Technical and Bibliographic Notes / Notes techniques et bibliographiques

L'Institut a microfilmé le meilleur exemplaire qu'il

lui a été possible de se procurer. Les détails de cet

The Institute has attempted to obtain the best original

copy available for filming. Features of this copy which

of the i	by be bibliographically unique, which may alter any the images in the reproduction, or which may nificantly change the usual method of filming, are ecked below.					exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.									
1 / 1	Coloured covers Couverture de c									red pages, de couleu					
1 1	Covers damaged Couverture end								_	damaged/ andomma					
1 1	Covers restored Couverture rest	- •	•					1	•			aminated/ pelliculées			
1 1	Cover title miss .e titre de couv	-	ue					. /	_			ned or fox tées ou pi			
1 1	Coloured maps, Cartes géograph		ileur						•	detached/ détachées					
1 1	Coloured ink (i incre de couleu				•)					hrough/ parence					
	Coloured plates Planches et/ou i									y of print é inégale (
1.//	Bound with oth Relié avec d'aut		nts					\boldsymbol{V}		uous pag tion cont		/			
V a L	light binding m long interior m a reliure serré listorsion le lor	nargin/ e peut causer	de l'ombr	e ou de) لـــ	Compr Title o	es index(orend un (orend un (orende))	des) ind taken f	rom:/			
b II Id n	Blank leaves add vithin the text. been omitted from I se peut que co cors d'une restal mais, lorsque co cos été filmées.	Whenever pom filming/ ertaines page uration appa ela était poss	possible, the s blanches raissent da	ese have ajoutée ens le tex	es cte,];];	Fitle p Page de Captio	e de l'en- age of iss e titre de n of issue le départ	ue/ la livrai	ison			
								l l	Ma sthe Généri		odiques	s) de la liv	raison		
	Additional com Commentaires :	supplémenta													
Ce doc	em is filmed at ument est film	é au taux de		indiqué		5.									
10X		14X		18X			22X			26	×		30×	/	
Ш	12X		16X		20 X				24×			28X			32×

INVINCIBLE WASHER



The Greatest H usehold 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.

HACKNEY-TROTTER CROSS.

Most profitable for the farmer to raise. Lowest percentage of misfits; earliest maturity and least expended to fifty market.
Four fashionably bard Stallions, rising 3 and 4 years, 1,100 to 1.25 lbc, solid colors, high and level actors. Must be sold to make room for young stock and, harners horses. Prices reasonable. For pedigrees and particulars, address.

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

SELECT SEEDS

WILLIAM EWING & CO.'S

Illustrated Priced Catalogue of Farm, Vegetable and Flower

Seeds is now ready and will be mailed free on application.

142 McGill Street - - MONTREAL

Horse Owners! Use



A Safe Speidy and Pasitive Care The Safe's, Beat EliSTIF ever used. Takes no nike of all himments for mile or severe action, conversal shanches or likemishes from Harrer and Castie. SUPERSEDES A.L. CAUTERY M. FIRING. Impossible to produce star or blemish. Every bottle sold is warranted to give satisfaction rices \$1.50 per bottle. Sold by durgists, or each by express, charges paid, with full directions or its use. Send for descriptive circulars.



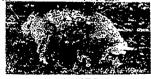
ALEX. HUME, BURNBRAE, ONT.

...LEADING TOPICS FOR THE WEEK...

Do not Make Cheese till May 1st. The Dairy Test at the Branttord Show. Co-operative Pork Packing. Hard Times. The Poultry Industry of Canada. Health on the Farm. The World's Wheat Supply Increasing. Sugar Bounties. Amalgamate Local Shows. The Hotbed. Harness Bruises. Eastern Cheese and Butter-Makers Meet. Maple Syrup. Market R. view and Forecast

ISALEIGH GRANGE STOCK FARM.

Ayrshire and Guernsey Cattle-Improved Yorkshire Swine. Shropshire Sheep. Our Ayrshire herd is headed the noted bull, Matchless 7560, sire, Glencairn III., imp. 55; dam, Nellie Osborne, imp. 5358.



J. N. GREENSHIELDS, Proprietor



Our Special Offering
consists of six choice young Ayrshire bulls and
few heifers; two extra Guerney bull calves, an
a choice lot of sheep and pigs. All at very lofigures for immediate sale.

T. D. McCallum, Manager. Danville, Que.

Absolutely the Purest and Best for

BUTTER AND CHEESE

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

The WINDSOR SALT CO., LIMITED

TO USE-Eastlake... ${f S}$ teel Shingles

fleans to be certain of a tight,



Shows one Shingle.
They are Fire, Lightning and Rust Proof—will never admit the slightest leak,
and last indefinitely.

It will pay you best to use these standard goods that have never yet failed, instead of taking chances.

If you write, we'll send you full informat on.

METALLIC ROOFING CO.
(LIMITED)
1192 KING ST. WEST, - TORONTO

SLONG.

ENGLISH BERKSHIRES

BACON TYPE.

Over One Hundred Young Animals

For Sale at Moderate Prices.

THREE JERSEY BULLS

The Bow Park Co., Limited

BRANIFORD, ONT.

Boilers!

Boilers!

Boilers!

Engines!

Engines!

Engines!

ALL STYLES AND SIZES.

Prices are right So are our goods

LANCASTER MACHINE WORKS

Box 113, LANCASTER, ONT.



Sheep and **Cattle Labels**

New Patent Fanning lill and Bagger, Bag ruck and Bag Holder. Price List and Circular Free. R. W. James, Farm Implement For-warding Agent, Bow-manville, Ont.



OLENTANGY INCUBATOR.
This Machine will hatch every fernile
egg, so thousands testify. I'll she beet
Self-Regulating machine made.
Brooders \$8.00. Catalegue free.
Address, GEO. S. SINGER. Cardiarte of

The state of the s PUBLISHED WEEKLY-BY THE BRYANT PRESS-TORONTO-CANDAL

English Advertisements.

Henry Dudding

Riby Grove, Great Grimsby,

Lincolnshire, England

Has always for inspection, and sale, the largest flock of pure Lincoln Longwool Sheep in the county, in cluding many prize winners, having taken prizes for many years at the Royal and other shows tor both Rams and Ewes, including champion medals at both the Paris Exhibitions, Vienna Amsterdam, Canada, Australia, New Zealand, and all the leading prizes at the Chicago Exposition, also the first for the best collection of Lincoln fleeces of wool at the Royal Windsor Show and the Lincolnshipe Show, which proves the character of this flock. The sheep are famous for their great size and one hundred and wently five years good breeding. At Lancoln Ram Sale, 1896, this block's consignment not only made the highest individual average of any consignor, but also made an average of receding that made by any other breed in England, i.e., \$511 per head the first six making an average of \$\$40. The sheep for sale this year are all sized by noted rams, and are fully equal to their predocessors in every way.

Rall Stations: Skailing boro, 3 miles distans,

Rail Stations: Statingboro, 3 miles distam, and Great Grimsby 7 miles. Telegrams: "Dudding, Keelby, England."

S. E. Dean & Sons Dowsby Hall, Folkingham.

Lincolnshire, England

Lincolnshire, England
Have always for Inspection and Sale fine specimensfrom their FLOCK of PURE LINCOLN SHEEP
(No. 47 in Lincoln Flock Book), including SHEARLING EWES and RAMS, also RAM and EWE
LAMBS. Sheep from this flock have been exported to
nearly all parts of the world, where their great substance
and large fleeces of beautiful quality wool give the
greatest satisfaction to purchasers. Early in 1894,
about twenty Rams from this flock were sold by public auction in Bueno Ayres, and realized the higher
lic auction in Bueno Ayres, and realized the higher
average ever obtained for Ram Hoggs exported from
England. The flock is most carefully bred, and none
but the very best sires used. Mesors. Dean also send
out selections from their flock to purchasers who are
tunable to ome to Figland to inspect them, and they
have given great satisfaction. Mesors. Dean have also
for sale purebred Bates. SHORTHORNS.

Doweby Hall is one mile from Rippingale Station,
on the Great Northern Railway, Bourne and Sleaford
Branch.

ISLEGRAMS: DEAN, RIPPINGALE.

D. J. Millington

Sampringham House Folkingham, Lincolnshire, England

Has for sale pure bred registered Lancoln Rams, Ewes and Ram Lambs and She Lambs. Flock established over 100 years. The Kams this year are principally sired by the 200 guinea ram Sempringham, 3145, Ashly Rover, 1291. This sheep gained first prize at the Yorkshire Show in 1895, and last year clipped tilbs, of wool. J Sempringham Pointon A, 2241, Laughton Chief, 1427 (bired for a high figure), and Sempringham Dudding, 2260, hall brother to the Royal Prize Bhearling at Darlington.

Registered Flock No. s6.

Telegrams and Railway Station

BILLINGBORO, G.N.R., 1 Mile

E. Casswell

Laughton, Folkingham. Lincolnshire, Eng.
This well-known flock has been established more than 100 years, and the pedigreed Lincoln long-woolled rams and ewes have been noted throughout the Colonnes and South America for their "size, symmetry, and fustrous wool" Ewes from this flock have always passed for a father to son, and have never been offered for sale. Mr. J. E. Casswell, of Laughton, was the first breeder in the county to let his rams by public auction. At Lincoln Ram Fair, 1295 and 1897, Mr. J. E. Casswell made the highest average for 20 rams. The rams of 1856 were all sold privately for export. During the last two years the following amongst other noted tires have been used: Bakewell Councillor and Baron Rigby, for each of bakewell Councillor and Baron Rigby, for each of which very high prices have been retuned; Laughton Major, Laughton Style, Laughton Choice, No 5; Ashby George, 60 guineas; Judge, 95 guineas, his son, Laughton Justice Lincoln, 200 guineas; Lincoln, 158 guineas; Welcott, 70 guineas; Lincoln, 75 guineas; Welcott, 70 guineas; Lincoln, 25 guineas; Melcott, 70 guineas; Lincoln, 25 guineas; Melcott and Dorking fowls are also bred. In spection and correspondence invited N B.—Laughton Choice won and at the Royal and a pen of 5 theaves by him won 1st at Royal Doncauter. Visitors met by sappointment. Telegrams: Casswell, Folkingham, England.

HAMPSHIRE DOWN SHEEP

Great English Pedigree Sales

JULY, AUBÙST and SEPTEMBER, 1898

Waters & Rawlence, Salisbury, England

Wil.L sell by auction during the season appeards of 50,000 Purebred EWES, LAMES and EAM, including both Rams and Ewes from the best Registered Prize Winning Flocks in the country. Commissions carefully executed Address

WATERS & RAWLENCE,

Salisbury, England

Lincoln Longwool Sheep Breeders' Association.

Lincoln Ram Sales, '98

The Seventh Annual Sale of Lincoln Longwood Rams will be held in LINCOLN, on

FRIDAY, SEPT. 2ND, '98

STEPHEN UPTON.

St. Benedict's Square, I meeln, 4th February, 1808

W. W. Chapman

Pedigree Live Stock Agent and Exporter

Secretary to the National Sheep Breeders' Associa tion of England and the Southdown Sheep Breeders Association , Hon Secretary Kent Sheep Breeders Association.

All kinds of Registered Stock, Horses, Cattle Sheep, and Pigs supplied on Commission

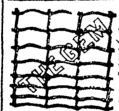
References-John Jackson & Son, Abingdon, Ont N. CLAYTON, Belsey, Chichester, Eng.

Offices: Fitzalan House, Arundel St., Strand. London, England

Registered address for cables-" Sheepcote London.



THE 8. H. GRIMM MFG. CO., HUDSON, Obio, & MONTREAL, Que



Fence Machine will weave your fence of by kind of wire.

40 to 50 rods perday Price saved in one day's work. Hard Coiled Wire of extra quality for sale Agents wanted Write for particulars

McGREGOR, BANWELL & CO.

Windsor, Ont.

CAMPBELL'S BANNER..



...WINDMILL ...

Painted or Galvanized. 'SISISISISS



The Canadian Steel Airmotor

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

Note Our New Address. rer and Pumping. නැහැනැහැන

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

-LATEST IMPROVEMENTS

WASH.

Out. "nd Engine & Pump Ce. Limited An Ad. in "Farming" Pays LIBERTY ST. - TORONTO

MAPLE CLIFF STOCK AND DAIRY FARM

Ayrebiro Cattle. Berkshire and Tamworth Pigs.

FOR SALE. Two young bulls fit for service, and five bull calves (calved in February).

One mile from Ottawa.) R. REID & CO., Hintonburg, Out

PAREHILL BERKSHIRE HERD and POULTRY YARDS

Lam prepared to look orders for pigs and can ship at any time. Prices right.

POULTRY- W. and B. P. Rocks, W. and S. L. Wyandstres, W. Illa k. and Brown Leghorns, W. and B. Minora, S. Back Hamburgs, S. G. Dorkings, W. C. B. Polands, L. Brahmas, St. per 17 ergs, Rouen and Pekin duck eggs, Sr per 17 ergs, as cents each. Sr per 9. Foulouse geese eggs, 40 cents cach.

Th. A. GRAHAM, Parkhill, One.

D A GRAHAM, Parkhill, Out

"The Spramotor



It has received the High also received the First P Contest at Grimsby

CERTIFICATE OF OFFICIAL AWARD:

This is to certify that at the contest of Spraying Apparatus, held at Grimsby on April 2nd and 3rd, 1896, under the auspices of the Board of Control of the Fruit Experimental Stations of Ontario, in which there were eleven contestants, the Spramotor, made by the Spramotor Co., of London, Ont., was awarded First Place.

HATCH Chlokens EXCELSION Security

FOR SALE AT

BARGAIN

ुर्जार एक्ष्रपुष्ट का 🖁 📑

One pair of Andalusians.
One pair of Partridge Cochins.
One pair of Black Hamburgs.
One pair of Brown Leghorns.
One your Stock in the above varieties.

Bowmanville, Ont W. R KNIGHT.

INCUBATORS Our Machines are the best manufactured in Canada, both hot water and hot air. Surest, simplest, and best system of regulating. Every machine warranted. Prices \$10 up. Barred Plymouth Rocks, and Pekin Placks only \$1.50 per vetting Stock unsurpassed.

J. E. MEYER, Box M. Kossuth,Out.

FOR SALE

Will sell my breeding stock which includes my imported birds of Golden and Silver Wyandottes. Winners at the Canadian and U.S.A. shows. Golden and Silver Wyandottes eggs, \$1 per 13. Headed by Cock from Sharp Butterfield.

JAMES LENTON, ParkFarm, OSHAWA

Prize winning white Leghorns S.C. and R.C. Eggs \$1 per 13. Satisfaction guaranteed.

A. F. DIMMA, CEDAR GROVE, Ont.

AQUEDUCT POULTRY YARDS

Black Langthans and White Leghorns, Choice stock, Eggs delivered after March 1st. Young stock delivered now.

John F. Hill. .

Welland, Ont

H. L. HUTT, M. PETTIT, Judges
Catalogue and Price List on application.

Agents wanted.

SPRAMOTOR CO
Mention FARMING. S57 Richmond St., LONDON

Mention FARMING. S57 Richmond St., LONDON

FOR SALE

BARRED Plymouth Rock Hens: also a few Silver Wyandotte and S. C. White Legborn Cockerels, Prices to suit the farmers. Eggs from B.P. Rocks and Silver Wyandottes, 51 per 13. Pekin Ducks, 51 per 11. W. R. GRAHAM, Bayride Poultry

WHITE AND BLACK MINORCAS AND BARRED PLYMOUTH ROCKS

HAVE shipped birds and eggs to South Africa. England, Ireland, France, and all parts of the United States and Canada, where they have always won for my customers. The bulk of the Minorcas which won at the great Toronto Poultry Show were heed by me. At Toronto Industrial, 1897. I won for the fourth successive year, with my Minorcas, the Association Medial for best collection in Mediterranean class; and in Barred Plymouth Rocks, 2nd Cock, 2nd Hen, and its iand Special Jubilee Medal for the hest cockerel in the American class. Send your order for Eggs at \$8.00 per setting; two settings, \$5 00. I can also spare, if taken at once, say Barred Rock cockerels at \$2.00 each.

THOMAS A. DUFF,

43 Brooke Avenue, TORONTO, Ont.

WE CAN PLACE A FEW MORE GOOD AGENTS

SPECIAL NOTICE

EVERY HARP GUARANTEED CIRCULAR PREE.



A. H. PUTNAM

Heretofore only two of our Harps could be made to produce ALL CHORDS IN ALL KEYS; after this date every

APOLLO HARP

(except 4 and 5) will do so. Every chord you can get on a piano you can get on these harps, and absolutely no discord. Play it in Ose Week.

Price, from \$4.00 to \$30.00

SOLE CANADIAN AGENT CONFEDERATION LIPE BUILDING

TORONTO

PATERILE REVERSIBLE CARS, FORK AND SLINGS



Have now become a Standard of Excellence with the Farmers of Car United States. At the World's Fair, Chicago, 1993, the only Medal and Diplome given on Hay Carriers, Forks and Slings was award Following is a copy of the Judge's award:

AWARD: "For open tip hook to receive the sling; automatic clutch, adjustable for size of road desired; ingenious design of stop blocks, which enables perfect control of carriage; no springs required for locking car, which has motion in all directions; compact form of fork, which can be tripped in any position; the cer is reversible and of double makes; for novelty, ingenity and assembnes. Excellence of material and construction.

AF SPECIAL DISCOUNT FOR CASH.

JAMES W. PROVAN, Oshawa, Out., Can.

CORRESPONDENCE SQUACTED

FARMING

AN ILLUSTRATED WERKLY JOURNAL DEVOTED TO PARMING AND THE PARMER'S INTERESTS

Published every Tuesday by

THE BRYANT PRESS,

44-46 RICHMOND STRUET WRST - . .

Subscriptions in Canada and the United States, \$1.00 per year, in advance; six months so 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, because to give the old address as well as the new.

Address, be 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

Our Clubbing List.

	Regular price.	With Farming.
Canadian Magazine	\$2 50	\$2.50
Toronto Weekly Clobe	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
Toronto Morning World	300	3.00
Montreal Weekly Witness	1 00	1.60
Family Herald and Weekly Star	1.00	1.75
London Weekly Free Press	1 00	1.75
London Weekly Advertiser	1 00	1 40
Ottawa Semi-Weekly Free Press	1 00	1 60
Hoard's Dairyman	1 00	1 75
Rural New Yorker	1 00	1 85

Do Not Make any Cheese Till May 1st.

At a meeting of the Board of Directors of the Butter and Cheese Association of Eastern Ontario, held in Kingston last week, the following recommendation was made regarding the make of cheese for 1808

"That in view of the fact that a large quantity of cheese of the manufacture of the year 1897 is still in the hands of the dealers and unconsumed, be it therefore resolved, that in the opinion of this board, it will be in the best interests of the dairymen of this Province that no cheese be manufactured before the first day of May, nor after the last day of October during the present year.

The recommendation of this important organization should be adopted by all the dairymen in the Province, and for that matter, in Canada. If the cheese market is to be relieved of the large stock of last year's goods on hand some definite action of this kind on the part of our dairymen is necess ary. We cannot hope to go on increasing the make of cheese each year and expect that it will always command a high price. Many of those who understand the trade best believe that we have already reached the maximum in regard to the quantity of cheese we are exporting to England. True, the consumption of Canadian choese in England is increasing every year, still there is a limit to the capacity of the British consumer in this particular, and we must repeat what we point ed out in last week's issue, that if all the factories would agree not to open till at least May 1st and to close each year at the end of October, the very best interests of our cheese export trade would be served. It would seem to be the height of folly for our dairymen to go on loading up the market at the present time with a lot of early made cheese, especially when such early made fodder stuff is inferior in quality to the later makes. Even if the supply of early fodder goods is not large it always has a depressing effect upon the market, especially when it is

in the over-loaded state it is in at the present time.

As we pointed out last week it will pay the dairyman better to make butter during the early spring and late fall. The prospects for butter just now are good. Fine, fresh creamery butter meets a ready sale at remunerative prices and it will be much more profitable to make butter during the early part of the season and have the skim-milk returned for raising the calves. This whole question is of vital importance just now, and factorymen should arrange for meetings of their patrons at once and decide not to make any cheese till the cows are on the grass.

The Dairy Test at the Brantford Show Criticised and Defended.

At the special request of one of our patrons we publish the correspondence which appeared in The Holstein Friesian Register recently, relating to the conduct of the dairy test at the Provincial Fat Stock and Dairy Show at Brantford last December. As Mr. Clenions points out, it would have been better if the criticisms regarding the test had been made in some Canadian paper in order that those directly interested might be able, if need be, to defend themselves.

"I believe I owe it to Holstein breeders to give an explan-"I believe I owe it to Holstein breeders, o give an explanation of the record of the Jersey cow herein mentioned, Fancy of Oakdale. It is a pretty high record for fat and may be quoted now or in the future. I wish to show up a few facts to show how unworthy of credence it is. It may be safely put down with those of Princess and and Tolect Fancy, unworthy of belief. Our reporters here are silent (for business reasons), but they are not bats and knowing how this record was made, do not waste any praise on it, a record which if straight is worthy of all praise. record which if straight, is worthy of all praise.

record which if straight, is worthy of all praise.

In the first place this cow was entered as under thirty-six months, her horns were nicely smoothed off, but her owner forgot to knock out her teeth. As she had a full mouth and every appearance of being a cow, it would not go down. She was actually put in as a heifer. The first milking of the test, the scales were out of order and a new pair had to be got, and the test commenced over again. Before the test was tested again, the Jersey man was given to understand his "heifer" would be thrown out, he then acknowledged she was older and put her in the cow class.

I am told he his "heifer" would be thrown out, he then acknowledged she was older and put her in the cow class. I am told he added another cow's milk. We know when she was watched the cow gave 10 lbs., the product of eight hours, when not watched 26 lbs. was weighed as the product of eight hours, which shows fraud on the face of it. Fancy a cow making 26 lbs., testing 4.7 per cent. in eight hours. Again this cow was put in as milking over 200 days and was allowed 20 points for that reason. Of course nobody would believe any such thing. Why the testers did not throw her out is a mystery to me. Our cows showed no such variation. Calamity lane gave second day of test with such variation. Calamity Jane gave second day of test with forty or fifty people looking on, 28½ noon, 28½ night, 28½ morning \$5 lbs. in twenty four hours. She was the sensation of the show and everybody wanted to see "the cow that gave so much." This with dogs running around kept the cow disturbed and she only tested 2.7 per cent first the week previous, lowest 3 1 per cent, highest 3.8 per cent., average 3 46 per cent, for a week.

We got more total solids and came out ahead by a com-

fortable margin in spite of 20 points allowed the Jersey and added milk. A mistake was made in figuring up and it was first reported that the Jersey had won. I insisted on having a look at the book and found one cow was only down for 116½ lbs. milk, instead of 166½.

You have now the inside history of this badly managed

test. We have surmounted all obstacles and added another victory for the black and whites."

A. & G. Rick.

Editor Register :

"Subjoined to your report in the February number of the recent Provincial Fat Stock and Dairy Show is a letter from the pen of Mr. Geo, Rice regarding the Jersey cow Fancy of Oakdale, and her performance at said fair Now, as superintendent of the dairy department of the fair, I desire

In the first place, the cow Fancy of Oakdale, was entered by her owners, Messrs. J. H. Smith & Son, in the proper class, and not as Mr. Rice states, in the class for heifers under thirty-six months. Messrs. Smith also entered two heifers, but did not bring them to the fair, and the entry number properly belonging to one of these heifers was entry number properly belonging to one of these heifers was

placed on Fancy of Oakdale. This is how the first milking of this cow happened to be placed to the credit of the two year-old heifer. When weighing the first milkings it was year-old heifer. When weighing the first milkings it was found that the scales were not exact, and it was decided to drop this milking and start the test afresh. I then went to Mr. Harry Smith and warned him that his cow was in the wrong class, and that other breeders were ready to enter a protest against her on the question of age. Mr. Smith admitted the charge, and thereafter her milk was properly credited. You may be sure that after this I took particular care that this cow should be closely watched at every milking, and I deny emphatically that Mr. Rice has any grounds for his statement that she was not properly watched. We had thirty four cows and heifers in the test, an unprecedented number, by the way, and it was no easy task to get men out at 5 o'clock in the morning to watch all these milked.

Mr. Rice claims that the fact of this cow giving sixteen

lbs. at one milking and twenty-six lbs. at another proves the test to be fraudulent. Now anyone can see that sixteen test to be fraudulent. Now anyone can see that sixteen pounds was considerably below her average milking, and it is accounted for by the fact that the row was not milked clean that night, so that a phenomenal milking might be shown next morning. This gave Mr. Smith no advantage, and he had a perfect right to do it, if he so desired, although I can not see why he should wish to do so. If Mr. Rice that it was highly improbable that this cow had been in milk for 200 days; but neither Mr. Palmer, the tester, nor inyself had any authority to throw her out of the test on that account, if we had desired to do so. If Mr. Rice or any other breeder had any evidence to offer on that Rice or any other breeder had any evidence to offer on that point, why was not a formal protest filed with the secretary, and such evidence brought forward to substantiate it? I have yet to find a Fair Board imbecile enough to throw out

a cow on the strength of idle gossip.

In justice to Mr. W. J. Palmer, who had charge of the testing, I must say that the trouble with the scales at the beginning of the test, and the consequent postponement, made the time between the end of the test and the close of the fair too short for the proper calculation of all the records made. Mr. Palmer's mother was almost at the point of death at the time, and it is not to be wondered at that, with this trouble weighing upon his mind in addition to the bustle this trouble weighing upon his mind in addition to the bustle and hurry incident to the desire to get all the tests figured out before the show closed, he and his assistants allow d a clerical error to creep into the figures of Calamity Jane's test. If it had not been for the unfortunate circumstance that Mr. Palmer was called away to his mother's bedside before the mistake was discovered, it would have been rectified at once. In conclusion I may say that in my opinion the officers of the fair did everything possible under the circumstances to make the test a success. Talk is cheap, especially in foreign papers, but v by does not Mr. Rice make the same charges in our Canadian papers, so that the parties interested might give him an opportunity to prove his statements? At any rate if he desires to kill the dairy department of the winter show which has done so much to demonstrate the capacity of the Holsteins, he is taking the best possible method to attain his object."

G. W. CIEMONS,

Supt. Dairy Show.

Co-operative Pork Packing.

A new co-operative farmers' industry has sprung into existence during the past few months that is arousing considerable interest in some sections of the country. At Stouffville and Bowmanville co-operative concerns will soon be in operation for packing pork. These factories will be run on a purely co-operative basis and will be owned and operated by the farmers in these districts. They are modelled somewhat after the co-operative cheese factories, the producer, or the man who supplies the hogs, to share in the profits after the expenses of operating are deducted.

At Stouffville every person becoming a share-holder must be a hog producer to the company. Not being a hog producer will debar any person from becoming a sharcholder. Each shareholder must deliver at least five hogs for every share he becomes a holder of. Toronto prices will be paid for all the hogs supplied. It is claimed that this will insure the producer one dollar per hog more than he is getting under the present system, as no middle man comes between the farmer and the manufacturer. All shareholders shall be paid six per cent. on all the stock they hold as first lien on profits. After this every person will receive the full profits according to the number of hogs delivered by him up to fifty hogs per share. Any shareholder delivering more hogs than fifty per share, the hogs above that number will be considered as bought hogs from non-shareholders and profits on the same will be divided equally amongst shareholders, as per the number of shares held by each individual. The profits on all hogs bought from non-shareholders will also be equally divided amongst shareholders, as per the number of shares held by each individual. Each shareholder shall be entitled to deliver fifty hogs per share, on which he will receive all profits earned by said hogs, lest the six per cent mentioned above. No shareholder will be allowed to hold more than \$500 worth of stock.

The progress of this movement will doubtless be watched with the keenest interest. The fact that the co-operative cheese and butter factory has been a success is no guarantee that the co-operative pork packing establishment will be successful also. They are two different lines of business, the one involving comparatively little capital and risk, while in the other a large amount of capital is necessary for buildings and plant, and the risk to be incurred proportionately great. The co operative cheese factory is almost co-extensive with the development of your cheese industry, while the co-operative pork packing concern appears on the scene when the business of pork packing in this country has been pretty well developed. The co-operative cheese or butter factory has practically no competitor to-day, for whether the factory is owned by one individual, or by the farmers themselves, the co operative prin-The pork packing ciple is practically the same. industry to day is under the control of the large pork packing establishments which have almost unlimited capital at their disposal for carrying on the business. With these large concerns the cooperative pork packing establishment will have to compete, and we are safe in stating that they will not give up any share of the business which has formerly been theirs without a struggle.

However, we wish this new venture every success, and only draw attention to some of the difficulties, as it is well that our farmers should consider every phase of the question before investing very largely in any new scheme. There is a good precedent for the farmers' co-operative pork packing establishment to be found in Denmark. that country a large share of the bacon is produced in packing establishments owned and controlled by the farmers, or the producers. as we can learn these have been successful. Whether the conditions there are such as would be more conducive to success than they are here remains to be seen. The Danes are much nearer the market than we are, and may have other advantages that we know nothing about.

Hard Times.

For the past two or three years people have heen accustomed to talk somewhat glibly about hard times, without seriously considering how they might be overcome, or without making any direct effort in applying a remedy. The lack of economy, or not applying our best knowledge and skill to the work we have in hand, very often results in so-called hard times to the individual there are circumstances sometimes which the individual cannot always control, which make it impossible for a person to make the most out of his resources. But in a very large measure, if the in dividual would use all the resources he has at his disposal in the very best way, the complaint regarding hard times would not be so prevalent.

The farmer sometimes complains of hard times when, if he had utilized his resources in the very best way, he would have had no reason to complain. A speaker at a farmer's meeting recently said:

The lack of economy has much to do with hard times. Economy is not meanness, but a good and intelligent use of all of our faculties and the good things which nature and a kind Providence has put within our reach. We should economize our time. The value of time cannot be estimated in dollars and cents; much of our time is wasted. We should be content to live within our means. Be content to ride in a second-class wagon until able to buy and

pay for a new one. We should economize the strength of our body and give our brains a chance. We should do more thinking, and think to a purpose.

The last sentence of this extract puts the whole matter in a nut-shell. Our farmers as a rule do not do enough thinking. If they would take a little time to study out the various phases of their business, many lines of farming practice which they are now following would be quickly abandoned. They would find out what lines of farming paid, and what lines did not pay. They would learn to discard the unprofitable cow and to keep only those which return a profit. They would discard many of the idle horses that are no use, and not paying for their board.

Many farmers fail to make farming profitable because they neglect to give particular attention to the little details of the business. For example the hen is totally neglected in many instances as being unworthy of attention, when, if managed properly there is no branch of the farm that will return as much profit for the capital invested and for the time and labor expended upon it as poultry raising. There are other ways also in which the farmer may improve upon his opportunities and make his busmess more profitable. It is a concentrated system of farming that entails special attention to every little detail of the business that will be successful in the future, and our farmers, if they are not working along that line should adopt it at as early a date as possible.

The Poultry Industry of Canada.

By THOMAS A. DUPP, Toronto, Ont. (Continued from last week.)

KEEP THE MALE BIRD AWAY FROM THE LAYING HENS.

This, in my opinion, is really the key note to success. Though the object of the egg is undoubtedly to envelope the germ, yet impregnation of an egg by this germ has no influence upon the actual laying, and a hen will lay at the proper season independently altogether of her being mated with a male bird. Millions of eggs are laid every year which would never hatch, simply because they contain no germ, not having been fecundated. There are, therefore, two classes of eggs—fertile and infertile. A fertile egg is one in which the vital impulse has been communicated by fecundation, and by the term "infertile" is meant an egg which has never been impregnated, and consequently one that cannot possibly hatch.

My experience has proven that a hen when never mated to a male will lay seventeen per cent. more eggs than when so mated. Supposing, by way of illustration, that a hen, properly cared for, fed and housed, lays one hundred and fifty eggs a year; this would mean twenty five more eggs, which, at fifteen cents per dozen, means thirty-one cents more profit made from each hen than you make by allowing the male bird his liberty. On one hundred hens the profit is \$31—a consider able item towards the cost of feeding.

In addition to obtaining more eggs, there are other advantages to be gained. You gain an egg of a better flavor, and one for which a better price will be paid. An infertile egg will keep very much longer than a fertile one, because there is no germ in it to spoil by the heat. If fertile eggs happen to be left in the nest for a day or two the heat from hens laying in the same nest, will, to some extent, spoil the flavor and keeping qualities of the egg.

To better exemplify the above, permit me to give you the result of an experiment which came under my personal notice:

In July last, several dozens of eggs, some of which were fertile and some infertile, were placed on bran in the drawer of an egg cabinet and kept in a cellar, where the temperature ranged from fifty to sixty degrees.

About the 15th of August, some of these eggs were broken, but no perceptible difference could be seen in them.

On the 15th of September, more were broken with the same result, except a slight entargement of the germ in the fertile eggs.

On the 15th October, more were broken, when it was quite apparent that the white of the fertile egg was much thinner than that of the infertile egg, and the germ was larger than at the previous

At the November 15th test, this was still more apparent, for in the fertile eggs the white was so very thin as to entirely leave the yolk and run over the saucer like water, while the white of the infertile egg had apparently not changed at all.

On December 10th, the last test was made, and the result was still more pronounced. The whites of all the fertile eggs broken were like water, and in a majority of cases the yolks broke and mixed with the whites, while on the yolks of those which did not break were to be noticed many dark spots and discolorations, showing clearly that the eggs were decaying. All of the fertile eggs broken at this December test were totally unfit for table purposes, and of little or no value for culinary In the infertile eggs, however, the purposes. whites and the yolks were in the same condition as when tested in August, and showed no signs whatever of decay. These were quite fit for any purpose, but, of course, could not be called "fresh" eggs. From the fertile eggs a bad smell was noticed, while from the infertile eggs nothing of this nature could be detected

During the conduct of this c periment, other prominent features were observed, namely:

(a) The loss by evaporation in brown shelled eggs was less than in white eggs.

(b) The loss by evaporation was greater in small

eggs than in large eggs.

(c) The brown shelled fertile eggs were in a much better condition than the small white fertile eggs; while little difference could be detected in the keeping qualities of the large white colored eggs and the brown eggs.

The evaporation depends upon the conditions

The evaporation depends upon the conditions under which the eggs are kept, and will vary in accordance with these conditions. It is much more rapid in hot weather than in cold—in warm places than in cool.

When eggs are stored in other than cool places the transpiration of oxygen and hydrogen invariably renders them stale. This loss and evapor ation are scarcely perceptible in the first week, but are more marked in the second, and of considerable importance in the third. An egg exposed to the weather, but protected from sun, rain and frost, will lose more than half its original weight in twelve months. Under similar conditions twenty seven eggs at the end of six months will weigh less than twenty two newly laid ones. Evaporation is half the daily average in winter and double the annual daily average in summer, or a daily loss four times greater in hot weather than in cold.

Experiments have proved that evaporation is very unequal. It is influenced by the size and form of the egg. In a series of experiments made with new-laid eggs, weighing eight, nine and ten eggs to the pound, it was found that eggs weighing ten to the pound lost double that of eggs weighing eight to the pound, and with very small and long eggs the loss in weight assumed a still greater disproportion.

Placing eggs in a cool place minimizes evaporation, and a low temperature is not favorable to the multiplication of the micro-organisms associated with the decomposition of eggs. A pure air where the eggs are stored is absolutely essential.

Upon two rules, apart from preserving processes, depends success in storing eggs for food—cool storage in a pure atmosphere reversing the eggs at least twice weekly.

COLLECTING EGGS AND HOLDING UNTIL MARKETED.

Be sure and gather your eggs every day. Under no consideration neglect this. After they are gathered, and all dirty eggs washed, see that all small, cracked or thin-shelled eggs are removed and set apart for home use. Those intended for market should then be placed in the cellar. It would pay everyone to have a rack made in which to keep these eggs. It can be made at home and will cost but a trifle. The frame can be made out

of material 2 x 2 inches, dressed. A good size for a case is two feet wide, fifteen inches deep, and four feet high. The egg trays consist of a frame made of very light material, and the bottom covered with wire gauze Small triangular pieces of wood are run across the frame of the trays as a division for each row of eggs. The gauze is also tacked to these strips to keep them in place and strengthen the frame. Strips of wood an inch thick and two inches wide should be nailed on the inside of the 2 x 2 uprights, so as to slide the trays in and out. This also enables you to put the trays one above the other. By having one more tray than you have trays in the case, a few minutes each day would enable you to turn the eggs. Place the eggs in the trays in full rows, with the large ends all pointing the same way. In turning, place the extra tray over the eggs; grasp the sides of the trays firmly with both hands, and turn end over end, allowing the large end of the eggs to pass downward and under-

SELECTION OF LAYERS.

As the breeding season approaches, select out from your flock the hens which you know, by observation, to be your best layers, and mate them to a thoroughbred male bird, of the same variety, from a well-known egg producing strain. The result of such selection will be that year after year you will be improving the size and number of eggs obtained.

When the breeding season is over see that all the male birds are either disposed of or shut up.

Health on the Farm.

Farming is generally considered to be one of the most healthy occupations. People in the cities in search of health usually flock to the country where the pure air, fresh breezes, and wholesome foods are believed to be health producing. This is true enough, and many persons who have been without good health in the large cities have tully recovered after spending a comparatively short time in the country; but in many cases we believe the improvement has been due more to the mere change of environment than to anything

However, the condition of things in the country should be more conducive to health than conditions in the city, but very often they are not. If those living in rural districts observed the laws governing sanitary conditions to the same extent that they are observed in the cities the country would be a regular paradise of health. In every well-ordered city the laws governing sanitation are very strict and are enforced by competent officers. Of course, such regulations are more necessary in the city than in the country, but if those living in the country would pay more attention to sanitary laws the standard of health would be very much higher than it is at present. People engaged in farm work deceive themselves very often by thinking that there is no need of regarding sanitary conditions so long as they have the pure air and fresh breezes of the country, and frequently people are found living in the midst of the most unsanitary conditions and who wonder why they are not blessed with good sound health. Unsanitary conditions are conducive to bacterial development, and nearly all diseases have their origin in germ life, and consequently sickness re sults, in man, instances, where it is least expected.

One of the chief sources of disease in the country is to be found in the water. Frequently wells, from which the water used for drinking purposes is taken, are near some polluting source that makes the water anything but healthy. Frequently decayed vegetable or animal matter may be found adjacent to many farm dwellings, the germs of which are inhaled by those living on the farm. Farmers do not give as much attention to these things as they should. If every detail connected with the sanitary arrangements on the farm were well looked after there would not be as much sickness in the country as is found in some sections at the present time.

The World's Wheat Supply Increasing.

The world's available wheat supply is steadily gaining upon that of a year ago, so says The Mon-treal Trade Bulletin. This is rather surprising in face of the fact that the visible supply in the United States and Canada east of the Rockies decreased 1,345,000 bushels last week and that there was a falling off of 560,000 bushels in the quantity on passage to the United Kingdom. The total amount of wheat in sight has now increased to 71,528,000 as compared with 69,717,000 bushels a year ago. These facts refute the claims of some statisticians that there would likely be a wheat famine. There is now eight months of the cereal year provided for and only about four or five months between now and harvest, so that there is not much danger of many people being deprived of their usual amount of bread.

It is true, however, that there are not the large surpluses stored up of former years. Speculators have tried to take advantage of this condition of things by buying up large quantities of wheat and diverting them from legitimate channels by keeping them off the market. Leiter and his followers have done this and are now trying to take advantage of the situation by putting up prices. Leaving out the speculative element the situation is more favorable than a year or two ago, and prices have been raised to a profitable basis. In view of the fact that reports regarding the coming season's crop so far are favorable there is not likely to be any great advance in prices unless it be through speculation.

Sugar Bounties.

There is some agitation in England in regard to the continental export sugar bounty system. A conference was recently held in regard to the matter, when various remedies were suggested. One was to give a bounty to sugar manufactories in the colonies; another, to put on a sufficient amount of duty to prohibit the importation of bounty sugars. The matter appears to be very difficult to regulate, and the bounty sugar from Germany and elsewhere almost prohibits the manufacture of sugar in countries where a similar bounty is not given, or where the sugar interests are not sufficiently protected. Many people in England are interested in sugar manufactories in the West Indies and other colonies, and consequently the cheap bounty sugar affects their interests directly.

If it were not for these bounty sugars there would be no difficulty in the way of successfully operating heet sugar factories in Canada. The Germans, by sending out their cheap sugar, have almost secured a monopoly of the sugar trade in many countries, and are seriously injuring the manufacture of sugar in other places. True, it is all right as far as the consumer is concerned; but we believe that if beet sugar manufacturing could be made profitable to our farmers it would add very much to the value of agriculture in this country.

Does the Rooster Increase the Egg Yield?

The Rural New Yorker has been sending out a number of inquiries in reference to this subject. We do not know whether Canadian poultrymen have given this matter any attention or not. Some of the leading authorities on poultry matters have advocated producing non fertilized eggs, as they would keep longer than those fertilized. It has also been stated that hens lay better when kept away from the rooster, but in some recent contests all prize-winners who won a prize for the largest number of eggs from a given number of hens, had a rooster in the pen with the laying hens. The question now is, how do poultry authorities reconcile the facts with the theory?

The correspondents of The Rural New Yorker do not seem to agree in regard to the matter. The weight of evidence seems to be against the rooster. While some are strongly in favor of keeping the rooster separate from the hens, there are others who are just as strongly of the opinion that the

presence of the rooster is an advantage. However, should his presence increase the yield of eggs, it is altogether probable that the gain in this respect would be overbalanced by the extra feed it would take to keep the rooster. We should be pleased if some of our poultrymen would test this matter and give us the results for publication.

NOTES AND IDEAS.

Recently the Ontario Fruit Growers' Association urged upon the Dominion Minister of Agriculture that the Government should prohibit the importation of foreign fruits into Canada, because of the danger from bringing in the San Jose scale. The Winnipeg Board of Trade took the matter up and has received word from Mr. Fisher that the prohibition of the importation of foreign fruits is practically impossible. Such a prohibition would be manifestly unfair to the people of Manitoba, who depend largely upon California for fresh fruit. No pears, plums or peaches are grown in Manitoba and the North-west, and nearly every attempt to bring fruit from British Columbia or Ontario has resulted in loss, therefore the prohibition of foreign fruit coming into the country would almost deprive Manitoba of these luxuries.

In answer to a question from Mr. Davin regarding the Northwest creameries, the Hon. Sydney Fisher told the members of Parliament at Ottawa, the other day, that there were some creameries being operated at a profit at the present time. A sample shipment of Northwest butter had been sent to China and Japan, and had been so successful that a cable had been received asking the Government to send as much more as they could of the same kind. Northwest butter had been successful in England also, so that there were two openings for the butter, besides the demand that is sure to come from the gold regions

A farmer on Long Island has gone into the growing of sunflower seeds and raises 100 bushels to the acre. These seeds are made into oil which sells for \$1.25 per gallon, and it takes two and one-half bushels to make one gallon of the oil.

CANADA'S FARMERS.

Alex. Hume, Burnbrae, Ont.

The firm of Alex. Hume & Co. is well known to breeders of fine dairy stock. For years some of the finest types of Ayrshires have been produced at Burnbrae.

The head of this firm is Alex. Hume, the subject of this

week's sketch. Mr. Hame is a comparatively young man, and was born on the farm on which he now lives, less than forty years ago. His father, the late Thomas Hume, was a school teacher, and consequently saw the necessity of his children receiving a liberal education. Mr. Alex. Hume therefore received a good education at the common and high schools, though his ambitions in this regard were himdered somewhat by being compelled to take a special interest in the work of his father's farm than he otherwise would, owing to the delicate health of his father.

The Burnbrae herd of Ayishires was founded twenty-four years ago by the late Thomas Ilume. Eight years ago Mr. Alex. Hume became more intimately connected with the business, and the herd was largely increased from some of

business, and the herd was largely increased from some of the best breeders in Canada. Owing to an inherent desire to be at the top, Mr. Hume imported a young cow and calf in 1893, from the well-known herd of Andrew Mitchell, Scotland. In 1891 he purchased a purebred Clydesdale mare in foal to MacNeilage. In 1890, Vorkshires were added to the list of purebred stock, and were the first to be brought into the township in which he resides.

Animals from the Burnbrae herd have been exhibited at Toronto and the leading fairs during the past three years, and have succeeded in capturing many of the best prizes. The special prize for the hest dairy herd has been taken frequently at a number of the local fairs. Many high-priced animals have been sold, and are to be found at the head of some of the leading Ayrshire herds in Canada. Over fifty Ayrshires and thirty grade cows are kept at Burnbrae, besides over thirty purebred Yorkshires.

Mr. Hume has been honored in many ways by those who

Mr. Hume has been honored in many ways by those who know him best. In his own locality he is a leader in local matters, a successful Sabbath school teacher, and takes a leading part in local educational affairs. He is a director of the Seymour Agricultural Society, and a director of the Dominion Ayrshire Breeders' Association.

MUSTARD AND OTHER WEEDS.

WHERE THEY COME FROM AND HOW TO GET RID OF THEM.

By T. C. WALLACE, St. John, N.B.

garden is so rich that it is almost im-This richness is always obtained by the more noxious ones. the copious use of stable dung and such manures rich in humus. same remark applies in farming as in gardening. Why do these weeds grow on these very rich soils? Are these they not also be wanting in something, and consequently may not a want of balance cause what we may Canadian product. The sceptical custerm, from our standpoint, a weak tomer is serenely told that "it comes mental reason why the maple tree until seeding time will be well repaid. these very rich spots. On my suggesto contend with was clover, but the little sugar he is almost sure to repent almost half a million of money.

It is claimed that the sugar bush at gen, potash and phosphates. quantities of the first two and very maple flavoring has been added. little of the third, as the animals use it point which presents itself to our nonure needed to give enough phosphate very small cost. for the best production puts into the carrying away the lime in the crops. deep. Build an arch either of brick not. As a result of this acidity it is held by or stone with a good high chimney.

Those who have a good bush should some that various weeds spring into. The sap in the front pan should never take good care of it. Encourage young life or develop, among them the mus- be put off the boil by having cold sap maple trees to grow; if they don't spring sometimes even sooner. Clover seems that would otherwise pass up the bly planted with maple trees. to take its place in many instances.

sign of weakness is a query which sug-flannel. gests itself to us when we remember animal of any species which forms a considerable bone structure, is yellow, and it is the refuse of the food from should be skimmed off at once. which the animal has extracted the turn yellow when the ripened wood stand until cold before cleansing it, properly. Frequent changes of collar tained from the hot bed, and fruits have extracted from them all. This allows the malate of lime to will invariably cause sore places. the strength and bone earth assimilated settle. The syrup is then drained off in its structure. Most fruits are green the top and cleansed. while growing, and the strength of the plant is acting throughout the strucin the interior flesh and seeds, in fact, out before the season begins.

tain the most of its strength. May not wooden buckets will answer well. Iron sary have a cloth handy to wipe them proper attention to manuring, so as to should be hung on the spile. properly balance the elements of plant How often we hear it said that the growth in our soils, to control weed growth and confine it to a class more be a welcome addition to the table cold water. This has a tendency to possible to keep the weeds down tractable than mustard and some of any time during the year. Such a contract the muscles and thus prevent

MAPLE SYRUP.

This is the time of the year when ture, and the quality is superior. soils not over rich in something? May "new maple sugar" or "new maple syrup" is displayed in the store windows to tempt the lovers of this good THE VALUE OF THE MAPLE TREE. produce was also much improved. it later, for he is invariably treated to a The elements of soil fertility are nitro-sugar composed of nine tenths com- the Michigan Agricultural College The mon brown sugar and perhaps one- yields an annual return of twelve per stable manure supplies considerable tenth maple, or it may be that only a

good maple trees can not have a nice of their farm.

chimney. The sap from the heating If the clover comes in this unac- pan or kettle should be strained into

without proper drainage in a wet sea- ing the syrup should be cleansed by the blood again or by an incision they etc., can come on for a second crop. son? Healthy dung from a growing adding to it about a pint of sweet milk will become calloused and permanent. As soon as the sun's heat begins to which will cause any dirt that may be

With this simple outfit any farmer get an improved evaporator, as the

- -----

ness? I know a man who had one of from the Province of Quebec, you should be honored by Canadians. know," despite the fact that the trees According to the census of 1891 the phosphate of lime in a non acid form, Ontario. If the customer has his Ontario amounted to 5,065,796 lbs., they will more than make up the lost and as a result the only weed he had suspicions set at rest and purchases a which, at average market prices, means time to you before the seeding is

cent. valuing the woodland at fifty dollars an acre. Many Canadian farmthat the land is really sour. Also if the made of galvanized iron. A convenient in cabinet making and for interior make a good frame. land contains much sulphur it is apt to size is two and a half feet wide, five or decorations. People in other coun-

HARNESS BRUISES.

Most farm horses have not been very busy during the winter and their covering for wounds of trees. Cleanliness all the way through is shoulders are more or less soft and

we have found an antidote for the yel- or tin spiles are to be preferred to the with if the horse sweats excessively. low weed, and is it not possible, by old wooden ones, and the bucket Remember how sweating softens your own hands.

When the harness is removed bathe can make a nice lot of syrup that will the parts where the harness rests with simple outfit is all right for a small inflammation and the consequent swellnumber of trees, where there are quite ing. Should a swelling appear it a few hundred trees it will pay well to should be well bathed with cold water so long as there is any inflammation. work is done quickly, an essential fea. It is a good plan to use ice in the water to make it cold. When work on the land begins watch the horses' necks especially when they are working on a tongue.

When you begin seeding don't go at it with a big rush the first day, let the tion he treated it liberally with a pure have not been tapped in southern annual production of maple sugar in horses take it easy for a day or two,

through.

THE HOT BED.

It will not be long until it is time to start the hot bed. Every farmer should There is no reason, however, why ers could testify to the value of their have one. If you haven't one, set to up in their bone. But there is another any farmer having a hundred or so maple bush as a very profitable portion work and make one. Many farmers Besides supplying have old sash lying around that would tice. The large amount of stable ma- lot of genuine sugar and syrup at a the fuel needed on the farm a fair make good glass for a hot bed. Somemaple bush can easily make ten dol. times old storm sash can be obtained A few weeks ago we illustrated the lars an acre in syrup or sugar per year. cheaply and they answer well. Having soil such an overwhelming supply of old-fashioned way of boiling down This too, at a season when time can selected your sash, make a frame to humus matter to decompose in the maple sap, and it is a good plan yet be spared to attend to the work. Be. suit it. On page 102, measurements soil that an inordinate amount of car where the quantity is small. A better sides its usefulness in supplying a de- of a convenient sized hot bed are bonic acid is secreted with the result plan, however, is to get a big flat pan licious food, the maple is much used given. Anyone handy with tools can

Sometime before you are ready to be freed in the soil from which we are six feet long, and six or eight inches tries admire it and value it, if we do use the hot bed, make up a pile of good stable manure (largely horse manure) large enough to cover the entire bottom of the intended hot bed 18 inches deep. Let it heat a few tard. Liberal applications of pure put into it. By having a pot or small up naturally plant them in vacant days then turn it over and let it heat non-acid phosphate of lime have fre- pan built into the arch at the back of places in the woods and so renew the another week. Now make up a bed quently effected a cure, the mustard the boiling pan, the sap can be timber. There are odd corners on of this manure 18 inches deep and a disappearing in a couple of years and heated to the boiling point by heat many farms that could be very profita- foot larger all round than the size of your frame; water, and tramp it down solid. Place the frame upon it and bank up around the manure and frame The countable way, why not the mustard? the boiling pan, and should be boiled It is particularly noted that if left to down as rapidly as possible after it flower the weeds upon such acidified has been gathered. Quick work makes or collar upon a part not accustomed of fine garden mould, no matter if it soils produce yellow blossoms, and it is the best colored syrup. Don't let to it compresses the blood vessels so is frozen it will soon thaw out. If you well known that yellow color follows syrup stand in the pans over night. that the normal flow of blood is check- can't get that, go to the woods and get green very closely, being its comple. Syrup off every night and strain the ed. The walls of the tiny blood vess some nice leaf mould. Put on the mentary color. Is the vellow also a syrup through a loose woven piece of sels are bruised and partially paralyzed. glass and allow the hot bed to work Then as soon as the pressure is re- off its excessive heat. Place a ther-It is a good plan to have a galvan- moved the blood rushes into the weak- mometer in the soil and when the that the yellow weeds come either ized iron pan with four good handles ened vessels distending them. The temperature remains constant at 80° early in the spring before nature is made to fit the kitchen stove. This serum of the blood flows through the the ground can be got ready for sowthoroughly, active, or in the autumn pan should be about ten inches deep weakened walls and accumulates under ing and the seed put in. If the temwhen she has partially exhausted her and the syrup as it comes from the the skin, thus originating the soft, perature is too high wait until it cools strength in production. Have you woods should be put into this pan and puffy swellings so often seen on the down or the plants will be burned out. noticed that the corn turns yellow in a boiled down until an imperial gallon shoulders. If these swellings are not Sow radishes and lettuce for the first soil soured by lying in a wet state weighs thirteen pounds. While boil- removed either by being absorbed into crop; cabbage, cauliflower, tomatoes,

Knowing how these swellings are warm up the bed and the temperature in it to come to the surface when it caused we should be the more careful rises, it may be necessary to open to see that the causes are removed, the sash a little to regulate it. But A good many makers prefer to let Always use the same collar on a horse, this can soon be learned and a great strength. In the autumn the leaves the syrup, as it comes from the woods, provided, of course, that it fits him deal of pleasure and profit will be ob-

It often happens that, either by inthe secret of having good syrup. The should be gradually broken into hard tention, as in pruning, or by accident, ture, but as the strength concent ates buckets should be thoroughly cleaned work. With horses that are particular- trees are wounded in various ways. Tin ly soft stop frequently, lift the collars A common practice is to cover large with ripening within comes yellowness ones with covers will give the brightest and rub the shoulders, this will help wounds with coal tar; but this is oband weakening without. The seeds of colored syrup, but where there are to restore the circulation. Keep the jected to by some as injurious to the the yellow pumpkin and squash con- only a hundred trees or so, good shoulders dry, if possible. If neces- tree. Experiments made in the ormixing and stirring and thus incor- horse. porating with the tar about three or known as slate flour—the mixture being also known as plastic slate and their level. and though it hardens on the surface,

of time thus avoided. It will stick to any surface, provided it be not oily; and as it does not harden when kept in a mass, it is always ready for use. A gallon will last for a long time.

A most excellent preparation for small wounds and for grafting, is thus prepared: Melt a pound of resin over a slow fire. When melted, take it from the fire and add two ounces bal sam of fir, or two ounces of Venice turpentine (not spirits of turpentine), stirring it constantly. As soon as it is cool enough, mix in four to six ounces of alcohol of 95 degrees strength
-according to the season—until it is as thick as molasses. It keeps well in close-corked bottles for a long time. Should it become too thick, by the gradual evaporation of the alcohol, it is easily thinned by putting the bottle in warm water and stirring in sufficient alcohol to bring it to a proper fluidity. It is applied with a brush.

This preparation is much better than liquid grafting wax composed of resin, beef-tallow, and spirits of turpen tine which often granulates -Rural World.

DON'T SUIT THE ENGLISHMEN.

chards and gardens of the Pomological Institute, at Ruthlegen, in Germany, go to show, however, that its true use is not injurious; but that, on the contrary, a callous readily forms under the tar, on the edges of the wound, and that the wounded part is thus protected from decay. There is, nevertheless, another objection, for if the the less, another objection, for if the the is an elected a little true thick the arm of the true estimated of the same period, was about four cents. If the cheese only sold at from six to seven cents there was not much money in the business for the producer. The about thirteen cents. At this figure there was not much money in the business for the man who made dairy butter. To get the patron to co-operate it must be shown that he can make a profit out of the business. Some of the diftar is applied a little too thick, the sun were placed ahead of true acting horses melts it, and it runs down on the bark of a hackney stamp, much to the de-of the tree. This can be obviated by light of the lovers of the American

This was at the horse shows which are four times its weight of powdered slate, a society affair. On the business market this class of horses have soon found Quite recently some had been allowed on capital invested.

erican horses were sold. At the afternoon session Prof. Dean disused for roofing purposes. It is easily twenty-two American horses were sold applied with an old knife or flat stick, at Tattersall's, London, England, and brought a little uuder \$200 apiece it remains soft and elastic underneath, on an average. These horses were The heat of the sun does not melt it, described as being prize winners at the nor does the coldest winter weather New York and Chicago horse shows. nor does the coldest winter weather cause it to crack—neither does it peel off.

The same mixture is also useful for other purposes in the garden. Leaky water note barrels and Chicago horse shows. Speaking of the sale, The St. James of the propersum of the prop water-pots, barrels, pails, gutters, York prize does not carry an equal resiston as the goods would be sacrificed. We sasshes, etc., can be easily repaired commendation with the English. Here with it, and much annoyance and loss the shows are strictly business. At will take, but there is a large field for butter, and if we send forward the right kind of stuff, and right kind o Madison Square Garden they are a mere society function."

EASTERN CHEESE AND BUTTER MAKERS MEET.

A convention of the makers and dairymen Eastern Ontario was held at the Dairy School, Kingston, on March 9th last. There was a large attendance of makers from the various cheese centres of the east. The meeting was held under the auspices of the Eastern Batter and Cheese Association, the president, Mr. D. Derbyshire, presiding at both sessions.

The chairman in his address referred to the

good work being done by the Kingston Dairy School, and also the one at Guelph. The cause of much of the poor cheese to-day was poor makers, and the effect of such schools was to improve the makers and to make them better able to produce a finer quality of

The Kingston Dairy School has a good friend in Principal Grant, of Queen's University. In his address of welcome he referred to the progress which the school had made.
There were more students this year than last,
and 20 per cent. of them old students. In
every line of work there must be a going for
ward. If we do not go forward we go backward. Eternal vigilance must be exerted so as to bring the quality up to the highest point. He pointed out that the Governments were not liberal enough in their appropriations for institutions existing for the benefit of the agricultural classes.

Prof. H. H. Dean, of the Ontario Agricul-

Advocates of the American trotters are doing their best to bring them to the front as carriage and park horses, and fancy high-stepping drivers. High action is obtained by training and by weighting the shoes. In this way some wonderful performers have been developed for the show ring. These horses, however are seldom as good. horses, however, are seldom as good man who needed education most was always performers with the hind as with the conspicuous by his absence. The average

co-operate it must be shown that he can make a profit out of the business. Some of the difficulties of the present system were the disinterestedness of the patrons; poor buildings and plants; unfair sharing of losses; speculation and selfishness. If there were more cooperation these difficulties would be overcome. Our co-operative system should be so extended that everyone connected with the conce of that everyone connected with the conce of should share in the profits after a fair interest

cussed the points of a good cheese and butter maker, which were given as being good look-ing and having sunny ways, good constitution and a good worker, neat and clean, and should have brains and knowledge of how the different processes in cheese and buttermaking are

put up in proper shape, there should be no great difficulty about extending our export butter trade. Mr. Alexander pointed out that the curse of the dairy business was dirt. This was something that could be easily removed.

Mr. G. G. Publow, instructor in cheese-making at the Kingston school, pointed out various reasons why inspection in the factories was necessary. It was necessary in order to locate the causes of inferior cheese and because over-production made the consumer more particular. The inspector should not devote himself to inspecting milk, but to the work of instruction. About sixty per cent. of the rejected cheese in his district was due to the rejected cheese in his district was due to bad flavor. If it were due to other causes, such as had water, incapacity, etc., the maker was largely to blame. Cheese were usually shipped too green to allow flavors in the cheese to develop.

Mr. J. A. Ruddick, superintendent Kingston Dairy School, stated that he believed that fully seventy-five per cent. of the water used at the cheese factories in Eastern Ontario was bad and was due to slops getting into the

was bad and was due to slops getting into the wells. In such cases the maker was not to blame and should not be held responsible. Factorymen need enlightening in regard to the water problem. Mr. Ruddick also read a paper on the theory and practice of buttermaking. We will publish this later on in full as also a paper on the composite milk test by Lock Box A.

ULRICH'S ENSILAGE

Seed Corn.

This Celebrated Corn is Sold all over Canada.

Mammoth White, Red Cob Yellow Dent. Improved Leaming.

Vic your dealer to procute SEED for you as ou will be well pleased with results. No fanc, .-ices. Write for Free Samples and Book of rectimonials.

E R. ULRICH & SONS, Springfield, Illinois.

On Thursday, March 31st

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 FARM

Lot 31, Con. 4, Nassagaweya, County Halton. 3 mls. south of Ruckwood, G.T.R. Sale to commence at 12 o'clock 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

rnest L. Norrish Proprietor



FOR SALE

30 Large English Berkshire Pigs

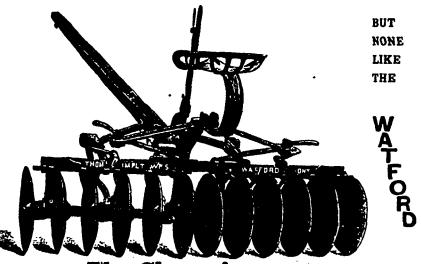
At \$5 each (Registered)

Also two sows to farrow in March. Eggs for Hatchlog from prize-winning stock, scoring from 64 1/2 to 95 1,2. White Leghorns, B. Leghorns, B. P. Rock, I. Brahmas, B. Minorcas, S. S. Hansburgs. 15 teggs. \$1 00. Also all kinds of Bee Supplies, Hines Combs, Fond Queens, Nuclies. My motto is to please or refund the money.

N. H. SMITH.

TILBURY, ONT.

There are other Disc Harrows



The Champion

Its superiority at sight. An eye-opener as to what goes to make a perfect working harrow. To introduce this Harrow where its merits are not already known and no agent already appointed, write direct to us, and we will name you a price that will introduce and make you the owner of the best Disc Harrow in Canada, and once in the field it becomes a favorite. Money refunded it not satisfactory. Also get our price on Land Rellers, Plows, and Corn Scufflers. We are the patentees of the Blower Elevator Feed and Ensilage Cutter. Patented in Canada and United States of America.

Thom's Implement Works Watford, Ont.

"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, Vascouver, B.C.

MONTREAL, CA

MONTREAL, CAN. Established 1875.

Mr. L. A. Zufelt, instructor in butter-making at the Kingston school.

at the Kingston school.

An interesting discussion was taken part in by the instructors of the Eastern Association on points in practical making of value to the makers. In the opening of the Question box, which followed, it was shown that very overtipe milk will not make an heavy-bodied cheese; that the "flying of the color," or mottled cheese, was due to various causes; that too much moisture in a cheese develops an off flavor; that it is better to wash curd an off flavor; that it is better to wash curd after milling than before; that a greasy curd should be cooked higher and washed before salting, and that too high salting injures the

satting, and that too high satting injures the tlavor by absorbing too much moisture.

Dr. Connell, of Queen's University, gave a very interesting address on how milk is tainted. There are taints caused from bacteria getting into the milk, and from badflavored foods. The former are the most different at the most different are the most differe ficult to overcome, and their chief sources are particles of dust, manure, hairs, etc., getting into the milk; decayed animal or vegetable matter near the milking yard or place where the milk is kept; and improperly cleaned cans, especially those in which the old sour whey has been returned to the patrons.

Short addresses were given by Mr. D. J. Borbeau, superintendent of the St. Hyacinthe Dairy School, Que., Mr. Wm. Eager, and

The Kingston Dairy School has recently been enlarged and improved, and is now one of the best schools of its kind in the Dominion. That the work carried on there is highly appreciated by the makers was shown at the meeting when an address expressing the highest appreciation of the work carried on by Mr. Ruddick and his able staff of assistants was presented by the students of the term recently ended. It is proposed to extend the experimental work to be carried on next season.

FEEDS AND FEEDING.

Many a farmer has wished for a good reliable work on feeding farm stock. One which would give the value of the many different would give the value of the many different kinds of feeding stuffs and the best methods of feeding and caring for all kinds of stock in all kinds of conditions. We are pleased to say that this long felt want has been at list supplied. Professor W. A. Henry, director of the Wisconsin Experiment Station, Madison, Wisconsin, has just published a work, "I eds and Feeding," which we think every farmer will hail with delight.

In the first part of the book he explains in simple language, which any one can under.

simple language, which any one can undersimple language, which any one can under-stand, how the plant grows and elaborates the materials that are to serve as food for ani-mals; how this food is digested by the ani-mals, absorbed into the system and converted into heat, work, beef and milk; and how the different kinds of food influence this produc-

In the second part of his book nine chapters are devoted to a consideration of the dif-ferent feeding stuffs, their composition, their feeding and their manurial values. These chapters contain a lot of valuable information

chapters contain a lot of valuable information for every feeder of live stock.

The best, however, is left until the last. The third part, consisting of nineteen chapters, 350 pages, is devoted to practical feeding. This portion of the work is a mine of information both to the beginner and to the experienced stockman. Professor Henry gives the fullest and best plans and sugges-sions for feeding which we have seen in print. These plans have been gathered from the practice of the most successful feeders

practice of the most successful feeders throughout the country.

It is a work that should be in every farmer's home. "The stockman who, in addition to experience, possesses some knowledge of the composition of the nutrients of feeding stuffs, and has considered how the animal grows and is nourished by them, is certainly thereby better equipped for wisely and economically administering feed to the animals under his care. And in the deeper insight and wider range of vision which these studies insures, there comes keener enjoyment and a greater there comes keener enjoyment and a greater satisfaction to the possessor in his daily round of duties." The price of "Feeds and Feeding" is \$2 through FARMING.

Now is a good time to prune apple trees. Some claim the best time is when the leaves are coming out, as then the wounds heal most readily, but that is always a busy time. Do it now. Also prune the raspberries and currant bushes now on fine days.

Publishers' Desk.

Trotting and Pacing Stakes. -The Industrial Exhibition Association of Toronto offer \$3,000 in stakes for trotting and pacing at their next exhibition to be held in Toronto, commencing on the 30th of August next. The purses will be \$500 for each class for two and three-year-old trotters and pacers 3-minutes class trotters and 2.50-class paaers. All entries must be made to 11. J. Hill, the secretary of the exhibition of Toronto and a horizontal pacers. tary of the exhibition, at Toronto, on or before the 30th day of March, from whom forms of entry, conditions, etc., can be obtained.

Stock Notes

J. J. TANNAHILL & SON, TROUT RIVER, QUE.—I have recently visited the Holstein herd of A. Hoover, ir, Emery, Ont., and purchased and brought home with me the cow Edgley May, and the two year-old heifer Baroness Mercedes. The heifer is now in milk, and due to calv sagain about August. The dam of this heifer is Limery Beauty, Mr. Hoover's famous milk test cow. We also purchased some time ago, from J. R. Bell of Kelso, Que., the cow Indulgation of the hold Advance, No. 1022, which we purchased to the bull Advance, No. 1022, which we purchased to m.A. C. Hallman a year and a half ago, should produce some fine stock.

GRO. LATSCH, FRREINET, ONT,—My Jersey cows are milking splendidly this winter, and doing better still at the churn, surning out a lot of gilt edged butter twice a week (such as only Jersey cows can produce). I sold, recently, one of my stock bulls to Gavin Goodall, Galt, a bull calf to Amos Hallman, Baden, another to Contal Ludolph, New Dundee; and a fine cow to Henry Beatty, German Mills.

The attendance at Mr. Hunter's sale of purebred stock was very large, and buyers were present from all parts of the province. A number of buyers from the Northwest and from across the lines were also

Present.

The stock were brought out in excellent shape. The prices realized were good, being a marked advance on those obtaining for some time past. In all probability they would have averaged a little higher had there been a number of young calsas running beside their dams, showing that the herd was in good breeding condition.

atton.
The (Indesdates brought the following figures:
Master Lyndoch, \$650; King of Sunnyside, \$430;
Nelly, \$115. Queen of Sunnyside, \$200; Gladys,\$118;
Polly, \$176.

Master Lyndoch, \$5.01; King of Sunnyside, \$4.81; Nelly, \$115. Queen of Sunnyside, \$200; Gladys, \$18; Polly, \$176.

In young Berkshirr sows brought from \$13 to \$16 each, and the old sow \$20.

The Morphirr ewes brought about \$16, and the lambs \$15 a piece.

The following are the names of the Shorthorn cattle date of birth, and price:
Jessic (Nov. 22), \$120; Sweet Lady (Jan. '35), \$100; Valley Roselind 2nd (Jan. '19), \$40; Red Rose (May '97), \$70, Ganety 5th (Feb. '92), \$120; Lady Aberdeen (Jan. '97), \$105; Warbaby Lass (Feb. '96), \$120; Lady Aberdeen (Jan. '97), \$105; Warbaby Lass (Feb. '96), \$120; Lady Stath (the C. '92), \$70; Lady Hopewell (Jan. '95), \$115; Roan Blossom (June '96), \$81. Dorna Doone (Feb. '91), \$90; Bide Elect (July '97), \$70; Queen of Lorne 4th (Dec. '88), \$45; Maggie Lauder (Dec. '91), \$80; Miss Canada (Feb. '97), \$110. Miss Dixie (Oct. '92) \$175. Bides maid (Mar. '97), \$85; Lady Blythe (Mar. '96), \$120; Mantalin Bud (May '89), \$90; Red Lily (June '88), \$80; Blooming Bride (May '97), \$65; Gaiety 3rd (Nov. '85), \$55; Sunnyside Lass (Nov. '85), \$40; Strawberry (Jan. '97), \$81; Rose of Pilkington (June '89), \$80; S90; Red Kily (June '88), \$120; Strawberry (Jan. '97), \$81; Rose of Pilkington (June '89), \$80; S90; Red Kily (June '88), \$17; Biddal Rose (May '97), \$60; Rose of Pilkington (June '89), \$80, S90; Farewell 5th (Feb. '89), \$165, Lord President (May '97), \$150; Prince Arthur (Feb. '96), \$114; Red Knight (April '96), \$78; Royal Stewatt (Dec. '96), \$147; The Candidate (Apl. '97), \$150; Prince of Sunnyside (Dec. '96), \$96; Bridegroom (Dec. '91), \$120.



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

Address

R. & J. Ransford

CLINTON, ONT

Special Premium List

Change of Seed Makes Larger Yield

E have made special ar rangements with the old and reliable seed firm of JOHN S. PEARCE & Co., Lond in, Ont., whereby we are able to offer the following valuable collections of seeds as premiums for new subscribers.

These seeds are of the best varieties and are specially for our patrons.

COLLECTION A.

10 Packets Vegeta 1 Packet Beet 1 " Carrot 1 " Cucumber 1 " Lettuce 1 " Outon	Price, 50c.	
I Packet Beet	1 Packet	Parsnip
1 " Carrot	1	Cabbage
1 " Cucumber	1 "	Radish
1 " Lettuce	1 "	Squash
1 " Onion	1 "	Tomato

Given for one new yearly subscriber at \$1.

COLLECTION B.

	10 P	ackets l	Flower	s.	Price,	50c
1	Packet	Phlox Dru	mmondi1	Packet	Pansy	
1	••	Stocks	1	••	Nasturi	ium
١	**	Detunia	1	**	Dianth	

1 " Balsam 1 " Aster Portulacea Mignonette

Given for one new yearly subscriber at \$1,

COLLECTION C.

20 Packets Vegetables and Flowers. Price, \$1.00.

Packet	Aster	1	Packet	Squash
**	Pansy	1	**	Watermelon
**	Stocks	1	**	Musk Melon
**	Balsam	1	**	Lettuce
**	Phlox	1	**	Celery
•	Sweet Peas	1	**	Carrot
**	Cauliflower	1	**	Beet
**	Cuoumber	1	**	Radish
**	Onion	1	**	Tomato
**	Cabbage	1	. "	Vine Peach

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

COLLECTION D.

20 Packets Vegetables. Price, \$1.

Packet	Beet	1	Packet	Carrot
**	Parsnip	2	••	Cabbage
lb. "	Cucumber	1	**	Lettuce
••	Musk Meion	1	**	Watermelon
**	Citron	1	**	Onion
••	Radish	1	**	Squash
**	Tomato	1	••	Vine Peach
**	Parsley	1	**	S. Savory
**	Sage	1	••	Thyme

Given for two new yearly subscribers at \$1 each



Seed Grains

BARLEY

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

OATS

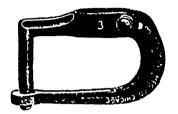
For one new yearly subscriber at \$1, and 18 cents added to pay for bag, we will give one bushel of Siberian White Oats.

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

FREE SEEDS Other Premiums

LOCK PIN CLEVIS

The most complete instrument made.



A full est given for one new yearly subscriber at \$1.00

THE ANTI-RATTLER COUPLING

Prevents rattling or sound.

Given for one new yearly subscriber at \$1.00

SHEEP

Sixteen labels with number and

complete



Given for one new yearly subscriber at \$1.00

MILKING TURES.

Most useful instrument made.

Given for one new yearly subscriber at \$1.00.

THE APOLLO HARP

A Musical Wonder

Apollo Harp, No. 4; renders 4 chords, valued at \$4, given for 5 new yearly subscribers at \$1 each

Apollo Harp, No. 27; renders 27 chords, valued a \$8 50, given for 10 new yearly subscribers at \$1 each.

If you cannot secure the required number we will take part cash and balance in new

BARCOCK MILK TESTER

Every farmer who keeps cows should have one. Four Bottle Machine, price \$5, given for 7 new early subscribers at \$1 each.

Six Bottle Machine, price \$6, given for 8 new yearly subscribers at \$1 each.

EGGS FOR HATCHING

One setting of 13 eggs of either of the following varieties: 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.

FEEDS AND FEEDING, by W. A. Henry, Dean of the College of Agriculture, etc., of the University of Wisconsin. The latest, the best, and most comprehensive work on animal nutrition ever issued. Price \$2.00. 637 pages. For three new yearly subscribers at \$1.00 each.

THE CONCISE IMPERIAL DICTIONARY. The favorite for all classes of readers. Authorized for use in the schools of Ontario. Price \$2.00. For three new yearly subscribers at \$1.00 each.

BLACKIE'S MODERN CYCLOPEDIA, in eight volumes. One of the very best standard British books of reference. Up-to-date accurate and authoritative. A magnificent work. Price, handsomely hound in cloth, \$18.00. Given for twenty new yearly subscribers at \$1.00 each.

This is your Opportunity

Make an effort and we are sure you will succeed in securing some of these valuable premiums.

· Address, 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 Pees:-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 Breeders' Association this includes a copy of the Swine Record.

A member of the Swine Breeders' Association is allowed to register pigs at 500, per head; non-members are charged \$1.00.

A member of the Sheep Breeders' Association is allowed to register sheep at 500, per head, while non-members are charged \$1.00.

The name and address of each member, and the stock he has for sale, are published once a month. Over 20,000 copies of this directory are mailed monthly. Copies are sent to each Agricultural College and each Experiment Station in Canada and the United States, also to prominent breeders and probable buyers resident in Canada, the United States and elsewhere.

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

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

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

THE DOMINION CATTLE BREEDERS' ASSOCIATION.

Shorthorns.

Arnold, H. G. & Son Maidstone	6 bulls, 8 to 15 months; a 'ew heifer'.
Bonnycastle, F & SonsCampbell ord	Cows; heifers; heifer calves, and bull calves.
Bowman, W. R Mount Fo est	3 bull calves, 5 months to 1 year.
Campbell, J Woodville:	a bull calves.
Cooper, J. V Picton	Bull, 2 years; yearling bull.
Fairbairn, H. KThedford	Cows, bulls, and heifers, all ages.
Fried, J. & Sons Roseville	2 bulls, 2 years; 2 bulls, 12 and 13 months; 3 bulls, 6
arrange to come and accommon a	to 8 months; a few cows and beifers.
Gorwill, S. B Fanshawe	Yearling bull; heifer calves,
Jeffs, E. & Sons Bond Head	3 young bulls; 6 heifers, (3 yearlings; three 2 years).
Linton, Wm Aurora, Ont	
	3 bulls, 134 years.
Miller, RBrougham	4 young bulls; 10 heifers.
Scott, F. W Highgate	2 bull calves, 8 and 12 months; yearling heifer.
Shaw, A. J. C Thamesville	4 bulls; 2 cows; 4 heifers.
Sibbald, F. CSutton West	43 cows; to heifers; 8 yearling heifers; 2 yearling bulls; 22 bull and heifer calves.
Simmons, C. Mlvan	50 head, both sexes.
Smith, H. & W Hay	4 young bulls; 6 heifers.
Smith, J. S Maple Lodge	3 young bulls; 6 young cows and heifers.
Stone, F. W. EstateGuelph	Bull, 2 years.
Ayral	
Brooks, T. & SonsBrantford	A heifers, 6 to 18 months; a buil calves, 4 weeks to 4
	nionths.
Caldwell Bros Orchard	4 hulls a to to months

Caldwell BrosOrchardClark, J. GOttawaGuy, F. TBowmanville	2 bull calves. Bull, 9 months; bull, 2 years; young calves both
Reid, R. & Co Hintonburg	2 bulls, 1 and 3 years; 2 bull calves.

Polled Angus. owman, James......Guelph...... Females, all ages.

Murrison, JWest Lorne Sharp, JamesRockside	Cew; bull calf.
Varcoe, JCarlow	4 bulls, 11 to 13 months; 10 females, all ages.

Holstein4.

Attrill, Mrs. H. Hallman, A.C.	Saltford New Dundee		Bull, 3 years; 2 yearling heifers; heifer calves. 3 bull, 9, 11 and 18 months; heifer, 2 years; 2 calves,
Hoover, A., jr	Emery	• . • • • • • • • • • • • • • • • • • •	Bull. 7 months; heifer, 7 months; heifer, 2 years.

Herefords.

	101 CB.
Smith, H. D Compton, Que Stone, F. W. EstateGuelph	Calves. Bull calf, 8 months; 2 bulls, 2 and 3 years.
Jers	
Bull, B. H. & Son Brampton, Ont Caldwell Bros Orchard	4 cows; 8 heifers and heifer calves; 9 young but Bull, 10 months.

Latsch, G. Freeport. 2 bull calves, 3 and 4 months. O'Brien, J. London West. 3 bulls.

		Guern	
Caldwell	BrosOrchard		Bull, 11 months.

THE DOMINION SHEEP BREEDERS' ASSOCIATION.

Southdowns.

Jackson, J. & Sons Abingdon	Set of Show Sheep.
Shopland, J. S	2 rams, 1 and 2 years; 2 lambs; ewes.
Sinte, w. M. & J. C Fairnete Fains	Mam.

Shropshires

Campbell, J	4 rams; 10 ewe lambs; ram lambs.
Ganton, D. G Elmyale	a same: a shearling ewes; acced ewe and young ewe.
Hanmer Bros Mt. Vernon, Ont	20 ram lambs; 19 ewe lambs; a few ewes.
Miller, R Brougham	100 yearling rams; 60 yearling ewes.
Yuill, J. & Sons Carleton Place	Stock, all ages, both sexes.

ruili, J. & Sons Carleton Place	····· Stock, all ages, both sexes.	
Dorset Horns		
Bowman, I	2 ram lambs.	

Harding, R. H......Thoredale........ Stock all ages.

Birdsall, F. & Son Birdsall.	Imported ram.
	Merinos.
Smith, W. M. & J. C Fairfield	Plains Rams and Ewes.

Leicesters.

COLEY	
Bonnycastle, F & SonCampbellford	Yearling ram; ewes and ewe lambs

THE DOMINION SWINE BREEDERS' ASSOCIATION.

Berksbires.

nerwenter.		
Bailey, H. C Cookshire, Que	Boar, 6 months; boar, 3 years; sow, 6 months; sow, 2 years; 7 pigs, 4 weeks, both sexes.	
Bonnycastle, F. & Sons Campbellford		
Bowman, W. R Mt. Forest	Stock, all ages.	
Bow Park Co Brantford	100 head under 4 months; 2 aged boars.	
	Pigs, 3 and 4 months.	
Hurgess, Mrs. R. L. & Son. Burgessville		
Bull, B. H. & Son Brampton, Ont	25 young pigs.	
Camp bell, M Northwood. Collyer F. J. Wellwin, Assa	Coung stock, both sexes.	
Collyer F. J Wellwin, Asea	Sow, 2 years; 2 sows, 2 months; boar, 2 months.	
Davis, H. J	3 boars, 2 to 5 months; 4 sows, 2 to 5 months.	
Decker, C. R	43 head, all ages.	
Gibson, D. J Bowmanville	4 sows, 3 months.	
Gosney, I Miami, Man	Boar, a years, active as a kitten.	
Gibson, D. J Bowmanville Gosney, I Miami, Man Hallman, A. C New Dundee	Boar, 18 months.	
Hart, A	A few pigs.	
Jeffs, E. & Sons Bond Head	6 sows and 4 here, 6 months, young pigs.	
King, Wm	Boar, to months, boar, 6 months; 2 sows, 6 months	
temps with a contract of the c	young pigs.	
Kitching, JCorwhin	Pics, 2 months.	
Latimer	2 SOW 5.	
Martin E E Couning	2 sows. 3 boars, 9, 12, and 14 months; 2 sows, 9 months; 5	
	sows, 4 to 5 mor. hs; young pigs.	
Murray, G. H	months.	
Neil, F. H Lucan	Boar, 10 months.	
Patch, F. H Brome, Oue	young boars; 10 young sows.	
Patterson, W Churchill	young boars; 10 young sows. 4 sows, 5 months; 2 sows and 3 hoars, 4 months; 4	
	sows and 4 boars, 6 weeks; young stock.	
Russell, J. A Precious Corners	Boar, 3 years, boar, 1 year; boar, 7 months; 2 sows,	
-	7 months	
Semple, J. R Brule, N.S	1 boar, 21/2 years; 1 boar and 1 sow, 6 months; 8	
	young pigs.	
Ma		

Tamworths.

Blain, N. MSt. George	a boars; boars and sows, 3 months and under.	
Brandow, A. WWalshingham Centre	Young pigs, both sexes.	
Bell, J Amber	7 boars, 6 months; 15 sows, 5, 7, and 9 months; 40	
	head, 4 to 6 weeks.	
Brooks, T. & Sons Brantford	12 young pigs.	
Brown, Wm Paisley	Sow, 11 months; 3 boars, 3 months; 2 sows, 3 months.	
Caldwell Bros Orchard	11 boars, 3, 4, and 7 months; 3 sows; young pigs.	
Carter, E Bayham, Ont		
George, T Mt. Elgin	both sexes.	
Gibson, D. J Bowmanville	Boar, 18 months.	
Hallman A C New Dundee	5 boars, 5 months; 3 boars, 4 months; 6 pige, 6 weeks;	
Hallman, A. C Mitter Dance III II.	12 sows, 4 months.	
Laurie, R. J. & AWolverton	Boars, 4 months: young pigs.	
Maine W Whitevale	7 sows, 5 months; boar, 5 months; 2 sows, 3 months.	
Nichol, J. C	Done and some a months	
Charles 7 U Charles	Vanna strale hash saves 6 to to weeks	
Simonton, J. H Chatham	toung stock, both sexes, o to to weeks.	
Smith, H. D	Spring pigs.	
Yorkshires,		

Bowman, W. R	Stock all ages
Downson, N. A	Disa and months
Burgess, Mrs. R. L. & Son. Hurgessville	
Clark, J. G Ottawa	Spring pigs, both sexes.
Collyer, F. J Wellwin, Assa	Boar, 2 years; sow, 2 years; 6 sows, 4 months.
Davis, C. G Freeman	6 sows, 4 months; boar,
Davis, H. J	5 boars, 3 to 5 months; 5 sows, 3 to 5 month boars and sows, 6 weeks.
Howe, W North Bruce	Pigs, 2 months, both sexes.
Johnstone, J Little Rideau	
Little, T., jr Kirkwall	Sows, 7 to 8 months,
Mayloney, F. A	4 boars and 6 sows, 6 months; 2 boars and 3 so months.
Potter, A. B Montgomery, Assa	3 bcars : 7 sows.
Russell, J. A Precious Corners	Sow. 6 weeks.
Wilson, W. C East Oro	a come and a honer careake
Tribuit, Tr. C	A JOHN BILL & COREST & MCCRN
Wilson, Mrs. A. J Pittsfield, Ohio	4 pigs, 4 months; 3 boars; 1 sow.

Poland-Chinas.

Bennett, J South Buxton Herron, H. Avon	Imported boar. 2 boars, 6 and 9 months; 2 sows, under 2 year; 4 50ws, 6 months.
McKay, J. F Parkhill	2 boars, 18 months and 3 years; aged sow; stock both sexes, 6 months.
Smith, W. M. & J. C Fairfield Plains Stirtzinger, F. H Fenwick	Sows, all ages. 2 aged hoars; 1 aged sow, 1 sow, 1 year; pigs, both sexes, 2 months.
Webster, R. A Andrewsville	months.
Wright, C. J Dixville, Que	Boar, 2 years; sow, 2 years; 2 sows, 3 months; young pigs.

Chester	Whites.	
Bennett, G. & PardoCharing Cross	4 sows; 2 boars, 8 months; young stock, 2 to 5 months, both sexes.	
Brooks, T. & Sons Brantford	Boars and sows, to weeks to 5 months.	
Brown, W Paisley		
Campbell, M Northwood		
Clark, J. B Blenheim		
Harding, R. H Thorndale	Stock all ages.	
Herron, H Avon	Boar, 2 years; sow, 3 years; to pigs, under 1 month.	
Neil, F. H . Lucan	Boar, 8 months; 3 boars, 5 months; 5 sows, 5 months.	
Dungo, Jangawa		

ANOTHER CAR FOR THE WEST.

Another load of live stock will leave for the West about the 20th. Parties mediately with F. W. Hodson,

Parliament Buildings,

skill in the management if a return in the form of heavy fruitage is expected.

A few standard varieties of apples. wishing to send stock to Manitoba and well grown and prepared for market, the Northwest should correspond im. will make a ferm's reputation, while, if there be a score of kinds, there will not be enough of any one to establish Toronto. a name. It is wise even for the farmers of a certain region to make a re-The grape is probably more easily putation for a few standard things, grown than almost anything else in suited to climate and locality, and their horticulture, but it requires care and fame will come.

MARKET REVIEW AND FORECAST.

Office of FARMING.

44 and 46 Richmond street W., Toronto. March 14th, 1898.

General trade is usually quiet the week alter the millinery openings, but this year it has been active, with a good demand. Preparations are being made in all lines for an extensive trade. The grain markets have been fairly steady, and prices have not changed much. The violent fluctuations of the stock markets on account of war scares have occupied the attention of speculators, and the grain markets have been more or less neglected.

Wheat. General trade is usually quiet the week

Chicago continues to be the centre to which all eyes are turned. There the market continues about five cents higher than other markets on the scaboard, with the result that wheat is moving wer to it instead of going to the scaboard. The continued high price of the scaloard. The continued high price of wheat is causing an increased consumption of substitute products. Stocks of wheat in Europe are not large, and the millers are liv-ing on a hand to mouth principle, but the quantity of wheat on the ocean will more than quantity of wheat on the ocean will more than meet all immediate demands, and every day brings them nearer the next year's crop. Threshing is progressing rapidly in Argentina, a large crop is looked for, and since January nearly seven million bushels of wheat have been shipped to European markets. India wheat will soon begin to move, too, so that buvers in Europe are inclined to huy just as wheat win soon tegin to move, too, so that buyers in Europe are inclined to buy just as little as possible of Leiter's high-priced wheat. The winter wheat all over the United States is looking well, according to reports. The seeding of oats has progressed as far northward as the northern parts of Kansas. In the south of England the mild weather has caused such a rapid growth of wheat that in many cases sheep have been turned on the wheat fields to

sheep have been turned on the wheat neits to keep down the growth.

The lorger the remaining wheat still in the country is withheld from the market chan-nels the more likely it will be to affect values when it comes on the market, probably with a

The market for wheat at Toronto is dull, The market for wheat at Toronto is dull, and somewhat easier than it was last week. The offerings are large at about \$4c, for red winter wheat west. Manitoha wheat, however, continues to hold its own, and is steady at \$1.19\frac{1}{2}\$ at North Hay for No. 1 hard, and \$1.06\frac{1}{2}\$ at Sarnia. The cut in freight rates to the seaboard has raised the price of wheat in Manitoha and has had the opposite effect in the east.

Barley and Oats.

Barley and Oats.

There has been no change in the harrey market, 42c. for No. 2: 38c. to 39c for No. 3 extra, and feed at 35c. to 36c. outside. At Montreal feed latley is quoted at 40c. to 42c., and mailting grades at 48c. to 53c.

Oats are quiet at about 30c. to 31c. north and west. The receipts at Montreal have been quite large, but there seems to be some difference of opinion between buyers and sellers. About 20,000 bushels were offered at 34c but refused. Several lots out of store have been soli at 34c.

and Core

The market for peas continues steady at 36c. to 57c. for cars north and west, and 38c.

Corn is steady at 31c. for Canada yellow est. American corn is worth 37c. at Toronto.

Suchaheat and Rye.

Buckwheat continues steady at 26c, west. Montreal prices are the same as those given last week

There has been no change in the market for rye fit is steady at 51c. to 52c. for cars north and west. At Montreal it is worth from 61åc. to 62åc.

Bran is scarce and in good demand. \$12.50 per ton in car lots west seems to be the ruling price. \$14.50 per ton for car lots west is asked for shorts.

assers on shorts.

At Montreal Ontario bran is quoted at \$14 to \$14.50 per ton in bulk, and shorts at \$16.

Manitolia bran is quoted at \$15, and shorts at \$17.

Timethy and Clever Seed.

Red clover seed is quoted at \$3.50 to \$3.80, alsike at \$3.25 to \$4, and timothy seed at \$1.25 to \$1.35.

At Montreal red clover is quoted at \$3.25 to \$4; alsike at \$3.50 to \$4.25; and timothy at \$1.50 to \$2.

Potatoes.

Potatoes are quiet. Cars on the track are quoted at 58c. to 60c. It is reported that lately a car sold for 59c. Out of store they sell at from 65c. to 70c.

Poultry.

The offerings are somewhat small, especially of fresh stock. There is a fair demand and the market rules fairly steady at from 12c. to 12½c. for turkeys, and from 50c. to 65c. for

The mild weather has presented more favor-The mild weather has presented more favorable conditions for the production of eggs. Consequently the receipts of new laid eggs have been very much latger and prices have steadily fallen. They have dropped during the week to 12½c. to 13c. per dozen in case lots for new laid eggs. Somewhat higher prices are obtainable on Toronto market and for guaranteed fresh stock. Prices have receded at Montreal in proportion to the drop at Toronto.

Cattle

On account of somewhat light offerings prices were a little stiffer at the cattle market on Tuesday, but on Friday the receipts were considerably heavier and there was a somewhat

considerably heavier and there was a somewhat weaker feeling in most lines.

Export cattle go dow, good steers bring up to 4¢c. On Tuesday's market one lot of extra stuff brought \$4 30 per cwt. Poorer stuff run down to 3½c. Bulls bring 3½c. to 3¾c. At Montreal good export steers bring from 4c.

Butchers' cattle are coming forward in large Butteners cattle are coming forward in large numbers. Good to choice cattle bring from 3½c. to 3½c. per lb. Animals of poorer quality only bring 3c., and poor cattle bring less than this. On Friday quite a number of poor animals were not sold.

Stockers and feeders. On Friday's market about half the stock was of this description.

Trade was brisk, there being a good demand from Buffalo at prices that made this class of from Iluffalo at prices that made this class of stock really more profitable than export stuff. Light stockers bring from 22c. to 34c. per lb. Feeders bring from \$3.20 to \$3.60 per cwt. Heavy feeders bring up to \$3.90 per cwt. Choice veals are in good demand but poor ones are not wanted. Milch cows and spring-ers bring from \$22 to \$47.

Sheep.

Sheep and lambs continue to bring good prices. Butchers' sheep bring from 3c. to 3½c. Bucks bring from 2½c. to 3½c, per pound. Lambs bring from 5c. to 5½c, odd choice ones running up a little higher.

Hogs.

The offerings of hogs are very large. They are not of the right character, however. While of about the right weight, they are too fat. The pigs have been forced along too fast on fattening foods rather than on more growing ones. The result is a cut in prices, choice lacon hogs being sold at 5c. to 5½c., but it is difficult to get the latter figure. Light hogs bring 4½c. Thick fat hogs ½c. Thiese for next week are expected to be low..., on a basis of about \$4.90 for choice selections.

Dressed Hogs

Receipts are not large, the demand is slow, and the market weak and lower at from about \$5.90 to \$6.15 per cwt. At Montreal prices also are weaker.

There does not appear to be very much change in the cheese situation though there is a little more activity on this side. If there is any change it is not in favor of the producer. A month or two ago it was expected that with the greatly increased consumptive demand the large stocks of cheese on hand would have largely disappeared before the new goods came in. Just now the situation is not so hopeful, and large quantities of stock continue to loom up from almost unexpected sources. However, there is a couple of months yet hefore the new season really sets in, and the situation many greatly improve before that time, and if the factorymen agree not to open the factories till well on in May prices may he better for next season's goods than the condition of the market at present would warrant. Sales have been made during the week at from 7%c. to 8 cents.

The creamery butter situation has greatly improved during the past ten days. There seems to be a scarcity of fine fresh creamery butter, which together with the increased gxport demand have strengtheed the market considerably. Prices in Montreal during the week ranged from 19%c. 10 20 cents for fine

fresh creamery, and stored stuff brought as high as 19 cents. The demand for creamery butter for the local trade has also improved, butter for the local trade has also improved, and there has been considerable rivalry of late to secure supplies for the export and local trades. The butter situation is, therefore, bright and the prospect good. This condition of affairs should induce the dairymen to make butter in the factories till about the middle of Var and the sales climate the about the rivale.

May and thereby relieve the cheese situation.

At Toronto the receipts of dairy butter continue to be modurate. There is a good div tinue to be moderate. There is a good demand and prices are firm at 16½c. to 17½c. for large rolls, 18c. for choice dairy tubs, and 15 cents for medium tubs. At Montreal the prices for dairy are about one cent per lb, lower than at Toronto.

During bright days give all the whifile-trees a good coat of paint. The plows, the roller, and other implements will last longer and look better if they, too, had a coat of paint.

If the grain was very smutty last season, make preparations to treat it with bluestone, or try the hot water treatment. There is no money in growing smut.

Trees and Vines become hardier, and their products better colored and better flavored when liberally treated with fertilizers containing at least 10% actual

Potash.

FREE An illustrated book which tells what Potash is, and how it should be used, is sent free to all applicants. Send your address.

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

The Waterloo _Food Boiler



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

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

The Waterloo Food Botter is the simplest, cheapest, most convenient, and most econolin in the market. Every farmer should have one.

Price \$25, Delivered at Your Station.

WATERLOO MANUFACTURING CO. LIMITED

Waterloo, - Ontario.





MCLAUGHLIN CARRIAGES ARE GOOD CARRIAGES

--

THEY'RE PURFECTLY NOISELESS 9 THEY WEAR LIKE IRON

83 Varieties, but "One Grade only, and th Y WEAR LIKE IRON 6 All our designs are right up-to-de
We have been making carriages for
We are very josious of our reputati

"You can make no mistake in buying a McLAUGHLIN CARRIAGE" Agencies at all important centres.

THE McLAUGHLIN CARRIAGE CO. OSHAWA, ONT.





Metal Roofing.







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 cooling look pretty, are fire and lightning proof, and will

> Samples and Prices sent free upon application.

Metal Shingle and Siding Company Limited

PRESTON, ONTARIO

WANTED

A DARYMAN to take charge of the Dairy de-

steam separator and make gilt edged butter.

A CATILEMAN to take charge of a berd of thoroughly understands the breeding of and caving for dairy cattle.

A VEGETABLE GANDENER Competent man; none but clean, tidy and trustworthy men need apply. References as to character and ability must accompany applications. A VEGETABLE GARDENER A

THE BOW PARK CO., LIMITED BRANTFORD, ONT.

Italian and Hybrids—best Queens Wax
All Bee Supplies—best quality
Wanted
Yesd Patent Process
Foundation.
Foundation.
Lintted, Brantford, Can.

West's fluid NON POISONOUS

NON-POISONOUS

CHEAPEST and More Effective. Sheep Dip, Caule
Wath and Perventive Forl Hog Unblorns. Universally used for the destriction of Tieles, Lice, Fleat,
Mange, and all interest your Steep, Horries, Cattle,
Figs. Dogs. Chickens, etc. Pater: St. 50 per gallon;
Sgallons Soo. One gallon makes 75 gallons for dipping Sheep. Agents Wanded in all Connites.
The WEBT: OHEMICAL. CO.,
15 Queen Succet East, Tokonoro.

Walter Hall,



WALTER HALL, Washington, Ont

Ask for

Eddy's

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

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

"FARMING"

44-46 RICHMOND ST. W., TORONTO

FARMING

52 numbers for Less than a cts a number

You get The Best Thoughts Of Clever Men

When you read

The Globe

regularly.

The Dally Clobs will be sent to any address in CanAn eminent British scientir said, alterirading the elitorials and editorial comments in The Globe for several weeks while visiting the elitorials and editorial comments in The Globe for several weeks while visiting the editorial said of the county, that they were markenpasses of Eastern the said of the county, that they were markenpasses and the county of the control of the county of said of the county of the county of said of the county of said of the county of said of the county of the c

Ask your Local Newsdorfer or Postmaster THE GLOBE, Toronto

-The Leading Wagon in Canada



The Speight Ontario Farm Wagon.

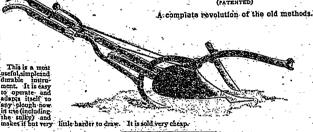
LIGHTNESS. in weight compared to any other circuit of causal stringth, and we have a reputation for excellence of workmankip, 1) UIABILITY, and material not equalled in the Dominion in our line, and it
is our aim that the excellence of our productions shall not only be maintained but advanced to a still
higher standard. Write us. We lumic correspondence and on application will be pleased to give full
descriptions, with catalogue and prices.

THE SPEIGHT WAGON COMPANY,

T. H: SPEIGHT, Manager, 102 Front Street East, TORONTO.

MARKHAM, ONT

Something New in Agriculture is VESSOT'S



THE VESSOT IMPROVED GEAIN GRINDER LEADS

S. Vessot & Co., Mandalina Joliette, Que,

FLEMING'S LUMP JAW GURE

Is sold under a positive

gunrantee to

cure, or

money is.

refunded



DEAR SIR. SHOAT LAKE, MAN., 1508
In 16gard to our experience with your Law, aw Care, we used it on seven lumps last season twicked all right. Some of the lumps had broker and run several times before using it.

PRICE, \$2.00, sent by mail

FLEXINGBROS., Chimists, ST. GEORGE, OUT.

PF 2,000 Teach Cream Separators

This is the size of one single order given for

MELOTTE HAND SEPARATORS

Do not buy without writing about the Melotte point

Essiert Driving Highest Capacity High-Class Construction CAPACITIES, 380 to 850 lbs. PRICES, - \$100 to \$185.

R. A. LISTER & CO., Limited Dairy Machinery Supplies, 18 ST. HAURICE ST., MONTHEAL,

in these hard times isthere 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.

hand spring street

exceeding the second se

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

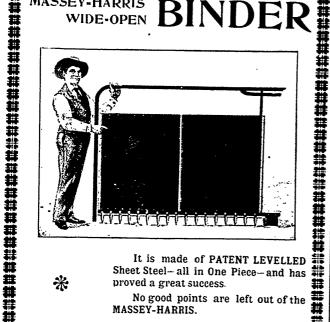
TOLTON BROS., GUELPH, ONT. **괖**釶釶鲶衉蟾畭騇餢餢觹貀錦鎼牛膭龣椺椺艁膌馡郼羊

SEE THE

STEEL BOTTOM

ON THE

MASSEY-HARRIS WIDE-OPEN BINDER



Sheet Steel- all in One Piece- and has proved a great success It is made of PATENT LEVELLED

No good points are left out of the MASSEY-HARRIS.

STATEMENT showing progressive consumption of... THOMAS - PHOSPHATE POWDER

1883	ions
1884	**
1885 - 2.5000	••
1886 . 12,000	••
1587 65,000	**
1888 130,000	44
1880 240,000	••
1500 400,000	44
1801 - 440 coc	••
1892 . 530,000	4.
1893	
1801	•-
1895 - 920,000	4.
1896	44
1897 1 920,000	••

WALLACE & FRASER

ST. JOHN, N.B.

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

FRUIT AND

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

Are going to get them.

Will it not be latter to send direct to an old reliable nursery and be sure of getting the varience you want, free from San Jose Scale and diseases, than to key of traveling agents who import tree-often inferted with these pests, and that you have necestianty of being what you want oil they bear, and paying higher poices besieve? Send for my catalogue, or send a late of your wants and see what I can do for you. Address,

A. M. SMITH

Dominion Nursenes. St. Catharines. Ont.

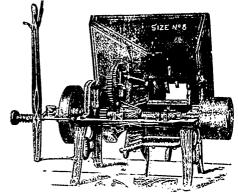
Our Stock is as Good as the Best

Having an unusually large stock of trees, vines, suches and plants, both truit and ornamental, of our own growing, we are compelled to extend our trade, which loss hitherto been thrift confined to the Niagara District. Having no agents, we have no lancy prices to protect, and so offer at very low states to be in touch with the time. Truce list free on application.

Dealer, and Johers' orders packed with care and onlyatched theap r than clawbrite. Stock guaranteed free from San Jone Scale. Let us price your wants. We guarantee satisfaction. All Canadiategrown stock.

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

NEW GRINDER



Our combined Grain and Corn Grinder has comeal grinding plates as hard as steel, as shown in cut. Top of hopper is 3 feet from the floor. We can also supply suitable elevator.

We manufacture also TREAD POWERS, THRESHERS, FEED CUTTERS, HAY PRESSES, CIRCULAR SAW MACHINES, etc., etc.

MATTHEW MOODY & SONS, TERREBONNE

OUE.

LITTLE GIANT" CRINDING MILL One of the best



One of the best and cheapest mills in the mar-ket, possessing qualities which no other mill of its kind has. We also make

mills to grind corn and ceb in the ear, and windmills reared to wood or steel. Also pumping

Send for circulars and prices.

J. A. McMARTIN & CO... 4 St. George St., Montreal

Toronto Engraving Co. BAY STREET, TORONTO, ONT.

= Live Stock = Engraving and Photographing

A Specialty

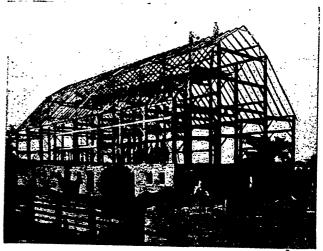
For Newspapers, Magazines, Advertisements, Catalogues and Circulars supplied on short notice.

THEThorold

High in Quality Low in Price

56 Years in use

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



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

Has been tested in every capacity. Most perfect Cement made. For full particulars address

ESTATE OF JOHN BATTLE,

THOROLD, ONTARIO.