Technical and Bibliographic Notes / Notes techniques et bibliographiques

copy availa may be bib of the imag	te has attemped to for filming the for filming the first the representation of the first the fir	ng. Feature y unique, w roduction,	es of this on thich may or which	copy wi alter au may	hich ny		ic b r d	ui a ét xemp ibliog eprod	té poss laire q graphic uite, c méth	sible de Jui sont Que, qui Du qui p	se procu peut-êtr peuven peuvent (irer. Les e unique t modific exiger un	kemplaire détails d es du poin er une im- ne modifi sont indi	e cet it de vu age cation	l 0
	ureal covers/ erture de cou	ileur								ed page le coule					
1 1	rs damaged/ erture endom	nma gée							_	iamaged endomm					
, I	rs restored an erture restaul								_			laminate pelliculé			
1 1	r title missing tre de couvert	•	ie						_		-	ned or fo etées ou			
1 1	ured maps/ s géographiq	ues en coui	eur					•	_	letached létachée					
1 1	ured ink (i.e. e de couleur (• • •	e)					hrough/ arence					
1 1	ured plates an thes et/ou illu								•		nt varies, e de l'im	/ pression			
1 / 1	d with other avec d'autres	=	ts							uous pa	gination Itinue	n/			
along	binding may interior mar liure serrée p	gin/						•		es index end un	(es)/ (des) inc	dex			
	rsion le long (_									r taken i 1-tête pr				
withi been	k leaves added in the text. We omitted from	Vhenever po n filming/	ossible, th	nese hav	e				-	age of is e titre d	ssue/ e la livra	nison			
lors c mais,	peut que cert l'une restaura lorsque cela	tion appar	aissent da	ans le te	xte,				_	n of issu le dépar	ıe/ t de la li	vraison			
pas e	té filmées.							ı	Aasthe Généri		riodique	s) de la l	livraison		
1 1	tional comme mentaires sup	•	re s:												
	s filmed at th nt est filmé a					22011 <i>2</i>									
10X		14X		18X	,		22X			2	6X		30×		
													1		
	12X		16X			20X	_		24X			28X	•		32X



February 14th, 1899.

It depends on the **Process**

Used in the manufacture of salt whether the production is of the highest grade or not.

The "Vacuum Process" for making salt is the most modern and scientific.

It makes a finer and purer salt, most readily dissolved, and perfectly even in crystal.

Windsor Salt...

MANUFACTURED BY THE WINDSOR SALT CO, LIMITED, WINDSOR, ONT.

HORSEMENT THE ONLY GENUINE IS



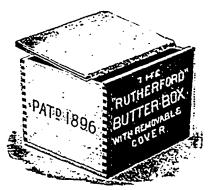
thest HLISTER ever used. Takes the place of all ments for mild or severe action. Removes Runches emuhes from Horses and Cattle. SUPER-SLIBES ALL CAUTERY OR FIRING. Impossible produce scar or blemish. Write for circulars. It is 150 per bottle, express prepaid

THE LAWRENCE-WILLIAMS CO.,

21 Front St. W., Toronto, Ont.

LUMP JAW

NOW CURABLE.
Surely, quickly and for good,
FLEMING BROS., Chemists,
St. George, Ont., have a remedy that quickly cures the
most obstinate cases. Supplied by mail under a positive
guarantee. Price, \$2.00.
Valuable information and full
particulars FREE.



Made of Kiln dried spruce. Smaller at bottom All boxes parallined lined. For sale by Davry Supply Furnishers and Produce Dealers.

Wm. Rutherford & Sons

Popular

OUR

Metallic

Ceilings

Walls



Offer more good features than any other interior finish, with an any of the drawbacks

They are economical-durably beautiful sanitary easily appred easily cleaned-and never crack or

We will send an estimate if you give us an outline showing the shape and measurements of your ceilings and walls.

Your satisfaction is sure.

METALLIG ROOFING GO

1192 KING ST. W.

Breeders and W. C. EDWARDS & CO.

PINE GROVE STOCK FARM.

Rockland, Ont.
On the C.P.R. and G.T.R. Railways.
Special bargains on young bulls of superior merit and select Scotch breeding Also thick young beifers at the right prices. right prices.

Ayrshires, Jerseys, Shropshire Sheep, and Clydesdale Horses.

Post Office, Telegraph Office, and Steamboat Landing, Rockland, Ont., on the C.P.R.

J. W. BARNET,

Manager.



..... Importers LAURENTIAN STOCK and

DAIRY FARM, North Nation Mills, Que.

NOTER NATION Mills, Que.

Ayrahires, imported and homebred herd headed by imported Tam Glen 2nd, No. 1310 D. A. H. B. Jerseys all of the celebrated St. Lambert family, herd headed by Lisgar Pogis of St. Anne's 23704 A. J. C. C. Herkshire Pigs. Young stock of all the above breeds for sale.

Post Office, Telegraph Office, and Railway Station. North Nation Mills, P.Q., on the C.P.R.

A. E. SCHRYER.

Bryant Press

44-46 Richmond Street West Toronto.

CHOICE AYRSHIRES FOR SALE

A num-ber of choice Spring Calves sired by Douglas of Loudoun (1384), from deep milking dams.



Prices and terms rea P. W. TAYLOR,

Write for particulars Wellman's Corners, Cnt. Hoard's Station. G.T.R.

GLENHURST HERD OF AYRSHIRES.

Noted prize Noted prire-win ner s. Choice quali-ty and heavy milking fami-lies. Extra fine young animals of both sexes for sale. Also Loicester Bheep and Berkshire Swine.



DAVID BENNING,

...GOLDFINDER, Imp...

-HBADS OUR AYRSHIRE HERD-

We have for sale: five choice young bulls fit for service, two by the noted stock bull "Matchiess," also some good females of all ages. We have a few choice Clydesdales on hand. Correspondence solicited and Visitors Welcome.

R. NESS & SONS, Howick, Que.

MAPLE CLIFF STU AND DAIRY FARM

STOCK FOR SALR

Ayrabires, Berksbires, Tamworths and Poland China.

Three young bulls fit for service and buil caives.
We are now booking orders for spring pigs. A few Tamworth bears from full litters.

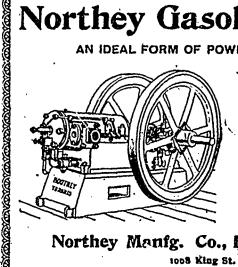
R, REID & CO.,

Farm one mile from Ottawa.

Bintonburg, Ont. Street Cars to Farm.

Northey Gasoline Engine

AN IDEAL FORM OF POWER FOR THE FARM



Simple, Strong, Economical. No handling of fuel. No smoke stack to throw sparks. No danger of explosion. Can be readily moved about from one place to another, and will do with the greatest case all that the windmill or steam engine could do, at a far less cost.

Our booklet tells all about it. Write for it.

Northey Manfg. Co., Limited, Toronto

1008 King St. Subway

y water wate

EAST TORONTO (Coleman P. O.

W. E. H. Massey, Proprietor

Dentonia Jersey Herd

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

Dentonia Poultry Yards

Handsome White Leghorn Cockerels (from Wyckoff eggs), also Brown Leghorn Cockerels for sale.

Dentonia Trout Ponds

"Eyed" Trout Eggs, also yearling and two-year-old Brook Trout for sale. Market trout supplied in season.

Address DENTONIA PARK FARM, Coleman, Ont., Canada Yanda kandanganganganganga biy biyanganga masangangan banga bandangangangangangan biyang

Over all Competitors at the World's Fair, Chicago, 1893.

IF your land is UNLEVEL, the F. & W. will level it for you.

your land is clay and baked in hard lumps the F. & W. will pulverize it for you.

you want sod cut and turned the F. & W. will do it to perfection.

IF you have scutch grass that nothing else will cut, the F. & W. will cut it for you.

IF you have tried other Disc Harrows with poor success, do not be discouraged, the F. & W. will SUCCEED where all others have failed.

16-Inch

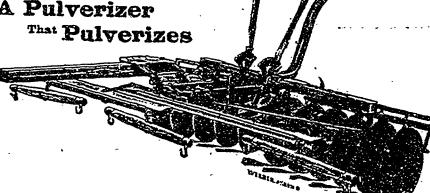
18-Inch

and

20-Inch

DISCS

2, 3 or 4 horse hitch. A Pulverizer That Pulverizes



CUTS

6-ft., 7-ft.

and

8-ft. wide.

Ball Bearings.

Double

Levers.

Windsor Disc Harrow-Front View-Showing Pole Adjustment for three horses, and device for keep ing the Sections level with Tongue at any angle. Can be adjusted instantly for 2 or 3 horses without removing the pole

. Manufactured by THE FROST & WOOD CO., Limited

SMITH'S PALLS. ONT.

Branch Offices: The Frost & Wood Co., Limited, 77 Jarvis St., Torowto, Ont.
The Frost & Wood Co., Limited, Market Square, Winniers, Man. Local Agencies throughout the Dominion. Send for Illustrated Catalogue, and when writing mention FARMING.

FARMING

Vol. XVI.

FEBRUARY 14th, 1899.

No. 24

Agricultural News and Comments

A course of instruction in poultry culture at the Rhode Island College of Agriculture began on Jan. 9th last and will continue for four weeks. The number of applications is about double what can be accommodated.

Careful weighing shows that an ordinary bee, not loaded, weighs the 5 1000 part of a pound, so that it takes 5,000 bees to make a pound. But the loaded bee, when it comes in fresh from the fields and flowers, freighted with honey or beebread, often weighs nearly three times more.

The Umbrian cattle are snow-white, and form a lovely bit of landscape; but cows, as well as oxen, are yoked to the plow, and are never sent to pasture. In fact, there is no pasture land for them, and at sunset peasants are to be seen up in trees stripping off their leaves and filling sacks with them for their stable-fed cattle.

In the test every apple with a worm hole or in the least bit scabby was rejected. The beneficial effect on foliage was most marked, and incidentally good work was accomplished against tent caterpillars and other injurious insects. The formula used was 4 pounds lime, 4 pounds copper sulphate, 40 gallons water, and 4 ounces paris green.

The following is considered a very good formula for curing hams and shoulders: To every 100 lbs. of hams take best coarse salt, 8 lbs.; saltpetre, 2 ozs.; brown sugar, 2 lbs.; water, 4 gals. Mix the above, and pour over the hams after they have lain in the barrel two days. Let the hams remain in the brine six weeks, and then drain several days before smoking.

In Russia the wages of a horse are higher than those of a man. In the Volga district the average pay of a man and horse is about 72 cents per day; of the man alone 34 cents, leaving 38 cents for the horse alone. The women receive from 10c. to 20c. per day. In the central agricultural district the average is: Horse, 23 cents; man, 20 cents, woman, 13 cents. In the southern steppe. Horse, 36 cents; man, 25 cents; woman, 16 cents.

The complaint comes from London, England, that samples of No. r hard Manitoba offered for sale there are not up to the standard, and it is suggested that there may have been some mixing at the elevators before shipping. If there is any ground for this complaint it is unnecessary to point out the danger there is in this to the Canadian producer. The question should be investigated in the interest of the Canadian farmer.

Prof. Thos. Shaw, of the University of Minnesota, enumerates the following as among the causes of weakened stamina in purebred stock: Lack of exercise, forcing foods, in and out breeding and breeding too early. In selecting from registered families, inquiries as to individuality are as important as any other that can be made. Unless the boar individually is what he should be his prepotency, resultant from purity of breeding, may be an actual disadvantage, for it makes him effective in the transmission of weaknesses which farmers want to keep out of their herds.

A farm credit system has been inaugurated in France by which any farmer may borrow money on the security of the produce of his own holding by a warrant or bond payable to bearer, notwithstanding that the said produce remains in his own barn or storehouse. This does not prevent the producer from selling his produce when he pleases provided he sells for cash on delivery and that he uses such cash to redeem his warrant and retains only any surplus after it is paid. This is a "boom" to small land holders who are plentiful in France.

The beneficial effects of spre ing are clearly shown in the report of Wm. Orr, Superimendent of Experiments for 1898. On one orchard the results in perfect fruit were as follows:

	Sprayed clean.	Unsprayed.
Snow apples	. 64 per cent.	I per cent.
Ben Davis	. 100 per cent.	28 per cent.
Wagner		9 per cent.
Greening	88 per cent.	24 per cent.
Spy	. 100 per cent.	36 per cent.

Ergot is a fungus growth, and may often be found on cereals and grasses. If an ergotized plant is examined it will be noticed that some of the seeds are replaced by a small, blackish, and bonelike growth, usually longer and considerably stouter than the normal seeds. These growths are the resting spores or winter seeds, as it were, of the fungus; and they will germinate in spring under favorable conditions exactly as other fungus spores do. The consumption of these growths causes mortification and premature birth. If the ergot is ground up and cooked with the food the effect is not so serious.

Mr. T. J. Dillon, Charlottetown, P.E.I., formerly Dairy Superintendent for the Island, has been on a visit to Ontario during the past few weeks attending the dairymen's meetings. He reports dairying as progressing on the Island. Some 7,000 more boxes of cheese were made in 1898 than in 1897, besides a large quantity of butter. Early in January Mr. Dillon addressed the Vermont Dairymen's Convention at St. Johnsbury on "Cheesemaking." A Vermont exchange speaks of his address as follows: "It was conceded to be the best paper on the subject ever given before the association." That such a statement should be made is not at all surprising to those who know Mr. Dillon's work as a dairyman. He is one of the best all-round cheese and outter-makers in Canada.

Canada's Live Stock Interests

Canada's live stock interests are of prime importance. This fact was never more clearly demonstrated than at the various breeders' meetings held in Toronto last week. At no other time, perhaps, in the history of the organizations represented have there been such satisfactory reports of the year's work presented. Every association reported progress, and none more notably than the Dominion Shorthorn Breeders' Association, which reported an increase of over 1,200 registrations during the year over the number in 1897. The increase in membership and registrations of pure-bred stock in the other associations is also noteworthy, indicating that Canada's important live stock interests have undoubtedly entered upon a new era of prosperity and development.

One of the important fea ures of the year's work has been that of amalgamation and the bringing of the live stock interests of the various parts of the Dominion under central control. A couple of weeks ago we published in

detail the proceedings connected with the amalgamation of the various Ayrshire associations. During the year the Shorthorn Association has secured control of the P. E. 1. Herd Book, so that there is now only one Shorthorn record for the Dominion. The beneficial effect of this work will be more noticeable, perhaps, a couple of years hence, when the stability which one uniform record for the Dominion will give the industry will be more fully recog-At the Holstein-Friesian meeting an amalgamation of a wider nature was suggested, that of having one record for Canada and the United States. While it is of the greatest advantage to the various pure breeds that there should be only one record in the Dominion, it is a debatable point whether it would be an advantage to extend the amalgamation beyond the border.

At the Dominion Shorthorn and Dominion Cattle Breeders' meetings strong resolutions were passed, urging upon the Dominion Government to allow all pure-bred cattle to come into Canada from Great Britain without a test for tuberculosis being applied. Our trade in pure-bred cattle, particularly of the beef breeds, after a few years' depression, has revived, and was never, perhaps, more promising than at the present time. The one thing, above all others, which seems to be hampering it at the present time, and which makes breeders and importers doubtful as to the future, is the application of the tuberculin test to stock brought into the country from Great Britain. This matter is more serious than those not directly interested are aware of. It was the almost unanimous opinion of the stockmen who visited Toronto last week that unless the Government does something, and that right away, to remove the too stringent regulations regarding the testing of imported cattle for tuberculosis the beef cattle trade of this country cannot be developed as it ought to be. So much doubt has been cast of late on the efficacy and reliability of the test to locate tuberculosis that the demand of the stockmen to allow pure-bred cattle to come into this country without being tested could be granted without endangering the public health in any way. Only last week an important committee of live stockmen at Buffalo made a similar protest to Washington against Senator Wills' bill for a tuberculin test of all cattle imported into the United States, for the reason that it would seriously hamper the cattle industry of that country.

No more important work has been done during the year than that accomplished by the Dominion Cattle, Sheep and Swine Breeders' Associations, chiefly through their efficient secretary, Mr. F. W. Hodson, in developing interprovincial trade and securing reduced rates on the railways for carrying pure-bred stock to and from the various provinces of the Dominion. The special privileges secured cannot help but stimulate interprovincial trade. The distances in Canada are so great that, unless something of this nature is done, this important trade cannot develop, as there is every prospect of it now doing. To give an idea of the privileges secured it is only necessary to state that, while formerly it would cost \$18.10 to send a bull, under six months old, from Toronto to Winnipeg, under the new arrangements such an animal can be carried the same distance for \$8. Half rates have been secured for all pure-bred stock going over the railways east of Fort William, besides special rates to Newfoundland. No greater work has ever been done for the breeders of this country than this. The regulations governing these special rates have been worked out in detail, and will be published shortly for the benefit of breeders.

Another important work has been the publication of the monthly lists of stock for sale. These lists have been sent to prospective buyers in the outlying districts of the provinces of the Dominion as well as in the United States and other countries. They have greatly encouraged provincial trade and made it possible for purebred stock to be shipped by the associations in car lots so as to secure the very best railway rates obtainable. A very important line of work has been planned by the Swine Breeders' Association with a view to ascertaining by experiment and observation the best way to feed hogs to produce the best

quality of bacon. There is much to be learned on this line, and this experimental work will be both timely and valuable.

There are other features of the work that has been carried on by our live stock associations and planned at the recent meetings which it would be profitable to discuss; but we have noted a sufficient number to show that these organizations are faithfully and energetically looking after the interests under their control. We predict for these interests a more prosperous year during the one upon which they have just entered than any previous one, and their prosperity means the advancement of Canadian agriculture along nearly every line. Full reports of the various meetings will be found elsewhere.

Inspection and Regulation of Stallions

This question has been given some attention in these columns of late, and it is one worthy of careful consideration by Canadian horse breeders. There is no doubt that the unsatisfactory condition of the horse trade during the past few years is in a large measure due to the "too promiscuous" use of cheap or inferior stallions. And to day, though the trade in horses is looking up, it must be remembered that the improved demand which now exists is not for the "scrub" horse but for the finest types of heavy draught and coach horses, and every breeder knows that to produce these only the very finest types of stallions should be used.

At a special meeting of the Canadian Horse Breeders' Association, held in Toronto last December, a report of which appeared in FARMING for Jan. 10th, a letter was read from Mr. Wm. Hendrie, Jr., urging that some practical steps be taken towards securing the inspection and regulation of stallions standing for service in the country. As far back as 1895 Mr. Hendrie brought this matter before the Dominion Minister of Agriculture in a series of letters, setting forth the position of the horse-breeding interests of the country, and advocating a plan for Government inspection of stallions, as the following extract from the correspondent, which he has kindly sent us for publication will show, and which, we trust, will bring out some discussion on the subject:

Hamilton, Oct. 3rd, 1895.

To the Honorable The Minister of Agriculture,

Ottawa:

SIR,—There is no doubt horse breeding has gone back considerably, and the worst results will not be reached until 1897 or 1898, when the heavy draught, well-bred saddle and harness horse will be

more difficult to find than even now.

Three things are responsible for this decline:

1. (a) Financial difficulties in the United States, a good market in the past for our high-class horses.

(b) Farmers and breeders, at the introduction of electric power, got alarmed at low prices and stopped breeding altogether.

(c) "The cheap stallion." This is a subject I have taken great interest in, wro e upon frequently in the different country papers, and in my travels impressed upon the farmers the foolishness of breeding to

The results of his too promiscuous use are only too evident. The country is full of scrubs, kept at a loss, and every day becoming more unmarketable.

As to a remedy, it is a difficult problem, but I am satisfied something can be done to place horse breeding upon a better basis.

The suggestions mentioned to you I do not think would be of much

practical good it worked out.

If the Government imported stallions they would still be in the same fix as private owners are now, viz., competing along every sideline and concession with the cheap, underbred stallion, whese service in many cases can be got for \$2 or \$3.

in many cases can be got for \$2 or \$3.

The cost of providing suitable men to fill the position of lecturers would cost more than the benefit derived.

I would suggest that the Government empower your department to organize a Royal Commission on Horse Breeding in Canada, to be composed of men who have a practical knowledge of heavy breeds. thoroughbreds and harness horses. No doubt such a body could devise some scheme to recommend to your Government.

My opinion is that every stallion standing for public service should be inspected yearly by Government or commission—a certificate granted to owner, if sound, upon the payment of a nominal sum, this money to be given back to the country shows as prizes for young stock sired by inspected stallions.

by inspected stallions.

Another matter of importance the Government should be particular about when granting money to fairs or shows is that the prize lists is-

sued by them call for the proper standard breeds. Many fairs to-day do much harm by catering to the common bred classes.

The Queen's Plates formerly given in Great Britain and Ireland by II.M. the Queen for the encouragement of racing are now adminstered by The Royal Horse Commission, in prizes for thoroughbred stallions, the successful ones being at the disposal of the Government, to be sent, it required, into any county and there stand at a nominal and feed worther to

stud fee of usually £2.

This subject could be drawn out to weary you, so I will not go into any more details, but add my wishes that success crown your

efforts.

Vam, dear sir, Yours respectfully,

(Signed) WM. HENDRIE, Jr.

The Rearing and Management of Poultry on the Farm

By J. E. Meyer, Kossuth, Ont.

(Continued from last issue.)

As soon as the chickens are at least twenty four hours old remove them with the hen to a coop placed in a shady place, where there is grass and where no other fowls can get to it. I run wire netting about the coops, which keeps all large fowls out while it gives the chickens liberty. A hen can take care of filteen chickens in early spring and twenty in warmer weather. Feed the chickens on a clean board out of the hen's reach, and keep clean water where both the hen and chickens can get it but so arranged that the chickens cannot get into it.

I feed stale bread soaked in sweet milk and pressed dry, granulated oatmeal and a cake made somewhat as follows: Half-crushed oats, equal quantities of ground wheat and barley, a little salt and flax seed meal, some baking soda, all mixed together and moistened with milk placed in a shallow pan, and bake in a moderate oven. You will find the chickens very fond of this. As soon as they can eat wheat keep it before them all the time. After the chickens are three weeks old you will not need to bake this food, but moisten it only. Never feed sloppy food either to chickens or older fowls at any time.

As the chickens are taken from the hens at from four to six weeks of age, place them in separate flocks of from twenty-five to thirty of the same age and size. coop in which you had the hen is made large enough and is perfectly tight all round, excepting the front, so that there will be no draughts on the chickens while in it at night, this will be the best place for them and they can remain there until quite late in the fall if you put a front to the coop. Be extremely careful that the chickens do not get into any draughts during the chilly nights of August and September. As sure as they do they will get distemper or cold, and once that gets into your flock you will be a long time before you will get rid of it. They immediately lose flesh when they have distemper and your nice plump pullets almost ready to lay will, in a very short time, be little but skin, bone and feathers. As the cockerels become large enough you market them, so that there will always be room in your coop for each flock. Keep clean fresh water and wheat before them all the time and feed mornings on soft feed. Never allow them to get anything sour.

I have here discussed raising chickens in what is now termed the old way, which is fast being superseded by machinery, where chickens are raised in large numbers. The artificial hatching of poultry was practised centuries ago in Egypt and China, and in China to day there are not a few who make their hving by hatching chickens for the poultry-raisers of the surrounding district. The methods they use, however, are very crude compared to those used in America, England, France and a few other countries, especially in the United States are incubators and brooders used to a very great extent. The demand for really firstclass dressed poultry and eggs has always exceeded the supply, and no sooner had the incubator and brooder been brought to a comparative state of perfection than a new impetus was given to poultry raising, until to-day it is no

uncommon thing, in the Eastern States especially, to hear of poultry establishments running from six to thirty incubators of from 300 to 600 eggs capacity each, and turning out annually hundreds of thousands of chickens and ducklings for the markets of such cities as New York and Boston. These men make this a business.

There are many advantages in favor of machines over hens for raising and hatching chickens, and they will answer as well for the farmer as for the exclusive poultry raiser. The good incubator and brooder of to-day is as simple, as easily managed, and will do its work as perfectly as the ordinary machines of the farm. The earlier you can hatch your chickens the better they will pay you. You can seldom get hens to hatch all the chickens that you would like to raise in March or April, but the incubator is ready to go to work at all times and will hatch 200 or 300 at once, with far less trouble than the dozen or two hens that it would take. If you have an incubator to do this work your hens can go on laying and lose no time. Incubatorhatched chicks are not troubled with lice. A brooder will take care of from fifty to two hundred with far less trouble to you than the hens would be. Any farmer who wishes to raise from 200 to 500 chicks each year will find it an advantage to do it with machines. The farmer who wishes to raise only from 50 to 100 does not need machines.

A farmer who has quite a large farm adjoining the village of Preston has been for a number of years paying careful attention to a large flock of Leghon hens that he keeps for furnishing eggs for market. He also keeps quite a large herd of cows which are not neglected. This farmer told me only a few weeks ago that his hens were paying him better than his cows. There is not a farmer who cannot make his hens pay just as well as this flock, if he will only make up his mind to do it. The time has come when you are each and every one of you compelled to look to every available source for your incomes. I know a hen is a small thing-perhaps beneath the attention of some men, but she is either a profit or a loss to you. Which are you going to make it? It depends entirely upon your-

Selection in Fowls

Written for "Farming" by W. R. Graham, Belleville

The season is now drawing near when we again begin to make preparations for rearing chickens. Now, since there is such a grand outlet for our surplus stock in the British market, and at such paying prices, we can well afford to pay more attention to the "much-despised hen."

Selection pays as well in fowls as in any other form of live stock. Some remarkable egg yields have been got from hens bred from selected pens, where a large egg output was the ideal of the breeder. Therefore, it is to the interest of all to select only the best, and breed from them.

Select a dozen of your best hens, and put them in a coop by themselves. These, if properly fed and handled, will lay all the eggs needed for hatching purposes on a farm. And, furthermore, the balance of the flock will lay more eggs of a better flavor, and also eggs which will keep longer, when the male birds are kept away from the flock. Too much of the profits are now consumed by unneeded male birds. Remember, "like begets like," and, if eggs are g ing to be sold by the pound (as they should be), and as they are in England, we must be ready when the time comes to sell that way here. Strange as it may seem, the less eggs it takes to make a pound the more they are There is also a preference in England for brown worth. eggs. It is claimed that they will keep longer. Therefore, with these objects in view, select your best winter layers that have laid large brown eggs, and lots of them.

Another point of great importance is that every hen be in perfect health. Any hen that has had any disease, such as roup, etc., is not a bird to be selected as a breeder, as the progeny have a weakness or liability to the same disease. Take plenty of time, and select as good a pen as

you have.

The old saying that "the male is half the flock" has its weight. Never use anything but a pure-bred male. Scrubs are hard to feed, and the results are very unsatisfactory and discouraging, both in the line of egg production and fattening. Generally speaking, some of the general purpose breeds, such as the Plymouth Rocks or Wyandottes, are the best fowls for the farmer. It is not necessary to have a show bird. They are very expensive, and are not a mite better for grading up a flock than a good pure-bred male whose feathers do not happen to be of the exact shade. Every breeder has these, and is willing to part with them at very reasonable prices. Set the shape and constitution, together with parents of good egg-producing qualities, and you will have a good sire in all probability.

These fowls should have a roomy pen; at least seven square feet of floor space to each fowl. The pen should have plenty of light, should be dry, have a dust bath, etc., or, in other words, have all the little things that go to produce health, for it's vigor you want in the chicks. Too many fowls lack in constitution, and, if the best results are to be obtained, this must be watched. Do not inbreed.

Set the eggs from this pen only. Mark each day's eggs, with the date of the month, and set only the freshest ones, as these are likely to have the strongest germs in them. Give the fowls plenty of exercise, also a liberal diet of meat or green cut bone. These will help to get plenty of strong, vigorous chicks.

In another article we shall write about the setting hen and her family.

Institute Work in New Brunswick

(Special Contribution)

In this province the work is only well begun, and there is a wide field. The meetings are under the direct control of the Farn: rs and Dairymeu's Association of the Province, which receives a yearly grant of one thousand dollars from the Provincial Government. While the farmers of the province, as a class, are intelligent, they are much behind their brethren in Ontario in up-to-date agriculture. Up to the present time, ti.ey have been more interested, as a rule, in lumbering and fishing than in the development of their farms. Large quantities of beef, pork, and grain are still brought down from the western provinces.

Owing to the work of the Government Dairy Instructors and the F. & D. Association slow but steady advance is being made in dairying, for which many sections of the province are splendidly adapted. A fine new dairy school will soon be opened at Sussex, with Superintendent Mitchell at the head, assisted by Dairy Superintendent Hopkins, of the Dominion Dairy staff, and Mr. W. W. Hubbard, with other capable men as assistants.

The Institute Corps has met with good success at all the meetings held during the past month. Messrs. Hopkins and Hubbard discuss dairy matters; Mr. W. S. Blair, of the Experimental Farm, Nappan, deals with fruit culture; J. J. Ferguson, B.S.A., of Smith's Falls, Ont., talks on "Breeding and feeding bacon pigs"; Superintendent Robertson, of the Nappan Farm, treats of the work of that institution, with special reference to dairying. Mr. W. A. Jack, a practical poultry breeder, of St. John, discusses "hen matters" in general. So far, the weather has been exceptionally favorable for the carrying on of the work. There is still a couple of weeks of work ahead of the delegations.

The Best for a Farmer

Bowmanville, January 31st, 1899.

DEAR SIE,—In renewing my subscription I would say I am much pleased with FARMING, and consider it one of the best papers for a farmer he can procure. I have found it very helpful to me, as I have been buying in some purebred stock. Hoping it may have continued prosperity, I remain,

SAMUEL SNOWDEN, JR.

An Everlasting Fodder Plant

A Mr. M.C. Ginster, of Erdington, Birmingham, England, describes this plant in a recent issue of the Lincoln Mercury and speaks of it as furnishing a means to the British farmer for overcoming the agricultural depression which seems to be hovering around him. He points out that after the second year this plant will yield from sex to seven tons of hay per acre on poor stony, sandy land. Further on the writer says: "This plant requires no manure, and, after the second year, no care; it is independent of all weather, and when the sun has burnt up everything else it keeps on growing. It yields abundant crops for fifty years, and, according to analyst's report, is richer than pure oil cake; so rich that to one ton of lathyrus hay must be added two of straw chaff. It is suitable for all cattle, notably milking cows. Farmers thus need not buy oil cake and other feeding stuffs, but can save the money formerly expended on them, and by merely using up land totally valueless for any other purpose whatsoever. If their land is swampy the plant known as 'pologonum,' and quite as nutritious as the 'lathyrus,' would be of service." If this plant, which Mr. Ginster calls the 'lathyrus," will do onehalf what he claims for it, it is just what the dairyman and cattle feeder of every country requires. If any of our readers know anything about this wonderful plant or have had experience with it we should be glad to hear from A plant known as Lathyrus Sylvertris has been grown on the Experimental Farm, Ottawa, for several year in small plots.

Butter and Egg Co-operation in France

A movement is on foot in France to attach an "Egg department" to their system of co-operative dairies. The plan is simple and works well. Each member of the Dairy Association undertakes to send not less than 200 eggs per week on two fixed days; a distinction is to be made between eggs for consumption and those intended for hatching. Members can only send the product of their own hens and at their own expense to the creamery office. To secure that the eggs be in a fit and proper condition the members will bind themselves to remove the eggs daily from the nest, and leave as the nest-egg one of porcelain. There is a heavy penalty for sending old or spoiled eggs. The creameries undertake the sale of the eggs and secure the best market price. Associated with the egg industry that of poultry will be added later on.

This is extending the co-operative system in a practical way. If it were practicable to do the same work in connection with our co-operative cheese factories and creameries it would go a long way towards solving the problem of how to collect the eggs from the farmers in a perfectly fresh condition. Cold-storage facilities could be provided at the factories, where the eggs could be kept in a fresh condition and packed ready for shipment to the large cities or direct to Great Britain.

Oil in Road Making

Along a certain clay road in Pennsylvania there was an oil pipe line which sprang a leak and spurted a considerable quantity of oil over the road. It was noted that on the spot where the oil had spilled the roadway showed a marked improvement over the parts of the road where there was no oil. The explanation of this was that the oil formed a water-tight covering to the road, and the earth beneath being dry no ruts or mud could form and the road became good.

This led Mr. M. Meig, an engineer in the employ of the United States Government, to make an experiment. This experiment was conducted last November with crude oil. A newly graded piece of dirt road was coated with oil, distributed by means of an improved sprinkler over a strip about 12 feet wide by 200 feet long. A second part of the road was sprinkled a little lighter, making about 500 or 600 feet in all, and eight barrels of oil were used in the experiment. The day after the oil was applied and before it had time to be absorbed a heavy rain fell. The road was examined during the rain and where oiled it was evident that the dirt beneath the surface was still dry and retained its supporting power, while on each side of the oiled portion it was muddy and rutty. A heavy frost, with the temperature at zero, followed the rain. The oiled portion after this was perfectly smooth, and the wheels made on it a muffled sound that showed the dirt beneath the surface was unfrozen and dry, while the unoiled portion was cut up with ruts one to two inches deep and frozen rough and hard. Crude oil costs from 60 to 90 cents per barrel at the wells in the United States, so that its application to a roadway is not a very expensive affair.

صر

A New Use for Barnyard Manure.

A French authority states that farmers are wasting their time in using barnyard manure or refuse as a fertilizer. The contention is that the chemical constituents of manure, which alone are valuable, form such a small part (about 1.62 per cent.) that there is a great waste of time and labor in putting it on the land. The rest consists of water, of unassimilable woody fibre and mineral matter of which the soil has always a plentiful supply. All this is considered as dead weight which serves to retard the effect of the active constituents, and it is claimed that it would be better to employ the chemical constituents proper, a handful of which represents effectively the vegetative force of a ton of manure. It is also added that the small percentage which is of use is constantly wasting because of fermentation causing the gases such as ammonia to escape.

The director of the Pasteur Institute at Lille has devised a means of using these gases. To this end he advises covering the manure with a bell-shaped cover furnished with a tube that ends in a receiver filled with acidulated water. The ammonia, instead of dispersing through the atmosphere, could be collected in liquid form, from which the ammoniacal salts could easily be secured. It is also claimed that the other gases formed by fermentation, such as carbonic acid and gaseous hydro carbons, will burn in the open air and if this received were furnished with a gasometer could be utilized for lighting the buildings on the farm. This is an ingenious plan and may come into use after a while. It shows, however, what can be done when science is applied to agricultural subjects.

Sheep versus Dogs

A new England sheep-raiser claims to be able to keep dogs from his sheep by a barbed wire fence, so constructed that neither the dogs nor the sheep can get through. The fence consists of seven strands of barbed wire on posts eight feet apart, with a wooden rail below the top wire to steady the posts, the total cost being \$67.20 per mile, which seems very low. The first strand of wire is put very close to the ground so that sheep and dogs cannot crawl under, and should not be more than three inches from the ground at any point. The second wire is put four inches above the first, the third five inches above the second, the fourth six inches above the third, the fifth six inches above the fourth, and the sixth eight inches above the fifth, then a wooden rail eight inches above the wooden rail.

Such a fence would certainly enable a farmer to protect his sheep from dogs. There is one strong objection to a barbed wire fence for such a purpose and that is that so much wool would be lost by the sheep coming in contact with the barbs. The writer states, however, that this would not amount to much even in a large flock of sheep.

Y

Mr. Elias Pannabecker, of Hespeler, Ont., says: "I like your weekly very much."

CORRESPONDENCE

Distribution of Cereals for Improvement of Seed

To the Editor of FARMING:

For the past ten years systematic efforts have been made to increase the average returns and to improve the quality of the cereals and other important farm crops grown in Canada by an annual distribution from the Experimental Farm at Ottawa of samples of seed of the best and most productive sorts. These varieties have been first tested at the Experimental Farms, and only those which nave proven to be the very best have been chosen for this distribution. The samples sent out have contained three pounds each, and every precaution has been taken to have the seed in every instance thoroughly clean and true to name, and the packages have been sent free through the mail. Those who have received such samples and grown them with care have usually had at the end of the second year enough seed to sow a large area, and in this manner careful farmers all over the Dominion have been gradually replacing any inferior and less productive sorts which they have been growing in the past, with superior varieties possessing greater vigor.

By instruction of the Hon. Minister of Agriculture, another such distribution is being made this season, consisting of samples of oats, barley, spring wheat, field peas, Indian corn and potatoes. These samples will be sent only to those who apply personally. Lists of names from societies or individuals cannot be considered, and only one sample in all can be sent to each applicant. Applications should be addressed to the Director of Experimental Farms, and may be sent any time before the 15th of March, after which date the lists will be closed, so that all samples asked for may be sent out in good time for sowing. Parties writing will kindly mention the sort or variety they would prefer, and then, should the available stock of the sort asked for be exhausted, some other good variety will be sent in its place.

Wm. Saunders, Director.

Experimental Farm, Ottawa, Feb. 7, 1899.

Lucerne as a Hay and Fodder Crop

To the Editor of FARMING:

In your issue of January 24th I saw an article on Lucerne clover, by Mr. A. Rawlings, of Forest, Ont, and thought he had taken the wind out of my sails, as I had thought of giving you my small experience. But as he gave us the value of Lucerne as a pasture only, I will, with your permission, give you my experience with it as a hay and green fodder crop.

In the winter of '97 one of the speakers at our Institute meetings recommended it very highly, and said he would not try to run a farm without it, and that he had then 27 acres seeded down with Lucerne. I took his advice and in the spring sowed two small pieces, one about three acres and the other just half an acre, near the barn to cut green for cows and pigs and help out the pasture. Th's was sown with peas and oats, which I cut green. Where I cut this feed first the Lucerne did the best and grew very fast after the peas and oats were off. In a few days it was a foot high and I turned the cows in several times. Then it grew till October, when I cut nineteen good cocks of hay (first year).

This last spring, on the 18th of May, I commenced to cut the Lucerne for pigs and cows at night. I have for years sown cow corn for this purpose, but I see that I will not need it any more. On the 1st of June I cut what was left, eighteen cocks; cut the second crop on July 8th, the third on August 18th, and as we got no rain for weeks I did not cut the fourth crop until October 10th, and it was some time curing but made good feed. These cuttings

made 72 good 100 lbs. cocks of hay from half an acre besides all the green feed I needed for seven cows and a

ot of pigs.

Lucerne boats anything I have ever sown for growing, even in dry weather. Through the very dry and hot time last summer it was about the only real green part of the place, and I found out the reason last fall; when I dug a ditch across one end of the field I found roots 3½ feet down. I think the plant goes to the water, and conse-

quently does not depend upon the rain.

The larger piece I only cut twice, June 9th and August 18th, and it gave a lot of pasture, and I noticed that the cows and horses kept on it when there was lots of good feed elsewhere. The hay keeps its colour and looks as green now as when put in the mow, and the cows, horses and pigs eat it now in preference to red clover. I have heard several objections to it, viz., that it is almost impossible to plow the sod under. (Pernaps Mr. Rawlings can tell us about that, as he has had some of it plowed.) Also that it is too woody, etc., which might be true if sown too thin and left standing too long. I cut it when in first bloom.

I sowed it thick and it grew straight up and fine like timothy. I would not sow less than 18 to 20 lb. of seed to the acre, and then it cannot stool out and grow big and woody stalks like a bunch of sweet clover (which it resembles). The stocks are solid and it makes heavy hay.

Farmers as a class are called close or stingy, and I often think when I see some of them sowing clover seed that they deserve it. They try to make a peck of seed cover a big field, and then blame the seedsman because it is a poor catch. This is a very poor way to economize. I have not sown a bushel of grain in years without sowing clover with it, even when I turned it under for another crop. It pays well and will make poor land rich. I have proved it. Prof. Robertson says "Clover is King." We used to think clover hay would give horses the heaves. All nonsense, of course. They like it and will eat more than they really need. If you keep the manger full the horses will be full too, and if driven hard or worked their wind will be short. It is not the kind of hay but the quantity, except the clover is badly cured and is musty, which causes the trouble.

But, Mr Editor, perhaps you will think my wind is too good and I will close, but I never tire in talking about and recommending or advising farmers to grow clover, because it pays. I took six 500d loads off three acres this dry summer the first crop, and threshed eight bushels of seed from the second crop. Can you do that with a grain crop? I think no, and if Mr. Rawings and I can persuade farmers generally to raise more clover, especially Lucerne, we will not have lived in vain. All of my neighbors who saw my two pieces this summer or heard about it say they are going to sow some next spring.

Thanking you for space in your really valuable paper (which I think no farmer should be without),

I am, yours, etc.,

W. H. DAVIS.

Tweed, Ont., Jan. 31st, 1899.

 α

An Extraordinary Milk Yield

The Annandale Farm,
Tilsonburg, Ont., Feb. 1st, 1899.

To the Editor of FARMING:

MILK RECORD FOR YEAR ENDING MARCH 101H, 1898.

Herd consists of 55 cows, about one-fourth of them registered Holstein, the balance are about three quarters Holstein blood, crossed Holstein bull with Shorthorn cows; about one-six h of the number were two year-old heifers with first calf, which were milked from twelve to fifteen months and some few of the poorer cows, that were culled out for beefing, were also milked over a year, which accounts for the average long period that the herd were milked, viz: 11 months, 23 days. As a rule,

we aim to milk our cows from ten to ten and a half months, giving them from six to eight weeks rest.

Our best cow (No. 56) is six years old, half Holstein, half Shorthorn. The first year, as a two-year-old heifer, she gave 10,000 pounds in 11 months. Next year, 15,000 pounds. The next year, 17,700 in 10 months, 21 days. This year so far (10 months) she has given 18,000 pounds, and if all is well we intend milking her two and a half months longer, and expect she will give in the twelve and a half months 20,100 pounds. Her milk tests average three and six-tenths butter (at, which would be equal to 840 pounds butter in one year, 15 days. We are anticipating the two and a half months ahead. We do not know what may happen in that time, but we have every prospect at the present of her giving the 2,000 pounds in the next two and a half months.

Ten of our	best cows	average	:d	13,722 lbs.	milk.
Ten of 2nd	"	"		11,887	٠.
Ten of 3rd	"	46	• · · · · · ·		"
Ten of 4th	**	64		-	4.6
Ten of 5th	44	4.6			
Five of the	poorest	"	•••••	5,742	**

The whole herd of 55 cows averaging 10,342 lbs. and 418 lbs. butter.

This year we expect they will do considerably better. Our year will not be up until the 10th of March. Several of them are still milking on this year's record, but we have made up a record of those that have milked their full season, about forty of them, taking them in their regular order as recorded in books, as they have gone dry, and we find that they, the 40 cows, have averaged this year 11,660 lbs. of milk, butter-fat 3½ per cent., making 476 lbs. butter, and, by putting in our best cow, No. 56, now milking 10 months, 18,000, it would bring the average up to 11,800 lbs., and the average time of milking would be 12 months, the heifers and beef cows making the average time longer. Average amount of butter per cow for the 41 cows 12 months would be 482 lbs.

Now, perhaps you would be interested to know how we care for and feed our cows. In the first place, we have a very constantle stable, warm, well lighted, and well ventilated, roomy, single stalls, cows fied with chain around nork, with fresh, spring water and salt always before them, and kept we'll bidded and made comfortable. We turn them out for an hour or two on fine days once or twice a week for exercise, but never in wet, stormy, or very cold weather. We feed the first thing in the morning, before mi'king, good, well cured, and well saved clover hay, cut and cured rather on the green side, cut in the first blossom, cut a week or ten days earlier than my neighbors cut theirs, and cured in cocks covered with cotton hay caps. We feed clover hay last thing at night after milking. Feed 20 lbs. good corn ensilage with six lbs. of grain feed spread on top of it, after milking in the morning, and the same in the p.m. before milking, and sometimes wheat or oat straw. At noon they like a variety of feed, as well as we do our-Our grain consists of six lbs. wheat bran, three lbs. pea meal, and two lbs. of cotton seed meal per day in two feeds. We sometimes substitute corn meal for the pea meal, and oil cake meal for the cotton seed meal, always prefer pea meal to corn meal when it is reasonably cheap in price. We like the cotion seed meal for summer and oil cake for winter, when it is not too high in price, also like pea meal better than corn meal when it is not too high in price. We are now feeding the cotton seed and corn meal, because they are both so much cheaper. Cotton seed \$7 per ton less than oil cake, and corn meal \$7 cheaper than pea meal. We feed all the clover hay they will eat, 40 lbs. ensilage, 11 to 12 lbs. grain feed on an average, and feed the very heavy milkers a little more and the poorer milkers less. The best cow, No. 56, gets from 16 to 20 lbs. of grain feed per day same mixture and according to the amount of milk she is giving. We feed ensilage and grain all summer, except in June, about half the ration both of ensilage and grain in summer as we feed in winter, and in very dry and hot weather in fly time keep cows in days and out in pasture nights, and let them run in pasture from 20th May to Oct. 1st. No matter how good the pasture is, my cows are very fond of eating ensilage in the summer and prefer it to green soiling crops fresh cut, and we find it much cheaper and much more convenient feeding. We have cows coming in fresh every month in the year, but prefer having the greater number coming in fresh in the fall and early part of the winter. Raise all our calves and keep weeding out all the poorest cows for beef. Weigh each cow's milk separate once a week and keep a record, also use the Babcock tester.

You might ask if we can give any reason for our cows giving so much more milk this year than last, the difference being between 10,242 lbs. last year and 11,800 lbs. this year, a difference of 1,358 lbs. per cow. Before this last year, we havenever been in the habit of feeding our cows a regular ration of green feed or ensilage and grain all through the summer, but just a little to help them over a very severe drought; and when the pastures would be dry and poor during the middle of the summer the cows would be dry and poor during the middle of the summer the ccws would shrink in their milk, and when a cow falls off in her milk you can never bring her up again that season no matter how well you feed her afterwards, and that is where our farmers make a great mistake. In a dry time in summer their cows fall away or shrink from one-third to one-half in their milk flow again that season. Last season we fed our cows all summer, whilst in either good or bad pasture and, with the exception of June, fed a full winter ration of ensilage and grain, some of the time alfalfa fed in the stable at milking time morning and night, ensilage once a day and alfalfa once a day alternately. We are great believers in alfalfa, have four acres and cut it four times a year and feed it green to both hogs and cattle. Fed it last year for the first time to our pigs, 300 of them and also occasion-

ally to our cows, alternately with ensilage. We find alfalfa to be one of the most profitable crops of clover that we can grow, either for hay or green feed or for fertilizing the land. It stands the drought better than other clover and pro luces such tremendous heavy crops, four crops in a season. Well, now, to give you an idea of what the benefit in feeding cows all summer, we will say that we feed a half ration, say 20 lbs. of ensilage costing \$2 a ton, equal to 2c. per day, and 5 lbs. of bran and meal, \$12 per ton, 60c. per 100, 3c. per day making the feed to cost 5c. per day for 150 days extra for summer months. You will see in my milk record for the two years that my cows this year through this treatment gave 1,558 lbs. each more than last year under the old treatment of feeding only in time of severe drought. Our milk brings us \$1 per 100 lbs. in butter and skimmed milk, making a gain of \$1550, less \$7.50 for feed, or a net gain of \$8 per cow for the extra feeding, and the extra manurc saved will pay for the extra labor, and then the cotton seed meal and bran make a great improvement in the butter in warm weather. A clear gain of \$440 on the 55 cows.

Yours truly, E. D. TILLSON.

1

Better than Any Other Paper

Wisenburg, Ont., February 3rd, 1899.

DEAR SIL,—Enclosed find SI, my subscription for 1399. I find FARMING of more benefit to me than any other paper.

Yours truly,

IGNATIUS HAUSER.

Always Improving

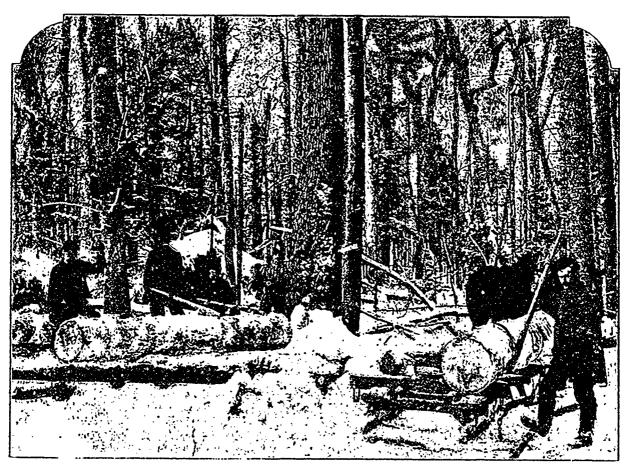
Vernon River, P.E.I., January 31st, 1899.

To the Editor of FARMING:

DHAR SIR.—Enclosed please find \$1 for renewal subscription to FARMING. Hoping you will continue improving your valuable paper as in the past, and wishing you a happy and prosperous New Year.

Yours very truly,

JOHN M. McLROD.



A Canadian Winter Scene.

CLYDESDALE BREEDERS.

The thirteenth annual meeting of the Clydesdale Association was held on leb. 9th, Mr. Robt. Davies, retiring president, in the chair. Mr. Davies congratulated the members upon the present condition of the horse market. The demand, while not brisk, was certain, and the superior animal could be dis-posed of at a profit. There was great neces-sity for perseverance in the work of improving the stock and the advancing of the asso-ciation's interests. They should consider the animal tirst, and the price it would bring afterwards.

The report of the secretary treasurer, Mr II. Wade, was a very satisfactory one. There had been a decided improvement in matters affecting Clydesdale interests. There had affecting Clydesdale interests. There had been a renewal of importations of breeding stock. One importer has brought out eleven stock. One importer has brought out eleven recently. There has also been considerable movement of Clydesdales from Ontario to points in the Northwest. Registrations during the year numbered 252, as against 99 in 1897. The membership has increased from 29 in 1897 to 69 paid members for 1898. The total receipts were \$503.32, and expenditures \$409.15, leaving a balance of \$94.17. The assets are \$3,126.17.

Resolutions were passed re the exportation of stock to the United States, and authoriz-

of stock to the United States, and authorizing the opening up of negotiations with the railway companies in order to obtain the same terms for shipping stock as those now enjoyed by the breeders of purebred cattle, sheep, and swine. \$50 was voted to the spring Horse Show.

The others for 1899 are: President, Peter The officers for 1999 are: President, Peter Christie, Manchester; 1st vice-president, John Davidson. The returing president and vice-president were elected on the Board of Directors, as was Mr. James Innes, Clinton. The other officers, with some exceptions, are the same as last year.

CANADIAN HORSE BREEDERS' ASSOCIATION.

The fifth annual meeting of this association took place on the evening of Feb. 9th at the Albion Hotel, Toronto. Mr. Robt. Davies, president, presided, and the attendance was good. The report of the secretary referred to the last spring Horse Show as being a very successful one, and, while there was a falling in the heavy classes, due somewhat to the late date at which the show was held, yet the loss was much more than made up by the in-creased num er of splendid harness horses shown. The total receipts of the Horse Show were \$4,952.25, of v hich there was expended in prizes \$3,385, and for running the show \$817.50, thus leaving a substantial balance to be divided among the organizations control-ling the show. The total receipts of the Canadian Horse Breeders' Association were \$1,691.88, and expenditures \$72.12, leaving a balance on hand of \$1,619.76.

As the military authorities have decided not to co-operate in all Iorse Show and Tournament this year there was some discussion as to whether it would be advisable to hold a show or not. A form of agreement was read by the secretary outlining terms by which the Country and Hunt Club and the Association might unite in holding a show this spring. This agreement seemed to be acceptible to the members present, and it was unanimously decided to hold a show from the 12th to the 15th April in conjunction with the Hunt Club and that the directors be instructed to arrange as satisfactory terms as possible with the Club re financing and managing the show.

A resolution was adopted appointing a committee to interview the railway authorities re securing the same privileges for the trans-portation of purebred horses as these now enjoyed by the breeders of other purebred stock. An invitation was received from the National Horse Breeders' Association of the United States, asking the association to send delegates to consult with that organization with reference to the trade in horses and veterinary inspection.

The following is the list of officers, 1899: President, Dr. A. Smith: 1st vice-president, H N Crossley; 2nd vice president, R. Beith, M.P.

Directors—Hackney Hors? Association, R. Beith and John Macdonald; Clydesdale Association, R. Davies and R. Graham; Shire Association, H. N. Crossley and W. E. Wellington; Thoroughbred Association, Dr. Smith and W. Hendrie, jun.; Trotting and Pacing Association, S. Fuller and E. W. Cox; Draught Horse Association, A. Melnnes and J. Henderson; Additional Directors, George Pepper and D. B. Simpson.

Delegates—To Industrial Exhibition, H. N. Crossley and D. B. Simpson, London Fair, R. McEwan and O. Sorby.

Special committee to arrange Horse Show—Dr. Smith, R. Davies, H. N. Crossley, J. Macdonald and H. Wade. Directors-Hackney Horse Association, R.

HOLSTEIN-FRIESIAN ASSOCIATION.

The Canadian Holstein-Friesian Association held its annual meeting on Feb. 7, there being a good attendance of the members present. The president, Mr. W. G. Ellis, presided. The secretary-treasurer's report showed the association to be in a very satisfactory condition financially and otherwise. The total receipts for 1898 were \$1,580.90, and disbursements \$959.14, leaving a balance on hand of \$621. The total registrations last year were 407 76. The total registrations last year were 407 and transfers 158, making the total registration 5149. The officers of 1809 are. President, W. G. Ellis, Bedford Park; 1st vice-president, A. C. Hallman, New Dundee; 2nd vice, T. W. Charlton, St. George; 3rd vice, Alfred Rice, Curries; 4th vice, G. A. Giltoy, Elm Buell. Mr. Win Shunk, Sherwood, and A. Hoover, Jr., Emory, were elected directors in place of the two who retired this year. Mr. G. W. Clemons was unanimously re-elected secretary treasurer. unanimously re elected secretary treasurer.

The representatives to the various Fair Boards are as follows: Toronto, W. G. Ellis Boards are as follows: Toronto, W. G. Ellis and Wm. Shunk; London, Edwin Scatcherd and J. W. Johnson; Ottawa, G. A. Gilroy and Joseph Fletcher; Winnipeg, James Glennie and J. T. Hutchinson; Montreal, G. A. Gilroy and Mr. Keillor; Sherbrooke, John Pickering and Ogden Sweet, St. John, O. J. Estate. It was decided to recommend the various Fair Boards that only one judge various Fair Boards that only one judge be engaged as was done previous to 1898. The following were recommended as eapert judget for Toronto. Henry VanDresser, C. bleskill, N.Y.; A. F. Cole, Morrisville, N.Y., and D J. Hinckley, South Brucefield, N.Y. London, Wan. Shuring, T. W. Charlton and T. H. Patton. Ottawa, H. A. Bollert, R. S. Seevenson and Wm. Shunk. Montreal, Wm. Shunk, A. C. Hallman and H. A. Bollert. Winnipeg, T. W. Charlton and A. Rice. Brandon, G. A. Giltoy.

Mr. W. A. Matheson, Utica, N.Y., president of the American Holstein-Friesian Asso-

dent of the American Holstein-Friesian Association, and Mr. Henry Stevens, Tacoma, N.Y., were present in the interests of the amalgamation of the American and Canadian Records. After some di-cussion on the subject a committee consisting of the president, secretary and T. W. Charlton, was appointed

to confer with a committee from the American Association in regard to the matter.

DOMINION SHORTHORN BREEDERS.

The thirteenth annual convention of this association was held on Feb. 8th. The president, Mr. James Russell, Richmond H.ll, in the chair. There was a large and representative meeting, one of the best the association has ever held. Members were present from as far east as Nova Scotia and as far west as Brandon, Manitoba. The treasurer's annual statement was a very satisfactory one; the total receipts for the year amounted to \$13,-So 5.95, and the expenditure to \$5,627.91, leaving a balance of \$8,178.04. The total assets of the association amount to \$16,663.04, against which there are no liabilities. The total paid membership for 1898 was 713, of which 250 were new member. The total pedigrees on record are 62,071. In 1898 pedigrees on record are 04,07... 5.386 registrations, 5.555 certificates, and 1,064 changes of ownership were made, a 1,064 changes of ownership were made, a large increase over previous years. The right and title of the Prince Edward Island Herd Book was obtained last year, and the associ-ation is now, in every sense of the term, 2 Dominion organization.

A number of resolutions were adopted of great importance to the Shorthorn industry, and which are as follows:

All pedigrees sent for record must be signed by the breeder, or, in case of death, by a proper representative; the breeder of an animal being the owner of dam at time of

That we set apart the sum of \$750 from the funds of the association to be given in pre-miums for Shorthorns at one of the leading shows in Ontario, and that the said sum be placed in the hands or the Executive Com-mittee, to be granted to either London or

That in addition to the sum already voted for prizes \$\$500 be put into the hands of the Executive Committee to dispose as they may deem fit for Shorthorn premiums at the different large exhibitions in the Domin-

That the sum of \$500 be voted from the funds of the association to the Winnipeg exhibition for Shorthorn cattle, for prizes, on

towards that they give the same amount towards that purpose as they did last year.

That we, the Shorthorn Breeders of Canada, assembled in our annual meeting, do today ask the Dominion Government to allow cattle from Great Britain to come into Canada without being tested for tuberculosis. (A rider was attached that the United States be included in this resolution provided they granted Canada the same privileges.)

Whereas this association has learned that purchasers of Shorthorn cattle for exportation to United States are put to much inconveni-ence and delay in shipment because of the necessity under the present regulations of registering in the American Herd Book in order to pass the customs; therefore, resolved that inasmuch as the standard of the Dominion Shorthorn 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 acre, this meeting is of opinion that every interest would be subserved and properly protected by admitting Shorthorns on presentation to the cus-toms authorities of properly accepted certifi-cates of registration signed by the registrar under the control of the Department of Agnculture for Oatario; resolved further, that a committee be appointed to enlist the co-operation of the American Shorthorn Association in presenting this view to the proper authorities at Washington.

The Hon. John Dryden strongly favored the last resolution. He instanced a case in which Canadian sheep recorded in the American Shr pshire Record were not allowed to pass the custom authorities on the border. If this is done in connection with their own records it is little wonder that Canadian records are objected to. The American Shropshire Association is sending a resolution similar to the above to the Washington authorities and appointing a committee with a view to having their difficulties remedied.

The officers for 1899 are the same as for 1898 with the following exceptions:
Hon. Thos. Greenway, Vice-Pres. for Manitela, in place of Ino. E. Smith; H. W. Shatuck for Alta., in place of Jno. E. Smith; H. W. Shatuck for Alta., in place of Jno. A. Turner; W. H. Henlack for Assa., in place of F. W. Green; W. D. Flatt, Hamitton, director, in place of Wm. Dawson, Vittoria; W. D. Cargill in place of H. Cargill, M.P. Mr. C. C. Gardiner was appointed representative to the Prince Edward Island Fair in place of F. S. Hazzard. The Executive Committee will be the same as left year.

Committee will be the same as last year.

At the conclusion of the business Mr. J. C. Hawley, Reed, Ont., read an interesting paper on "What Shorthorns have done for the improvement of Canadian cattle."

SHIRE HORSE BREEDERS.

The Shire Horse Breeders' Association held its annual meeting on Feb. 9th, Mr. H. N. Crossley, president, presiding In his opening address, Mr. Crossley anticipated a much larger importation of Shire horses the coming season than for several years back. Better prices had lately prevailed

The secretary-treasurer, Mr. Henry Wade, in his annual report showed that there had been better results during the year in the way of registration and membership fees than heretolore, but there was still room for prog-ress. The total receipts were \$76.18, and the expenditure \$23.50, leaving a balance of

\$52.68.

The meeting adopted a resolution similar to that adopted by the Shorthorn Breeders in regard to securing Letter arrangements on the border for the exportation of Shire horses to

the United States.

The officers for 1899 are President II. N Crossley, Rosseau; vice-president II. N. Crossley, Rosseau; vice-president, W. E. Wellington, Toronto. The directors are the same as last year with the exception that Thos. E. Kinner, Mitchell, replaces John Semple, Tottenham. The judges recommended for the spring Horse Show are: R. Gibson, Delaware, and Dr. R. P. Ebernker, Springfield; for other shows, R. Gibson, J. Crossley, John Gardhouse, and Thos. Ormsby, John Gardhouse and Thos. Kinner.

Stock Notes

MR. E. E. MARTIN, of Canning, Ont., has a number of fine young Berkshires which he finds necessary to dispose of this month in order to make re-oin for young stock coming in, and is advertising them specially in this week's issue. See his advt.

MESSES. SILLS, SHAVER & SON, of Winchester Springs, Ont., write: "We are having good success supplying Yorkshires and Jerseys. Have just made sale of six Jerseys, Feb. 2nd., to one man. Have sold about \$1,000 worth of Jerseys the past year, stock comprising from forty to sixty head. Have shipped some Jerseys to Manitoba. We are breeding our Jerseys to get the best producers of milk and butter. Make our butter up at home and get a fancy price for it in Montreal. We have now on hand three your g bulls ready for service which cannot be excelled in America for pedigree and points of excellence in dairy form. They are all solid color, one light colored and two dark ones. They are beauties, and from noble cows, showing high butter-fat tests and large producers; one 2-year-oid and two yearlings. Would be pleased to give fuller particulars on application. Will have plenty Yorkshire pigs ready to ship soon. Also have some excellent boars ready for service. Our object is to please people with what they get from us."

MR. JAMES WILSON, the well known pro-prietor of Monkland Mills, Fergus, Ont., is advertising cheap cattle feed in this week's FARMING. See his adve.

GOODFELLOW BROS., Macville, Ont., have recently sold to the Hon. Thomas Greenway two very fine Shorthorns. One of these is the 15 month old bull calf, Golden Flame, winner of second prize in his class at the Toronto Industrial in 1898, and the other is the two-year-old heifer, Lady Anne. Both will give a good account of themselves in the West.

MR. J. J. KEATOR, of Deseronto, is adver-tising Jersey cows and heifers of the St. Lambest strain in this week's issue. See his advt. on page 442.

POINTERS FOR STOCK BREEDERS.

How are people to know what you have to sell if you don't tell them? Stock which is not worth advertising is usually not worth buying and not worth selling.

There is no business of any kind, provided it is worthy of patronage, that cannot be greatly increased by judicious advertising. To make money you must be willing to spend





The Barrel Ghurn, 1899

ANGLING STEEL STAND BICYCLE BALL BEARINGS PATENT LEVER

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

> > Manufactured only by

THE WORTMAN & WARD MF'G CO

(LIMITED)

LONDON. ONT

Eastern I rance : 60 McGill. St., MONTREAL.

READ OUR CLUBBING LIST

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

Raise Your Galves!

Yes, we know your skim-milk has been through a cream separator and no trace of butter-fat remained in it, also that you are discouraged by many failures made by feeding raw grain meals in your skim-milk, but one way still remains, feed

Pearce's Canadian Calf Meal

which is a scientifically prepared, pre-digested food, one that will add more, and more easily digested nourishment, to your skim-milk than the cream separator has taken out, and at from one-quarter to one-third the price that you get for the butter-121.

See how cheap Pearce's Canadian Calf

Box of 28 feeds for \$0.25 0 50 60 .. 1.00 Sack of 136 50 pounds for 250 100 " 475 100

.. Correspondence Invited ..

JOHN S. PEARCE & CO.

Manufacturers of Live Stock and Poultry Food Supplies

LONDON. ONT.

DEAL DIRECT

IF YOU CAN USE ANY:

Grape Vines, Current Bushes. Ornamental Shrubs, Shade Trees, Norway Spruces or other Ever-greens, or any Fruit Trees or Plants, write to

E. MORDEN, NIADARA FA

for his Price List. Stock reliable and chenp and can be shipped to any point in Ontarlo in good order and season if order arrives early enough.

The JONES LOCKED WIRE FENCE



is the best fence in the Also mak-ers of Metallic Roofing and Siding. Write for catalogue

The Locked Wire Fence Co., Limited, London, Ont.



some. Select good advertising mediums and

you are sure of good results.

The man who is afraid to risk money in advertising will never rise above the lowest round of the ladder of business.

Every successful business owes its prosperity to honest and persistent advertising, backed by honest treatment of the customers secured

No great business that has dealt honestly with the public and persistently advertised as ever failed.

as ever failed.

The great Canadian business houses, such as the Masseys, Wilkinsons, Maxwells, Eatons, Sirry in and the other well-known firms who occupy a great share of public attention and patronage to-day had small beginnings, but their originators had faith in advertising and backed it up with money, courage and presistency.

courage and persistency.

Treat your customers with courtesy and scrumulous honesty. You can't expect a customer who has once got the worst of a

bargain to deal with you again.

Make your advertising interesting. If you secure an interested audience you are sure to get good results. Our column for stock notes affords a splendid opportunity in this direc-tion, and the advertiser who uses it discreetly never fails to obtain satisfactory returns.

Advertise in FARMING. It will give you better returns for the money invested than any other Canadian agricultural paper, because the rates charged are less in proportion to circulation than any other, and because it is the only paper devoting its whole space to the business interests of the farmer. It is the business interests of the farmer. It is read therefore only by those who are interested in improving the condition and productiveness of their farms and the quality of their stock—not by boys and girls whose interest is kept alive by the puzzle department or a continued story. It is also the only weekly agricultural paper in Canada, and as such offers to the advertiser many obvious advantages which other papers cannot possibly give.

If you would get the benefit of the spring trade advertice now. Delay means loss of business. The man who freely uses advertising space during the next few weeks will secure the trade you will lose by your procrastination.

crastination.

Watch the advertisements of the great Canadian and American business houses using the columns of FARMING. By following their example you will get the benefits of their experience.

The list of the business houses that constantly use the columns of FARMING includes all of the most successful manufacturing firms and the most experienced advertisers in Can-ada and the United States.

Publishers' Desk.

Freeman's Fertilizers. - Attention is called to the advertisement of The W. A. Freeman Co., Limited, of Hamilton, Ont., whose fertilizers have been in use by Can-adian farmers, gardeners and horticulturists for a number of years, and have been favor-ably spoken of by all. Write them for in-formation, prices, terms, etc., if you contem-plate purchasing this class of goods.

Power for All Purposes .- Messrs. E. Leonard & Son, of London, Ont., one of the largest as well as one of the oldest manufacing firms in Canada, are advertising their celebrated engines in this week's FARMING. This firm have established a continental reputation in their line of business and the output of their shops is everywhere recognized as being equal to the best productions of the best firms in the world. See their advertisement.

The Ploneer Seed House.—The long-established and reliable firm of seedmen, Messrs. John A. Bruce & Co., of Hamilton, Ont., send us their handsome illustrated cataogue of seeds for the farm and the vegetable and flower garden. It contains an extensive list of everything required by the agricultural and horticultural community with much information of a valuable character gained from an experience of half a century in Canada, theirs being the pioneer seed house of the Dominion. See their advertisement.

TEST CASE

TO FIND OUT WHETHER FARMERS READ THIS PAPER OR NOT.

FOR ONE WEEK we quote you Redpath's Granulated Sugar \$4.45; No. 2 Granulated, \$4.25; Light Yellow Sugar, \$3.00 per 100 pounds; 300 lbs. in bbi. Granulated, 320 in bbi Yellow Bigs to held 100 ibs., 20c. each; 2 galton pail Honey Drip Syrup, \$1.00; 25 lb. bea Bineless Fish, \$1.25; Digby Herring, 100 in box, 10c.; 10 lbs. of our Tea as advertised at \$2.50, this week \$2.25 (either Japan, Black or Blanded).

TERMS. Mention this paper and send cash with order F.O.B. Toronto.

If you do not receive our Spring Circular and Seed List send for one. The FARMERS' COOPERATIVE STORE.

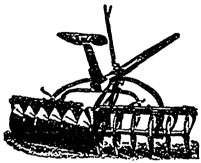
CO-OPERATIVE STORE.

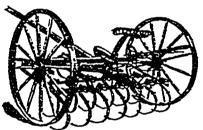
THE PEOPLE'S WHOLESALE SUPPLY CO.

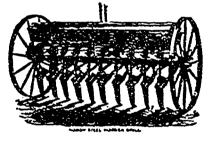
144-146 KING ST. EAST

TORONTO

R. Y. MANNING, MANAGER







The Buffalo All-Steel Disc Harrow.

This is the only Disc Harrow made or sold in Can-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, thus securing lighter draft. This machine is furnished, the serversible diamond steel points for the treth; also extra wide this le-cutting points can be furnished. Examine it and you will buy no other. points can be buy no other.

THE BEST DRILL MADE.

The Hoosier Needs No Introduction.

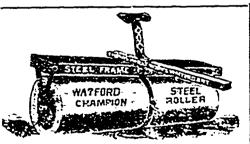
Over 40,000 Drills and Sceders of our manufacture in use in Canada. The only Drill made with lever for instant and perfect regulation of depth of hoe in al. kinds of son, while team is in motion. Sowash-solutely correct to scale; saves seed, as every kersol is deposited at a proper depth to grow. Parchase only the best and you will be satisfied.

We also manufacture linders, Respers, Mowers Rakes, Cultivators and Pulpers, as good as the best Send for illustrated catalogue.

NOXON BROS. MFG. CO., (Limited)

Ingersoll, Ont., Canada.

FARMERS



CHAMPION STEEL ROLLER

Weight about 1,200 lbs. Steel frame, removable bottom. Low birch to prevent weight on horses' nocks.

There are many different styles of R dlers, weight from 600 to 1,200 The adjoining cut shows our up to-date

CHAMPION ROLLER

with special pattern of end so structed as to prevent dirt from falling inside of drums.

All we ask is comparison. Your judgment will do the rest.

THOM'S IMPLEMENT WORKS

WATFORD - ONTARIO.

COLDSPRING TAMWORTHS



NORMAN M. BLAIN Coldspring Farm, St. Goorge.

JERSEY COWS AND HEIFERS FOR SALE

ich in St. Lambert blood at eszonebleprices. Some heavy with calf. All eglatered in the A.J.C.C.

FOR FULL PARTICULARS

Address

J. J. KEATOR, Deseronto,

Ont.

Shoemaker's Poultry Almanac.— We are pleased to find on our desk a copy of this very useful publication. The almanac itself is one of the most complete we have seen this year, and the information contained in the while book is so conveniently arranged and so valuable that it is difficult to give any ade quate idea of its merits within the limits of a short notice. It contains illustrated descriptions of all the different varieties of fowls, a treatise on the care and management of them and the treatment of the different diseases to which they are subject. Every poultry raiser should have a copy.

Evans' Seed Catalogue. - The seed catalogues for 1899 seem to be almost innumerable and of an order much superior to that of former years. One of the best of them is that of Mesers. Robt. Evans & Co., of Hamilton, Ont., which contains descriptions of a number of new varieties of seed. Evans' early potato is one of these and is described as a pure seedling of the Early Rose variety and consequently a thoroughbred. It has large, strong stalks, with luxuriant foliage, entirely covering the ground during the latest entirely covering the ground during the latter stages of growth and a tendency to conserve the moisture in the ground when most needed. The tubers are large and handsome in apprarance. It is the heaviest cropping early po-tato ever grown in the grounds of its origi-nator, while its flavor is unequalled and its flesh very mealy. It is said to yield seventy bushels per acre. Other noveliles include the Early Six Weeks potato, Quick Crop potato; the new early wrinkled pea "Gradus." Those interested should send for a copy of this excellent catalogue, which will be mailed free of charge.

BACK NUMBER WANTED.

If any reader can supply us with a copy of the Canadian Live Stock and Farm Journal for September, 1893, we shall be greatly obliged if he will kindly send us his address.

W. D. FLATT

HAMILTON P.O. and TELEGRAPH OFFICE



.... OFFERS FOR SALE....

TEN Choice Sharthorn Bulls, from six to twelve I months; twenty-five Cows and Heifers served by inported bull, Golden Fame =20056=; 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 notined.

YRSHIRES .. For Sale

The celebrated stock bull

"WHITE PRINCE"

A winner at the World's Fair, Chicago. Parties desiring a first-class stock bull cannot do better than secure this animal. Large White Yorkshire pigs of the bacon type for sale, also a standard bred mare in foal sired by Red Chief. Colt sired by Elm City.

JOHN H. DOUGLAS,

WARKWORTH, ONTARIO

H & J. McKEE, Brookside Farm, Norwich, Ont. H Breeders Ayrabire Cattle Silver Grey Dorkings.

YUILL & SONS, Meadowside Farm, Carleton Place, Ont., Brooders of Ayrshire Cattle, Shrop-a Sheep, Barkshire Swine and Basred Plymouth

NON-POISONOUS

The Original Non-Poisonous Fluid Dip.

Still the Favorite Dip, as proved by the testimony of our Minister of Agriculture and other large Breaders.

FOR SHEEP
Kilk Ticks, Maggots: Cures Scabs, Heals Old
Sores, Wounds, etc., and greatly increases and
improves growth of Wool.

OATILE, HORSES, PIGS, Etc. Cleanses the skin from all Insects, and makes the coat beautifully soft and glossy. Prevents the attack of Warble Fly.

Hears Saddle Galls, Sore Shoulders, Ulcers etc. Keeps Animals Free from Infection

Ro Danger, Safe, Cheap, and Effective.

BEWARE OF IMITATIONS.

Sold in large tins at 75 Cents. Sufficient in each to make from us to 40 gallons of wath, according to strength required. Special terms to Breeders, Ranchmen, and others requiring large quantities.

Sold by all Druggists.

Sond for Pamphlet.

Robert Wightman, Druggist, Owen Sound, Sole Agent for the Dominion.

Two Prize-Winning Sows

FOR SALE.

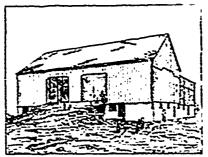
Seven months old. Both in farrow to our stock boar, "Royal First," winner of first prize at the Royal Show in 1898 in a large class. Also young stock of both exes

A. ELLIOTT & SON.

Established 1841.

53 Years in Use. WORK DONE WITH

SPEAK FOR ITSELF



M. Arian McMann, Elma Lounship. Hase-alls, 6121002 teet high. Built with Thorold Wall

ment Walls, SIx100x9 teet night.
Hydraulic Cement.

ELMA TOWNSHIP, Nov. 15th, 1898.
It gives me much pleasure to testify to the excellence of your Thorold Hydraelic Cement for building pur-

of your Thorold Hydraulic Cement for musuing 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 baro 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 withit for my borses and cattle. It has given splendid satisfaction, and I have no heutation in recommending it to those why require to use Cement.

My walls and floors are here for inspection, lots 21 and 23. Elma Township. I strongly recommend your Thorold Cement to all farmers who intend building barn walls or putting in stable floors.

Yours respectfully,

All.AN McMANE.

Alwood P.O., Perth Co., Ont.

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

AGENTS WANTED in unrepresented districts

ESTATE JOHN BATTLE THOROLD, ONT. Mention this paper.

Cheap Seed AND GOOD

We can help you get them. Send 8 cents in stamps and receive four packages of home grown seed "Twiss, new carly cabbage," Potomuc, the new tomato; Dirigo, the early carly corn, with our flower and vescable social catalogue, full of engravines. With one exception it is the largest vescable catalogue published. Cut off one of the home grown labels, write in the name of this paper and it whall count as 25 cents toward any order amounting to \$100, excepting our special collections in which we offer 35 packages seed of choice vescables for \$1.60, and 15 packages of selected flower seed, 40c.

3. J. H. GREGORY & SON.

🖁 J. J. H. GREGORY & SON, 🦉 MARBLEHEAD, MASS. <u>Xxxxxxxxxxxxxxxxxx</u>

Patent Roller and Ball-Bearing Galvanized Steel Wind Mills Towers and Flag Staffs "Maple Leaf" Grain Grinders. Iron and Spray Send for New Illus-trated Catalogue. OOLD HAPLE MUIR BRANTFORD CAN

The Spramotor

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

Mrs. Part.ngton would say. Many fruit-growers and farmers are induced to buy cheap prayers, for occ reason and another, and they always regret it.

Cheap sprayers are always in need of repairs, cheap sprayers are always in common or motify 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 rouble is to put a stop to it before it happens, or at least before it happens again.

ain.
The SPRAMOTORS are the result of the best

The SPRAMOTORS are the result of the best efforts of the brain est 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 feature.

The ShRAMOTORS shoot mixtures stronger and evener t an any, which fact has greatly increased their sales.

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 it, seed repairs.

Many times more SPRAMOTORS are used to day 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 rewers in Canada are using the SPRAMOTORS for whitewashing and disinfecting work

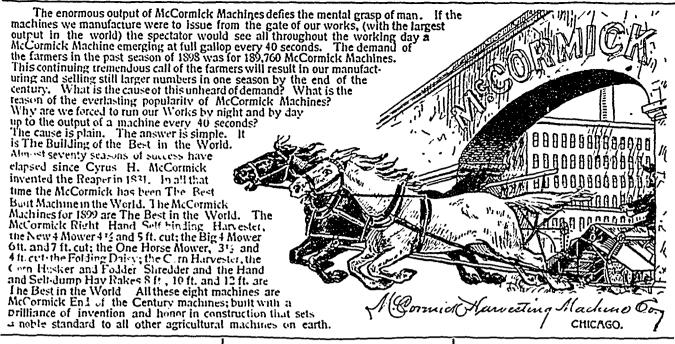
work

SPRAMOTORS are recognized as bring 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.

When replying to advertisementsplease mention FARMING



CHOICE AYRSHIRE BULLS

FROM IMPORTED STOCK.

We offer or sale Three (3) BULL CALVES from 9 to 13 months old, sire and dams imported, also 5 calves from 1 o 4 m inths, good in ividuals and from the very best milling strains obtainable in Scotland.

W. W. BALL SNEYNE.

(formerly Thos. Ballantine & Son)

"Neidpath Stock Faim." Straftord, Out.
Farm adj inscity, main line G.T.R.

Hermanville Tamworths

PIGS Ready to wear. Pig. #10.00 Pigs, \$18.00 Pigs, \$25.00

Cross-breds Hasf-price

Orders booked and filled as received.

Yorkshires Duroc-Jerseys Cross-breds

Every now in the herd has either been a winner, produced a winner by a winner, or out of a winner. No outer herd with such a record. Latters come in April, May and June. Orders now received. Address (P.O. on Farm), HERMANVI-LE PARM, P.E.I., Cau.

Golden Link Herd of Berkshires



I have the ist-prize boar under 12 months at Toronto for sale, and ist at Western Fair, also 2nd prize boas under 6 mos at Toronto. Have 4 first-class boars fit for service, 5 and 6 mos old Have 2 of the sows for sale that tried for 1st of the three pigs beed from one sow, and the 2nd and 3rd prize sows under 6 mos. These winning sows are bred from Perfection, the unbeaten yearling. Have a few good sows bred for sale. Have 25 head of young pigs from 10 to 8 weeks. Am booking orders for March and April pigs.

T. A. COX, Brantford, Ont.

HENRY ARKELL, Arkell, Ont.

Importer and Breeder of OXFORD-DOWN SHEEP

Kwos in lamb to Royal Warrick and Imp. Hero 5th for sale. PRICES REASONABLE

MICHORY TILL STOCK FARM



3A yrshire Bull Calves from dame that have won milk

tests.

Great Bargains if sold be-fore winter sets in Write or come and

NAAMAN DYMENT, Clappison's Corners, Ont

Shoice Ayrshires and Poultry

FOR SALE—A number of Choice Young Bulls, Seed by Jock Motton and from heavy milking dam; also a few Heifers. A large number of choice Barred Recks and Black Spanish, and a few fine Toulouse Gene and Cayuga Ducks.

Jas. McCormack & sons. ROCKTON, ONTARIO

CHOICE BERKSHIRES FOR FEBRUARY

2 good young BOARS 10 months o'd, weighing about 22010s each, at \$12. Most go to make room for young pige 4 hose stW s, about same age, due to farrow in April and May. Bred to a grand young boar 1 om imported 5ste and Dam. Price \$18. Also fine bot of Boars and Sows 4 months old.

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

CHEAP CATTLE FEED

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

JAMES WILSON

Monkland Mills, Fergus. Ont.

EGGS FOR HATCHING FROM

llarred Plymouth Rocks, Silver Wyandottes and S. C. W. Legborns at \$1.00 pet 13. Also Pekin and Rocen duck eggs at \$1.40 pet 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 preduction as well as quality.

W. R. GRAHAM, Belleville, Ont.

Aursley Stock Farm.

A.J.C.C. JERSEYS

et. Lumbert Blood.

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



PRICES ARE RIGHT. Delivered 'nywhere. SILLS, SHAVER & SON,

WINCHESTER SPRINGS, ONT.

SHIRE STALLION FOR SALE

FIRE SALE.

Fight years o'd. Stan's seconteen hands, 2000.

Bit the description. Sure getter Perfect by words in every topest. RIGHT EVERY WAY. Durin, lesses also for sale—three and five months.

Bixed Sows for sale.

JOHN SEMPLE Bex 73, Tottenham

Dorset Horned Sheep Wanted

150 Ewes, age two to four years old, with Lamb. Advise promptly, with full information concerning same.

W. D. GRANT. Newport, Herkimer Co., N. Y.

SITUATION WANTED

A competent man, thoroughly experienced in care and management of all kinds of live stock, desires situation as assistant on good stock and general farm. Was brought up on stock farm in Scotland, and has had four years' experience in Canada. Best of references given. Address, "STOCKMAN," care of FARMING, Torbuto, Ont.

A. ELLIOTT, Pond Mills. Ont.

Embden Geese, Pekin Ducks, Bronze, White Hol-and and Narraganset Turkeys. Collie Dogs and Oxford Sheep. All of the best strains.



ENIERPRISE HAN'FG CO., - TORONTO, ONT.



also of the GVPHERS INCUBATOR

which is delivered freight paid to every purchases.
The machine require shearing se suited markers. Soud 10
cents and set the look. Creater FIRE.
THE CYPHERS INCUBATOR CO. Box 69. WAYLAND, N.Y.

WE TRUST THE PUBLIC

hroodern, Penling Henric, etc., was apon receipt of 25 etc. Von Callin Intrinstor Co., 80 Adams St., Delaware City, Del.

SHOEMAKER'S POULTRY and Almanac for 1899. 160 perce. 100 illustrations of our jeropaters, Recoders, Prolity illustration, of the law to raise chickens successfully, their care, diseases and remodice. Diagrams with full descriptions to build enough to be and about 13CT TATURE. BEINDERS and Tany to positing, with lowest Price. Price 2017 156. Select C. Shoemaker, Freeport, Ill., U.S. A.



incubators and Brooders. Self-Regulating.
Special low price for first in any locality. Agents wanted everywhere. Eggs for hatching, by the hundred cheap. B.
P. Rocks a specialty. Catalogue free.
Address Geo. S. Singer, Cardington, O.



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 Foes:-Cattie Breeders' \$1; Sheep Breeders', \$1; Swine Breeders', \$2. BENEFITS OF MEMBERSHIP.

BENEFITS OF MEMBERSHIP.

Bach 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.

A member of the Sheep Breeders' Association is allowed to regist. 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 0,000 copies of this directory are mailed morethly. 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 while 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 Garette, 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.

Parliament Buildings, Toronto, Ont.

STOCK FOR SALE.

The list of stock for sale will be published on the 21st of February.

STOCK FOR MANITOBA.

Another car of purebred live stock will leave Ontario for Manitoba and the Northwest early in March. Parties wishing to send stock with this carload are requested to com-municate with the Secretary of the Associ-ations, F. W. Hodson, Parliament Buildings, Toronto.

ANNUAL MEETING OF THE DOMIN-ION SHEEP BREEDERS' ASSOCIATION.

The annual meeting of the Dominion Sheep Breeders' Association convened in Shaftes-bury Hall, on February 7th, 1898, the Presi-dent, Mr. D. G. Hanmer, in the chair. The President's address, which will be printed at a later date, was delivered.

It was moved by D. McCrae, seconded by Wm. Linton, that it having come to our knowledge that certain parties have shipped stock fraudulently under our special privileges, we hereby request our directors to take such steps as may aid the railway com-panies to prevent such fraud in future and bring the guilty parties in the instance stated

The report of the Secretary was then presented. Acting upon the suggestion contained therein, it was moved by Wm. Linton, seconded by D. McCrae, that the executive of this association, namely, D. G. officers of this association, namely, D. G. Hanmer, A. W. Smith, and F. W. Hodson, with power to add to their number, be the representatives from the Dominion Sheep Breeders' Association on the deputation from the various live stock associations to wait on the Oniario Cabinet, to lay before them a request for a grant of \$1,000, to be used for the purpose of extending our interprovincial trade in purebred live stock.

Other matters contained in the report were

left in the hands of the directors.

After appointing the following officers and expert judges, the meeting adjourned.

OFFICERS FOR 1898.

President	.D.G.	Ha	nmer. Br	rford.
Vice-President				
	L	de	2.	-
Secretary-Treasurer	.F. V	W.	Hodson	, To-
•		nto.		•

DIRECTORS. Cotswolds......D. McCrae, Guelph.

	. W. Whitelaw, Guelph.
-	John Kelly, Shakes-
Dorsets	R. H. Harding, Thorn-
	John Jackson, Abing- don.
Oxfords	Jas. Tolion, Walkerton.
Lincolns	.Wm. Oliver, Avon- bank.
	W. M. Smith, Fairfield Plains.
Shropshires	R. Gibson, Delaware.
On ario Agricultural College	G. E. Day, Guelph.
General Director	J. C. Snell, London.
Auditor	J. M. Duff, Guelph.

REPRESENTATIVES TO FAIR BOARDS.

Toronto Industrial	F. W. Hodson, To-
	Jas. Russell, Richmond Hill.
Ottawa	Jos. Yuill, Carleton Place.
Montreal	H. D. Smith, Compton, Oue.
London	A. W. Smith, Maple Lodge.
	R.H. Harding, Thorn-dale.

DELEGATES TO THE BOARD OF THE PROVIN-CIAL WINTER FAIR.

R.	H.	Harding.	Thorndale.
A.	W.	Smith	Maple Lodge.
125	Te	lton	Walkerton.

EXPERT JUDGES.

Cotswolds.—Jas. Russell, Richmond Hill; Wm. Thompsor, Uxbridge, Thos. Teasdale, Concord; D. McCrae, Gueiph; H. Rawlings, Ravenswood; Val. Ficht, Oriel; J. C. Snell, London; T. Hardy Shore, Glanworth; Geo. Weeks, Glanworth; Wm. Ward, Uxbridge; W. G. Laidlaw, Wilton Grove; Wm. Rae, Arkell; Joseph Ward, Marsh Hill; John Park, Oriel; Jos. D. Davidson, Belhaven; A. Johnston, Greenwood; John Goodfellow, Maxville; Andrew Russell, Carrville; A. J. Watson, Castlederg.

Leicesters.—Jas. Gaunt, St. Helen's; Jno. Wells, Galt; Hardy Shore, Glanworth; Abraham Easton, Appleby; E. Wood, Ap-

pleby; Wm. Parkins n. Eramosa; E. Parkinson, Eramosa; John Orr, Galt; Wm. Watt, Salem; Wm. McIntosh, Burgoyne; Thos. Currelly, Fullarton; R. Eastwood, Mimico; John Kelly, Shakespeare; Andrew Thompson, Fergus; J. K. Campbell, Palmerston; J. C. Sneil, Londor; G. B. Armstrong, Teeswater; John Gibson, Denheid; C. E. Wood, Freeman; Jos. Gaunt, St. Helen's; J. M. Gardhouse, Highfield; John Laidlaw, Wilton Grove; Andrew Whitelaw, Guelph; Wm. Wnitelaw, Guelph; R. C. Martin, Marysville; Alex. Smith, Maple Lodge; Alex. Waldie, Acton; Walter Nichol, Plattsville; II. G. Arnold, Maidstone; Prof. Craig, Ames, Iowa; J. hn Marshall, Cass City, Mich.; J. W. Murphy, Cass City, Mich.; Prof. Curtiss, Ames, Iowa; D. C. Graham, Cameron, Ill. Cameron, Ili.

City, Mich., J. W. Murphy, Cass City, Mich.;
Prof. Curtiss, Ames, Iowa; D. C. Graham,
Cameron, Ill.

Dorsets. – John Jackson, Abingdon; J. G.
Hanmer, Mt. Vernon; Richard Gibson, Delaware; W. H. Beattie, Wilton Grove; Prof.
Curtiss, Ames, Iowa; This. W. Hector,
Springfield on the Credit; G. P. Everett,
Mt. Vernon; Mortimer Levering, Lafayette,
Ind.; Arthur Danks, Allamuchy, N.J.;
Prof. Craig, Ames, Iowa; G. E. Day,
Guelph; Jas. Tolton, Walkerten; H. N.
Gibson, Delaware; R. H. Harding, Thorndale; M. A. Cooper, Washington, Penn.;
J. E. Wing, Michamithurgh, O.
Southdowns. — John Miller, Markham;
Wm. Martin, Binbrook; H. N. Gibson,
Delaware; John Jackson, Abingdon; T. C.
Douglas, Galt; Henry Arkell, Teeswater;
W. H. Beattie, Wilton Grove; A. Simenton,
Blackheath; Geo. L. Telter, Paris; J. G.
Hanmer, Mt. Vernon; J. Scott, Abertoyle;
G. Baker, Simcoe; Jas. Smith, Mt. Vernon;
H. B. Jeffs, Bond Head.
Oxfords.—Smith Evans, Gourock; Jas.
Tolton, Walkerton; R. J. Hine, Dutton;
Kenneth Finlayson, Campbellton; Henry
Arkell, Arkell; Wm. Dickison, Mildmay;
Peter Arkell, Teeswater; Herbert Wright,
Guelph; John Harcourt, St. Ann's; J. H.
Jull, Mt. Vernon; Henry Arkell, Teeswater;
John E. Cousins, Harriston; Arch. McKenzie, Corwhin; R. E. Birdsall, Birdsall; Geo.
McKerrow, Madison, Wis.; W. A. Shafor,
Middleton, O.; J. C. Williamson, Xenia,
O.; J. V. Cooper, Picton; Wm. Newman,
Cherry Valley; Wm. Arkell, Teeswater;
Jas. L. Tolton, Walkerton; L. Parkinson,
Greenock.

Hampshires and Suffolks.—Henry Arkell, Greennck

Jas. L. Tolton, Walkerton; L. Parkinson, Greenock.

Hampshires and Suffolks.—Henry Arkell, Arkell; R. Gibson, Delaware; I. Hiller, Thorntown, Mich.; John I. Gordon, Mercer, Pa.; John A. Craig, Ames, Iowa.

Lincolns.—J. T. Gibson, Denfield; Wm. Oliver, Avonbank; E. Parkinson, Eramosa; T. E. Robson, Ilderton; G. Walker, Ilderton; John Geary, London; J. C. Snell, London; R. W. Stevens, Lambeth: L. Parkinson, Eramosa; T. Rolph, Ballymote; L. Goodwin, Munroe; John Mitchell, Glencoe; John White, Eramosa; Alex. Smith, Maple Ledge; Wm. Whitelaw, Guelph.

Mernos.—W. M. Snith, Fairfield Plains; R. Shaw, Glanford Station; W. H. Beattie, Wilton Grove; Rock Baitey, Union; Andrew Tirrell, Wooler; G. P. Everett, Mr. Vernon.

Shropshires.—R. Gibson, Delaware; G. P. Everett, Mr. Vernon, J. Conworth, Paris, W. H. Beattie, Wilton Grove; A. Brown, Picton; R. Miller, Brougham; 1. Hanmer-Butford; Jax. McFarlane, Clinton; J. Camp; bell, Woodville; D. G. Hanmer, Butford; Jas. Phinn, Hespeler; M. Levering, Lafayette, Ind.; A. Elliott, Galt; J. Dickin, Milton West; J. S. Thompson, Gas City, Ind.; Geo. Allen, Allerton, Ill.: W. G. Petitt, Freeman; D. J. Campbell, Wood-

GAZETTB-Continued.

G. Phinn, Hespeler; Chas. Calder, Brooklin; H. N. Gibson, Delaware; Geo. Hindmarth, Ailsa Craig; C. W. Gurney, Paris; W. E. Wright, Glanworth; J. Miller, Brougham; H. Hanmer, Burlord; Prof. Curtiss, Ames, Iowa; Prof. Craig, Ames, 1082

Judges for Toronto-Mortimer Levering, Lafayette, Ind.; Geo. Hindmarsh, Ailsa Craig; G. P. Everett, Mt. Vernon, substi-

Judges for London—W. G. Pettit, Free-man; J. P. Phinu, Hespeler, substitute. Judge for Ottawn—R. Gibson, Delaware. Judge for Fat Stock Show—Prof. Curtiss, Ames, Iowa; Prof. Craig, Ames, Iowa, sub-

The Board of Directors of the Dominion Sheep Breeders' Association convened in the Palmer House, Tuesday, February 7th, at 10 a.m. The suggestions contained in the report of the Secretary were given careful consideration. The meeting then adjourned to

meet again at 5.30 p.m.

It was decided that ection 1, "Ewe, one year and under two" be struck out, and prizes \$10, \$8, and \$4 be given in each purebred class for dressed carcasses. The association will offer to buy the carcasses after the close

of the exhibition at the highest market price.
It was decided that ten per cent, be added to the prizes awarded to any exhibitor in the sheep department upon his furnishing the sec-retary within fourteen days after the exhibition particulars of a practical nature as to feeding and care of the sheep exhibited by him; the judges of the essays to be Dr. Jas. Mills, O. A. C., Guelph, and John I. Hobson, Gurlph.

The directors advised that the dates for holding the show be the first full week in December, and that the time of holding the show be extended to four days.

The judges recommended for the sheep department are:

parlment are:
Shropshites, Southdowns, Dorsets and Merinos—Prof. C. F. Curtiss, Ames, Iowa.
Leicesters, Lincolns and Cotswolds—James Gaunt, St. Helen's.
Grades—Prof. John A. Craig, Ames, Iowa.
Oxfords, Suffolks and Hampshires—Geo.
McKerrow, Sussex, Wis.
It was resolved that the printing and advertising be conducted on lines similar to those of last year.

of last year.

THE DOMINION SWINE BREEDERS' ASSOCIATION.

A meeting of the directors of the Dominion Swine Breeders' Association was held in the Palmer House, Febr ary 8th, 1899, at 8 p.m., the president, Mr. Geo. Green, in the chair.

The secretary presented his annual report, which were adopted.

the secretary presented his annual report, which was adopted. It was decided, in order to develop a dressed poultry department, that two-thirds of the prizes to be awarded be offered by this association, the remainder to be paid out of the receipts of the show.

Messrs. Jos. Featherston, G. E. Day, and F. W. Hodson were appointed a committee to make full arrangements for conducting

to make full arrangements for conducting comparative swine experiments and to take full charge of the work, the experiments to be carried on along the lines laid down in the report of the secretary. Arrangements will be made with reliable farmers in Ontario to feed hogs along certain lines, and, when ready feed hogs along certain lines, and, when ready to kill, the packers have agreed to co-operate by paying the highest price for all hogs in the experiments, and also to make a report on the different carcasses. The object in view is to ascertain the cause of solt bacon. The Executive Committee, with power to add to their number, were appointed a committee from the Swine Breeders' Association to form part of a deputation to wait on the Ontario Cabinet to ask for a grant of \$1,000 for the purpose of extending the interprophical trade in purpose extending the interprovincial trade in pure bred live stock.

SWINE RECORDS.

It was unanimously decided that the secretary make arrangements to have two volumes of the swine records published this year, and that all members for 1899 be given the two volumes. This method will bring the pedigrees published up to date, i.e., the pedigrees published at the end of any year being those received during that year. Hereatter mem

"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.

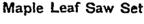
DAVID MAXWELL & SONS

ST. MARYS, ONTARIO, CANADA.

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 scooses 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 Sawa now made, perfect temper from tooth to back. Now, we ask you, when you go to buy a Saw, to ask for the Marks Laav, Razon Street, Szcerar Tempers Saw, and if you are told that some other saw is a 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 Steet" brand. It does not pay to buy a Saw for one dollar less, and lose 26 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.







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 now.

Manufactured only by SHURLY & DIETRICH, Galt, Ont.

WHEN WRITING TO ADVERTISERS PLEASE MENTION FARMING

GAZETTE-Continued

ters of the Swine Breeders' Association will receive the volume of the record issued at the end of the year for which they have been a member, unless some other volume is specially asked for.

The directors also decided to increase

The directors also decided to increase the prizes of any exhibitor ten per cent, upon the same conditions as explained in the case of the shrep breaders' meeting. The entry fees for swine at the Provincial Fat Stock Show were raised to 75c. per entry. Barrows exhibiting in the purebied classes will not require to be recorded. All that is necessary will be to turned to the secretary of the sary will be to torward to the secretary of the show the pedigree of the animals on the regular application forms.

ular application forms.

The judges appointed in the swine department are as follows:

Chester Whites, Poland Chinas, Duroc-Jerseys and G. B. Hood, Guelph. Reserve,

C. W. Yapp, Bradiord.

Berkshires, York-hires, Suffolks and Essex, and Tamworths: W. H. Jones, Mt. Elgin, and R. H. Harding, Thorndale. Reserve, C. W. Yapp.

Sweepstake prizes to be awarded by the acting judges in bith classes.

Bacon sections: Jas. Leach, of the Wm. Davies Packing Company, Toronto; Chester Fearman, Hamilton, and C. C. L. Wilson, Ingersoll.

The prizes in the purebred classes in the swine department will remain the same as last year. Following are the prizes for export bacon hogs:

Class 25-EXPORT BACON HOGS.

2 Improved Berkshires	\$15	\$10	\$5
2 Improved Yorkshires	15	10	5
2 Tamworth		10	5
2 Chester Whites	. 15	10	5
2 Poland Chinas	. 15	10	5
2 Duroc-Jerseys		10	5
2 Suffolks or Essex	. 15	10	5
2 Grades or Crosses	. 15	10	5
Class 26—SWREPST	`AKE.		

2 Best export bacon hogs, any breed......\$15 \$10 \$5

Class 27.

Export bacon hogs, dressed, to be brought to the show alive, and killed the first or second day of the exhibition.

	ıst.	2nd.	31d.
2 Imp. Berkshires	.\$20	\$15	\$10
2 Imp. Yorksh res	. 20	15	10
2 Tamwortts		15	10
2 Chester Whites	. 20	15	10
2 Poland Chinas	. 20	15	10
2 Duroc Jerseys	. 20	15	10
2 Suffolks or Essex	. 20	15	10
2 Grades or Crosses	20	15	10
SWEEPSTAR	R.		

2 Best earensses, any breed..\$25 \$15 \$10

THE DOMINION CATTLE BREEDERS ASSOCIATION.

The directors of the Dominion Cattle The directors of the Dominion Cattle Breeders' Association convened in the Palmer House, Toronto, February 8th, at 10 a.m. The circular now being issue to by the railway companies, which allows calves, sheep and swine to be penned off in one end of the car when being ship red in less than car-load lots. of three or more, was presented for approval. It was decided that the secretary make such changes in the cucular as he c nsidered in the best interests of the preeders.

THE PROVINCIAL WINTER SHOW.

The Association decided to increase the prizes in the C-ttle Department ten per cent, on conditions similar to those mentioned in the report of the Dominion Sheep Breeders' Association, the ju ges to be Dr. Jas. Mills and Mr. John I. H bson.

It was also decided that the Association recommend that the show hereafter be held during the Erst full week in December and continue for four days.

A WONDERFUL CHURN.

I have been in the dairy business all my life, and have many times churned for an hour before butter would appear, so when I heard of a churn that would churn in a minute I concluded to try it. Every day for a week I used it, and not only could I churn in a minute, but I got more and better butter than with the common churn. This is very important information to butter makers. The churn works ea-liy and will churn an ordinary churning in less than sixty seconds. I have sold wo dozen of these churns in the past month. Every butter maker that has sees me churn in less than a minute bought one. You can obtain all desired information regarding the churn by addressing Household Mfg. Co., Second and Locust Sta, St. Louis, Mo., and they will give you prompt and courteous attention. A DAIRYMAN

THE SEASON OF DOG SHOWS
and expoure is at hand. You don't want to
lose your youngsters. With Spratt's newstyle Condition Tablets and Distemper Cn e you are safe. Send for full list of
m demixed modicines to Spratt's Patent, 229 to 245
East 66th St., New York, Manufacturers of all kinds
of Dg and Poultry Supplies.
This month we draw attention to the following
stems of our big list of Poultry Supplies:—Ground
Beef for winter feed, Cardiac (a tonic powder), Chick
Meal for early youngsters. With the three above
mentioned in stock you lose no birds.

SPRATT'S PATENT, Limited,

239 to 245 East 56th St., New York.

Manufacturers of all kinds of Dog and Poultry Supplies.

VOLOR and flavor of truits. 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.

BRUCE'S SELECTED

The criss as farmer who is more parts ular about quality than price buys our selected and recleaned Clovor and Grass Seeds, which are sold at very mode ate rates. Wite for our special prices, stating quantity required.

SEED GRAIN.

A change of seed invariably increases the product when a good article is procured. We effer carefully recle-ned samples of Barley, Oats, Field Peas, Fedder Corn, etc.

ROOT SEEDS.

Our stocks of Field Carrors, Mangel Wurzels and Turnip seeds are carefully grown from transplanted bulbs by the most experienced growers in Britain and France; and the Farmers in British Columbia, Manutoba, and the Maritime Provinces make their and Quebec. Write for our Illustrated Seed Catalogue, which is mailed free.

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

Pumping Windmills

> AGENTS WANTED R. BRUCE

551 William St., - - LONDON, Ont.

A FIRST-CLASS INCUBATOR FOR SALE.

ADDRESS-

FARMING, TORONTO,

Manure Now

Before the snow goes off, or at least before the mass of gravit water drains off the soil.

Observe this Rule in Using

ALBERTS'

Thomas-Phosphate Powder

or results may prove disappointing.

WALLACE & FRASER

58 Canada Life Building, TORONTO, ONT. ST. JOHN,

N.B.

GAZETTE-Continued.

In the dairy department it was decided that no cow over 36 months should by given first prize which is not at at the time of the show producing at the rate of ten pounds of butter per week, nor a second or third prize unless producing at the rate of seven pounds of butter per week. Heilers under 36 months shall be producing at the rate of eight pounds of butter per week in order to obtain a first prize, and seven pounds of butter per week in order to obtain a second or third prize. The number of pounds of butter shall be worked out on an eighty per cent, basis.

The changes in the prize lists are as fol-

The changes in the prize lists are as fol-

In class 1, for "Heifer, 2 year and under "and "Heifer, under 2 years," the prizes will

3" and "Heifer, under 2 years," the prizes will be 1st, \$10; 2nd, \$8; 3rd, \$5.

In classes 2 and 3 for "Cow or Heifer, 3 years and over," the prizes will be 1st, \$15; 2nd, \$10; 3rd, \$5. Other prizes in the cattle department remain as la-t year.

In the dairy department all prizes will be 1st, \$20: 2nd, \$15; 3rd, \$10.

ANNUAL MEETING OF THE DOMINION CATTLE BREEDERS' ASSOCIATION.

The annual meeting of the Dominion Cattle Breeders' Association was held in Shaftes-bury Hall, Toronto, on February 9th, 1899. The report of the secretary treasurer was read and adopted, and instructions given to have it printed and distributed among the stockmen of the Dominion.

Messrs Ar hur Johnston, Richard Gibson and Dr. Mills were appointed a committee from the Cattle Breeders' Association to form part of the deputation to wait on the Ontario Cabinet to ask for a grant of \$1,000 for the purpose of increasing the inter-provincial trade in purebred live stock.

The Executive with Mr. John A. McGillivray were appointed a committee to investigate the fraud in connection with reduced rates on shipments in carload lots of purebred stock to Manitoba; this committee will decide as to what steps should be taken in the matter so as to protect the interests of the associations

and the railway companies.
It was moved by Richard Gibson, seconded by Jas. Russell, that we, the Dominion Cat-tie Breeders' Association, in annual meeting assembled, do hereby desire to impress upon the Dominion Government the desirability of allowing thoroughbred cattle to be imported without being subjected to the tuberculin test, and that the same order shall apply to cattle being imported from the United States, as soon as the United States authorities shall pass a similar order as regards Canada. Carried unanimously.

OFFICERS AND DIRECTORS.

President...... John I. Hobson, Guelph. Vice-President......H. D. Smith, Compton, Que. and Vice-President. Henry Wade, Toronto. Secretary-Treasurer. F. W. Hodson, Toronto Vice Presidents (representing the different provinces): Ontario......J. C. Snell, London. Manitoba......Hon. Thos. Greenway, Winnipeg. Northw'st Territories W. E. Cochrane, High Que. Nova Scotia..... W. W. Black, Amherst, N.S. New Brunswick. . . T. A. Peters, Fredericton, N.B.
Prince Edw'rd Island. Senator D. Ferguson,
Charlottetown, P.E.I. British Columbia. A. C. Wells, Chilliwack, B.C. Newfoundland. Hon. Thos. C. Duder, St. John's, Nfld.

Auditor. J. M. Duff, Guelph. Directors: Shorthorns.....Arthur Johnston, Green-Ayrshires.....D. Drummond, Petite Cote, Montreal, Que.



WE GIVE this fluo WATCH, with a chain and charm, the for seiling 3 dozen gold-topped, enamobacked lever Collar Buttons at 10c each, or a lady a watch and quard for seiling 3 dozen to Money Required. You run no risk Write and we sen the Buttons, posture money, and we send watch, free of all charge. Unsold buttons returnable. Liberal complision if preferred Be the first in your field. Bend our mane and address to-day. In writing, ment of the paper.



Considering what this machine will do, no price is too high for it. Remember, every Sprayer is guaranteed to do all we say, or money returned.

EVANS ROBERT

SEED MERCHANTS HAMILTON, ONT.

Sole Proprietors for Canada. AGENTS WANTED in every city, town, and village. If you want to make from \$2 to \$5 per day procure an agency if possible for our Electric Sprayer.



BETTER THAN ALL OTHERS!

The Improved DOUBLE LEVER and ROLLER-BEARING

It does not require a "crank" to work the Improved "QUEEN" CHURN. The eaviest 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.

GAZETTE-Continued.

Holsteins......G. W. Clemons, St. George.

Jerseys......R. Gibson, Delawaro.
Guernseys......W. E. Butler, Dereham

Centre.

Ontario Agl. College, G. E. Day. O. A. C., Guelph.

Representatives to Fair Boards:

Toronto Industrial. G. E. Duy, Guelph, and J.M. Gardhouse, High-

field.
Ottawa......J. G. Clark, Ottawa, and H. D. Smith, Comp-

ton, Que.
R. Gibson, Delaware, and T. E. Robson, nobno.I Ilderton.

Brantford G. W. Clemons, St. George, and J. R. Alexander, Brantford.

Delegates to the Board of the Provincial Winter Fair: John I. Hobson, Guelph; G. W. Clemons, St. George; and Richard Gibson, Delaware.

THE PROVINCIAL WINTER SHOW.

A meeting of the directors of the Provincial Winter Show convened in the Palmer House, Toronto, Friday, February 10th, at 10 a.m. The delegates from the various live 10 a.m. The delegates from the various live stock associations were as follows: Delegates from the Cattle Breeders' Association—John I. Hobsor, Guelph; G. W. Clemons, St. George; Richard Gibson, Delaware. Sheep Breeders' Association R. H. Harding, Thorndale; A. W. Smith, Maple Lodge; Jas. Tolton, Walkerton; D. G. Hanmer, Burford. Swine Breeders' Association—Geo. Green, Fairview; J. E. Brethour, Burford; G. B. Hood, Guelph. Butter and Cheese Association of Eastern Cntario—H. Wade, Toronto. Toronto.

The officers, directors and committees for 1899 are as follows:

OFFICERS.

President, John I. Hobson, Guelph; vice-president, J. C. Snell, London; secretary-treasurer, F. W. Hodson, Toronto.

COMMITTEES.

Executive and Programme -- President, vice-president, secretary, and Messrs. J. E. Brethour, Burford; Jas. Tolton, Walkerton; H. Wade, Toronto; G. W. Clemons, St. George.

Committee on Cattle—John I. Hobson, G. W. Clemons, Richard Gibson.
Committee on Sheep—R. H. Harding, A. W. Smith, Jas. Tolton.

Committee on Swine-G. B. Hood, J. E.

Brethour, Geo. Green.
Dairy Committee—G. E. Day, Guelph;
H. Wade, G. W. Clemons, R. G. Murphy,
Elgin; Daniel Drummond, Petite Cote,

Montreal, Que.
Poultry Committee—J. E. Meyer, Kossuth; Robert H. Essex, Toronto.
Reception Committee—John I. Hobson, J.
C. Snell, Arthur Johnston, Henry Wade, and
F. W. Hodson.

Superintendent of Building-D. G. Hanmer, Burford.

official Reporter—G. W. Green, Toronto.
Judges in the cattle department—Thos.
Crawford, M.P.P., Toronto; James Smith,
Brantford. Reserve, T. O. Robson, St.
Mary's. Referce, J. T. Gibson, Denfield.
Judge in charge of the dairy test—G. E.
Day, Gueloh.

Day, Guelph.

Judges for conformation—D. Drummond, Petite Cote, Montreal, Que.; and A. C. Hall-man, New Dundee.

man, New Dundee.
Judges in the sheep department—Judges nominated by the Sheep Breeders' Association were confirmed, and in each case a reserve judge was added. Prof. J. H. Grisdale, Ottawa, was appointed a reserve judge for Leicesters, Lincolns, and Cotswolds, and also for Grades: Henry Arkell, Treswater, reserve judge for Shropshires, Southdowns, Horned Dorsets, and Merinos, also for Oxfords, Hampshires and Suffolks.

The judges recommended by the Swine

The judges recommended by the Swine Breeders' Association were confirmed.

It was decided that the show be held on the 5th, 6th, 7th and 8th of December. The

Griffiths' VeterinaryMenthol Liniment

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



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

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

It never blisters or removes the hair; should

Sold by Druggists everywhere— 25 and 75 Cents

The GRIFFITHS AND MACPHERSON CO. SOLE PROPRIETOR

TORONTO and VANCOUVER, B.C. ananawaanan kamaran da

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

To take orders in their section for the famous land

Alberts' Thomas-Phosphate Powder (Reg.) Purity and analysis guaranteed. Correspond at once, as fell dressing of the land is important.

WALLACE & FRASER

Canada Life Juilding, TORONTO

EADING COLLEGES OF CANADA

TORONTO

THE

Invariably goes to the one with best brain—one who has education, special training. Why not qualify for one of the best pirces 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. White for prospectus.

W. H. SHAW, Principal.

Yonge and Gerrard Sts., TORONTO.

STRATFORD.

MONE BETTER IN THE DOMINION !



STRATFORD, ONT.

A Commorcial School of the Highest Grade. I wice as large as many of the commercial schools in the larger cuies; enjoyen large patronage; Staff of Nino Male Teachers; moderate rates; board cheap. Students aumitted at any time. Write for beautiful Catalogue.

W. J. ELLIOTT, Principal.

HAMILTON

HAMILTON

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

R. E. GALLAHER, Principal.

Patchall

Rubber Goods Rubber Coats Rubber Boots Rubber Overshoes Half Solo Rubbers

Cloth Goods Binder Canvas Grain Bags Mail Bags Your Pants

PATOHALL will not do impossible things. It will not make a worn out garment new, nor mend one run over by a railway train, but it will mend all as stated above, and nothing less. Eight patches, Sinches square, for a cent. If you can ot obtain it from your hardware dealer, send 25 cents and we will mail a can to your address, prepaid. Manufactured by

DOMESTIC SPECIALTY CO.

Bamilton, Ont., Canada.

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 Manufactories: GUELPH, Ont.

THE BELL ORGAN & PIANO CO., LIMITED

GAZETTE-Continued.

hours at which stock will be required to be on hand and the hours at which they will be al-lowed to leave, are left in the hands of the

Moved by James Tolton, seconded by J. E. Bre, hour, that \$40 for advertising be divided between the Farmer's Advocate, FARMING, and the Weskly van.

It was decided on motion, that the place for holding the show should not be decided at this mee ing, but that applications should be received by the secretary. The pre-ident and secretary should be a comm tiee to visit the places making application, with a view to accertain facilities of such places. If thought wise by the president and secretary, the board of directors shall be called together for the purpose of selecting a place. If the president and secretary do not consider it necessary the board will n t be called together, but shall receive full particulars from the secretary by letter.

The rules and regulations and prize list as amended by the various associations were accepted. It was also decided that it will not be necessary hereafter to record wethers, they being subject to the same conditions as barrows. These conditions are set forth in the report of the Swine Breed rs' meeting.

The rules and regula ions and the prize list for the poultry department were left in the hands of the poultry committee. The passen-ger rates were left in the hands of the ex-The passenecutive.

The financial statement of the secretarytreasurer was presented and accepted, after which the meeting adjourned

INSTITUTE MEETINGS.

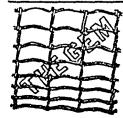
The following is the average attendance at meetings, rep ris of which have been re-ceived since the last list published:-

Addington	
Algoma, Centre	31
Brant, South	52
Cornwall	108
Glengarey	113
Grey, S wih	196
Hastings, East	Š6
Lanark, North	179
Manitoutin, East	77
Middlesex, West	78
	56
Stormont	
Waterloo South	141
The following is a list of the members	IC.
ceived to ce the last fist published.	
Addington	9
Addington	
Addington	107
Addington	107 25
Addington Algoma, Centre Brant, S uth Cornwall Glengary	107 25 13
Addington Algoma, Centre Brant, S uth Cornwalt Glengarry Grey, S with	107 25 13 127 29
Addington Algoma, Centre Brant, S wih Cornwall Glengarry Grey, S with Hastings, East	107 25 13 127 29 36
Addington Algoma, Centre Brant, S uth Cornwalt Glengarry Grey, S auth Hastings, East Lanark, North	107 25 13 127 29 36 183
Addington Algoma, Centre Brant, S. uth Cornwalt Glengary Grey, S. uth Hastings, East Lanark, North Lanark, Sou h	107 25 13 127 29 36 183
Addington Algoma, Centre Brant, S. uth Cornwalt Glengarry Grey. South Hastings, East Lanark, North Lanark, South Middleax, Eist	107 25 13 127 29 36 183 67
Addington Algoma, Centre Brant, S. uth Cornwalt Glengary Grey, S. uth Hastings, East Lanark, North Lanark, Sou h	107 25 13 127 29 36 183

Waterloo, South NOTICE TO SECRETARIES.

Simcoe, South Stormont
Victoria, East
Victoria, West

When sending in copies or papers read at Institute meetings, secretaries are requested to write on the back thereof the name of the writer and the name of the Institute. Owing to the large number of papers received we find it difficult to keep track of them it this is not dore, therefore, an Institute may sometimes not receive the credit due on account of the papers not having the name of the writer, the name of the secretary nor the name of the Institute written on them.



PENCE MACHINE

Still at the front!
Plot only the cheapbut fastest and best.
Price \$5.00.

Highest grade Wing Coiled and other Wing for sale. Write for par-ticulars. Agents Wanted. McGregor. Banwell & Co., Windsor, Oct. **Prevention of Cruelty** to Horses.



Many a poor horse, utterly run down by impoverishment of blood and its accompanying ills, is blamed for laziness and hambly treated.

DICK'S BLOOD PURIFIER

would strengthen such an one, would fortify him to endure satigue; enable him to accomplish work

out loss of tissue and make him a cheerful, willing worker.

It pays to use Dick's Blood Purifier. It greatly increases the flow and richness of a cow's milk.

BO CENTO A PACKAGE.

TRIAL SIZE 25 CENTS.

LEEMING, MILES & CO., Agents, Montreal. ***********************************

DICK & CO., Proprietors.

AGENTS WANTED

Send for our cash prize and premium lists. It will pay Address

PARMING,

44-46 Richmond St. W., Toronto

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

577 Craig Street

MONTREAL, P.O.



Persiatic Sheep and Animal Wash

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

MAGGOTS GANGRENE SHEAR CUTS RED LICE ON SHEEP WOUNDS RINGWORM BRUISES, ETO., ETO. AND SCAB.

AND SUAD.

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

The Pickhart Renfrew Co. (CETIMIL)

STOUPPVILLE, ONT.



A New Importation of

CLYDESDALE STALLIONS

Arrived Oct. 31, 1808

The largest importation of the breed made in five years, and So per cent of them Scot-tish prize-winners. A few choice HACKNEYS for sale. Address

Galbraith,

JANESVILLE, Winsconsin.

FREE MAN'S Double St ength

FERTILIZERS

GREAT KEDUCTION



IN PRICE

Catalogue Free

The W. A. FREEMAN CO., Limited Hamilton, Ont.



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,

CLIETON.

MARKET REVIEW AND FORECAST.

Office of FARMING,

44 and 46 Richmond street west, Toronto, Feb. 13, 1899.

The improved condition of general trade still continues and everything seems to lead to the conclusion that we are on the up trend commercially speaking. With few exceptions the paper maturing on the 4th of the month was well met and the coming year is looked forward to as being a most prosperous one.

Wheet

The wheat situation has not changed very materially during the week. The world's supply of wheat in sight shows an increase of 2,961,000 bushels since January 1st. It is now estimated that Argentina will have about 54,000,000 bushels of wheat to export. She has been shipping more lately. It is now definitely settled that the recent rise and fall in the market was entirely due to speculation, and it is a pity that trade in so staple an article as wheat cannot be carried on along more legitimate lines. This speculative element only unsettles the market and makes producers both to sell and purchasers afraid to buy. The leading European and American markets were dull and flat during the early part of the week, but towards the last were firmer and stronger, and Juna delivery at Chicago went up two cents. On Saturday the Chicago market dropped a cent.

Prices for Ontario wheat are considered at

Prices for Ontario wheat are considered at Montreal to be too high for export. Millers were said to be paying 68½ to 69c. for Ontario wheat early in the week, while exporters would only bid 67½c. Manitoba wheat is quoted at 69½ to 70c, Fort William; in the interior of Manttoba, the price is from 53 to 57½c., as to location. The offerings here have been small, though the market is steadier at 68½ to 69½c. for red and white west. Goose is quoted at 69 to 69½c., No. 1 Manitoba hard at 81 to 82c., and No. 1 Northern at 78½c. Toronto. On the local market red and white is quoted at 72 to 72½c.; fife at 70½ to 73½c., and goose at 68½c.

Oats and Barley.

The London market for oats is reported dull owing to increased supplies. The Montreal market rules quiet but steady at 32 to 32½c. for car lots in store. There is an improved demand for oatmeal and millers have advanced prices a little higher than exporters can afford. The market here is steady at 29 to 29½c west. On the local market here oats are quoted at 35½c.

The quotations for malt barley at Montreal are 55 to 57c. as to quality. The market here is quiet at 46 to 47c. west. On the local market here barley is quoted at 49 to

50c.

Peas and Corn.

The London market for Canadian peas is firm and stocks are Jight. The Montreal market is quiet but steady at 71 to 72c. in store. The market here is firm at 64 to 67c. The quotation on the local market is 64c.

Several car loads of No. 2 American corn are reported sold at Montreal for the Eastern townships at 46 to 47c. American is quoted on track here at 41½ to 42c. and Canadian yellow west at 36c., but it is bard to get.

Bran and Shorts.

Ontario bran at Montreal is quoted at \$14.75 to \$15. Quite a lot of it is being taken by the Americans. Shorts in car lots are quoted at \$15.50 to \$16. City mills here quote bran at \$14, and shorts at \$16 in car lots f.o.b. Toronto.

Clover and Timothy Seeds.

The Montreal market for timothy seed is steady at \$1.60 to \$1.75 for Ontario, and \$1.25 to \$1.50 for American. Red clover is quoted at \$4.25 to \$5, and Alsike at \$4 to \$5 as to quality. Mammoth clover is scarce at \$4.50 to \$4.75. On the local marke there

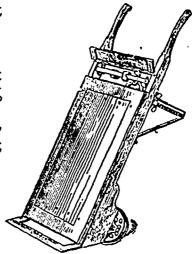
Every Merchant and Farmer

Should Own a

Parsell Truck SCALE combining a first-class warehouse truck with a fine 800 Canadian Standard Scale.

It has "caught on" splendidly, and is going like "hot cakes."

SAVE ITS COST IN NO TIME.



For descriptive circular and full information, address

THE ST. MARYS
TRUCK SCALE
CO.

St. Marys, Ont.

red clover is quoted at \$3.50 to \$3.90, white at \$6 to \$9, Alsike \$3 to \$4.40, and timothy at \$1.25 to \$1.35 per bushel.

Eggs and Poultry.

The Trade Bulletin's cable of February 9th reads: "The steadier feeling cabled last week has been emphasized by a firmer market, the demand having been stimulated by low prices. There is a good demand for Canadian eggs in Glasgow, where prices are in holders' favor." New-laid eggs have been arriving a little more freely at Montreal and values have weakened, sales having been made at 18½ to 20c. in lots and single cases. The market here is about steady at 19 to 21c., with a fair supply. Held stock is quoted all the way from 14 to 18c., on the local farmers' market new-laid bring from 22 to 25c.

Choice fresh killed turkeys at Montreal are quoted at 10½ to 11c.; chickens at 9½ to 10c.; ducks 8 to 9c., and geese at 6 to 7c. There is a good demand here for turkeys at 10 to 11c. per lb. for fresh killed, and 7 to 8c. for frozen; 6 to 7c. per lb. for geese, chickens 35 to 60c., and ducks 50 to 70c. per pair.

Potatoes

Owing to more liberal supplies at Montreal potatoes have declined from 2 to 2½c. per bag, and are now quoted at 55c. in car lots. Prices by the load are 65c., and by the single bag 75c. Potatoes are in fair demand here, and cars on track are quoted at 60 to 65c., and out of store at 70c. per bag; 65 to 75c. are the ruling prices on the local market here.

Fruit.

Apples at Montreal are quoted all the way from \$3 to \$4.50 per barrel. On the local market here they bring from \$1.50 to \$2.50 per barrel.

Hay and Straw.

A big trade might be done in the export hay trade if farmers would sell at present prices. The Montreal market is steady at the low prices ruling. Baled clover hay is quoted there at about \$3.50, and No. 2 timothy at \$6 to \$6.25. The market here is quiet at \$7 to \$7.50 for cars on track. Baled straw is quoted at \$4 to \$4.50. On the local market timothy is quoted at \$8.50 to \$10; clover at \$6 to \$750; straw in sheaf, \$6 to \$7; and straw, loose, a \$4 to \$5.

Cheese.

The British markets remain quiet, but firm, with buyers resisting the tendency to advance by keeping their purchases down to a minimum. Receipts have been fairly liberal. The Montreal market remains quiet, and holders are accepting slightly lower prices in order to work off their supplies. Sales have been made during he week at 9 1/2 to 9 1/2 c., for which a quarter of a cent more could have been got a few weeks ago. Some finest western sold at 9 1/2 to 9 1/2 c. Still the market holds steady,

and it is thought that the lowest prices have been reached. The total shipments from Montreal and New York from May 1st, 1898, to the present time, show a falling off of 575,-750 boxes as compared with the same period a year ago.

Butter.

The Trade Bulletin's London Cable of Feb. 9th reads thus: "Considering the fairly liberal supplies from the Antipodes of late the market has kept up remarkably well. The consumption has been large throughout the season, and accumulations at various times have been marked off with astonishing ease. Even in the face of a certain slump in prices, time and again the steady consumptive demand has come to the rescue of holders. Finest Canadian creamery, 96s. to 98s.; fancy parcels, 100c. to 102s. Under grades of creamery, 88s. to 94s." The export demand continues good at Montreal and sales have been made during the week at 193/ to 20c. for choice, fresh creamery but'er in boxes, and at 193/ to 193/2c. in tubs. Sales of earlier make are reported at 173/2 to 19c. as to quality. The total shipments from Montreal and New York from May 1st to the present time show an increase of 18,023 packages as compared with the same period a year ago. Two weeks ago these shipments showed a decrease of 11,531 packages. The large increase of the past two weeks is due to the large shipments from New York, which are unusual for this season of the year. There is a fair demand in Montreal for Western dairy, which is quoted from 143/2 to 15c.

The creamery market is steady here, with quotations 20 to 21c. for prints, and 19 to 20c. for tubs. There is a fair demand for dairy with moderate supplies. Choice to medium tubs are quoted at from 11 to 15c.; rolls, 15 to 16c.; and large rolls, 14 to 15c. On the local market pound rolls bring from 15 to 21c., and large rolls 13 to 10c.

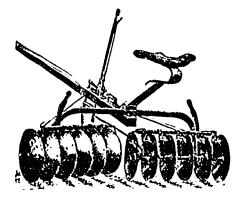
Cattle.

The cattle situation is about the same. Prices have been fairly well sustained in western markets. The run of live stock on the market here has not been so large as a week ago. The quality of the fat cattle offered on Friday was only middling, there not being enough of the good class to supply the demand. Trade was fairly brisk in all the different classes.

Export Cattle.—There were not many straight loads of these offered, the bulk of fat cattle coming as mixed lots. Choice heavy export cattle sold at \$4.50 to \$4.75, and light ones at \$4.30 to \$4.50. A few choice lots of heavy exporters brought from 10 to 20c. per cwt. more. Choice heavy export bulls bring from \$3.60 to \$4, and light ones \$3.25 to \$2.50 per cwt.

\$3.50 per cwt.

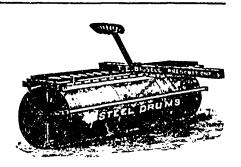
Butchers' Cattle.—Choice picked lots of these, equal in quality to the best exporters, weighing from 1,000 to 1,150 each, bring from \$4.10 to \$4.30 per cwt. Good butchers'



These Disk Harrows Steel Land Rollers

are built by men who make a specialty of business. This is one reason customers find them

The Best Made



Address T. E. BISSELL, Fergus, Ont.

cattle bring from \$3.75 to \$3.90, medium from \$3.25 to \$3.60, and lower grades from \$2.75 to \$3.25 per cwt.

Stocker, and Feeders.—The demand for

\$2.75 to \$3.25 per cwt.

Stockers and Feeders.—The demand for stockers is good, with prices ranging from \$3.40 to \$3.65 for medium to good, and \$3.70 to \$3.75 for choice, well-bred steers. A lew stock herfers, weighing about 500 each, sold on Friday at \$2.60 to \$2.85 per cwt. Choice heavy feeders, weighing from 1,000 to 1,150 lbs. each, are in good demand, selling from \$3.80 to \$2.05 for choice steers.

\$3.80 to \$4.05 for choice steers.

Calves.—These are a little higher at Buffalo.
On this market they bring from \$3 to \$8 each, and \$5.50 per cwt. for choice heavy veals

Milch Cows. - These bring from \$25 to \$42 each.

Sheep and Lambs.

The western markets have been fairly active The western markets have been larry active with higher prices for lambs in some places. Choice to extra lambs at Buffalo are quoted at \$5.15 to \$5.25, and sheep at \$4.25 to \$4.40. About 500 sheep and yearling lambs were offered on this market on Friday, ewes selling at \$3 to \$3.25 per cwt., and bucks at \$2.50 to \$2.75. Yearling lambs, weighing 100 lbs. and over, for export purposes bring from \$4.25 to \$4.50 per cwt. from \$4 25 to \$4.50 per cwt.

Prices are higher for choice, select bacon by the state of th cidedly better turn, prices having advanced 3s. during the week.

The old long-horned breed of cattle are fast disappearing from the fields of England. They make good beef, and the cows are good milkers. They are handsome and picturesque with their long heavy horns; nevertheless they are gradually disappearing. Recently two yearling bulls of this breed were sent to Buenos Ayres to propa gate the race in that distant land.

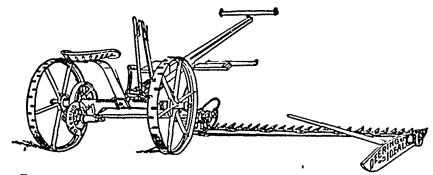
No Customs Annoyances

If you purchase your ticket via the CANADIAN PACIFIC to the Canadian North-West, Kootenay, Cariboo and British Columbia points, you will avoid the trouble of bonding your baggage and customs house

First Class and Tourist Sleepers run through to the Pacific Coast.

C. E. McPHERSON, A.G.P.A., Toronto

The Machines That Made America Famous



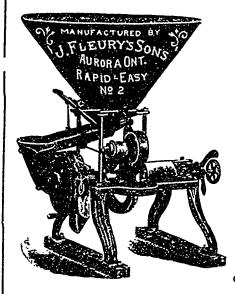
Every mower with the name "DEERING IDEAL" on it will start in any crop without backing the team. Other mowers will not. The DEERING MOWER runs lighter and will last longer than any other.

DEERING HARVESTER CO.

Main Office and Factory

CHICAGO, U.S.A.

Permanent Branch House: LONDON, ONT



You intend to buy a GRINDER? You want the BEST? The EASIEST RUNNING? The one with the greatest number of Good Points? The Best Grinding and Longest Wearing Plates?

Mr. Valantine Pisher:
Ayton, PO, Ont, Dec 16, 1898.
"I purchased one of your Rapid Feey Grinders from M Koenig. The machine gives the very best of saus faction. I ground a bag of grain in three minutes with two teams. I have not seen a machine equal to it, it runs very light."

runs very light
Mr. John Bellamy:
Winfield, Ont, January, 1899.
"The Grinder I bought from your agent, Mr. John
M Kay of Moorefield, is a "dandy I must say that
it is the beast Grinder that I have over seen. I can
grind from 25 to 30 bags of mixed grain overy
hour in the day and do its right and with 50 lbs.
of steam on my engine."

22 We shall be pleased to have you write us. The

J. Fleury's Sons, - Aurora, Ont.

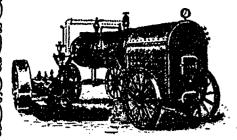
Gold Medal for Plaws, etc., at World's Fair, Chicago



Summer Hill Herd of Yorkshire Hoge—Large Longthy English Type—Among them being —2003—acknowledged to be as good as any it 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 1838, 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

Telephone and Post Office



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 Bollers 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.

SOMETHING NEW.

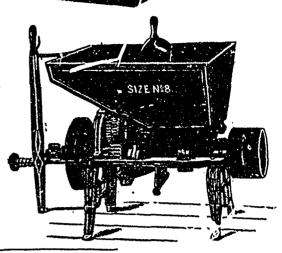
@%@%@%@%@%@%@%@%@%@%@%@%@%@%@%@%@

Our Grinder has conical grinding plates. A divided hopper for corn on cob and for small grain has force feed-relieving lever. The capacity of our largest size is from twenty to sixty bushels of grain per hour. A perfect machine in every way. Elevators supplied when desired.

Send for Catalogue.

WE MANUPACTURE ALSO

Tread Powers,
Threshers
Feed Cutters
Hay Presses, etc., etc.



MATTHEW MOODY & SONS, TERREBONNE, QUE.

Binder Twine

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

HELDERLEIGH FRUIT FARMS and NURSERIES

-400 ACRES

Sixteen years' experience. Everything wanted that is useful and valuable in the Nursery Stock line-either FRUIT or ORNAMENTALS.

SEND FOR CATALOGUE, which is furnished FREE to applicants.

DO NOT MAKE THE MISTAKE OF BUYING CHEAP STOCK-IT IS DEAR AS A GIFT

GOOD RELIABLE SALESMEN WANTED in a number of fine townships, to start
work at once. Complete Outfit FREE.

Address

E. D. SIMITH WINONA, ONT.

Why

agent.

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

Parties wishing a first-class Harrow will do

well to write us direct, or apply to the local

Because

The flexibility of the Harrow enables itto adapt itself as readily to rough and uneven ground as to smooth, and the oscillating motion produced by its flexibility pulveriess 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 how Chesp, but how Good."

TOLTON BROS., GUELPH, Ont.



Prices and Terms are right.

((0)

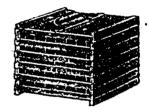
(O)(O)\

You Can't Make a Mistake

If You Buy this Grinder.
It is made by

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

@%@%@%@%@



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 Handlest thing—with fillers removed—for carrying Fruit or Vegetables.

YES.

THE DOWSWELL MAN'F'C CO LIMITED

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

... Hamilton

Woodstock Steel Windmills



WITH
GRAPHITE BEARINGS
They frum without Oil.

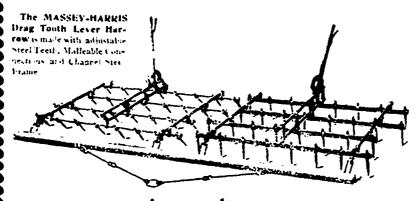
Steel Towers, Pumps, Tanks, Saw Tables and Watering Troughs, etc.



WOODSTOCK WINDMOTOR CO. Limited
Woodstock, Ont.

MASSEY-HARRIS HARROWS ARE

THE WORLD OVER FOR DOING GOOD WORK IN ALL KINDS OF SOIL.



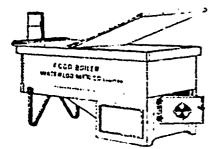


THE MASSEY-HARRIS OSCILLATING ADJUSTABLE STEEL TOOTH HARROW

is the very best of its class, and is particularly effective on rough ground with deep ridges.

MASSEY-HARRIS LIMITED TORONTO

WATERLOO THE



Used chiefly by Farmers, Stock Feeders and Butchers for

COOKING FEED FOR STOCK AND POULTRY. For BOILING SAP. SCALDING HOGS.

Etc., Etc.

The Most Economical on Fuel and the Most Convenient for allround purposes of any Cooker in the Market

IT PAYS TO BOIL FRED for STOCK, HOGS and POULTRY

Built in 40, 90 and 125 Gallon Sizes. Write for Circulars and Prices

WATERLOO WATERLOO, ONT. **Hamilton Engine**

Thresher Works

Compound and Simple Traction and Plain Engines Threshing Machines, Clover Hullers, Horse Powers, Saw Mills, with all the latest improvements.

-- ALSO-

ROAD-MAKING MACHINERY

Stone Crushers, Road Rollers, and Graders

For descriptive catalogues, prices, and terms, apply to

SAWYER-MASSEY CO., HAMILTON, ONT.

MITCHELL'S ANTI LUMP JAW

has present by its effective work that a bottle of it should be in every cattle raiser's hands.

BSOLUTELY GUARANTEE TO CURE ALL CASES.

If it fails we return your money. Endorsed by Canada's leading cattle exporters, Gordon, tronside & Fares, Montreal and Winnipeg.

Price 83.00, l'ostpaid to any add

Treatise on Lump Jaw and bor of Testimonials sent on request.

W. J. Mitchell & Co.,

e Albert, N.W.T.

Machine Free Fence

With 100 Rods-



GOLD STEM-WIND WATCH FREE

CANADA FENCE CO., London, Ont.

