a member fail to do this his name will not appear in that issue. The data will be published in the most condensed form.

F. W. HODSON, Secretary,
Parliament Buildings Toronto, Ont.

LIST OF STOCK FOR SALE.

THE DOMINION CATTLE BREEDERS' ASSOCIATION.

Shorthorns.

Birrell, D	Greenwood	3 bulls, 11 to 17 months; young cows and heifers, all ages.
Bright, J	Myrtle	3 bulls, 10 to 13 months; 5 heifers, 2 years.
Brown, A. & D.	Irene	Bull, 18 months; heifer, 2 years.
Cargill, H. & Son	Cargill	Imported bull.
Davidson, J. L.	Balsam	4 heifers, 2 years and under.
Edwards, W. C.	Rockland	3 bulls, 1 year and over, 2 heifers, 2 years.
Graham, T.	Port Perry	Bull and heifers.
Gibson, J. T.	Denfield	5 yearling bulls; heifers.
Grainger, W. & Son	London	Heifers, 18 months to 2 years.
Hauser, I	Weisenberg	2 bulls, 10 and 11 months.
Johnston, A	Greenwood	5 bulls, 14 to 20 months; 11 heifers, 2 years; 5 heifers, nearly 22 months.
Leask, J	Greenbank	2 bulls, 13½ months.
McCallum, J. R.	Iona Station	5 bulls, 10 to 16 months; heifer, 2 years.
Miller, R	Brougham	Heifers, 2 to 3 years; 6 young bulls.
Miller, W.	Markham	Bull, 9 months.
Milloy, D	Paris	Bull, 20 months, 7 heifers, 11 to 32 months.
Robson, T. E.	Ilderton	Heifers, 2 years.
Russell, J	Richmond Hill	6 head.
Shaw, A. J. C.	Thamesville	Bulls, under 1 year; heifers.
Smith, A. W.	Maple Lodge	Young bulls, 10 to 20 months, bull calves; heifers.
Smith, H	Hay	Bull, 2 years; 2 heifers, 2 years; 2 yearling heifers.
Staples, F.	Ilda	Bull, 11 and 12 months.
Tolton, J	Walkerton	Bull, 9 months; bull, 4 years; 4 heifers, 2 years and under.

Polled Angus.

Bowman, J.	Guelph	Females, all ages.
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THE DOMINION SHEEP BREEDERS' ASSOCIATION.

Leicesters.

Garnham, E. A.	Straffordville	30 ewes; 1 shearling ram; 8 ewe lambs.
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Dorset Horns.

Bowman, J.	Guelph	Shearling ram; ram lamb; 7 ewes.
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THE DOMINION SWINE BREEDERS' ASSOCIATION.

Berkshires.

Hauser, I.	Weisenberg	27 sows, 4 and 5 months.
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Yorkshires.

Owens, Hon. W.	Montebelle, Que.	8 sows.
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Tanworths.

Owens, Hon. W.	Montebelle, Que.	4 sows.
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INSTITUTE MEETINGS.

The following is the average attendance at meetings, reports of which have been received since the last list published:

Bruce, North	31
Bruce, West	37
Grey, Centre	56
Grey, North	47
Lambton, East	125
Leeds, South	205
Manitoulin, West	47
Middlesex, North	113
Simcoe, Centre	36
Victoria, East	87

Waterloo, North	127
Wellington, West	226
Wellington, Centre	91
Welland	101
Wentworth, North	159
York, West	140

The following is a list of the members received since the last list published:

Bruce, North	14
Bruce, West	43
Dufferin	43
Durham, East	3
Grey, Centre	76
Huron, West	11
Leeds, South	12

Manitoulin, West	86
Middlesex, North	172
Northumberland, West	3
Peterboro, East	3
Simcoe, Centre	92
Victoria, East	1
Waterloo, North	41
Welland	78
Wellington, Centre	30
Wentworth, North	99
York, West	27

A portion of the Annual Report of F. W. Hodson, Secretary of the Dominion Cattle, Sheep and Swine Breeders' Associations will be published each week in the *Ontario Agricultural Gazette*.

REPORT OF THE SECRETARY.

A review of the work of the Live Stock Associations during the past year must necessarily deal with the following subjects: Interprovincial trade—and inseparably connected therewith are transportation and the publication of the *Ontario Agricultural Gazette*; second, the growth of the Associations; third, the Provincial Winter Show; fourth, the financial statement, and in the case of the Swine Breeders' Association, the Swine Records. At the end of the report are made suggestions regarding future work.

INTERPROVINCIAL TRADE—TRANSPORTATION.

During the past year purchasers of pure-bred stock, taking advantage of the cheap rates obtained from the railway companies by the Transportation Committee of the Live Stock Associations, have been able to have stock delivered to them at a cheaper rate than ever before. This reduced rate has also been of such service to breeders all over the Province in getting buyers for their surplus stock that during the past year stock was bought up so closely that really good animals could only be purchased at high figures, and very little was for sale at any price. This was in a great measure directly due to the reduced rate. The one-half rate on local shipments in Ontario was of great advantage in assembling small lots for making up a carload for the East or for the West. It is estimated by persons in a position to speak with authority that the reduced rates have been the means of increasing the interprovincial and local trade in pure-bred stock at least five-fold. Shipments of stock are being made from Ontario, east and west, to Newfoundland and to British Columbia. Nothing during

GAZETTE—Continued.

past years has been so great an incentive to the sale of pure-bred stock in Ontario as the rates now in force, obtained by the Transportation Committee of the Dominion Live Stock Associations.

SPECIAL REDUCTIONS AND CONCESSIONS LATELY OBTAINED.

The carload rate on pure bred live stock to British Columbia has been reduced by about sixty dollars. The rate to the Pacific Coast has hitherto been so excessive that sales to British Columbia have been comparatively light. A number of enquiries have been received from breeders in British Columbia, but the rates for transportation have been so high as to be prohibitive, except in a limited number of cases. With the reduced rate from Ontario, the trade with this province should be greatly increased.

L. C. L. LOTS OF SHEEP AND SWINE TAKEN WITHOUT BEING CRATED

Arrangements have just been completed with the trunk lines so that less than carload lots of calves, sheep and swine, consisting of over three may be loaded in a car without being crated, simply being penned off in one end of the car.

After a good deal of correspondence and communication between the Live Stock Associations and the Government of the Northwest Territories an agreement has been arrived at whereby one thoroughbred bull for any *bona fide* settler in the Northwest Territories will be delivered at any point in the Territories from any point in Ontario for the sum of five dollars.

Fuller particulars regarding the above concessions will be given further on.

(To be continued)

IMPROVED LARGE YORKSHIRES

A few good Boars fit for service. Must be sold at once to make room for sows about to farrow. A inch if taken at once. Orders booked for March pigs from such sires as Mollinet's Jones-3015- and Victor Hugo-3205. Pairs not akin, or single

L. R. GERS,

Cooksville,

Station C.P.R., Tel. and P.O.

Port Credit, G.T.R.

HIGHEST TYPE OF BACON HOGS...

Oak Lodge Herd of Large Yorkshires

The Largest Herd of Pure-Bred Yorkshires in America.

This herd 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 imported stock boars 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 all ages for sale.

J. E. BRETHOUR, Burford, Ont

Sheep, Cattle, Calf and Hog Labels.

Send for circular and prices.

R. W. JAMES, Farm Implement Forwarding Agency, Bowmansville, Ont.



...POULTRY...

BUFF ROCKS

The coming breed; very popular. All my stock the same blood as the best prize winners as the Toronto Exhibition last year.

PRICES.

Best cockerels, \$10 each; ordinary cockerels \$2 each. Pullets and hens have all been sold. Settings: 13 eggs \$2; 26 eggs \$3.50.

BELGIAN HARES (Solid Colour)

from Imported Stock, \$3 a pair. (Full brothers and sisters sold at \$40 a pair.)

ADDRESS:

R. F. HOLTERMANN,

BRANTFORD, ONTARIO, CANADA.

BARRED PLYMOUTH ROCKS

In the pen a cock and four pullets, purchased and selected for me by the well known poultry expert, Mr. Jarvis, of the Ontario Agricultural College, Guelph, who has also acted as judge for many years in the leading poultry shows of Canada and the United States. The Cock is Thomas's, bred at Canton, Ohio, it won first as a cockerel. Again under bridge it this year tied for 1st place for cock in very strong competition. One pullet took 1st at Canton, Ohio, the other was one out of the pen which took first for the best breeding pen. The cock was also pronounced by Mrs. Comyns-Lewis, editor *Feather World*, London, Eng., who visited the great Toronto Poultry Show this year, as the most perfect type of Barred Rock she had seen on the American continent.

Settings. 13 eggs \$2, 30 eggs, \$4. Best cockerels, \$10 each. A few culls left \$3 each. No pullets or hens for sale.

SUNNYSIDE POULTRY YARDS

I have for sale the following varieties of the richest strains of blood that can be produced, winning 4th Prizes at the following shows. Toronto Industrial Provincial, Quebec, Galt, Dumbo, Paris, Brantford and Burford. Winter Shows:—Ontario, Galt, Brantford and Hamilton.

Choice S.G. and W. Wyandottes, Light Brahmas, Black Langshans, Black Javas, Black Minorcas, Cornish Indian Games, B. B. R. Games, S. G. Dorkings, Brown S. C. Leghorns, Barred, W. and Buff Plymouth Rocks, W. C. Polish, Australians, Housans, B. B. R. Game and Pyle Bantams, M. B. Turkeys.

T. A. COX, - Brantford, Ont.

CHOICE BERKSHIRES FOR FEBRUARY

2 good young BOARS, 10 months old, weighing about 220 lbs. each, at \$12. Must go to make room for young pigs. 4 choice SOWS, about same age, due to farrow in April and May. Bred to a grand young boar from Imported Sire and Dam. Price \$18. Also fine lot of Boars and Sows 4 months old.

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Paris Station, G.T.R. Canning P.O., Ont.

A. ELLIOTT, Pond Mills, Ont.

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Barred Plymouth Rocks, Silver Wyandottes and S. C. W. Leghorns at \$1.00 per 13. Also Pekin and Rouen duck eggs at \$1.00 per 11. Four settings of any one or all varieties for \$3.00. Orders booked now. Satisfaction guaranteed. All hens are selected with a view to large egg production as well as quality.

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BOOK ON POULTRY and Almanac for 1899, 100 pages, 100 illustrations of birds, incubators, brooders, poultry houses, etc. Tells how to raise chickens successfully, their care, diseases and remedies. Diagrams with full descriptions to build poultry houses. All about INCUBATORS, BROODERS and Fancy Poultry, with lowest prices. Price only 15c. C. C. Shoemaker, Freeport, Ill., U. S. A.

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Published every Tuesday by

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MARKET REVIEW AND FORECAST.

Office of FARMING,

44 and 46 Richmond street west,

Toronto, Feb. 27th, 1899.

One of the features in the general trade conditions of the country during the week is the improvement in wool and cotton. There is an increased activity in the wool and cotton mills, which are said to be full of orders. The money market keeps pliable, which is an incentive to the speculative spirit. In fact, this speculative spirit seems to pervade the business community to a very large extent just now. Whether it is the best thing that could happen remains to be seen.

Wheat.

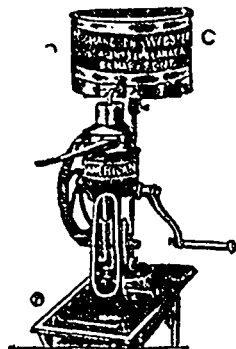
The wheat market conditions have not radically changed during the week, and, unless the next few weeks bring unfavorable reports of the crop promise for 1899, there is very little hope of any marked change in values for some time. The *Cincinnati Price Current* of last week says: "The uncovering of the wheat fields has not brought much of new evidence as to the prevailing situation of the plant. The indications are that the crop has but moderately suffered from the recent cold weather conditions. In many instances there is less freshness of appearance, but this does not imply disturbance of vitality of the plant. Taken as a whole, the position of the crop rarely averages better at this time in the season. It is now entering the period which is ordinarily the most trying, under freezing and thawing changes."

The Liverpool and Chicago markets have ruled active during the week with a slight advance in values. The *Trade Bulletin's* special London cable of Feb. 23rd reads: "The market has ruled steady on the Baltic, and more active business has been done. Floating cargoes have met with more enquiry at better prices." The grain movement in the United States has been irregular owing to the bad condition of the roads. Prices for spot wheat at Montreal are merely nominal, but at Ontario points sales of red winter for spot are reported at 69c. high freights. The offerings here have not been very liberal, but there is a fair demand and the market is steady at 99½ to 70c. for red and white west, and 60 to 70c. for goose, with No. 1 Manitoba quoted at 81 to 82c. at Toronto, and No. 1 Northern at 78½c. On the local markets here red and white bring from 73½ to 74½c.; spring five 71½ to 72c., and goose 71 to 72c. per bushel.

Oats and Barley.

Considerable interest is being taken in the oat market just now by dealers. It is claimed that there is still considerable oats in second hands, though it is felt that as farmers have been marketing pretty freely of late their supply is not large. Our market is governed

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Is considered such a great machine.

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Richardson & Webster,

ST. MARYS, ONTARIO

largely by the Old Country markets, from which a steadier feeling and improved values are reported. There is a firmer feeling in oats at Montreal where quotations are 33 to 33½c. for No. 2 white. There has been very little offering on this market where quotations are 29 to 29½c. west. On the local market they bring from 34 to 34½c. per bushel.

The Montreal barley market is quiet at 55 to 57c. for malting purposes. The market here is also quiet at 46 to 47c. west.

Peas and Corn.

The London, England, market for peas is reported firm under light supplies. Peas are very firm at Montreal. The quotations there are 72 to 73c. in store. Peas are reported to be very scarce here, and quotations are 65½ to 67c. west. Locally peas are quoted at 64 to 65c.

The Montreal market for corn is quiet at 44 to 45c. for No. 2 American mixed. Canadian yellow west is quoted here at 36c., but very little is to be had, and American is quoted at 42 to 45c. on track here.

Bran and Shorts.

At Montreal these are higher at \$15.00 to \$15.25 for bran; \$16.00 to \$17.00 for shorts, and \$16.00 to \$17.50 for moullie. City mills sell bran at \$14.50. and shorts at \$16.50 f.o.b. Toronto.

Clover and Timothy Seeds.

The Montreal market is steady at \$1.60 to \$1.75 per bush for Ontario timothy, \$1.25 to \$1.50 for American; \$4.25 to \$5.00 for red clover; \$4.00 to \$5.00 for Alsike. Timothy seed west of Toronto is quoted at \$1.40 to \$1.45 f.o.b. On the local markets here red clover brings from \$3.37 to \$3.80; white clover, \$5.00 to \$8.00; Alsike, \$3.00 to \$4.20, and Timothy \$1.20 to \$1.35 per bushel.

Eggs and Poultry.

The British egg markets are weaker owing to liberal supplies. At Montreal there is a kind of uncertainty about the market which is usual at this season of the year. Strictly new laid are quoted there at 20c. to 21c. and straight candled at 15 to 16c. There is a good demand here for new-laid at 20c., other kinds bring from 14 to 16c. On the local market new-laid bring from 20 to 25c. per dozen.

Dressed poultry at Montreal is quiet, but steady. Choice fresh turkeys bring from 10½ to 11c.; chickens from 7 to 8c.; geese 4 to 6c. and ducks which are scarce 8 to 9c. per lb. Receipts are not large here and the market is steady at 10 to 12c. for turkeys and 6 to 7c. for geese; 50 to 80c. per pair for ducks and 40 to 70c. for chickens. Prices on the local market are a shade higher than these figures.

Potatoes.

The Montreal market is easier owing to more liberal receipts at 53 to 55c. per bag in car lots. The market here is quiet at 60 to 65c. per bag for cars on track and 75c. out of store. On the local farmers' market they bring from 80 to 85c. per bag.

Fruit.

The Montreal market is firm, with quotations the same as last week. Apples on the

local market here bring from \$2 to \$3.50 per barrel.

Hay and Straw.

The hay market is in a very unsatisfactory condition, and prices are about as low as they could very well be, and there is very little prospect of their being any higher unless the railroads and ocean steamers reduce their export freight rates considerably. The duty prevents any business being done in the United States. The quality of the hay this year is good, and if it could be exported at a profit would give good satisfaction in Great Britain. Farmers, as a rule, are unwilling to take present values. At Montreal baled hay is quoted at \$4.50 to \$5 for No. 2, while choice quality brings from \$5.50 to \$6, and clover \$3.50 to \$4. Cars on track are quoted here at \$7 to \$7.50, and baled straw at \$4 to \$4.50. On the local market timothy brings from \$8 to \$9.50, clover \$6 to \$7; straw sheaf \$6 to \$7, and loose straw \$4 to \$5 per ton.

Cheese.

The London, Eng., market is dull, but owing to short supplies holders are not forcing sales. Finest Canadian Septembers are quoted at 50 to 51s. The Montreal market is quiet and somewhat unsatisfactory to holders, as the market is being supplied by early cheese held there for English account going forward which cost from 40 to 42s. Until this is worked off dealers will not be willing to pay 50s. for line goods. Finest westerns are quoted at 9½ to 9¾c., and finest easterns at 9½ to 9¾c. The total shipments from Montreal from May 1st, 1898, to the present time amount to 2,164,106 boxes, as against 2,441,789 boxes for the same period a year ago, showing a decrease of 277,683 boxes. The total shipments from New York for the same time amount to 353,380 boxes, as compared with 656,733 boxes for 1897, a decrease of 303,353 boxes, thus making the total decrease from both places 581,036 boxes.

Butter.

The *Trade Bulletin's* special London cable of Feb. 23rd reads: "The market is weak and lower, and, with more liberal receipts, holders are anxious to realize. Prices have declined 2s., and still lower prices expected. Finest Canadian creamery, 92s. to 94s., with fancy mild salted parcels quoted at 96s. to 98s." While the Old Country market is weaker, the Montreal market has ruled firm, owing to the scarcity of supplies, but the demand is chiefly for the local trade. Quotations are: Choice creamery, 20 to 20½c.; good to fine, 19 to 19½c.; fair, 18 to 18½c.; and western dairy, 13½ to 15½c. Exporters are paying 20c. for strictly fancy lots, and are giving about 19c. in the country. The total shipments from Montreal from May 1st, 1898, to date amount to 350,742 packages, as compared with 255,074 packages for the same period last year, an increase of 95,668 packages. The shipments from New York for the same time show a decrease of 57,863 packages, making the increase from both places only 37,805 packages. New York's largest shipments have been during the past few months.

Cattle.

The Chicago market has ruled dull during the week, and the quality of the stuff offered has been poor. There is a good demand for really fine, heavy cattle, but they seem to be scarce. Better trade is reported from the Old Country markets. The quality of the fat cattle offered on this market is only fair, and on Friday the run of live stock was light. There are not enough finished cattle coming forward. Trade generally was good and prices firm.

Export Cattle.—Choice loads of these bring from \$4.75 to \$5 per cwt., with some picked lots fetching 10 to 15c. more. Light exporters sell from \$4.40 to \$4.60 per cwt. Choice heavy export bulls bring from \$3.60 to \$4, and medium ones from \$3.25 to \$3.50 per cwt.

Butchers' Cattle.—Choice picked lots of these equal in quality to the best exporters, but not so heavy, sold for \$4.15 to \$4.30 per cwt. on Friday. Good butchers' cattle bring from \$3.80 to \$4, and medium \$3.50 to \$3.70 per cwt.

Stockers and Feeders.—These are scarce at the Western cattle markets. On this market Buffalo stockers were in fair demand on Friday at \$3.40 to \$3.75 per cwt. Stock heifers weighing about 500 lbs. each bring from \$2.60 to \$2.85 per cwt. Very few feeders are coming forward, but choice bred steers weighing from 1,050 to 1,150 are worth from \$3.80 to \$4 per cwt.

Calves.—There has been a good supply of these at Buffalo during the week. Prices here are \$2 to \$7 each or \$5 per cwt. for choice heavy veals of good quality.

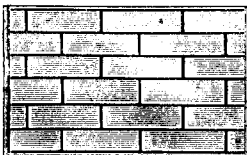
Milk Cows and Springers.—These bring from \$30 to \$44 each as to quality.

Sheep and Lambs.

There has been a fair supply at Buffalo where prices are steady. The Chicago market has been dull and sluggish especially for lambs. On this market ewes bring from \$3.25 to \$3.50 and bucks from \$2.50 to \$2.75 per cwt. The quality of the yearling lambs offered are only medium and prices were a little easier on Friday at \$4.25 to \$4.50 per cwt.

Hogs.

The offerings of these have been fair and prices a shade lower than a week ago. Choice select bacon hogs weighing from 160 to 200 lbs. each off cars bring \$4.37½; light hogs, \$4, and thick fats, \$3.75 per cwt. The Montreal market is also easier at about \$4.25 for choice bacon hogs. It is expected that values will be lower this week on this market. The English market for Canadian bacon has gone back 2s. and a dull tone prevails owing to the large arrival of Danish goods.

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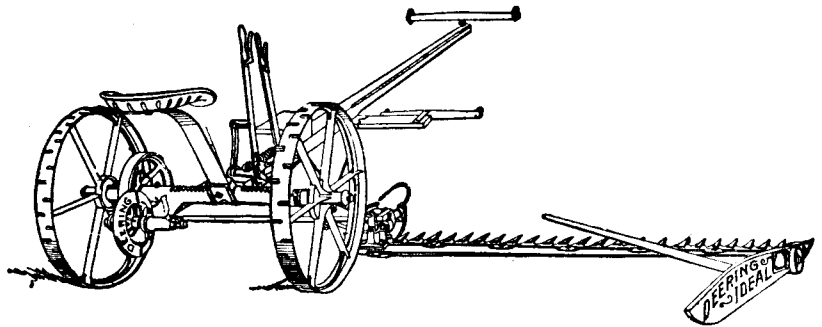
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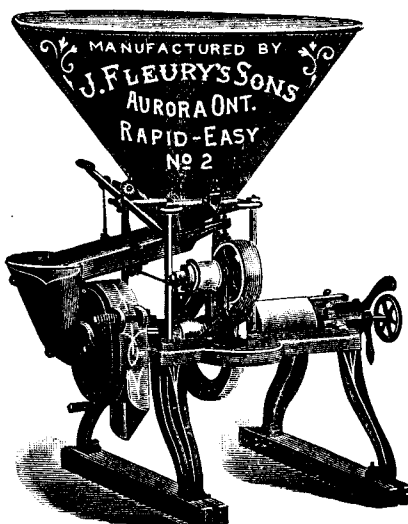
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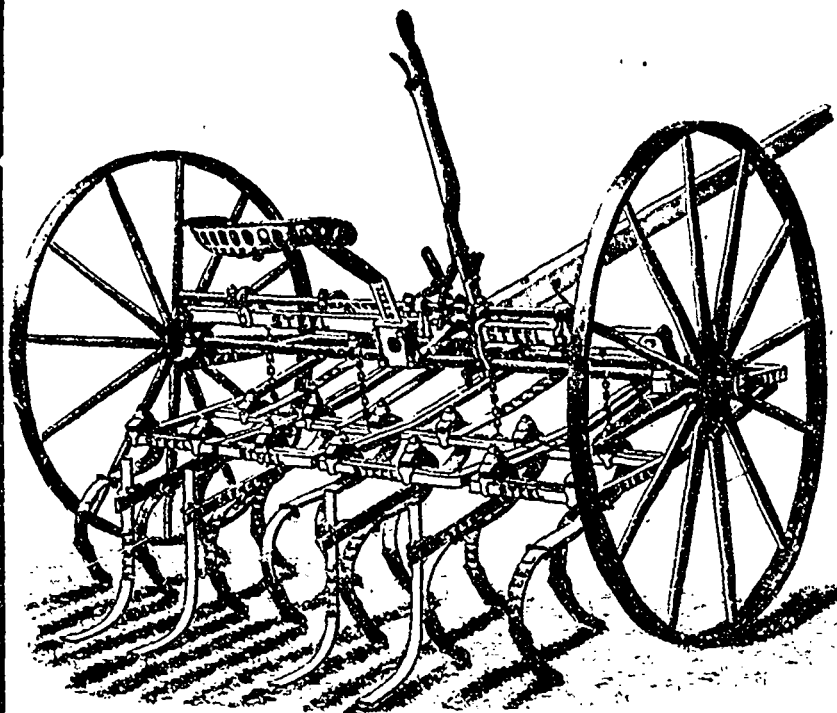
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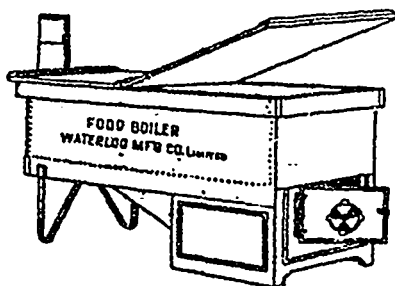
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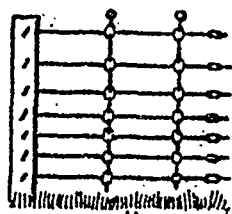
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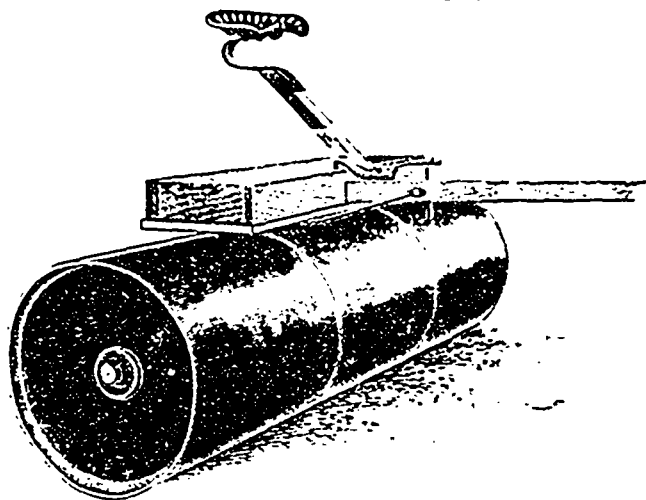
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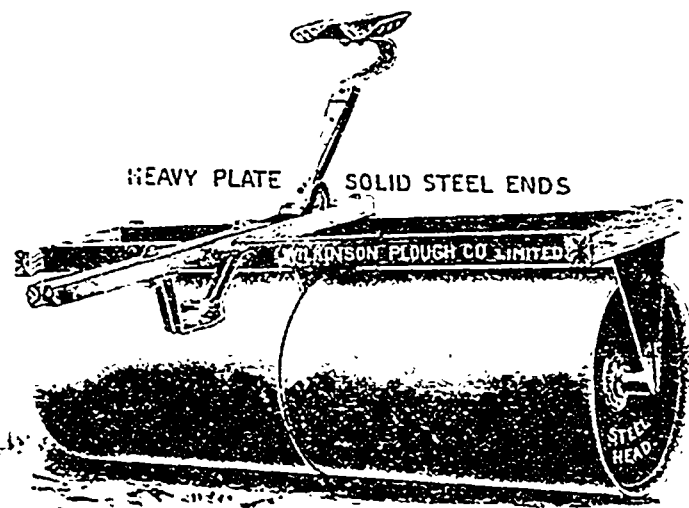
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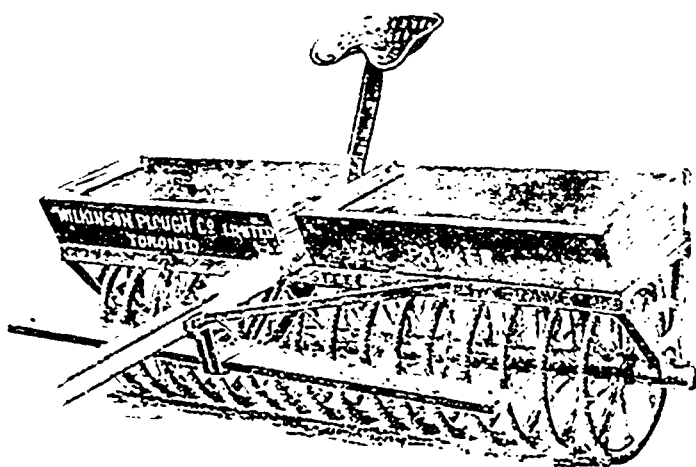
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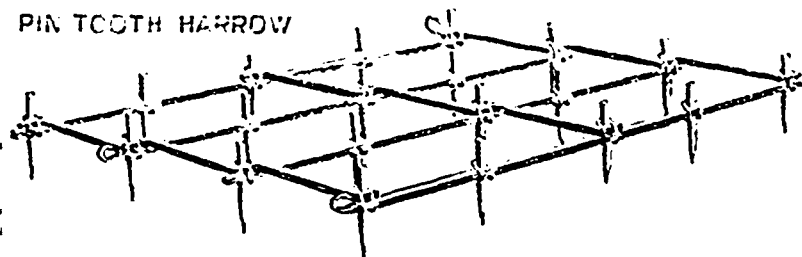
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