may be of the significant	nstitute has available for be bibliograp images in t icantly chan ed below.	r filming. I phically un he reprodu	eatures ique, wi ction, c	s of this co hich may or which n	opy wi alter an	nich ny		l t r	ui a é exemp piblio eprod	té poss plaire d graphic luite, d méth	sible d Jui sor Que, g ou qui	le se p nt peu jui peu i peuv	orocur ut-être uvent vent e:	er. Lo uniqu modif kiger u	es déta ues du fier un une m	plaire dails de point point pe imago podification indiquitation individual indiv	cet de vu ge ation	ie
	Coloured co							[		Coloui Pages (	•	_						
	Covers dam Couverture	•	<del>jée</del>							Pages ( Pages (	_		ies					
1 1	Covers resto	• •		· ·					- 1	Pages i								
1 1	Cover title ( Le titre de (	_	manqu	e					\ <i>I</i>	ages (								
1 1	Coloured m Cartes géog	•	en coule	eur						ages (								
3 1	Coloured in Encre de co					e)				Showt Fransp	_							
	Coloured pl Planches et								\ <b>/</b>	Qualit Qualit	-			ressio	n			
	Bound with Relié avec c			<b>s</b>					•	Contin Pagina		•						
	Tight binding along intering the reliure se	or margin/ errée peut d	auser d	le l'ombre	ou de					nclud Compi	end u	n (de:	s) inde					
	distorsion leave	•				2025				Fitle o Le titr	-		-	•				
	within the t been omitte	text. When ed from film	ever po ning/	ssible, the	se hav	e				Fitle p Page d	•			son				
Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont					Caption of issue/ Titre de départ de la livraison													
pas été filmées.					Masthead/ Générique (périodiques) de la livraison													
1 1	Additional Commentai		-	es:														
	tem is filme cument est						ssous.											
10X		14X	<del>,</del>	<del>-</del>	18X			 22X				26X				30×	·	
	2511			•624			~~:			2415				20:			1	201
	12X			16X			20 X			24X				28X				32 X

# INVINCIBLE



The Greatest Household Labor Saver ever invented. Actual trial has proved that it will wash cleaner and quicker than any other machine now in use, it is without doubt the Best Washer in the World.

Every Machine guaranteed to give satisfaction. is an easy seller.

Reliable Agents wanted in every Township. For full particulars, address

CHAS. KREUTZIGER, Manufacturer and Patentee. WATERLOO, ONT.

HILLHURST HACKNEYS

## The Up=to=Date Carriage Horse..

Is the product of the HACKNEY-TROTTER CROSS.

Most profitable for the farmer to raise. Low est per-centage of misfits; earliest maturity and least ex-pensive to fit for market.

Four fashlonably bred Stallions, rising 3 and 4 years, 1,100 to 1,250 lbs. solid colors, high and level actors. Must be sold to make room for young stock and, harness burses. Prices reasonable. For pedigrees and particulars, address

JAS. A. COCHRANE, Mgr. Hillhurst Farm, Hillhurst Station, Compton Co., Que., Can

#### SELECT SEEDS

## WILLIAN EWING & CO.'S

Illustrated Priced Catalogue of Farm, Vegetable and Flower Seeds is now ready and will be mailed free on application.

142 McBill Street - -MONTREAL





The San Jose Scale. Bleeding Cattle in Demand. Agriculture in the English Universities. Early vs. Late Sowing. Scarcity of Fine Wools. The London Horse Show The Effect Spraying has on Bees. Canadian Oats in England. The Prepotency of Sires. The Poultry Industry of Canada. Market Revew and Forecast. Foaling Time. Fodder Cheese. Questions and Answers. Correspondence, etc.



I. N. GREENSHIELDS, Proprietor



Our Special Offering consists of six choice young Ayrahire bulls and a few helfers; two extra Guerasey bull calves, and a choice lot of sheep and pige. All at very low figures for immediate sale.

T. D. McCallum, Managor, Danville, Que.

## Horse Owners! Use FENCE MACHINE GIVEN AWAY



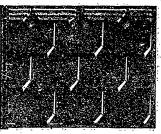
To Introduce the best Fence made into new localities we will give a Pence Machine and License FREE to any person buying material for 100 rods of Fence. Get particulars from

Canada fence Co., - London, Can

### BEFORE

You Buy Shingles Stop and think about EASTLAKE...

# Steel Shingles



Shows one Shingle.

Remember that they are Fire and Rust Proof, are more quickly laid than others, and are the only Shingles made with our special Patent Side Lock and Water Gutter.

They have never yet failed to give curable, reliable protection, and they won't fail you.
Shall we send further information?

## METALLIC ROOFING CO.

1192 KING ST. WEST, - - TOBONTO



A Reliable and Speedy Remady for Carbs. Splints, Spavins, Sweeny, Etc.

repunts, Spavins, Sweeny, Etc.
It can be used in every case of Veterinary Practice
where Stimulating Limineriu or Blisters are preseried. See pamphlet which accompanies every bottle. It has no superior Every bottle sold is guaranteed to give statistation. Price 75c; per bottle,
Sold by all druggists. Invaluable in the treatment
of Lump Jaw in cattle. See Pamphlet.
Prepared by-

The Burcka Veterinary Medicine Co.

## RUSHED

To fill orders but we can do yours.

#### Stafford Patent Curd Mill

Milk Crane

Whey Faucet

Press Screw

Known everywhere Excelled nowhere.

-44

LANCASTER MACHINE WORKS BOX 113. LANCASTER, ONT.

# KLONDIKE SUPPLIES

THE D. PIKE CO., Limited

Manufacturers of Tents, Horse and Wassen Covers, Waterproof Clothing, KLONDIKE BUPPLIES, Fishing Taulte, sporting Goods Hoist and Wire Ropes, Spinced

123 King Street East, Toronto, Ont.

Opposite St. James' Cathedral.



e Safest. Rest BLISTER ever used. Takes late of all liniments for mild or govern setting parts of Linguistics II fallo or server except.

Chille. SIPERREBERS ALL CAUTERY.

FIRING. Impossible to produce sear or blemid.

SIASO per beculo. Sold by dragaist, or selection of the search of th

# Ingleside Herefords

Largest hard of choice bied Herefords in Canada Winners of both the first and second herd prizes a Toronto, Montreal, and Ottawa, 1895, .866, and 1897 also silver medals same years for best bull and hes female. This herd is of the "up to-date-beef kind" combising early maturity and quality.

#### TAMWORTH SWINE.

Orders booked for Spring Pigs. Pairs not akin

Farm #K miles from G.T.R. station. H. D. SMITH Ingleside Farm Compton. Que

STOMES

# **ENGLISH BERKSHIRES**

OF THE CORRECT BACON TYPE.

# Over One Hundred Young Animals

For Sale at Moderate Prices

THREE JERSEY BULLS

The Bow Park Co., Limited

BRANTFORD, ONT

### Shorthorns And Lincolns

The Champion Herd and Sweepstakes female at the three leading Exhibitions in Ontario, viz.: Toronto, Ottawa, and London, and Sweepstakes Bull at Toronto and Ottawa in the year 1897; have for sale some grand young bulls and females.

Lincoln Sheep of all ages

Apply to

T. E. ROBSON,

Ilderton, Ont.

### SHORTHORNS



SIX BULLS FOR SALE

fit for service, a reasonable prices.

D. Alexander.

W.J. BIGGINS & SHORTHORN BULLS CLINTON.

NO HEIFERS

Ontario.

of Belect Scotch Breeding at Low Prices

H. J. ELLIOT, - Danville, P.Q. Breeder of Scotch Shorthorns of Duchess of Gloster, Lovely, and Nonparell strains. Toung bulls and helfers for sale at the lowest prices.

DONNIE BURN STOCK FARM, Stouffville sta-tion and P.O. D. H. Rusnell, prop. Breeder thoroughbred Shorthorn Cattle and Berkshire Swine.

DEVONS.

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

# ALYARM GUERINSEYS FLEMING'S LUMP JAW CURE



Awarded first prize at Montreal for BREBDERS' YOUNG HERD. Young animals of MERIT for sale. Petigrees and particulars to parties wishing to purchase. Address, SYDNEY FISHER, Enowlton, Que.

HOLSTEINS.

## Brookbank 🕥 Holstein Herd

Champions for milk and butter. 8 have won public test. No buils for sale at present 15 Cows and Heifers due to calve from August to Jan., mostly with calf to

#### Sir Paul De Kol Clothilde

a milk and butter prince, whose 19 nearest female rela-tives average 22 lbs of butter per week, and 14 average 16,233 lbs. milk in one year. Increase of herd only for sale.

A. & G. RICE, Currie's Crossing, Oxford County, Ont.

MAPLE HILL ....

SPECIAL OFFERING

HOLSTEIN-FRIESIANS

Mary Mechthilde, calved August 3rd, 1897. Sire Sir Pieterije Josephine Mechthilde, whose hve nearest female ancestors averaged over 28 lbs butter in a week Dam, my great show heifer Empress Josephine de Kol, record 48½, lbs milk in a day at 24 months of age. For breeding and individual excellence this calf has few equals

G W CLEMONS, St. GEORGE, ONT.

#### ROSE HALL STOCK FARM. HOLSTEIN-FRIESIAN

FOR SALE—Two choice young bulls, sired by Lord Everet and, a great grandson of Barrington; one of the best bulls ever imported. Dams are Cecilia Mink Mercedes, 1st and 2nd, both of good milking strains. Also hetfers and hetfer calves. Prices reasonable. T. W. CHARLTON, St. George, Ont.

### ...Gem Holstein Herd ...

STOCK FOR SALE. We only keep and brees sians. Choice Young Bulls and Helfers, also somolder animals, all of the very best dairy quality for sale Correspondence solicited. Correspondence solicited.

Shipping Stn., TOPONTO.

Bedford Park. Ont.

#### SPRING BROOK BERD OF . . . HOLSTEIN-FRIESIANS and TAMWORTH SWINE ...

TWO choice young BULLS of best quality and breeding, also, a few nice young TAMWORTH BOARS and SOWS, 3 and 4 months old, by prire-winning, imported boar Nimrod. Several SOWS to spare, due to farrow. Write at once for prices. A. C. HALLMAN, New Dundee, Waterloo Co., Ont Railway Stations: Petersburg, G.T.R. . Ayr, C.P.R.

PANNABECKER, Fairview Farm, Hespeler Cott., Breeder of reg. Holsteins. Stock for sale.

CREGOR MacINTYRE, Renfrew, Out., Breeder Thoroughbred and High Grade Holstein Cattle Stock for sale.

A. RICHARDSON, South March, Ont., Breede

WM. ARMSTRONG, Locust Hill, Ont., Breeder of Purebied and High-Grade Holstons.

## Clydesdale Stallions Prize-Winning Stallions

DOUGLASS MACPHERSON (imp.)[1701], and GRANDEUR II. (2246). Also a number of Brood Mares and Fillies of superior breeding and several winners at the loading fairs of Ontario.

I. DAVITT & SON, Freeman.



# Cargill Herd of SHORTHORNS

Goed young cows, two years old; yearlings and befor calves, out of Imported and Hombred cows, and the Imported balls, Royal Member and Rantin Robin. Come and see the or write if you want something special. Station on it H. CARGILL & SON. CARGILL STATION AND P.O., ONT.

And the second of the second o

Is sold under

guarantee to

cure, or money is

refunded



Trade Mark Reg'd.

DEAR SIR.

DEAR SIR.

In regard to our experience with your Lump Jaw Cure, we used it on seven lumps last season. It worked all right. Some of the lumps had broken and run several times before using it.

Yours truly,

FLEMING & SHORT.

PRICE, \$2.00, sent by mail Illustrated Treatise on "Lump Jaw" sent free

FLEMINGBROS., Chemists, ST. GEORGE, Out.

ABERDBEN ANGUS

## WILLOW ÇROVE STOCK FARM.

Breeders and import-ers of highly bred Aber-deen Angus Cattle. Young animals for



Home

ef

the

BUCHANAN, Napier, Ont., Breeder reg. Aber Us deen-Angus Cattle. Stock by Lord Forest for sale

INCUBATORS Self Regulating Catalogue free

Oxford Herd Peland

Chinas

Choice stock of either sex and all sizes, from a months up. Bred from the best strains known to the breeder.

Write for prices.

W. & H. JONES Mt. Elgin,

Ozi. Winners

BRAMPTON JERSEY HERD.
Full stock of A.J.C.C. cows, beifers, heifer calves
and bulls. Ask for what you want. A number of
young Berkshives.

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

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

OBT. REESOR, Locust Hill, Ont., Breeder Jersey Cattle and Shetland Ponies. Young stock for sale. Locust Hill is so miles from Toronto on the C.P.R.

W. ROLPH, Glen Rouge Farm, Markham, Ont. Breeder of Jersey Cattle. Herd nearly all pure St. Lambert. Young stock always for sale. W.WILLIS, Pine Ridg - Farm, Newmarket, Ont., broader of St. Lambert Jersey Cattle, Cotswold

A.J.C.C. JERSEYS of the richest breeding. Our herd is noted for large batter records, can always supply animals of both sexes and ages. Whole herd rich in St. Lambert 100d. Bulls ready for service, and several cows direct granddaughters of Stoke Pogis the jrd. Prices to meet the times, HILLSDALE STOCK FARM, Milford; Hants. Co., N.S.

GALLOWAYS

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

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

## MAPLE CLIFF STOCK AND BAIRY FARM

Agrabiro Cattle. Berkshire and Tamworth Pigs. FOR SALE—Two young bulls fit for service, and five bull calves (calved in February).

One mile from Ottaws.)

# WEST'S FLUID

WEADLE OF THE WEST CHEENICAL CO., 15 Queen Separat East, Tomorto, 15 Queen Separation for the West and Proventive for Easy Obselera. Universally used for the destruction of Ticins, Lion, Flens, Mange, and all insects upon Sheep, Houses, Cattle, Pips, Dogs, Calchess, etc. Proce St. 50 per gallon Fig. 5, paidon \$6.50. One gallon makes 75 gallons for dipping Sheep. Agents Wassed in all Comotine.

The WEST CHEMICAL CO., 15 Queen Separat East, Tomorto.

Glenhyrst Poultry Yards

AND BANKS MARKET AND THE

Elges for sa

White Wy andortes, White Plymouth Rocks, Cornish Indian Game, Black Minoreas, Red Pyle Game, Red Breasted Game, Houdans, Black Langshans, White Langshans, Barb Plymouth Rocks, S 10 o a setting, made up of any variety. Also Poultry Supplies.
Lots IDORSET SHEEP, TAM WORTH PIGS. SHETLAND PONIES, all ages.

O. K STRATFORD & BROS., Brantford, Ont

## Sunnyside Poultry Yards

EGGS AND STOCK FOR SALE

from 11 e following popula, hereds, winning 235 prizes this year:

S.L. Wyandottes, S.C. Dorkings, B. Langshans, B. Javas, B. Minorcas, L. Brahmas, B.P. Rocks, Blue Andulasians, Buff Cochius, W.C. Polands, B.B.R. Games, Indian Games and M.B. Turkeys, All eggs guarafiteed safe arrival Place your orders early.

T. A. COM, Brantford Out-



FOR SALE

BARRED Plymouth Rock Hens; also a few Silver Wyandotte and S C. White Leghorn Cockerela. Prices to sult the farmers. Eggs from B.P. Rocks and Silver Wyandottes, \$1 per 13. Pekin Ducks, \$1 per 11. W. R. GRAHAM, Bayside Poultry Ducks, \$1 per 11. W. Farm, Belleville, Ont.

Millers'

# TICK DESTROYER



Effectually Destroys Ticks, Scabs, and all Vermin

Makes the skin clean and healthy, and imparts a silky softness and lustre to the wool.

HUGH MILLER & CO. Toronto, Ont.

# The Spramotor"



### CERTIFICATE OF OFFICIAL AWARD:

This is to certify that at the contest of Spraying Apparatus, held at Grinsely on April 2nd and 2rd, 1896, under the asspices of the Board of Control of the Fruit Experimental Stations of Ontario, in which there were sleven contestants, the Spramotor, made by the Spramotor Co., of London, Ont., was awarded First Place.

H. L. RUTT, } Judges.

Catalogue and Price List on app

Agents wanted. SPRAMOTOR, OD. Mention Farming. 557 Richmond St., LONDON

SHOEMAKER'S STOCK WHISE

#### FARMING

AN ILLUSTRATED WEEKLY JOURNAL DEVOTED TO FARMING AND THE FARMER'S INTERESTS.

Published every Tuesday by

THE BRYANT PRESS,

44-46 RICHMOND STREET WEST - TORONTO, CANADA

Subscriptions in Canada and the United States, \$1.00 per year, in advance; six months 50 cents, three months 25 cents. In all countries in the Postal Union, \$1.50 a year in advance

The date opposite the name on the Address Label indicates the time to which a subscription is paid, and the changing of the date is sufficient acknowledgment of the payment of a subscription. When this change is not made promptly notify us. In ordering change of address, be sure to give the old address as well as the new.

address, de sure to give the old address as well as the new.

FARMING will be sent to all subscribers until a notice by post card or letter to discontinue is received and all arrears are paid up. Returning a paper is not a notice to discontinue. All arrears must be paid up before a name can be taken from our list. All remittances should be made by P.O. money order, express money order, or registered letter. Sending money in an unregistered letter is unsafe, and will be at the sender's risk.

Advertising rates furnished on application.

All communications should be addressed to "Farming, 44 46 Richmond Street West, Toronto, Canada."

Representative for Great Britain and Ireland, W. W. Chapman, Fitzalan House, Arundel St., Strand, London, Eng.

#### TOPICS FOR THE WEEK

#### Read This.

CREBMORE, Feb. 24th, 1898.

Dear Sirs, - Please find enclosed \$2.00 for the past year and also for this year. We did not instruct your agent to send us FARMING, but when it came we liked it very much and receive a great deal of information from it, and after some time found that we could not get along without your

Yours truly,

JAMES NAVLOR.

GREENBANK, Feb. 18th, 1898.

Dear Sirs,—Enclosed please find \$2.00 for FARMING to June, 1898. I am highly pleased with FARMING and especially with the market reports. I could not get on without it, and I would be lost if I did not receive its weekly visit.

Yours truly.

GRORGE LEE.

The opinion expressed by these letters is that of every subscriber for FARMING. They all appreciate its regular weekly visit and its timely and up-10-date articles. The weekly market review and forecast is most highly commended. It is really worth ten times the price of one year's subscription to any farmer who has produce to

We are open for receiving new subscriptions at any time. Look up our special seed premiums in this week's issue. Specially selected varieties given for new subscribers for FARMING. You should not miss this offer of securing new seeds for both the garden and farm. Now is the time to begin.

#### Our Clubbing List.

	Regular price.	With FARMING.
Canadian Magazine	\$2.50	\$2.50
Toronto Weekly Globs	1.00	1.50
Toronto Weekly Mail and Empire	1.00	1.40
Farm and Fireside	. 1.00	1.40
Montreal Daily Witness	3.00	3 00
Terente Mornine World	3.00	3.00
Montreal Weekly Witness	1.00	1.60
Family Herald and Weekly Star	1 00	1 75
London Weskly Free Press	1.00	1.75
London Weekly Advertiser		1.40
Ottawa Semi Weekly Free Press	1.00	z.60
Hoard's Dairyman		3.75
Rural New Yorker		1.85

#### Our British Letter.

The Agricultural Depression in England and its Cause.

(By Our Special Correspondent.)

London, Eng., March 9, '98.

Every newspaper one picks up at the present time devotes a portion of its space almost daily, or weekly, as the case may be, to the gold-finding business in the Klondike So much has this subject taken hold of men's minds here - as elsewhere that even at the pedigree stock shows of the past fortnight one found the subject cropping up wherever a bevy of farmers happened to find themselves talking together. I was at the annual show of pedigree hunters to-day (a large and first-class show too, it is), and I had not seated myself in the press stand (to be seated in a stand sounds a bit paradoxical, but let that pass) more than twenty minutes, when a breeder, who had just been awarded a prize called out to me, "Holloa! that's almost as good as going to the Klondike."

There was more than a modicum of truth in the jocular assertion, and I have lead up to this point in order to say a word on the subject to which, stripped of metaphor, it clearly refers. Now, at this hunters' show we see the crême de la crême of the pedigreed hunting horses of Great Britain The breeder in question meant to infer that having won at this, the best show in question, he would for the produce of his animal he able to get tip top prices. The same principle is being recognized, I am glad to say, more and more by farmers in general-whether what they send for competition be horses, cattle, sheep, pigs, or dairy produce. In England, of all countries, it is the best which pays. And if this is so, as applied to what we ourselves grow, it is doubly so as applied to those outside our shores who desire to gain or to retain a foot-hold in our markets. I am glad, therefore, to observe in an issue of FARMING to hand this week that this lesson is enforced; and if I refer to the matter it is but to enforce a truth which I am afraid

is sometimes forgotten. Farming in England at the present time is better than it has been for some few years past. Not that it is bright even now. Perhaps I ought rather to have said that farmers here are now losing less than in recent years; for, whilst many are just now-with the rise in wheat and fair prices for stock -holding their heads fully above water, I am afraid there are very many more who are still losing their capital, though more slowly than two to five years since.

I cannot, of course, here go into a long statement as to why British agriculturists, as a body, are depressed in their calling; but if you ask the farmers themselves why it is, they will commonly answer that it is owing to Free Trade, high rents, and bad seasons.

Free Trade has undoubtedly hit our agriculturists uncommonly hard; but I don't think that is anything like an adequate cause for the depres-Bad seasons, too, have something to do with it, but I cannot remember that the seasons have lately been much worse than formerly. Then as regards high rents, why even a Radical politician writing in one of our chief reviews this month admits that high rents have not been the cause of the I don't know what a Radical is in depression. Canada. I know what he is here: and in a few words, he may he described as "one who is always agin' the landowner." The politician in question is the exception who proves the rule, and, being such, his statement merits recognition.

This same politician, however, quoting The Rural World, puts down the farmers' depressed condition very much to the lack of technical edu cation. It is, I think, unfair to account for the It is not due to any one depression in this way. cause, though the lack of technical education is no doubt accountable for a good deal. This is, indeed, the view which the paper in question enforces. It may seem strange to Canadian farmers that I should charge British agriculturists with any lack of technical knowledge, seeing that they produce the finest farm live stock of every

breed. But, after all it is true. The be-all and endall of farming is not the production of stock, though even here half of our agriculturists are not experts. Where our farmers are lacking in technical knowledge is in their cropping and feeding arrangements. Science to them is a "bugbear," and yet without science, you cannot have such technical instruction as is common in other countries.

#### The San Jose Scale.

A bill has been introduced at Ottawa and which has already become law, by the Hon. Mr. Fisher. Dominion Minister of Agriculture, which prohibits the importation into Canada of fruit trees from countries where the San Jose scale exists. A great many trees come into Canada every year from the nurseries of the United States where the San Jose scale is known to exist. Mr. Fisher's bill will absolutely put a stop to this trade and compel our fruit men to get their new stocks of trees from Canadian nurseries.

This may seem like a pretty drastic measure, but considering the nature of the disease known as the San Jose scale, and what a scourge it is when it gets a foothold, no legislation can be too strong when it has for its object the protection of our fruit trade from injury from this destructive pest. The disease is so hard to locate and necessitates a microscopic examination in order to detect its presence on trees in its initial stages, that only an absolute prohibition of the importation of trees from countries where the disease exists will prevent its coming into the country. From the very nature of the thing the most rigid inspection would not suffice. As Mr. Fisher pointed out in his address when introducing the bill an inspection of the trees at the port of entry would necessitate the unpacking of every bundle of trees. This, owing to the tender condition of the young trees, would be extremely risky and would entail serious loss to the shipper. The only sure way, then, of combatting the disease is to prevent its coming in with young trees, and if a rigid inspection of the fruit trees already in Canada is enforced our fruit interests may be kept free from this pest.

Though this legislation may perhaps injure our fruit trade with the United States, it will serve to strengthen our position very materially in the European markets. As we have pointed out elsewhere there is already an agitation in Great Britain in regard to the matter, and measures may be adopted there very shortly to prohibit the importation of fruit from countries where the San Jose scale exists. Then, the action of Germany in prohibiting the importation of fruit from the United States may afford an opportunity for Canadians to develop their fruit trade with that country if it is known that the San Jose scale does not exist in Canada, and that such regulations have been adopted as will absolutely prevent its being brought into the country. Self-protection is one of the fundamental principles of all legislation, and when a necessity arises any government is perfectly justified in making laws, however drastic they may be, when this object cannot be attained in any other way. For this reason, this new legislation will meet with general approval from everyone interested in the development of our fruit trade, and we do not think our friends to the south will take it in anything but a kindly spirit.

#### Early versus Late Sowing.

There is a doubt sometimes as to when is the best time to sow spring grains, and as to whether early or late sowing will be the more advantageous. If the soil be in a suitable condition and the temperature of the air and of the soil be sufficiently high, there is no doubt but what early sowing will be advantageous to the crop. As a rule a larger yield of gram and a better sample can be obtained by early sowing than by late sowing. Usually in late sowing a larger bulk of straw is obtained, but the straw is very much weaker than from early sowing, the gram inferior, and the yield deficient. The reason for this is that the plant has not sufficient time to mature before the ripening season comes on, whereas with early sowing the plant has every opportunity to develop, and if conditions are favorable returns will be much surer.

However, farmers should guard against sowing too soon or before the soil and air are sufficiently warm to promote rapid growth. No field should be sown until every part of the field is in the same condition as regards the pulverization and nature of the soil and as regards warmth. If one part of the field is warmer than the other the seed sown on that portion vill germinate earlier and the result will be an uneven crop when harvest comes. For example, it very often happens that when a field of oats is harvested a large portion of the grain ripens earlier than the rest, and is lost. This is often due to uneven conditions in the soil when the seed was sown. It may also be due to the quality of the seed sown. If the seed sown consists of small and large grains, there is likely to be a difference in the time of ripening, as the larger and more fully developed grain will produce a plant that, under similar conditions, will ripen earlier than a plant grown from a smaller grain. Besides, the results of experiments carried on at the Experimental Station, Guelph, during the past four years show that the yield will be very much greater from large, round, plump seed than from small seed. To ensure a good crop that will ripen evenly the farmer should aim at having an even seed bed, an even degree of warmth in the soil, and a good quality of seed.

Whether the sowing is done early or late it always pays to work the land well before the seed is put in. Our best grain farmers are those who give particular attention to this point, and who aim at having the soil thoroughly pulverized before the seed is sown. Extra cultivation and extra harrowing will always pay providing other conditions are favorable, and though it will pay to sow as early in the spring as possible, yet it will be injurious to do so before the land is in perfect condition for receiving the seed.

#### Breeding Cattle in Demand.

Reports from nearly all sources and especially from the western cattle ranges show a great demand for breeding cattle. So great is the demand that it is almost impossible to supply it. Auction sales of cattle are largely attended and prices are higher than they have been for some time. The stockmen who foresaw how things would be a year or two ago and stocked up at the low prices that prevailed are now making big money on their investments. In the Western States speculation in steers has been heavy and at constantly advancing prices.

One good feature in the situation is the demand for registered stock. The prices for registered males in the west have trebled in many instances. This also leads up to a universal demand for cows and heifers. It is estimated on the very best authority that it will take at least four years to restock the ranges with cattle to their former capacity, as it will take three years to get steers on the market after the cows begin to breed. The breeders in the west are therefore looking for five or ten years of good business in the cattle trade, and conditions favorable to their interests will be favorable to breeders elsewhere. Canadian breeders may look forward with hopefulness also.

### Scarcity of Fine Wools.

"The su-ply of fine wools in existence to day is smaller (re lively to the world's needs) than it has been at any time within the longest memory." So says The Monthly Bulletin for March of the

National Wool Growers' Association. This statement, is based upon facts connected with the world's output for the past two years gathered from reliable sources. The world's wool market, and particularly that of fine wools, is governed by the Australian output. The 1897 clip of wool in Australia was very much short of the usual output, and the quality, owing to the drought, was considerably deteriorated. As the conditions for 1898 are not likely to be an improvement over those of 1897 we may look for a further curtailment in this year's clip. The last clip of wool there showed a falling off of 170,000 bales, and if anything near this occurs this year there will be a most extraor dinary depletion of the stocks of fine wool. There fore, unless the demand for fine woollen goods falls very much below the usual demand, fine wools will command high prices during the next few years.

There is this feature to be considered, however, if the price of the best quality of wools goes up to a high figure, consumers are apt to content themselves with an interior and lower priced article. Should such a condition of things arise the growers of fine wools would not receive the full benefit and a share of the advance in prices would fall to the producer of the coarse variety.

#### The Poultry Industry of Canada.

Ly Thomas A. Deff, Toronto, Ont.
(Continued from last week).
FEEDING FOR EGGs.

One of the most important considerations in the management of poultry is the feed. Fowl require a balanced ration in order to produce eggs as much as the dairy cow requires such a ration for the production of milk. It requires a certain quantity of food to be taken into the system to keep up the constitution and to supply heat, the balance or surplus food going to make up that which is produced. Poultry should, therefore, be fed that class of food which contains the ingredients necessary to make up the egg. I am quite satisfied that very little, it any, money can be made out of poultry which are fed wholly upon a grain ration. The food will prove too costly.

Do not feed too much or too little. Fowls require a change. It is absurd to suppose that a continuous supply of wheat, without change of variety, will do. For egg production I would recommend the following:

In my opinion clover hay is one of the very best foods you can give to laying hens, for many reasons. It is bulky. It contains the nitrogen ous elements and the carbohydrates in excellent proportions for the nourishment of the fowl. It is rich in mineral constituents. Compounds of lime are abundant, such as are required for shell formation. The poultry relish it at all seasons. It is especially appetizing to them in winter when there is a dearth of green food. Put the shortest cut upon your straw-cutter and cut the clover into lengths from three sixteenths of an inch up, having, if possible, none longer than an inch. a quantity sufficient for your purpose (and of this you must be the sole judge, according to the number of fowl kept), and put it into a pail or boiler, then take a kettle of boiling water and pour it over the clover; cover with a cloth, and leave it to steam for from twenty minutes to half an hour according to the temperature of the weather. Into this I would mix equal parts (bulk) of bran, shorts, oat chop and barley meal, and to every twenty five hens I would add one pint of pea meal. First mix these meals thoroughly together, and add to the steamed clover. Mix as dry as possible, as it is dangerous to feed sloppy food. A great many people run away with the idea that the morning food should be fed as hot as possible; this I believe to be a mistake, because when the fowl are fed hot food they are not in a condition to withstand any sudden change of temperature, and the result is distemper and roup. The morning food should, therefore, never be fed warmer than milk heat. I would recommend these to be fed in a trough about three inches deep, placed against the wall so that the fowl

could not get their feet into it. Do not allow the fowl to gorge themselves, as it makes them lazy. A hen should be active—always busy. Such are the best layers.

I cannot too strongly comment upon the feeding of green bone. In my opinion it is, par eveclence, the greatest boon the poultry world has had in years. I would give a little of this at noon each day, allowing about one ounce to each bird. Should it be impossible to get green bone, I would advise giving a little skim milk or buttermilk, and failing that, a liver, which should always be parboiled before being fed.

It will be admitted upon all sides that poultry, as a rule, lay better in summer than in winter. The reas in for this is that they are able to get the proper kind of food which goes to make up the egg. They get animal matter in the shape of grasshoppers, worms, grubs, flies, etc., and vegetable matter or green food in the way of clover tops, grass and the like. If, therefore, you feed the same kind of food in the winter as they themselves gather in the summer, and have a warm, comfortable house, it stands to reason that you should get a good supply of eggs in the winter months when the price is high, and winter eggs is where the profit comes in. Be sure, therefore, to feed plenty of vegetable matter. This can be given in the shape of cabbage, turnips or mangels.

At night I would feed whole grain—all that the fowl will eat up clean. Do not mix the grains, but give a variety—one week wheat, another buckwheat, another corn, etc.

Plenty of fresh water should always be given, and it is a good practice, during the winter, to take the chill off it. After they have done drinking throw the water out. Plenty of sharp sand and gravel should always be within reach, also lime for the formation of shell. This can be supplied by placing old plaster where the fowl can get at it. The best article for this purpose, however, is ground oyster shells which can be bought at almost any seed store, and is now kept by druggists and hardware merchants all over the province.

#### The Prepotency of Sires.

At the recent live stock shows held in England visitors were greatly impressed by the striking examples of the prepotency of sires to be seen in many of the animals exhibited. One remarkable instance was that of the get of old Harold, the noted winner in the Shire horse classes. For the last two or three years winners at the Shire horse shows have to a large degree been of the Harold get, and last week's results show this in a more marked degree. The owner, Mr. Henderson, swept nearly all the prizes in the Shire classes at the London show, and the primary cause of his success is high-skill breeding by illustrious sires so as to get the right material, after which the trainer's art would be requisite to make the highest type of animal.

では、100mmの大きなない。 100mmの大きなない。 100mmo 100mmo 100mmo 1

The wonderful success of the Harold get and the high reputation enjoyed by so many animals of that lineage have naturally raised the value of every animal partaking of it to a high limit. So much so is this the case that the prices asked for mares and fillies of this strain and for the hire of Harold stallions are considered by some to be extravagant. Whether this be so or not there is no doubt that the prices asked are within reason and what many who appeciate really fine animals are willing to pay. Our farmers would be thunderstruck if they were asked to pay the prices for the service of a sire that some of the English farmers are quite willing to pay. For the service of Markeaton Royal Harold, 15 guineas are asked for each mare. This is about the price that many Canadian farmers expect to get for a colt when a year or two old. However, everything considered the price is not an exorbitant one, and a sire with the reputation for getting good stock which one of the Harold strain possesses will give a good

The same law of the prepotency of the sire is noticeable in every high class breed of cattle,

sheep or pigs, and the best animals can scarcely be over estimated in respect to their real worth. When twenty three years ago the celebrated Short horn bull calf, Duke of Connaught, was bought for 4,500 guineas, everybody thought the purchaser mad, but time has proven the very opposite. As much as 100 guineas were charged as fees for his service, and instead of being a financial loss as many predicted, his purchase has been remunerative. If a stallion, bull or ram or boar of almost imprecedentedly grand character and high quality happens to have a marvellous prepotency, besides and thereby transmits his superior characteristics to all progeny, the value of such an animal can scarcely be over estimated. There are striking examples of this strong prepotency not only in horses and cattle, but in sheep and swine. An animal of this character is of value because its influence will live after him, and his offspring will transmit the same prepotent qualities to future generations

#### Agriculture in the English Universities.

A movement is on foot in England to establish an agricultural department in connection with one or two of the leading universities. The only difficulty seems to be to provide sufficient means to finance the scheme. The university senates seem loth to spend any money on the venture but might do so if the venture were to prove successful, and consequently the promoters of the scheme will endeavor to provide the necessary funds from outside the universities for inaugurating the work. The plan is to establish a readership in agriculture at Cambridge, and in connection therewith a special examination in agricultural science for the ordinary B.A. degree, analogous to the special examinations in mechanical science and music. Sir Walter Gilbey, a great friend of agriculture, is ready to offer Cambridge University the sum of two thousand pounds to provide a stipend of £200 a year to a reader in agriculture during the next ten years as soon as the promoters are ready to go on with the scheme.

A training of this kind in agricultural science would meet a long-felt want in the great univer sities of England. It is here that the landlords of the future are educated and it is of vital importance to the country that they should learn something of the science of agriculture whilst at the university, with the view to the better management of their estates in after life. It is evident from this that agriculture is gradually obtaining its proper place among the advanced sciences in England and is not looked upon as being beneath contempt, as it is in some of the centres of learning in the new world.

#### Fodder Cheese.

There are several reasons why our dairymen should not make fodder cheese. In the first place it is of inferior quality to the cheese made when the cows are on the grass, and for which Canada has acquired such an enviable reputation in the British markets. By sending forward this early fodder cheese it serves to depress the market for the later goods, and because of its inferior quality gives our cheese a had name. Then we do not think it the most profitable line of farming to sell all the milk off the farm in the early spring when it is so much needed for the calves and young stock, and especially is this the case this spring when the cheese market is glutted with last season's goods and the price is likely to start lower than for many years. If no folder cheese is made, and no new cheese is sent forward till about the end of May the cheese market will have an opportunity to recover somewhat and the prospect for next season's trade made brighter. In addition to all this there is the fact that the demand for fine creamery butter is good and that prices are likely to be fairly remunerative for some time. It will, therefore, pay dairymen bet ter to make butter till about the middle of May and have the skim-milk returned to the farm for feeding the calves during their early growing period.

#### Canadian Oats in England.

There is a growing demand in England for Canadian oats. Since the opening of navigation last year about 7,000 000 bushels of Canadian oats have been sent to England, the largest quantity ever exported in a single season, and valued at about \$2,000,000. There is still a good demand in England for Canadian oats, although prices are somewhat lower.

Russian oats command the highest price of any oats sent into England, and for many years have about controlled the market. There are signs now that Canadian oats are gradually taking the place of the Russian oats in Great Britain. In several cases, recently, Canadian oats have brought prices almost equal, if not equal, to those obtained for Russian oats. About ten days ago a lot of 3.000 quarters of No. 2 white Canadian oats was sold at within 6d, per quarter of the best Russian oats on the market, namely, 175 ex-quay; and a lot of 2,000 quarters No. 2 mixed Canadian sold at 16s. 6d. landed terms. The London market reports of the same date quoted sales of Russian oats at 16s. 6d. ex quay, and consequently here is an instance where Canadian No. 2 mixed oats brought as much as the Russian oats on the London market. About March 1st, mixed American oats were selling at about 15s. 6d. ex-ship, so that Canadian oats bring from 1s. to 1s. 6d. more than American in the British markets.

This condition of things will be satisfactory to the Canadian farmer. Though we do not consider the selling of the coarse grains off the farm to be the most profitable kind of farming to adopt, yet there are many Canadian farmers who from the very nature of things have a surplus of coarse grains every year which it is necessary to dispose of in some way other than by feeding. For these the opening up of new markets for oats and other coarse grains will be beneficial. This largely increased demand in England has to some extent stimulated prices here, though they are lower the last week or two than they have been during the winter. Stocks are accumulating very fast, and we may look for easier prices yet. Comparatively speaking, prices have been high so far this season. A year ago oats were several cents a bushel lower than they are at the present time.

#### Intensive Farming.

It is not always the large farms that pay the best. Many farmers are working too much land. A smaller area thoroughly worked will return a larger income. It would do some of our large farmers good to visit the truck farms in the vicinity of the larger cities, especially in the neighborhood of New York. On Long Island and in New Jersey there are many small areas, kept up to a high state of fertility, that give much greater returns than many of our large farms. Every inch of the soil is thoroughly cultivated. A crop is planted as early as possible and the soil is kept in constant use until the end of the season. The same land must yield at least two or more crops every year.

#### NOTES AND IDEAS.

The estimated amount of corn on hand at this time is said to be 745,000,000 bushels as compared with 1,083,000,000 one year ago. These figures are giving considerable hope to holders who are looking for a rise in price. In the corn belt of the west live stock feeding has been carried on to a very large extent this season, and it would not be surprising if the supply of corn were pretty short before the present year's crops are harvested.

A striking example of what can be accomplished by intelligent and systematic effort in breeding is seen in the experiments of an English breeder. He applied the natural selection principle to the dairy and without any change of breed, bred from such cows as gave the best average yield of milk. In 1890 the average was 740 gal-

lons per cow, but in the following year it was only 720 gallons per cow. Since 1892, however, progress has been uninterrupted, and without buying any expensive milking strains to improve the herd the yield was 879 gallons in 1896. The steady observance of which cows were doing best, and the trust in a whole year's average in each case, were the clue to this remarkable success.

It is expected that farm help will be scarce during the coming season. Already farmers in several sections are making inquiries of the Department of Agriculture in regard to the matter. The rush to the Klondike and the fresh impetus given recently to emigration to the North-west are the causes of this scarcity, as they are attracting the floating population to the west.

New avenues for Canadian trade seem to be opening up. The Canadian Trade Commissioner to Australia is of the opinion that Canadian cheese might find a market in that country and advises making small cheese, weighing about ten pounds, for this trade. The liners from Victoria are now fitted up with cold storage facilities and consequently cheese could be shipped without any great risk if the market would warrant its being a profitable venture. The Department of Agriculture at Ottawa has been requested to make a trial shipment to test the market.

Owing to the drouth there have been heavy shipments of grain and flour from other countries into Australia, and some shipments of Canadian flour have met with a successful sale there. Other lines in which Canadian trade with Australia may be developed is in furniture and boots and shoes.

The producers in great Britain are asking for amendments of the law relating to the adulteration of foods and drugs. One of the proposals is that the coloring of margarine and its mixture with butter should be totally prohibited. Such a regulation, if it came into force, would be of value to those countries which ship only pure food products into Great Britain. For instance, with the law as it now stands, the Canadian buttermaker has not only to compete with the butter from other countries, but with the large quantities of margarine which appear to find their way onto the British market.

#### CANADA'S FARMERS.

#### W. J. Bell, Angus, Ont.

We have pleasure this week in presenting the readers of FARMING with a short sketch of one of our leading poultry men, in the person of Mr. W. J. Bell, Angus, Ont. In our special poultry number of January, '97, we gave a sketch of Mr. Bell's life and work as a poultry fancier, and therefore will not need to enlarge very much along that line just now. Suffice it to say that Mr. Bell is a thorough Canadian, and was born on the farm on which he now resides, near Angus, in the county of Simcoe. With the exception of several years spent in a neighboring township, Mr. Bell has always resided at Angus.

Mr. Bell is one of our most extensive poultry-raisers, and, unlike many farmers who keep poultry, makes it his especial line of farming. Though several varieties of poultry are kept, Mr. Bell has acquired his reputation as a breeder of he highest type of Bronze turkeys. In this special line Mr. Bell counts as his regular customers some of the leading poultrymen of Great Britain and the United States. Considerably over fifty of his birds have crossed the Atlantic, and Bronze turkeys from the Hillsdale farm have won first honors at many of the lealing poultry shows in Great Britain. This is, indeed, no small honor, and one of which Mr. Bell may feel justly proud. Another of Mr. Bell's specialties is Rose CombeWhite Leghorns, his birds having won the highest honors at the Madison Square Gardens.

New York, whenever shown.

Mr. Bell is an exhibitor at the leading Canadian fairs, where he is always a winner of a large share of the best prizes. His birds are specially renowned for their large size and conformity to type. In addition to poultry Mr. Bell is a breeder of purebred Berkshire swine, and this venture is also proving successful.

Mr. Bell is as yet a comparatively young man, and we may look for even greater results in his special line of work.

Mr. Bell is as yet a comparatively young man, and we may look for even greater results in his special line of work. His ability has been fully recognized by those who know him best, and many positions of trust in his own locality have been abl filled by him.

#### OF INTEREST TO IMPORTERS OF THOROUGHBRED STOCK.

Editor of FARMING

It would be very useful to the importers of thoroughbred stock if you will kindly make an announcement in your paper in regard to a change in the customs regulations.

As the regulations have hitherto stood, the customs officers have required the importer to leave on file in the office with them the original certificate, both of the pedigree of the animal and of the tuberculin tes. having been made, showing freedom from disease. Instructions have just been issued to the officers of the various ports to accept (in lieu of the originals) copies of these certificates, made either by the importer or the consignor, and, upon presentation, certified correct by the customs officer. These copies will serve the pur pose of a record in the office of the official in case any dispute arises, and will obviate the inconvenience which has hitherto existed on account of importers having to part with the original certificates, which they frequently require for practical purposes, and having consequently to incur trouble, expense and delay in procuring copies from the original makers. Thanking you in advance,

SYDNEY FISHER, Minister of Agriculture.

#### FINISH THE HOGS PROPERLY.

Complaint is made at the cattle yards that a large share of the pigs that are offering are too fat. They weigh enough, but they have not been well grown, being over fat from heavy feeding and lack of sufficient exercise.

The high price of pork last fall and the abundance of feed no doubt led a great many farmers to put up a lot of pigs to feed for the spring market. Many of these pigs have evidently been forced along with strong rich feed with the object of getting them up to the proper weight for marketing while prices were good.

The mistake was made of fattening them rather than growing them, i.e., if the bacon market was the market for which they were being fed. More growing food is wanted, more roots, more exercise and less meal. course that means a little longer time, but it means also more profit. Prepare a clover patch for the pigs for the summer, so that they may have sufficient run and also make cheap pork.

#### A NEW REMEDY FOR CHOKED CATTLE.

Sometimes a cow will get choked or perhaps something else. It is alremedy is a peculiar one. Fine cut ticle out. sufficiently to make it stick together, worked back, the testicle gradually and a hall the size of a hen's egg is pulled out and finally cut off as close made. Now hold up the cow's head, to the body as possible. Some men pull the tongue forward and crowd the brefer to let the cut go without any ball as far down the throat as possible dressing. Some use salt, but it is In about a quarter of an hour it will better to use a little clean lard.

2. Testing nitrate of soda, superphosphate, muriate of potash, mixture, and no manure with mangels, 5 plots, 2 rods by 1 rod.

3. Growing three leguminous crops for green fodder, 3 plots, 2 rods by 1 rod.

4. Growing three mixtures of grain for green fodder, 3 plots, 2 rods by 1 rod.

This cause sickness and vomiting. relaxes the muscles of the gullet and the object will likely be thrown out.

#### SUCCESSFUL DAIRYING.

At a recent meeting of the Farmers and Dairymen's Association in New Brunswick, Mr. R. Robertson, superintendent of the Maritime Experimental barm urged upon the farmers the importance and necessity of selecting and breeding good stock. He said the should study these two farmers questions that they might be able to choose their stock rightly, to be able to tell when they had good cows and then to know how these cows should he bred to produce the best results. This knowledge means money and prosperity to themselves and to the country. If a dairy cow does not make money for her owner it is all the fault of that owner.

To make the greatest success in senting eggs to england for natching. dairying, essentially dairy cows are ne do. Every farmer should select a breed and stick to it. Don't try one breed and stick to it. cessary, a general purpose cow will not and stick to it. Don't try one breed this year, another next year, and still another the following year. If you do you will get nothing.

In selecting a good dairy cow, lock for a bold, sharp eye, this indicates a nervous temperament, for good breathing capacity as shown by conformation and the nostril, this indicates good lungs, a most important point; as she is intended to consume coarse food she should have a long and healthy hody and plenty of paunch room. The right size he thought would be about 1,000 pounds. Color was of no imhim as near the dairy type as possible. Keep weeding out the calves from the poor cows, and any calf that does not do well. Keep only the best. Weed out the cows also and keep only the best and most profitable. The best is none too good.

#### QUESTIONS AND ANSWERS.

CASTRATING PIGS.

W. J. W.-Kindly give me a few pointers on how and when to castrate young pigs.

Ans.-This operation should be performed when the young pigs are from six to eight weeks old. c 21 1 good plan to feed them lightly for a mental Union have done well on the experimental plots at the operation. The pigs generally do better parallel of the experimental plots at have done well on the experimental plots at Guelph and in co operative experiments the sow. It requires two persons to perform the operation. The assistant holds the young pig between his knees with its back on the ground, or better on a carpenter's bench. Then he grasps a hind leg with each hand and presses the legs down on the belly. if altered before they are taken off grasps a hind leg with each hand and with a small potato, a piece of turnip presses the legs down on the belly. The operator presses the testicles out ways well to have something on hand until the skin of the scrotum is tight. join in this experimental work may choose with which to relieve the animal. Then a quick cut is made with a very any one of the subjoined list of experiments. There is nothing better than a good sharp knife. Some prefer to make a Application should be made to Mr. C. A. Zavitz, O.A.C., Guelph, Ont., who will give probang. Every farmer should have separate cut lengthwise for each tesone. They are cheap and will often ticle; others prefer to make only one experiments. save more than they cost in time and cut crosswise. The opening should The latest suggestion as a be only large enough to let the tess a peculiar one. Fine cut ticle out. The covering of the testobacco is dampened with molasses ticle should then be cut, gradually sufficiently to make it stick together, worked back, the testicle gradually

WEIGHT OF HAY.

L.K.S. Will you kindly tell me how much hay loses in weight from the 1 rod square. time it is put into the barn until spring. What is the rule for measuring hay in a mow. How many feet make a ton?

in the hay at having time. If the hay was put in quite green the loss might run up to 15 per cent.; ordinarily cured hay will lose about 10 per cent. in weight. Find the number of cubic feet of hay in the mow. If it is a small mow it will require about 512 cubic feet to make a ton; this is a cube of 8 feet. This is the usual measurement given for clover hay. If, however, the hay is in a large mow, 500 cubic feet may be sufficient, so much depends on the pressure it has been subjected to. About 120 cubic feet of timothy hay will make a ton.

L. Macdonald: Can you tell me if eggs for

The writer has shipped a great many bas-kets of eggs for hatching to different parts of England, and up to the present time has not heard of one egg being broken. All who re-ceived the eggs reported good average hatches, one person reporting, from eggs which left Canada, on the 14th March, 1894, a hatch of

fifty-two chicks from fifty-five eggs.

I purchase an ordinary hand basket with a cover; I first line the entire basket with cot-ton batting; I then put in the bottom of the basket, to the depth of about an inch and a half, out hulls or bran, the former preferred. I then take each egg and wrap it in tissue paper, after which it is wrapped in the cotton batting and placed in the basket, small end down. I pack these eggs as tightly as possible, in fact squeeze the last of them in. If portance. Select a dairy sire. Get it is necessary to make another layer (as it usually is with me), I put out hulls or bran on top of the bottom lot of eggs, then a layer of cotton batting, and proceed as before. On top of the eggs I put more hulls or bran. As a finishing touch I put a newspaper or two on a finishing touch I put a newspaper or two on top, and fill up the top of the basket and the lid with the batting, so that to fasten the lid it has to be squeezed down. This prevents the eggs from shaking while in transif. Be sure to wrap the eggs well, and see that they fit tightly. There is no danger in shipping if packed in this way. Be sure, however, that the eggs are not over a week old before being shipped.

#### EXPERIMENTAL UNION CO-OPERA-TIVE EXPERIMENTS IN AGRI-CULTURE FOR 1898.

The Agricultural Committee of the Experi-

out Ontario.

Any farmer, or farmer's son, who wishes to all necessary instructions for carrying out the

#### LIST OF EXPERIMENTS.

1. Testing nitrate of soda, superphosphate, muriate of potash, mixture, and no manure with corn, 5 plots, 2 rods by 1 rod.
2. Testing nitrate of soda, superphosphate,

5. Testing four varieties of millet, 4 plots,

2 rods by 1 rod.
6. Testing four varieties of grasses, 4 plots,

7. Testing four varieties of clovers, 4 plots, rod square. 8. Testing three varieties of buckwheat, 3

a mow. How many feet make a ton? plots, I rod square.

Ans.—The amount lost in weight

9. Testing three varieties of spring wheat will vary with the amount of water left and I variety of spring rye, 4 plots, I rod

square. Testing four varieties of barley, 4 plots, rod square

11. Testing five varieties of oats, 5 plots, 1 rod square. Testing four varieties of peas, 4 plots,

1 rod square. 13. Testing three varieties of beans, 3 plots,

t rod square 14. Testing five varieties of carrots, 5 plots,

1 rod square.

15. Testing four varieties of mangels and variety of sugar beets, 5 plots, 1 rod

square, 16. Testing two varieties of Swedish and two varieties of fall turnips, 4 plots, 1 rod

square.

17 Testing six varieties of corn, 6 plots, 1 rod square.

These experiments offer a good opportunity to obtain seed of promising new varieties of grains, grasses and roots, and at the same time the opportunity to test these varieties side by side on the same kind of land. Make application early, as they are filled in order until the supply is exhausted. All seed and fertilizer is supplied free of charge.

#### **CO-OPERATIVE EXPERIMENTS IN** HORTICULTURE.

The Horticultural Committee of the Experimental Union have decided on the ex-periments which they will try this year.

A choice of the following six lots of small

fruits is offered for testing this year :

t. Four varieties of strawberries-Haverland, Clyde, Woolverton, and Van Deman-12 plants of each.

Four varieties of raspberries-Marlboro'. Queen—6 plants of each.

3. Four varieties of black raspberries—
Suhegan, Gregg, Palmer, and Hilborn—6

plants of each. 4. Four varieties of blackberries-Kitta-

tinny, Snyder, Taylor, and Gainor-6 plants of each.

5. Four varieties of currants—Fay's Prolific, Victoria, Raby Castle, and White Grape—3 plants of each.

6. Four varieties of gooseberries—Houghton, Downing, Whitesmith, and Industry—3 plants of each.

Each person who wishes to join in the work may choose any one of the experiments. It is well for each applicant to make a second is well for each applicant to make a second choice, in case he may be too late for the first. The experiment selected may be indicated by number. The supply of plants being limited, those who apply promptly will be most likely to obtain what is asked for. All applications should be made to 11. L. Hutt, Horticulturist, O.A.C., Guelph, Ont., who will give all necessary information and instructions to those carrying on the tests. structions to those carrying on the tests.

#### THE LONDON HORSE SHOW.

(By our regular correspondent.)

The great annual London Horse Show sea-The great annual London Horse Snow season commenced this year, as usual, with the Shire Horse Society's show. This, is the first of the triumvirate of breeding stock horse shows that annually take place in London every spring, the opening day being February 22nd, and it continued until Friday, the

The entries for the present year numbered off in respect to numbers. The public interest in the show was fully as great as ever. Indeed, one is almost inclined to say that never during either of the previous nineteen shows has the interest been greater than on the present occasion. the present occasion.

The all round merit was good. in some of the very numerous classes one noted here and there a few moderate animals, but, taken all round, it can fairly be stated that the show was thoroughly good on all

The yearling class numbered 41 entries.

Mr. E. Green's colt went an easy first, with
Lord Langattock's following closely behind.

Fifty five were entered in the class for twoyear-olds. This was a grand class, and headed

old, a son of the last year's Champion, Mark-eaton Harold, who was also stred by that noted horse and dual champion, Harold. The other leading winners heren were Mr. James Eadie, Sir J. Blunded Maple, Mr. Jos. Wannwright, the Earl of Egerton, Mr. John Nix, and Lord Wantage.

Three-year-old stallions were an extraordinarily large class, there being no less than two were rejected; 111 adult stallions were sixty eight horses. In such a class doubtless examined, and three rejected. The average there was room for difference of opinion, but we think the awards given are probably those that was repeated to the flackney.

The beside of the flackney. that were in agreement with most of the on-

that were in agreement with most of the on-lookers. A grand, massive, heavy horse, full of weight, quality and substance, property of Mr. J. Parnell, went rightly to the fore, whilst next him was placed a very typical ard promising horse of Lord Rothschild's, Coth-eridge Swell, the other money winners being Lord Hothfild, A. Grandage, the Earl Eger-ton, W. H. O. Duncombe, and A. Crawford.

end of the class was not of any exceptional per all round development proportional to his merit or quality. The premier herein was size. Mr. J. Rowell's grand horse, every inch a Shire, Bury Blood Royal, who, with every reason, fully deserved the place he secured. Messrs. P. Stubs, J. Forshaw, etc., were also prominent winners.

Stallions between four and ten years of age, divided into two classes, as regards then height, numbered respectively 32 and 40 entries. In the former class Mr. P. A. Muntz scored a most thoroughly deserved victory who was champion in 1897, and was this year R. N. for the same high/honor, being beaten by the same owner's Buscot Harold, one of his own sons. Messrs. J. Forshaw, E. P. Shaw, etc., also provided winners.

was one where veterans met; not, perhaps, veterans of show yard victories -those there were numerous—but veterans from the stud, where their high value and meric had been abundantly proved by the success of their progeny. Lord Rothschild's stud provided the winner herein in Cour-de-Lion, a noted horse with great stud reputation and of capital

quality.

The female section was one of the highest order of merit and quality. Forty-seven en-tries in the filly class yearlings was one that owed closely by Lord Ellesmere's Oakland's Nora.

Two year-old fillies numbered 51 entries of great merit and quality, this lot being headed by Mr. W. H. C. Duncombe's Bow Royal, a noted winner, and one whose future promises to be of great notoriety. Three year old mares were headed by Mr. A. Henderson's Lockinge Loicet, a grand mare of great char-acter, who was followed by a pair of Lord Ellesmere's to whom went second and third awards.

Four-year-olds were a strong lot of grand quality, being headed by Mr. A. Grandage's Queen of the Shires, last year's champion and R. N. for the same honour this year, a grand mare with any amount of go and BOOKS AND BULLETINS RECEIVED

Mares over 16 hands were another strong lot, and from this lot was selected the cham-pion mare of the yard, namely, Mr. A. Henderson's Aurea, who not only secured the first in the class and the championship of the show for mares, but also was the dam of the cham-pion herse as well. A grand mare from Mr. Cyarinkon's stud secured the second place, and realized, when sold, \$2,350.

#### LESSONS FROM THE LONDON HACK-NEY SHOW.

The fourteenth annual exhibition of the Hackney Horse Society was held in London (Eng.) the first week in March. It was a complete success. It was the means of bringing together a large number of horse breeders and buyers, many of them from the continent, and of convincing them of the demand for the Hackney horse.

There were sewer stallions present than in other years, but this was more than made up by the increased number of good mares that

by what may doubtless be considered as being were present. The horses were shown in the best two-year old colt we have perhaps ever good shape, there being fewer overfed animals seen, i.e., Mr. A. Henderson's Buscot Harpresent than ever before. The majority of old, a son of the last year's Champion, Marken Harold, who was also sired by that few years ago would have been considered

> A great improvement was noticeable in the soundness of the animals. All horses were tisement. Looking after the interests of our examined for soundness before they came into the ring to be judged. There were 110 young stallions examined, and of these only

The height of the Hackney is ano her important point. The demand now is for a large horse possessing good action. This point has been seriously considered by the Hackney breeders, and judging from the horses present the breeders are prepared to furnish the large style of a Hackney of just as Lord 110th ld, A. Grandage, the Earl Eger ton, W. H. O. Duncombe, and A. Crawford. as the smaller horses. Nevertheless it is far I he four year-old class numbered forty-five entities, and although the leading horses were cause every horse bred for size will not posvery good and excellent specimens, the tail end of the class was not of any associated.

> There were 101 matured stallions shown, exclusive of ponies; of these 30 horses or 29.70 per cent. were 14 hands 3 m. and over; 48 horses or 47.52 per cent. were 15 hands 2 in; and 21 horses or 20.70 per cent. were 15 hands 3½ in. or over. Of the whole adult horses shown nearly 11 per cent. were 16 hands or over, while one four-year-old measured 16 hands 234 in.

In commenting upon the size of the Hack with that grand horse, Dunsmore Bounding meys at the show the London Live Stack Jour-Willow, Messrs, J. W. Whitehurst, J. Formal says: "It nevertheless remains a pleasant shaw, etc., being also we'l up, whilst in the larger horse class Mr. A. Henderson easily short-legged, flit-boned type of Hackney surtook the lead with Markeaton Royal Harold, vives to prove to the world that, in spite of whomes champonin 1802, and was this year R. change and alteration, the English lattness and untenable fact that the big matthet, short-legged, flat-boned type of Hackney survives to prove to the world that, in spite of change and alteration, the English harness horse can still be found in all his former exone owner's Buscot Harold, one of his own cellence, and it is this stamp of animal that one of provided winners.

The stallion class for stallions over ten years as one where veterans met; not, perhaps, cubical Hall this week, and with such young eterans of show-yard victories—those there stallions as R yal Dangelt and Rosador to the properties—that veterans from the stud. represent the breed, there can be no difficulty whatever in supplying the market with exactly the class of harne's horse that the buyers want, if only the Hackney breeders will study the requirements of their best friends - the public.

The decision of the judges did not always meet with favor from the ring side. The prize horses showed a great diversity of types, which, of course, can be accounted for by could hardly be equalled elsewhere. Mr. F. there being more than one judge. One judge, W. Griffin headed the same with a filly of thoroughly capable, should show in his prize grand conformation and development, followed elsewhere the least the fills of the least the men, however, are not yet prepared to adopt

the one judge system.

The contest for the championship of the show lay between Sir Walter Gilbey's Royal Danegelt and Mr. Beattie's Rosador, last year's champion. They are both sons of Danegelt. Royal Danegelt was awarded the championship of the show. The champion ship prize for mares went to W. S. Forster's Brunette, with Sir Gilbert Greenall's Orange Blossom as reserve.

The number of entries was 242 stallions, 187 mares, and 51 geldings—in all 65 more than last year in the breeding classes.

The Suffolk Stud Book, Vol. AI. The volume contains the pedigrees of 331 stallions and 290 mares. It is two years since Vol. X. was issued. Secretary, Fred Smith, Warren Hill, Woodbrudge, England.

Royal Prince, imp. (Mar. '96) J. Miller & Son, Brooklyn, Mich, U S.A. Stook Co. Brook Co.

## Publishers' Desk.

Apollo Harp. - Readers of FARMING do not again need to be reminded of the excep-tional merits of the Apollo Harp. The homes into which it has gone are its own best advercarefully note the special bargains in Apollo Harps, announced in this issue. Anyone se-

#### Stock Notes

John Isaacs' Sale of Shorthorns.

The sale of Sh ith arm at Rinellar Lodge. Mark ham, Out , on Wednesday, the 16th of March, was a perfect success and will be one of the features of the Shotthout made on the year. Not for years bas there has been the 1st few months. The reports of private sales show that go all prices are going. The prices related at public sales have also been good. Breeders have I soked forward therefore to the sale of Mr. Isaas' imported stock with a great deal of interest, because the prices realized would be a sure indication of the strength of the trade. In this they have not been disappointed for in every respect the sale was a great success. This was the first appartually to obtain imported stock that had presented itself for many years, and hayers were ready to take advantage of it. Mr. Isaas is to be one gratulated on the success of his sale. He had a fine day for it and a very large and representative attendance of hugers from all perts of the province, some fifteen or more from the United States and a large number from the North-west. The imported builts were all fine topped, short legged blocky anomals. They were a little thin, but one could hardly expect to find yearlings in high flesh after an ocean voyage and interly days in quarantine. They were therefore in the very best shape for examination by buyers. The home heed balls were good ones and had they been imported would have brought nearly three times the money that they did.

The females were also good and in was a great supprise to many that some of the cows did in it bring more than they did. Rose Montrath sth with a ball calf at her side, Mina 4th with a ball calf at her side, Mina 4th with a ball calf at her side, Mina 4th with a ball calf at her side, Mina 4th with a ball calf at her side, Mina 4th with a ball calf at her side, Mina 4th with a baller calf, and a number of the hefters should have brought more than they did.

The formace well filled quarters and shoulders. He was carried as 5x0, but quickly ran up to 5x70, when he was knocked down to W. D.

BULLS.

# "Alpha" De Kaval **Beparators**

#### Retail Prices from \$65 to \$500 each.

The closest skimmer and best machine on the market. Gives perfect satisfaction wherever used. Send for Catalogue and full particulars.

# 🔊 🔐 Canadian Dairy Supply Company,

The Ballantyne Dairy Supply Co.
Stratford, Ont.
T.A.McLean & Co., Charlottetown, P.E.I.
T. L. Walworth, Vancouver, B.C.

MONTREAL, CA

MONTREAL, CAN.

# FREE SEEDS

## Change of Seed Makes Larger Yield

E have made special arrangements with the old and reliable seed firm of JOHN S. PEARCE & Co., London, Ont., whereby we are able to offer the following valuable 2 he tions of seeds as prem-

iums for new subscribers. These seeds and of the best varietie and are specially for our patrons.

# COLLECTION A.

io rac	Price		
l Packet	Beet	1 Pack	et Parsnip
l "	Carrot	1 4.	Cabbage
ı "	Cucumber	i "	Radish
l "	Lettuce	i "	Squash
l "	Onion	1 "	Tomato

Given for one new yearly subscriber at \$1.

#### COLLECTION B.

10 Packets Flowers. Price, 50c. l Packet Phloa Drunmondil Packet Pansy

1 "Stecks 1 "Nast-atium
1 "Petunia 1 "Dianthus
1 "Portulacca 1 "Balsam
1 "Mignonette 1 "Aster

Given for one new yearly subscriber at \$1.

## COLLECTION C. 20 Packets Vegetables and Flowers. Price, \$1.00.

	Pcket	Aster	1	Packet	Squash
1	6+	Pansy	1	**	Watermelon
1	• •	Stocks	i	• •	Musk Melon
ī		1°lsam	i	**	Lettuce
Ī	**	Phlox	i	4.	Celery
ī	**	Sweet Peas	i	4.4	Carrot
ī	4.	Cauliflower	i	**	Beet
i	**	Cuoumber	i		Radish
i	**	Onton	i	**	Tomato
i	**	Cabbage	i	••	Vine Peach

Given for two new yearly subscribers at \$1 each.

#### COLLECTION D.

2	0 Pa	Price, \$		
1 P	acket	Beet	1 Packet	
1	••	Parsnip	2 "	Cabbage
216		Cucumber	i "	Lettuce
1	**	Musk Melon	i "	Watermelon
1	**	Citron	j "	Onion
1	••	Radish	i "	Squash
1	••	lomato	1 "	Vine Peach
ì	**	Parsley	i "	S Savory
i		San-	• ••	3, 5,2,0,0,

Given for two new yearly subscribers at \$1 each

#### Barley

For one new yearly subscriber at \$1, and 18 cents added to pay for bag, we will give one bushel of Mandscheuri Barley.

#### Oats

For one new yearly subscriber at \$1, and 18 cents added to pay for bag, we will give one bushel of Siberian White Oats.

These varieties are among the best in the market, and from reports gathered from reli-able sources have headed the lists, both in yield and quality.

### Purebred Poultry

One pair of any of the following breeds of Fowls. Silver and Golden Wyandottes, Barred Plymouth Rocks, Black Langstans and Single Comb White Leghorns given for six new yearly subscribers at \$1 each.

### Eggs for Hatching

One setting of 13 eggs of either of the following arieties: White and Barred Plymouth Rocks, S.L. Wyandottes, Golden Wyandottes, B. Minorcas, S.L. White Leghorns and Brown Leghorns for two new yearly subscriptions at \$1 each.

#### THIS IS YOUR OPPORTUNITY

Make an effort, and we are sure you will succeed in secur ng some of these valuable premiums. ----

#### FARMING

44-46 Richmond St. West, Toronto, Can Sample Copies Free.

# The Ontario Agricultural Gazette

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

#### THE DOMINION CATTLE, SHEEP, AND SWINE BREEDERS' ASSOCIATIONS.

Annual Membership Fees .- Cattle Breeders', \$1; Sheep Breeders', \$1; Swine Breeders', \$2-BENEFITS OF MEMBERSHIP.

BENEFITS OF MEMBERSHIP.

Each member receives a free copy of each publication issued by the Association to which he belongs, during the year in which he is a member. In the case of the Swine Breeder's Association is allowed to register pigs at 500, per head; non-members are charged \$1.000 per head.

A member of the Shieep Bree lers' Association is allowed to register pigs at 500, per head; non-members are charged \$1.000.

A member of the Shieep Bree lers' Association is allowed to register pigs at 500, per head; while non-members are charged \$1.000.

The same and ad frees of each member, and the stack he has for sale, are published once a month. Ower the same and ad frees of the same and the Carlotta for the Same and t

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

#### LIVE STOCK FOR THE WEST.

A car-load of pure bred live stock will leave for Manitoba and the Northwest Territories about the First of April. There is room for a few more animals. Space can be procured by corresponding with F. W. Hodson, Parliament Buildings, Toronto, Ont.

#### Farmers' Institute Department.

Reports concerning the work of the Farmers In-stitutes in Ontario will be published weekly in Serthis-head; also papers prepared for this department by Institute workers. Secretaries and officers having amountements to make are Fartled 1 sery full par-culars to the Superintendent.

# NORTH MUSKOKA FARMERS INSTITUTE.

I have great pleasure in forwarding the enclosed revised list of members of the above institute containing 122 names; more to follow next month. I see by your report that we lead all the institutes up north here, and are bound to keep the lead if possible. It will not be my fault it we do not, as I can see we have done a lot of good already. I was talking to one of our merchants the other day, and he told me there was great improvement in ling dairy and our institute meetings. I know the farmers are ver anxious

WM. GOLDTHORPE, Secretary.

#### -400-WEST BRUCE FARMERS' INSTITUTE

Enclosed you will find supplementary lists of members taken by me at our meetings held in the different places, and also the reports of the different meetings held in our district. I have to thank you on behalf of our institute for your wise choice of the speakers you sent us: they are both first class men and thoroughly up in the subjects they speak on. For our district at the present time Mr. Gould's interest is now taken along the line of dairying, corn-growing and the silo, and how to build a cheap silo. The fruits from the meetings held by us will no doubt be great. Major Sheppard's subjects are also very interesting, and will be the means of doing amount of money we have spent will In many cases, bees perish at the tree, production of milk; such as bran, bear good fruit in the near future. in others, on their way to the hive, and chopped oats, a little linseed meal, a

True, the political agitation hurt us in some localities where many meetings were being held, but one thing I can honestly say, no person heard from us outside or inside the hall one word savoring of politics.

JOHN DOUGLASS, Secretary.

#### THE EFFECT SPRAYING HAS ON BEES.

Ry R. F. Hot TRRMANN, Brantford,

keeping and fruit growing industry through the work of cross fertilization by the honey bee is at present so well recognized that it is not necessary to more than say that anything which injures the bee prevents her from doing this important work. To spray fruit trees when not in blossom does not in-terfere with the honey bee. To spray during fruit blossom, when the latter are secreting nectar for the purpose of attracting the insect and distributing pollen when rifling it of its nectar, is very injurious to the honey bee.

The honey bee has a very highly developed nervous system, and for that butter alone since we had the travel- reason, considering its size, falls an easy prey to quantities of poison which could have no effect upon other insects of a similar size. And the quantity of poison which would be fatal to the honey bee would have to be multiplied many times to have upon larger and the precautions to be observed animals even the effect of a mild tonic, as prescribed by physicians.

The way in which the poison reaches the bee is as follows: -Attracted by the odor of the blossom she goes long distances from the hive; as she nears the flower she locates it, depending more upon her eye as the guide, and enters it, rifling it of its nectar. The nectar through the spraying mixture has a very small percentage of the poison. effect upon the honey bee varies according to the percentage of poison or

still others, lose their lives after re- few carrots, and a reasonable supply of of a true insect, namely, the egg, the such signs as are generally observed a mature insect; this food containing only a very minute percentage of the poison is much more fatal to the bee in this way many partially developed bees are destroyed.

stroyed, and so are the embryo bees, the dam and the offspring which is which should go to take the place of soon to make its appearance in the those who have served their day and outer world, and there are many congeneration, and die a natural death, ditions which may arise which imperil and in addition, to build up the colony the lives of one or both-conditions, for the honey flow. In this way it the evil effects of which may be avertwill be seen that a colony may be ed by prompt and intelligent interfertotally destroyed through spraying dur- ence on the part of man, while injuing fruit bloom, or as a result, be in dicious, rash or ignorant interference honey when the proper season arrives. possibility of successful treatment By the surplus honey season we mean even by the most skilled obstetrist. the time when the bees gather more Hence the necessity of having a careful honey than they require for their own man with some knowledge of the act use and when that which is taken to in attendance. The attendant should market is reduced; this season does The relation sip between the bee- nor arrive until later, when clover blossoms open.

> An effect of less importance to the bee-keeper, but one of greater importance to the fruit-grower, is that the bees have been decreased in numbers

#### Ontario Agricultural College. Announcements concerning the College work will e published weeklylander this head.

#### FOALING TIME.

By J. Hugo Reko, V. S., Professor of Vetermary Science.

As the season at which most mares a few hints as to the proper attention

may not be out of place.

As the period of parturition approaches, the mare should have good care, food, and attention; she should have regular, but not severe or excessive exercise, either in harness or in the paddock. Exercise under the saddle should be avoided, and especially the use of spurs, as the pain caused by their use is liable to cause premature birth by causing violent contraction of the abdominal muscles. She should subjects were exactly what was ear. This mixture is taken up by the bee the additional industrial and thornestly desired by the people. Great and enters the honey sac—not the have a roomy, well ventilated and thornestly desired by the people. I do not know if the oughly clean box stall while in the stable; mangers or boxes in which she might possibly drop her foal should depends upon the question as to not be present, and she should be whether the honey bee allows a portion plentifully supplied with good clean of the nectar to enter the true stomach straw for bedding. Her food should for its own support. It appears to me be plentiful and of the best quality much good. I must say that we have likely that in either case the bee may and of such a nature as to keep her had every encouragement, and the perish. The result, however, is this: bowels open and cause a plentiful

turning to the hive. This is not all, good hay. The water should be of The honey bee undergoes all the stages first-class quality. When she shows larvæ, the pupa, and lastly the imago, few hours before parturition (such as or perfect insect. During the larvæ a falling down of the muscles of the stage it is fed pollen and honey by the hips, the abdomen becoming much more pendulous, often the accumulation of a little wax on the points of the teats, an uneasiness, etc.), she should when in the larvæ or grub stage and be carefully watched by a careful man, who understands something about the phenomena of the act. There are The loss then is two fold, or to use a warious reasons why a mare should be well-known term, the candle is burned carefully watched. This is one of at both ends. The old bees are determined of the act. There are a warious reasons why a mare should be well-known term, the candle is burned carefully watched. This is one of at both ends. The old bees are determined to the act. so weak a condition numerically that may complicate matters, and render a it can give the bee-keeper no surplus comparatively simple case beyond the not be too anxious to interfere or render assistance, but after the labor pains have been present for some time and have acquired considerable force and duration, if progress is not being made towards delivery, he should endeavor to ascertain as carefully as possible, until unable to fully carry on the work without unduly exciting the mare, the of cross-fertilizing fruit blossoms by cause of the delay, or in other words distributing pollen. This, and not the the nature of the obstruction. This gathering of honey, is the primary may be a simple malpresentation of object of the existence of the honey- the fœtus which he will be able to rectify, but should the ease be beyond successful aid on his part he should without delay secure the services of an obstetrist, which if promptly done will usually result in preserving the life of at least the dam and frequently that of the offspring also, while if the mare has not been watched, but has been left to herself in this state for some hours it is probable complicabring forth their young is approaching, tions will have arisen that will, in many cases, have rendered successful delivery impossible. Then again, it not infrequently hap-

pens that the foal is born with the foetal membranes (the after-birth) intact, and will suffocate in a few minutes if these be not ruptured. Instinct teaches the mare to tear these open with her teeth, but in many cases, in fact in most cases, unless birth has been very easy, the mare will lie resting for a few minutes after delivery, and in the meantime the offspring perishes, while if an attendant he present he can rupture the membranes with a knife and expose the offspring to the air and thereby save its life. Many foals are lost in this way. In other cases the membranes are ruptured but the navel string not broken; in this case the attendant should tie it with a soft strong string about an inch from the abdomen and cut it off with a scraping motion of the knife about an inch below the string.
(To be Continued).

(Continued from p ge 233. Golden Fame, imp. (Feb. '97) W. D. Flatt, Ham-

Golden Fame, hmp. (Feb. 97) W. D. Flatt, Hamilton, Ontologia, Ind.

20 Invincible, imj. (Mar. '97). Green Bros., Indianologia, Ill.

Banker, imp. (Mar. '97). C. C. Norton, Corning, 10wa.

Prince Oderuc, imp. (April., '97). Geo. Johnson, 90

Bilsam, Ont.

Balsam, Ont.

91

British Prince imp. (Feb. 97). C. L. Gurlaw, 43

British Prince imp. (Feb. 97). Harrasby Bros., 410

British Flag, imp. (Feb. 97). Harrasby Bros., 440

Scotland's Fame, imp. (April. '97). Win. Wilson, 18

Brampton, Ont.

Brampton, Ont.

315

Lancer, imp. (Mar. '97). Green Bros., Indianol., 111

360 Riondyke, (April, '97) Chas. Rankin, Wyebridge,

Golden Flash, (May, '27). W. J. Biggins, Chuton, Ont 175 Lavender Archer, (June, '97). E. N. Hyatt, Eminence, Ky 200

Mina 4th, (Sept. 52). J. P. Darling, Coshockton, Ohio. Ohio.

Ohio.

Okose Montrath 5th, (Ajril, 92). W. S. Laster, 10

Middlechurch, Man
Selina 2nd, (Sept. 95). I Barron, Carberry, 200

Merry Maid, (Jun. 20). P. O'Hara, Glenboro, 10

Lindouse, Highheld (Sept. 91). John Gardhouse, Highheld.

Coral and, (Val. or 1). Win. (Phanhara Hard).

id, (Mar. 97). Wm Chambers, Hayfield,

Selina 3rd, (Nov. 96). Green Bros., Indianola,

Sening area, (NOV. 95). Green Bros., Indianolo. III.
Golden Helle and, (Dec. '96). J. F. Darling, Coshockton, Chio
Shockton, Chio
Ruby's Pearl and, (Jan. '94). John Shrigle's
Allandale, Ont.
Mina 5th, (Mar. '97). H. Cargill & Son, Cargill,
Ont.
Mina 6th, (Mar. '97). H. Cargill & Son, Cargill,
Ont.
Ont.
Ont.
Ont.
Selection of the Cargill & Son, Cargill,
130
Florence, (April, '97). H. Cargill & Son, Cargill,
86 

in face of the difficulties that happily have been since removed. It is a subject to the face of the f

society co-operates is 80, an increase of 36 during the past year.

LABBING SEASON IN ENGLAND.—Reports from England go to show that the lambing season is well along. So far it has been a most successful one. The losses of both ewes and lambs have been less than for many years. This is no doubt owing to the exceptionally dry, mild winter. Many breeders report fewer twins than is usual, but the single lambs come strong, and the result will likely be that a much better, stronger lot of lambs will be raised. Mr. J. E Casswell, Jaughton, Folkingham, reports 39 almbs from 260 Lincoln ewes, all strong and robust, several weighing from 15 to 19 lb, the day of bith. The general report is that the lambs are soon on their feet and at a day old are so strong as to have the appearance of being several days old.

A. J. WATSON of Abtton Frontview Farm. Castle.

of being several days old:

A. J. Watson of Ashton Frontview Farm, Castleders, Ont., writes: "Shorthorn at Ashton Frontiers, Ont., writes: "Shorthorn at Ashton Frontiers, Ont., writes: "Shorthorn at Ashton Frontiers, of 1989 are going ahead splendidly. I have 3 bull calves that will make show calves in any company next September. One of the show cows will weight the short by handerdweight now. I have some good young heifers that will show well next fall. Show sheep are looking as if they might be ready for the exhibition in September aright. I also have some very fine young Berkshires by Biron eadyout each of the short of

weeks old for sale now."

JAMES A. CASKEW, Madoc, Ont. has recently purchased a herd of purebred Holstein cattle from H. Sewens & Sons, Lacona, N.Y. The herd consists of a bull and eleven females. The bull, Manor De Kol's Prince is richly bred, for he comes of a rich, deep milking family. Among the females purchased are: Pittertje Hartog De Kol, a two-year old, Belle Burke Michhilde, another two-year-old, Korndyke Queen

Do you keep a DOG Send for free pamphlet on feeding, treatment, etc., and catalogue of foods, etc.

TO SPRATT'S PATENT LIE 239 E. 58th St., New York.

WHO ESALE AGENTS.—Caverbill, Hugher & Co., Montreal; J. A. Simmers, 117 King Street East, Toronto: The Eby, Blain Company, Limited, Toronto; A. M. Smith & Co., London; M. F. Eagar, Halifax, N. S.; H. N. Bate & Sona, Oltawa, Ont; Whitehead & Turner, Quebec; W. H. Gilloard & Co., Hamilton,

De Kol, De Dikkert 3rd's De Kol and Panarista Pau-ine. The balance of the herd show considerable Inka blood in their breeding. We wish Mr. Caskey good success with his new herd.

blood in their breeding. We wish Mr. Caskey good success with his new herd.

W. W. Oglivle's Imported Ayrshires.—M? Robert Hunter, manager for W. W. Oglivle, of Lacline Rapids Farm, has arrived at St., John, N.H., with his selection of imported Ayrshires. They number twenty-four females and one buil. Mr. Hunter reports a pleasunt privage, and that all Chunder and the selection of imported Ayrshires. They number twenty-four females and one buil. Mr. Hunter reports a pleasunt privage, and that all Chunder and the selection of the privage and the Chunder of Carloff. Cummock, Ayrshire. He is a first prire winner at the Highland and Agricultural Society's show has year and at other place. Many of the cows are also prirewinners, in fact it is a prize-winning herd that Mr. Hunter has brought out. Among the cows are Georgian second, of Voyholm, a first prize winner at Lanark, and also at Ayr. She was bred by Ro set Osborne. Wynholm, Lockerlis, Dumfriesshire, and White Rose second, of Lower, another first prize winner and sweepinskes at both Thornihil and Santuhars shows. She was bred by Thos. L. Hyrlop, of Sanquhar, Dumfriesshire. Purchases have also leave made from such breeders as Robt. Montgomy, Mr. Robert Wallace, Winn. James Moff et and J. Mc. The purchase of this herd has attracted good deal of attention in Scotland, and the edition of The Northin Agriculturit pronounced this selection the finest and one of the largest that ever left Scotland for foreign shores. This will be a valuable addition to the Ayrshire herds of Canada, and Mr. Oglive is to be commended for his pluck in bringing out such a good herd. The intention is to use the herd exclusively for breeding purposes, and the increase is to be sold yearly by public auction.

Hallan and Hybrids—best Queens All Bee Supplies—best quality Wax Wanted Supplies—best quality Wanted Supplies—S Fence Machine will weave your fence of any kind of wire. a ly kind of wire.
40 to 50 rods perday
Price saved in one day's
work. Hard Colled Wire
of extra quality for sale.
Agents wanted
Write for particulars

#### ...WINDMILLS...

Painted or Galvanized. පායානය



Power and Pumping.

The Canadian Steel Airmotor

McGREGOR, Banwell & Co.

Windsor, Ont.

is proving such a boon to FARMERS that we were compelled to erect a New Factory to meet the demand.

Note Our New Address. ଊଊଊଊଊଊ

STEEL TOWERS, EEL TOWERS, PUMPS, SAW TABLES
"WOODWARD" WATERING BASINS Our "TORONTO" ORINDER is the Best on the market.

-LATEST IMPROVEMENTS ANIS KO

Ont. Wind Engine & Pump Co. Limited LIBERTY ST. . TORONTO



No other make ot salt will give such satisfaction. Every package is guaranteed to the purchaser.

Address

R. & J. Ransford

CLIMTON

## Woodstock Steel Windmills



GRAPHITE BEARINGS They need no oll

WOODSTOCK WINDMOTOR CO. Limited Woodstock, Ont.

# **Credit Auction Sale**

Of Thoroughbred Holstein-Friesian Bulls, Cows and Heifers. Also Holstein, Jersey, and Durham Grades, comprising my whole herd of nearly 40 head. Also all other stock and implements at

#### SPRINGWOOD FARW

Lot 31, Con. 4, Nassagaweya, County Halton, 3 mls. south of Rockwood, G.T.K. Sale to commence at 12 o'cloca sharp. Rigs to meet trains at Rockwood

TERMS—8 months' credit on approved joint notes, 6% per annum off for cash. Positively no reserve, as place will be sold or rented.

Ingram & Heffernan, Auctioneers

Ernest L. Norrish Proprietor



Metal Ceilings are now being recognized as the most desirable covering for Private Houses, Club Rooms, Public Buildings, etc. They are very handsome in appearance, will not crack and fall off, and compare favorably in price with any good

Fully illustrated catalogues sent on request. Estimates furnished on receipt of plans.

The Pediar Metal Roofing Co. OSHAWA, ONT.

Will buy a new 100 egg Wagner Incubator complete. This offer will be good for ten days.

Farm

Wagor

Spring

in the

World

Apply at once.

" FARMING "

44-46 RICHMOND ST. W., TORONTO

#### The Gommon Sense Bolster Spring For Transforming Common Wagons into First-BEST Class Spring Vehicles.

AT L AN 15 95 CAPACITY SORO WINDSOR BOLSTER SPRING CO

... WINDSOR, ONT...

Every Spring guaranteed. Will carry light or heavy loads. Especially adapted for marketing fruit, etc. Capacity up to 7,000 lbs. Write for particulars. In ordering give width between stakes and capacity required.

Having changed the styles of our Bargains in Harps...

determined to clos out all Last Year's Styles of APOLLO HARPS AT A REDUCTION 25 Per Cent.

Harps for this year, we have

We have also a few SAMPLE HARPS which we shall sell at a sacrifice of 40 per cent Such Bargains rarely come to the lovers of High Grade Music.

AND NOW IS YOUR OPPORTUNITY TO

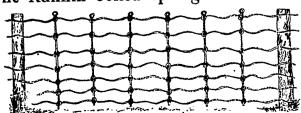
Circular Free on Application

AGENTS WANTED A. H. PUTNAM

SOLE CANADIAN AGENT CONFEDERATION LIFE BUILDING

TORONTO

The Rankin Coiled Spring Wire Fence...



Farmers wanting fences will find it to their advantage to write us for particulars of our new fence. Easily cult, no heavy tools required. Up-to-date in every particular. Agents wanted, wherenot already represented, uilt, no heavy tools required. THEE RANKIN FENOME 00., 37 St. Martin St., Montreal.

#### MARKET REVIEW AND FORECAST.

Other of LARSING.

44 and 46 Richmon Cstreet W., Toronic Marca 214, 1898.

There is a hopeful feeling to nearly every line of trade at the present time. This topefulness tering that times are getting better, but upon a feeling that times are getting better, but upon actual tiets. The volume of business times tar this year is fat ahead of what it has been for loar or five years past, and though just now husiness is a little casier, owing to its being a kind of transition period from wisher to spring operations, the outlook is very leight indeed. Agricultural products and live stock are not exception, to the role, and though is some cores prices are low the furner basigo. reason to repore at the prospect before him

#### Wheat

There has not been any very material change in the wheatst and this material as we keep as ue. The hash prices for May wheat a string stell continuous tool of the there revelops the more is seen than the e high values are entirely due to the specular of element. What he carcome walle is exper-haps hard to say, to the lower excepts we come later to. I thus are the or mad-terish prices of even higher to hely to now. Lever has got control of enumerous quantities of wheat and is trying to ruse rices, while those whom he has outwired to prices, while those whom he has outwired to the great wheat deal are trying to load him-up still higher with the hope that he may be crushed. Chairing when the break comes. Meanwhile the world's supply of with a sight continues to increase, it has fow it 205,000, as against 63,440,000 as year against a denert of \$3,000,000 hast fall. In the face of this times are not likes a contain against a defect of \$3,000,000 and tall. In the face of this prices are time takes a go any higher unless some unforcement event takes place such as a war between Ingloid at Icosca. It sides, reports indicate had the wheat is likely to come through how near

The local markets here show an easier feeing. The expert dominot has follow if a set there was hade or no buying during the week for this trade. It if you the work the Toron of market was steady at \$5 to \$5\frac{1}{2}\$, for red win ter mouth and south. As the work advanced, prices receiled to \$2\frac{1}{2}\$. Manifolds rependently at \$1 to for \$\sigma \text{i}\$ that I at North Bay, and \$1.00 Owen Sound and Modand. Modal real rejerts show a tecline the constant Mannoba wheat

#### Barley and Oats

The larley tracker is quiet. There is very hitle demand for malting purposes. Leeding harles is bringing about 400. Malting fairles is quoted at from 35 (53) at M. nireal Socks of ours in the wareforuses are ac-

comulating very fast. It is estimated has there are about 1 (200,000) in visite at jet sent. This rapid accumulation of stocks has find a depressing effect from a creek which are lower. I are, in the week which were quoted at firm 20½ to give north and west, later they were quoted at 2. Sales have been made at Montreal in car lots as from 334 to 34c, and at 352 for export

#### Peas and Corn

Peas are reported s'endy at from 300 to 570 to 6th and west. Morreal market is re-ported steady at alsout 670, for May and alsout 643c. in steire

Compresents to the fortentar selion, but there is very incie offering. Car had her. American, are justed at from in-to 400, our of store

### Buckwheat and Rye

Hucks reat is reported steally at 174 cast and 166, west to Minister to have been soil ing in carboad lots at 410 % a 440.

See is reported table to 5 % a 4th or 6 week

which is a cent lower than a the begin one of the week. V. M intreal there has been a right of a cents, prices ranging from the contract of the for May afficer

#### Br n and Shorts

Trices for mild of contract of the state of \$13.5 for all the A. Sting of the GRANG West These figures are lower than they were earlier in the week. Montreal prices are firm a about \$15 in car only, and shorts at from \$16.

#### Timothy and Clover Seed

The Minircai market is steady under a fair to \$4. Alsike is quoted at \$3.50.10 \$4.25, and and the summer of the second at \$3.50.10 \$4.25, and the summer of let

Potatoes are stilly. Cars on the track at Loron is are quoted at track is to be Pota is suited soon are setting of from 6s 1000 per log. A. Monreed the receipts ne fair and othern governors using, car loss of the state of the second state of the second setting. selling at trem 600 to 62

#### Poultry

The receipt are reported small, though a lemmal is only fair. The market is reported to by at from 1 and 1 a

New test organization on one y leastful, and receipts are more liberal. There's have on our or testimal and base enough thom 12 and 2. At Montreal prices are also ensure.

#### Cheese

The cheese market is quest, with very little unjust extensive teas and solicies travellar quarters and solicies travellar quarters and orders stravellar quarters and extensive transmister their tests the respective theory theory thought of the condition of the neighborhood of the condition will not sell less than S. Some usiness has been time at Montreal of the Tollow with a Montreal of the travellar of the condition of a week above with maken the condition. with a week ago, which makes the experi-since the close of mangarism about groves boxes. There is to be a tog auction of cheese I les wick, who to we have con did rathe effect in estimating the prospects for

#### Butter.

The market continues urin for fine, fresh reaming. There appears to be a scaredy of medium from or cripial new, but as nearly all be made is now being made into limiter there will not likely be a scarcity very long. Prices for this or affers range from 21s, to 22 fpc, it Montread. At Loronto et brings 22c. in prints and done, and tube.

There is also a good demand for tresh outy kniet gartes. Eastern Lunstage is the or the to be At Directly gives in 48. For dairy and 150, for medium tulis. There is no mercuse to 25 dry observed grade outer which is from 420, to 10, lower.

A week or two agos not of dairy furter was dusper from Expland to Munited, and part to his been soid at 150 and 160, showing he owner a small joinh after paying two heights to Inglan 1 and back. I was list lune make.

The est le marke a lotter as ery scady although receipts are quite large. The demand rom the United States for spokers and fee i reas good, and will in all probability con-

resis good, and will in all probability con-tinues of taring the season.

7. 8. 6.7. The morket in Lighted s-full, but prices in Canada are likely to con-mine good. Sook in Monton and the Northwest was be largely wanted for the kloudike and British Colorina munica-nities. In fact, steers have been sold in Marcha, weighted in their own statements que a journd use weight, for the Kuthinke or ince buying export catch, intending to ship them in band through the United States Ingian! They are offering a higher piece for them than Canadian buyers can afford to pay. It has had the effect of making tarners held their earther, but such a demand from a likely to continue. It is also recovered that during the torst here as to say head of caule and 25,000 head of ter, whitesh jet trantare starrs of which will emerical rights with the transition stock on the fathsh markets. The rat ing faires for good expensioners are go to

But by The made of the account of the property of the property

Tuffa of right of weeks as ery many of a constant of the const chare burging Steadure to the the the transport Hands for terting to was \$3.33 \$3.65 per ent

ire ro, wanted. Milch cows and springers sing from \$25 " \$45 to b are to wanted.

#### Sheep.

Butchers and export sheep continue steady at from 34cc to 34cc. Lamins are quiet at

\$5 to \$5.40 per cwt. Bucks bring 234c, to 35 per pound

As stated in our lost report, the hog market tast week ruled at \$4000 for choice selections of suggers, light high, \$40-19, thick fathings \$4500 sows, \$500 \$525 for ext. This is a drop of nearly 1800.

I see in the H sea exit. We are in receipt 1 a to and y dome for the year (Sugart is a bin bome volume, and somewhat larger than those of other years. It is also greatly improved, contains a large random or the both than the sea of the pears. on it in the characteristic in the control of the c transtine to true along with perfect descriptions of old, well recognized securities, make a most valuable feature to the paper de can heartly commend it to all frui

All the Garden and Flower Seeds you need this year may be readily obtained by sen-ing us one or two new yearly subscribers. See our Premium Lists

# Vegetables

can be raised at a profit, and the yield enlarged, if properly fertilized. Most fertilizers do not contain enough

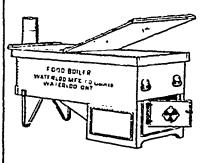
# Potash.

Vegetables need plenty of potash - at least 10% - besides the phosphoric acid and nitro-

Write for our books which tell all about fertilizers. They are free.

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

# The Waterloo Food Boiler



Used chiefly by Farmers, Stock Feeders, and Butchers for Cooking Feed for. Stock and Poultry, for Boiling Sap. Hogs, etc., etc.

You save fifty per cent, of the feed, and produce double the growth and fat, when feeding boiled feed her, ted dry and raw

The Waterloo Food Hollor is the simplest cheapest, most convenient, and most economical

Price \$25, Delivered at Your Station.

# WATERLOO MANUFACTURING CO.

Waterloo, - Ontario.

# JINDSOR SALT....

Absolutely the Purest and Best for

## BUTTER AND CHEESE

Admitted by Experts to the without a Peer for Purity and Excellence

The WINDSOR SALT CO., LIMITED WINDSOR. ONT.

### Our Abundance Plum



at other Irees, Plants ia s, et l, are relial le anii up to date from better Soud forpited ataugue of of a wing value am, first to tust the times the la effect to

reed I tatues. Three new Kambiel Roses, crimson of the and white to be a first a mail for \$1. No Agents employed

A G HULL & SON, Central Natsery,

51 Catharines, Ont

THE ELECTRIC WASHER The Leading Machine Excels all Others



Made from the wast of material and guaranteed not to leak. N B - Agents wanted. Territory for sale.

BEMMENS & SON, 174 York St., HAMILTON

# .. Now Metal Roofing.. THE DAISY GRAIN! GRINDER THE DAISY BARREL CHURN



Patent Safe Lock Shingle



Cut showing Top and Bottom Lock



Cut showing Side Lock

BRANTFORD

Steel

Wind Mills

Galvanized Steel

Towers and Wheels

The Best in America

Ideal Spray Pumps, Iron unips, Water Tanks, Piping

etc.
The Ideal Solid Power
Mill, with Roller and Ball
Bearings, is a wonder.

Our Patent Safe Lock Shingles are so constructed that they lock or fasten on all four sides, making perfect joints, absolutely proof against the weather

Buildings covered with our roofing look pretty, are fire and lightning proof, and will last a lifetima.

> Samples and Prices seut free upon application

Metal Shingle and Siding Company

PRESTON, ONTARIO



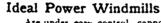
The Celebrated

#### "Manle Leaf" Grinder

Made in 2 sizes: No. 2 Senior, with to-inch re-versible burrs, and No. 2 Junior, with 8-inch single

Junior, with o man burrs.
Fine and coarse burrs.
Ball Bearings for Plate
Rehef Springs.
For any power or any

rk. Always guaranteed.



Are under easy control, cannot break loose and run away in a storm. Are strongly built and durable. Have the heaviest gear and will safely give the most power in high winds. Are the most satisfactory farm power. Cheapest, easiest to operate, and most effect-



BRANTFORD CAN.

end for Circulars and mention FARMING

## BALL BRARING ONTARIO VETERINARY COLLEGE, Limited.

PATENT ROLLER BEARING

mperance St., Toronto, Can. Temperance St., Teronzo, umn.

Affiliated with the University of Toronto.
Patrons: Governor-General of Canada and Lieutonant-Governor of Onzario. The most successful Veterinary Institution in America. Experienced Tachers. Classat begin on Wednesday, Oct. 13th.

1897. Feez, 365 per session.

PRINCIPAL, PROF. SMITH, F.R.C.V.S.,
TORDETO. CANADA.

#### ... BOYS FOR FARM HELP.

The managers of Dr. Barnardo's Home invite applica-tions from farmers throughout the country for the boy-they are sending out periodically from the English

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

# You get The Best Thoughts Of Clever Men

# The Globe

The Daily Globe wil sent to any address in Can-ada or U. S. for three months for SLOD

An eminent British scientist raid, after reading the editorials and editorial comments in The Globe for several weeks while visiting in this country, that they were unsaterpieces of English diction, and for scope of theme and subjects discussed were equal to the best papers at house. In fact, be said, in many respects The Globe excelled any of the British papers as a NEWS paper.

The variety of subjects, the completeness of its news gathering organization, its fuedom from sensetionslies, and its fair and impartial

\*\*\*\*\*\*\*\*\*\*

Ask your Local Newsleader or Postmanner THE GLOBE, Teronto



Suitable for all purposes. Made in four sires, using 5 inch, and to and 12 inch reversible plates. Fitted with ball bearings and relief springs. By a simple lever attachined the plates may be instantly separated and brought together again while in motion. Elevator and bagger added when desired.



Stronger, Lighter and More Convenient than ever, and has Roller Bearings

The 1832 "DAISA" is far in advance of any other Churn in the market. Fitted with improved Gas Vent if require! The Gas Vent is not necessary, but you can have it if you want it

SOLD BY DEALERS EVERYWHERE Manufactured only by

THE WORTMAN & WARD MFG. CO, Limited, LONDON, ONTARIO.

Write for Descriptive Circular and Implement Cutalogue before purchasing any other

# The Vessot Improved Grain Grinder

Our Little Champion Grinder

run by horse power, especially for farmers use.

#### Our Large-Sized Grinders

for mills, grand twenty to sixty bushess per hour as fine as desired Atways Guaranteed.

Elevator and bagger added when desired. A sleve or screen protects the plates from sticks and wones. Price List unchanged Last year's mills sold at a great reduction. We also formuch an improved Corn and Cob Crusher Send for circular. Information cheerfully given.

#### S. VESSOT & CO.

Sale Manufacturers

JOLIETTE, P.Q., CANADA.

The Vesset Sub-Soil Lance Plow is the best.

# ULRICH'S ENSILAGE

This Colebrated Corn is Sold all over Canada.

Giant Prolific,

Mammoth White, Red Cob

Yellow Dent.

Improved Learning.

Ask your dealer to procure SEED for you and you will be well pleased with results. No fancy prices. Write for Free Samples and Book of Testimonials.

> E R. ULRICH & SONS. Springfield, Illinois.

# 2,000 Seed Corn. Gream Separators

This is the size of one single order given for

# MELOTTE HAND SEPARATORS

Do not buy without writing about the Melotte points.

Easiest Driving
Highest Capacity
High-Class Construction

CAPACITIES, 330 to 850 lbs. PRICES, - - \$100 to \$185.

R. A. LISTER & CO., Limited,

Dairy Machinery Supplies, 18 ST. MAURICE ST., MONTREAL,

in these hard times is there such a great demand for this All Steel Flexible Har-

# Because



Parties wishing a first-class Harrow will do well to write us direct, or apply to the local agent.

The fleribility of the Harrow enables it t adapt itself as readily to rough and unlever ground as to smooth, and the oscillating motion produced by its fleribility pulverness 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 teath 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 mere than double the strength and wear in this Harrow than there is in any other make.

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

TOLTON BROS., GUELPH, ONT.

# 

The Farmer supplies the world with food

## and the Massey-Harris **Implements**



cultivate t he ground und reap the crops.



superiority muchines is neknowledged 111 1111 parts of # leas universe,



MASSEY-HARRIS CO., Limited TORONTO, CANADA

## STATEMENT showing progressive consumption of... THOMAS - PHOSPHATE POWDER THE T

1883	ons
184300	44
1885	**
1886 12,000	44
1887	**
1888 130,000	**
1889 240,000	**
1890 400,000	• •
1891	**
1892 530,000	44
1893	44
1894	••
1895 920,000	4.
1896 1,370,880	**
1897	44

## WALLACE & FRASER

ST. JOHN, N.B.

Canadian Agents for ALBERTS' THOMAS-PHOSPHATE POWDER (Registered.)

Now is the time to decide what you are going to plant, and where you are going to get them.

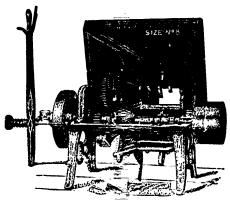
A. M. SMITH tion Nurseries, St. Catharines, Ont.

Having an unwally large stock of trees, sines, bushes and plants, both fruit and ornamental, of our own growing, we are compelled to extend our trade, which lash buberto been, birdly confined to the Niagara District. Having no agents, we have no fancy prices to protect, and so offer at very low rates to be in touch with the times. Price list free on application.

Dealest and Jobbers' orders packed with care and uispatched chean ritan elsewhere. Stock guaranteed free from Son Jose Scale. Let us price your wants. We guarantee sativaction. All Canadian grown stock.

Winona Nursery Co., Winona, Ont. J. W. SMITH, Mgr.

# CORN COBS AND GRAIN



OUR GRINDER first crushes the cob and then grinds it. The Hopper is so arranged that small grain and two mechines to dry our grinding when you can give on machine which will do all kinds of grinding, and do it better than any other machine on the market. We manufasture also TREAD POWERS, THRESHERS, HAY PRESSES, FEED CUTTERS, CIRCULAR SAW MACHINES, etc.

MATTHEW MOODY & SONS, TERREBONNE

Cheap Railway Laudsfor Sale on Easy Terms

**GOOD SOIL** 

**PURE WATER** 

**AMPLE FUEL** 

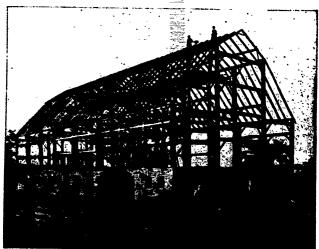
THE construction of the Calgary and Edmonton Railway, and the Qu'Appelle, Long Lake, and Saskatchewan Railway, has opened up for settlement-two new districts of magnificent farming land, vir., that between the North and South Saskatchewan Rivers, and that between Calgary and Red Deer. Full information concerning these districts, maps, pamphlets, etc., free. Apply to

OSLER, HAMMOND & NANTON, Land Office, 381 Main St., WINNIPEG.

Calgary and Edmonton Ry., Qu'Appelle, Long Lake and Saskatchewan Railway Company.

High in Quality Low in Price

The Leading Cement for Building Bank Barns, Cement Floors in Stables, Silos, Culverts, Pig Pens, etc.



Mammoth Barn of Beswetherick Bros., near Hagarsville, Ont. horses and cattle were put in this barn with BATTLE'S THOROLD CEMENT.

Has been tosted in every capacity. Root perfect Cement made.

For fall pericolary address. ESTATE OF JOHN BATTLE.

THOROLD, ONTARIO.

