NTO,

# GS.

AND

PUBLISHED AT

Vol. XXXVIII. LONDON, ONTARIO. FEBRUARY 16, 1903. WINNIPEG, MANITOBA.

No. 568

LAST LONGEST AND YIELD BEST RESULTS BECAUSE THEY ARE

> NEW ORGAN FOR HOME USE IS THE

MADE FROM BEST MA-

TERIALS, IN THE MOST CAREFUL MANNER. . .

ANYONE CAN PLAY IT WITHOUT STUDYING MUSIC.

GUELPH, ONTARIO. CATALOGUE No. 40 FREE ON REQUEST.

and relieves him from anxiety about the future, and more especially if the money is on deposit with a SOUND CANADIAN CHARTERED BANK, whence it can readily be withdrawn without trouble, delay or "red tape."
A SPECIAL SAVINGS DEPART-MENT is open at every branch of

# The Sovereign Bank of Canada

where interest is allowed on deposits of \$1 and upwards.

HEAD OFFICE: TORONTO. CHIEF EXECUTIVE OFFICE:

Branches at: Amherstburg, Ont.; Clinton, Ont.; Crediton, Ont.; Exeter, Ont.; Milverton, Ont.; Montreal, Que.; Mount Albert, Ont.; Newmarket, Ont.; Ottawa, Ont.; Perth, Ont.; St. Catharines, Ont.; Stirling, Ont.; Stouffville, Ont.; Sutton, Que.; Toronto, Ont.; Unionville, Ont.; Waterloo, Que.; Havelock, O

-RAY AND ELECTROTHERAPEUTIC ROOMS, For the treatment of Cancer, Eczema, Scialica, Rheuma-tism, Tuberculosis and

Neuralgia. BR. PINGEL, SPECIALIST, LONDON.

## CONTENTS OF THIS NUMBER.

EDITORIAL.		PAGE.
RAILWAY REGULATION AND THE FARMER		153
THE VETERINAY STATUS		154
RAILWAY TAXATION; THE LIVE STOCK OUTLOOK		154
IDean Teams are a series of the series of th		155
7.6 - 7.17		155
Over Commons I was		155
		199
STOCK,-CANADA'S BEEF IN GREAT BRITAIN		156
A STRONG BACK (ILLUSTRATION)		156
A USEFUL TYPE (ILLUSTRATION)		156
A Transconding To	_	156
SIX BUSHELS A DAY; WHEN PIGS SHOULD BE MARKETED		157
SUBSTITUTE FOR MILK IN FEEDING CALVES		157
Yr-mann (manner)		157
Mary Prove Mary Office (as a second of the second	4.4	
C. DE DOD BOOK FOR DOOR OF THE PARTY OF THE		157
WE AND AND THE EWES; THE RANGE STEER	100	158
		163
MR. H. BOLLERT, CASSEL, ONT. (PORTRAIT)		161
		164
		160
MR. R. H. HARDING, THORNDALE (PORTRAIT)		161
HORSES,-THE SPRING STALLION SHOW		1.50
3.6 377 33 377		158
CORONATION, IMP., [354] (ILLUSTRATION)		158
NEW BOOK FOR HORSEMEN		
MR. THOMAS A. GRAHAM, CLAREMONT (PORTRAIT)		159
Bone Diseases of Horses' Legs		159
STATELY CITY [1362] (10466) (ILLUSTRATION)		159
Woodroffe Plowboy [2296] (ILLUSTRATION)		160
THE PERCHERON STALLION AURORE 29884 (45733) (ILLUSTRATI	ON).	161
FARM.—A WOMEN'S COLLEGE; HULLESS BARLEY		200
77 78 78 77 77		
	4.00	161
		161
		162
Dr. J. Orlando Orr (portrait)		162
DAIRYDAIRYMEN'S MEETING AT STRATHROY		162
PAYING BY TEST		162
WHO KNOWS?; COLD STORAGE ROOMS.	10.00	
NEW BRUNSWICK DAIRY SCHOOL		163
HAND SEPARATORS VS. CREAMERIES		163 163
The state of the s		2.111

POULTRY.-Make the Poultry Pay; Buy a Good Male .. .. 164 QUESTIONS AND ANSWERS. VETERINARY: MAMMITIS; INDUCING (ESTRUM IN COWS; VARIOUS AILMENTS; MUD FEVER; UNTHRIFTY MARE; LAME HORSE; ABORTION... MISCELLANEOUS: RESERVOIR ON BOILER; BALANCING A RATION 165 NOTES AND NEWS. THREE LEADING LIVE STOCK AUCTIONEERS (PORTRAITS).. .. 166

GARDEN AND ORCHARD, -- PLANTS IN CELLAR; SPRAYING .. .. 161

TORONTO MARKETS
CHICAGO MARKETS
BUFFALO MARKETS
BRITISH CATTLE MARKETS
MONTREAL MARKETS 

PUBLISHED TWICE A MONTH AT LONDON AND WINNIPEG, CAN.

**ULRICH'S** 

Mammoth White Giant Prolific Yellow Dent Improved Learning Also Feeding Corn.

# E. R. ULRICH & SONS,

Main Office: SPRINGFIELD, ILL.

Ask your dealer for ULRICH'S seed corn.

# Perpetual Motion.

When George Stephenson was asked, "Do you believe in perpetual motion?" he replied, "Yes, if you lift yourself by the waist-band of the trousers, and carry yourself three times round the room.

Just so, and a woman would just as soon believe that she has not to pay dearly for common premium soaps, in the low quality of soap, in ruined hands and clothes. She would be kept in perpetual motion trying to do with common soap what she could so easily do with Sunlight Soap—Octagon Bar. 216

COVER YOUR BARNS WITH

EASTLAKE

GALVANIZED OR PAINTED.

Because:

They are quicker laid than others.

Are casy to handle. ('an be applied by any handy man. Give perfect protection from light-

Are storm and rust proof. Will prevent fire and last indefi-nitely.

And yet they don't cost more than poorer kinds.

# The Metallic Roofing Co.

LIMITED, TORONTO, MONTREAL, WINNIPEG.

\_\_\_\_\_\_ PLEASE MENTION FARMER'S ADVOGATE,

# Kilis the Bugs. Feeds the Plant



Pat. in Canada Nov. 2, 1877, Jan. 25, 1900. NON-PSISONOUS. PREVENTS BLIGHT.

KILLS

Potato, Squash and Cucumber Bugs, Currant, Gooseberry and Tomato Worms. BUG DEATH is the best article on the market for spraying FRUIT TREES.

5-LB. PKG., 50c.; 121 LBS., \$1.00; 100-LB. KEG, \$7.00.

MANUFACTURED BY

Bug Death Chemical Co., Ltd., St. Stephen, N.B.

SEND FOR FREE BOOKLET.

# Kills the Bugs. Feeds the Plant.



NON-POISONOUS. PREVENTS BLIGHT.



Nothing as good.

Simple, durable, easy to turn and clean. Five different dairy sizes. WRITE FOR CIRCULARS AND INFORMATION.

AGENTS WANTED.

C. RICHARDSON & CO., P. O. Box 1048. - - St. Mary's. Ont

BOYS FOR FARM HELP. The Managers of Dr. Barnardo's Homes invite applications from farmers, or others, for the boys who are arriving periodically from England to be placed in this country. The young immigrants are mostly between 11 and 13 years of age; all will have passed through a period of training in Dr. Barnardo's English Institutions, and will have been carefully selected with a view to their moral and physical suitability for Canadian life. Full particulars as to the terms and conditions upon which the boys are placed may be obtained upon application to Mr. Alfred B. Owen, Agent Dr. Barnardo's Homes, 214 Farley Ave., Toronto.

For Camp, Cottage or Summer Home:

Perfection Wickless Blue Flame

1. 2. 3. 4 or 5 Burners and Oven.

Burns ordinary coal oil safely, economically and WITHOUT ODOR, Ask dealers.

Queen City Oil Company, Limited TORONTO. WHOLESALE.

WOODSTOCK

# WINDMILLS

Galvanized Painted. For Power

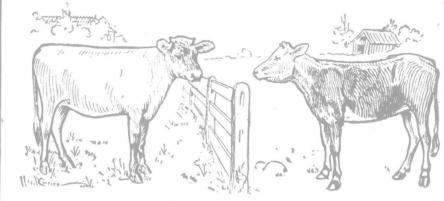
or Pumping.

with Graphite Bearings,

runs easy and controls itself in the storm. GRINDERS, PUMPS, WATER TANKS, DRINKING BASINS

AND SAW BENCHES.

WOODSTOCK WIND-MOTOR WOODSTOOK, ONT.



"My owner uses a U.S. Farm Separator and feeds me on the warm, sweet skimmilk."

"I wish my owner used one, but he does not, and I am fed cold, sour skimmilk, which accounts for my poor condition."

MORAL: If dairymen wish to raise healthy calves and also to get all the cream out of the milk,

# **BUY A U. S. SEPARATOR**

It holds the World's Record for Clean Skimming, and the skimmilk is in the best condition for feeding

For Canadian trade we transfer our Separators from Hamilton, Montreal, Sherbrooke and Quebec. Address all letters to Bellows Falls, Vt. Write for Illustrated Catalogues

VERMONT FARM MACHINE CO., Bellows Falls, Vt.

# ROOFING!

Mica Roofing on all your buildings.

IT IS CHEAPER THAN SHINGLES.

WATERPROOF, FIREPROOF.



USE MICA PAINT to repair leaky roofs.

Shingle, Iron or Tin Roofs painted with it will last twice as

long.

RAPIDLY TAKING THE PLACE OF SHINGLES.

Is put up in rolls of the square each, \$0 feet long by 32 inches wide, and costs only \$2.25, including nails, thus affording a light, durable, and inexpensive roofing, suitable for buildings of every description—especially flat roofs—and can be laid by any person of ordinary intelligence.

HAMILTON MICA ROOFING CO., 101 REBECCA ST., HAMILTON, ONT.

MANUFACTURED IN CANADA The best selling because the most satisfactory.

"American" Field Fences

For horses, cattle, sheep, and hogs. All styles and heights—20 inches to 58 inches high, with stays 12 inches or 6 inches apart.

"Ellwood" Field, Farm and Lawn Fences. Six styles. Heights, 18 inches to 58 inches.

If you can't get the celebrated AMERICAN and ELLWOOD fences from your dealer write to us and we will help you. The CANADIAN STEEL & WIRE CO.

(LIMITED),

HAMILTON, CANADA.

"AMERICAN" FENCE,

"ELLWOOD" FENCE.

Pat. in Canada Nov. 2, 1897, Jan. 25, 1900

British Columbia
Farms.

Mild climate, the best
dairying country in North
America. No blizzards.
No cyclones. No droughts.

mer frosts. No cloudbursts. The heaviest crops per acre in Canada, We make this statement without fear of contradiction. Cool nights and good water, The best price for all kinds of farm produce, THE CALIFORNIA OF CANADA, with land at one tent the price.

ne-tenth the price.
Write for farm pamphlet to THE SETTLERS' ASSOCIATION, BOX 540 VANCOUVER, B. C. Please refer to this paper.

For railroad, hay, live stock, dairy, coal and plat-For prices and particulars write or call on o

GEO. M. FOX,



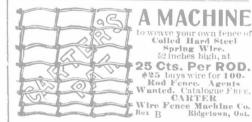
YORK STREET, LONDON, ONT.

ROCK SALT for horses and cattle, in ton and car lots. o Toronto Salt Works, Toronto.

# Farmers Contemplating Marriage, Those Already in Wedded Bliss,

should present their bride or family, as the case may be, with a BEAUTIFUL MASON & RISCH PIANO,

Liberal allowance made for old pianos and organs. Call and get our prices before buying. The Mason & Risch Piano Co., Ltd., 211 Dundas St., London



# Maple Syrup Evaporator.

Not a single feature of the "Champion" Evaporator could be dispensed with and leave a perfect Evaporator. Durability, rapidity, and high quality of product, with saving of fuel, are its features. Our sectional pan system makes it easy tures. Our sectional system makes it easy to handle, and everlasting. Write for catalogue, state number of trees you tap, and an estimate of your requirements will follow.

THE GRIMM MFG. CO., 84 WELLINGTON ST., - MONTREAL.

THE ARNOTT INSTITUTE, BERLIN, CANADA. For the treatment of all forms of SPEECH DEFECTS. Dr. W. J. Arnott, Superintendent. We treat the cause, not simply the habit, and therefore produce natural speech.

Write for particulars.

PLEASE MENTION FARMER'S ADVOCATE,



# A. E. AMES & CO.

BANKERS,

18 KING ST. EAST, TORONTO.

Members of the Toronto Stock Exchange.

# Investment Securities

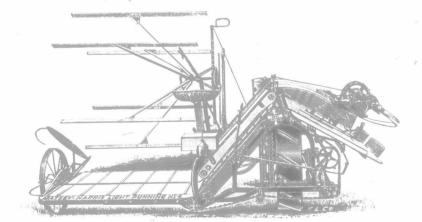
Specially selected for conservative investors, and netting from 3 1=2 to 6 3=4 per cent.

ALLOW 4 PER CENT. INTEREST ON DEPOSITS.

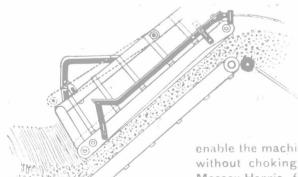
Issue Foreign and Domestic LETTERS OF CREDIT for the use of travellers, available in all parts of the world.

# Few Farmers Keep Poor Horseflesh!

Because it is unprofitable. For the same reason, buy good implements. It pays.



# THE MASSEY HARRIS BINDER



is without an equal for strength and wearing qualities. The

FLOATING ELEVATORS

enable the machine to handle all crops without choking. This is peculiarly a Massey-Harris feature.

When Buying a

Wagon

Ask your dealer for one manufactured by

PETROLEA WAGON

COMPANY,

They are perfect in design.
Unequalled in quality of material
and workmanship throughout.

FACTORY AND HEAD OFFICE:

PETROLEA, ONT.



# Canadian Farmers Are Pleased DEERING IDEAL MOWERS AND RAKES,

Binders, Reapers, Corn Binders, Shredders, and Binder Twine,

WHICH IS NOT SURPRISING, as they have always been an "Ideal" line in every sense of the word.

The name DEERING stands for all that is good in harvesting machinery, and will continue to do so.

The Deering Line of Cultivators and Seeders

are also ideal machines, made in Canada, and contain every modern and up-to-date improvement.

Write to the nearest Canadian Branch for "Golden Era" booklet, or obtain it of your local agent.

# DEERING DIVISION

International Harvester Co'y of America.
CHICAGO, U. S. A.

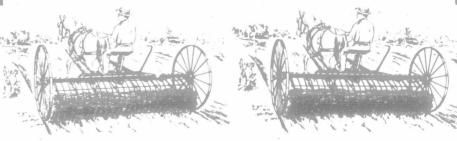
Toronto.

London.

Montreal.

Winnipeg.

Regina.



D 1866

nt.

1900 HT.

the bestry in North

ales

ONT.

ton and car

larriage,

Bliss,

ASON &

and organs.

ASSty London

CHINE

Own fence of 
ard Steel

Wire.

high, at

high, at
er ROD.
re for 100-.
. Agents
dogue FREE.
VER
Machine Co.
lgetown, Ont.

The second secon

ERS

N, CANADA, of SPEECH tendent, We and therefore

ADVOCATE,



# BUYING WATCHES BY MAIL\_\_\_\_

There is absolutely no risk in buying an **EATON** Watch by mail. We guarantee our watches to give satisfaction or money refunded. We give a written guarantee to that effect. That is why this watch offering should interest every man reading this paper.

# FIRST, It's a trustworthy, guaranteed time keeper SECOND, It's easily worth half as much again as we're asking

The Case is a 14-K gold filled case, guaranteed for 20 years' wear, and may be had plain, engine-turned or engraved finish. (The cut shows one of the engraved designs.)

The Movement is a 7-jewel, London nickel, with cut expansion balance, exposed wind wheels, or a 7-jewel, Waltham movement, both being stem wind and stem set

7.35

Upon receipt of \$7.35 this watch will be sent postpaid to any address in Canada with the understanding that money will be refunded if it isn't satisfactory.

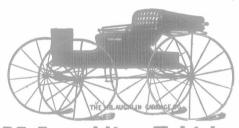
(We can give you the same movements in a heavy Sterling silver case, plain or engine-turned, for \$6.15, postpaid.)

This offer is only good for this month. Send your order at once, and remember :—

# MONEY REFUNDED IF YOU'RE NOT SATISFIED

Mail Orders Filled Promptly

TEATON CO.
TORONTO CANADA



# McLaughlin Vehicles

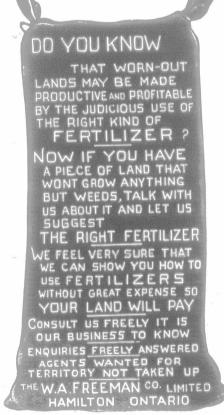
HAVE A REPUTATION THROUGHOUT
THE DOMINION FOR

# DURABILITY, COMFORT STYLE

not approached by other makers.

Send for catalogue showing 100 varieties to select from, om

McLaughlin Carriage Co.



PLEASE MENTION FARMER'S ADVOCATE.

# Range Name Competition.

In response to ads. offering prizes for a name for our new range, over 20,000 names were submitted.

After eliminating those which had been used before, and repeaters, we selected a list and submitted them to a committee of Toronto advertising experts.

The name decided upon is

# Pandora Range,

which was suggested by three ladies: Mrs. Geo, McQuillan, 306 Givens St., Toronto; Miss E. C. Boland, "The Oaks," Vandeleur, Ont.; Mrs. J. Bews, 304 Victoria Ave. N., Hamilton; each of whom will be given a range.

2nd Prize.—Lady Bristler—Mrs. A. Isaac, Port Hammond, B. C.

3rd "—Hibiscus—Mrs. H. Wooding, 1746 St. Hubert St., Montreal.

4th "—Savealot—Mrs. M. Maltby, Manor, Assa., N.-W. T.

5th "—Trojan—Mrs. J. R. G. Bliss, Miniota, Man. 6th — Terrapin—Mrs. A. J. MacNeill, Orwell, P. E. I.

The PANDORA RANGE is nearly completed, and will be equipped with many ingenious and entirely new devices for easing the work of cooking, reducing fuel bills, and preparing meals in a hurry, while it has a compact and artistic appearance decidedly its own.

Will be placed in stock by every enterprising stove-dealer in Canada within three months.

Ask for and insist on seeing the PANDORA RANGE before buying any other. If your dealer has not placed it in stock, write to us for catalogue.

# The McClary Mfg. Co.

London, Toronto, Montreal, Winnipeg, Vancouver; St. John, N.B.

# The Livingston Linseed Oil Co., Ltd.,

BADEN, ONTARIO,

Manufacturers of strictly pure

Old Process Linseed Oil Cake and Meal, also Ground Flax Seed.

Write for prices.

# CIRE YOU OF

# Rheumatism

ELSE NO MONEY IS WANTED

After 2,000 experiments I have learned how to cure rheutratism. Not to turn bony joints into Besh again, that is impossible. But I can cure the disease always, at any stage, and forever.

I ask for no money. Simply write me a postal, and I will send you an order on your nearest draggist for six bottles Dr. Shoop's Rheu atic Cure, for every druggist keeps it. Use it for a month, and if it succeeds, the cost is only \$5.50. If it falls, I will pay your druggist myself. I have no samples, because any medi-

I have no samples, because any medicine that can affect Rheumatism quickly must be drugged to the verge of danger. I use no such drugs, and it is folly to take them. You must get the disease out of the blood.

My remedy does that, even in the most difficult, obstinate cases. No matter how impossible this seems to you, I know it and I take the risk.

I have cured tens of thousands of cases in this way, and my records show that 39 out of 40 who get those six bottles pay gladly.

I have learned that people in general are honest with a physician who cures them. That is all I ask. If I fail I don't expect a penny from you.

Simply write me a postal card or letter. I will send you my book about rheumatism, and an order for the medicine. Take it for a month, as it won't harm you anyway. If it fails, it is free, and I leave the decision with you. Address Dr. Shoop, Box 52, Racine, Wis. Mild cases, not chronic, are often cured by one or two bottles. At all druggists'.

# The "Coming" and the "Gathering" of Butter.

Churn, churn, churn for hours, and the butter will not come, and at last when it does come it will not gather. Oh, the work, and the worry, and the trouble is all in the feed. In June, when nature feeds the cows, things are different. There is no trouble then about slow-coming or slow-gathering butter. The air is full of the aroma of sweet plant life, and the young grass is tender and sweet to the taste. Nature furnished a perfect food that is perfectly assimilated, and with perfect assimilation the animal functions work to perfection, and a perfect milk is the result. We cannot have June grass and sweetsmelling herbs in winter, but we have (for practical purposes) a perfect substitute in Herbageum. When fed regularly every day, Herbageum supplies the ure aromatic qualities pasture, and thus insures the thorough assimilation of the dry, odorless winter food, and with thorough assimilation there is no difficulty about the "coming" or the "gathering" of butter.

This matter has been tested by many, and from among many reports we give the following:

"Some time ago, I exchanged a dry cow for a new milch one, the party with whom I traded saying, "If she is not satisfactory, bring her back." I afterwards learned this was because two other parties had her and could not make butter, as it would not gather. At the first churning my wife churned for hours, and, while the butter formed, it would not gather. I then began with Herbageum, and the next churning was satisfactorily completed in half an hour, and we have had no further trouble. It has proved of great value in strengthening cows weak in the legs." James Ray, Margaretsville, N. S.

"I find that when I feed Herbageum to my milch cows during the winter the cream separates better from the milk, and the butter separates more quickly from the cream, and I can churn in at least one-third of the time." Mrs.

Michael Fitzpatrick, Osceola, Ont.

"We find that by using Herbageum for our milch cows in the winter butter can be brought in just about one-third of the time, and consider that the time gained in churning is worth more than the price of the Herbageum, besides which, the butter is a better color. This epinion formed from repeated obsevations."

Wadleigh & McMannis, French Village, Que.

# Farmer's Mavocate and Home Magazine. ESTABLISHED 1866.

REGISTERED IN ACCORDANCE WITH THE COPYRIGHT ACT OF 1875.

Vol. XXXVIII.

nth,

self.

ckly ger

to

now

that

il I

or

iedi-

sts'.

ng''

vhen Oh.

the

when

iffer-

bout

tter.

weet

nder

fur-

ectly

tion,

veet-

egu-

ough

inter

ing'

any

give

with

not

two

not

At

for

d, it

with

was

our,

then-

Ray,

geum-

inter

the

more

hurn

Mrs.

a for

d of

time

than

sides

This

Que

We

LONDON, ONT., AND WINNIPEG, MAN., FEBRUARY 16, 1903.

No. 568

# EDITORIAL.

# Railway Regulation and the Farmer.

[Written for the "Farmer's Advocate."] The general movement for improved railway regulation, which has led to the organization of various commissions to be found in the United States, has not, in its outcome, by any means, accomplished all that was anticipated. But while the commissions have not solved all the difficulties which called them into existence, any careful investigation of the evidence will substantiate the conclusion that they have done much to better the conditions. The central question in all matters of regulative policy turns on the matter of railway rates. No hard and fast criterion of the reasonableness of a rate can be referred to. Rate systems based entirely upon the distance principle, or upon the cost principle, fail because they do not take into consideration other essential factors. A rate is essentially a compromise. In dealing with the regulation of the arrangements arising out of such compromises, it is but natural that difficulties should have arisen. Then again, in the work of the commissions, certain difficulties have arisen because of weaknesses and defects in the laws from which they obtained their origin; the question has been further complicated by the judicial bodies which, in the last resort, have to pass upon their decisions. The detail concerned with these matters may be found in my reports to the Department of Railways and Canals. Reference is made to these matters here simply to

commission system and its working have been

others to lack of clear statements in the enacting

attributable to difficulties in the problem itself

laws themselves

The transportation problem is the problem of most urgent interest in Canada to-day. To state this should be but a truism, which should be part of the ready change of current Canadian thought. The transportation problem has its general and its particular aspects. Canada is at present in its empire-building stage. The development desired depends upon a harmonious organization of the transportation system. As trade stands in Canada to-day, only one-half of the total value of exports is attributable to products connected with the farm. The prices of Canada's agricultural products are determined in the world market, and it has to face there the competition of other countries. To put the matter in the shape of a concrete example, much attention is being devoted to the expansion of wheat production in the Northwest; and for years the settlement of the Northwest will be bound up with the exploitation of its grain-producing powers. One of the competitors Canada has to face is the Argentine Republic. The wheat production of that country, while it is not great as compared with that of the United States, shows such signs of increase as warrant the statement it will have a steadily increasing effect upon the world value of wheat. In point of railway transportation, Argentina is well supplied-much better supplied, proportionately, than Canada. With one-third of the land area of Canada, it has sixty per cent. of the railway mileage of Canada. Although the ocean carriage from Argentina to Europe is long, at the

ocean journey than Canadian wheat, it goes forward at low ocean rates.

The discussion with reference to railway reguthe Railway Commission in England, and to the lation in Canada has been occupying the public attention for nearly thirty years. In the period succeeding Confederation, the earliest project for the more effective control of railways is contained in the bill introduced in 1873 by a representative of agricultural interests, Mr. Oliver, of Oxford County, Ontario. This bill provided for equal mileage rates. Its aim was to afford better regulation of traffic on railways. Like the contemporary legislation which Mr. Reagan, the father of the Texas Commission, was urging in the United States, this provided for no special tribunal to enforce the provisions of the proposed law. The subsequent history of the movement toward expansion of regulative policy in Canada; the discussion under the leadership of Mr. Dalton Mc-Carthy, in the period 1880-86; the hosts of petitions which poured in from the counties of Ontario in favor of the law, which he modelled upon the English Railway Commission legislation: the report of the Royal Commission; the increasing of the regulative powers of the Railway Committee of the Privy Council, and the more recent lack of any clear line of demarcation in regard to movements for more effective regulation, are a the relationships between the commissions and the part of the history of the regulative movement with which all should be acquainted.

The investigation which, under the direction of the Department of Railways and Canals, was conducted during the summer of 1901, found that the leading grievances existing were concerned indicate that some of the admitted defects in the with, (1) classification, (2) distributive rates, (3) car lot and less than car lot shipments, (4) excessive rates and discriminations versus non-competitive rates. (6) American rates and Canadian rates, (7) minimum weights. Of the matters under these headings, that concerned with the relation existing between American rates and Canadian rates is especially complained of by the farmer. The situation of certain portions of Canada is such that nature makes the Canadian railway system an integral portion of the American railway system in regard to the movement of through traffic. Any policy which would deprive the Canadian railway of the right to participate in this traffic would not be to the general interests of Canada. At the same time there should be taken into consideration, as an essential factor in the export rate for the Canadian farmer, the geographical advantage he possesses as compared with his competitor in the Western States

The argument for a more specialized method of regulation gathers cogency from the fact that the rate question is a compromise and that railway transportation occupies a position different from that of other enterprises. It is the basic industry on which the expansion of industry and the enhancement of values of the products of all industries depend. In its nature it is much more monopolistic than other businesses. Parliament has recognized the futility of endeavoring to regulate the railways through general regulations. It has given up its witless dependence upon the clause of the earlier years of the railway act which gave it power to regulate rates when dividends exceeding fifteen per cent. were earned. It has contented itself with assisting railway entersame time the greater part of the wheat-producing work of regulation to the smaller body, the Rail- subject to leading reviews and magazines. In 1899

area is situated not more than 150 miles from way Committee of the Privy Council, recognized tide water. In consequence, the wheat has the the necessity of having a small body to deal with advantage of a short rail haul, and at the same the matter of regulation. But although the time, while it has the disadvantage of a longer Railway Committee has been by no means the useless body that some discussion would claim, and although it, and its presiding officer, has been especially active in connection with matters of regulation during the past six years, at the same time the political tenure of its members, and the quality of function possessed by them, places obstacles in the way of their dealing successfully with the matter of regulation. The arguments for regulation are so well established that there is no need for dealing with this phase of the question; it is the matter of how the regulation should take place that is important. The members of the Railway Committee have not the opportunity to obtain the specialized information which is necessary. With the expanding railway system of Canada, a need of regulative policy based on consecutive policy is necessary.

In the older days equity was measured by the length of the Lord Chancellor's foot. In Canada the regulative policy has depended upon the Minister of Railways and Canals for the time being. To cite one example of the importance of specialized information: Is the Canadian farmer subjected to unfair competition because of the way in which the Canadian railway arranges the rates on his product, as compared with the rates given his American competitor? Can this be determined without adequate information with reference to the facts in dispute, which would entail inquiries precluded by the engrossing political duties of the Railway Committee? This question and the many others difficult-some impossible of solution-demand the constant regulative attention of a tribunal whose members shall be fitted hy technical equipment and non-political tenure to deal with the matter.

One thing that must be constantly borne in mind is that, though a railway commission, with the proper powers and judiciously manned, will undoubtedly be of benefit, at the same time it is futile to hope that it will create such a condition that everybody will be satisfied. The matter of rate regulation is a matter of compromises, and it is as essential to keep in sight the rights of the railway as it is to pay attention to the rights of the shippers. It was after a searching investigation by the Cullom Committee that the act to regulate commerce was enacted and the Interstate Commerce Commission was appointed. The wise words with which this committee closed its report will bear constant iteration: "That a problem of such magnitude, importance and intricacy can be summarily solved by any master stroke of legislation is beyond the bounds of reasonable belief. That a satisfactory solution of the problem can ever be secured without the aid of wise legislation the committee does not believe.

S. J. McLEAN. Leland Stanford University, California, January 22nd, 1903.

[Editorial Note.-Prof. McLean, author of the foregoing, was, born in Simcoe County, Ont., Canada, in 1871, and graduated from Toronto University in 1894; pursued graduate studies in economics in Toronto, Columbia and Chicago Universities until 1897, when he received the Ph. D. degree from the latter. From 1897 to 1902 he was Professor of Economics and Sociology in Arkansas University. He specialized in transprise. The movements which transferred the portation, and has contributed articles on this

# THE FARMER'S ADVOCATE

AND HOME MAGAZINE.

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

> PUBLISHED SEMI-MONTHLY BY THE WILLIAM WELD COMPANY (LIMITED).

Two Distinct Publications—Eastern and Western,

EASTERN OFFICE: CARLING STREET, LONDON, ONT.

WESTERN OFFICE: Imperial Bank Block, Corner Bannatyne Avr. and Main St., Winnipeg, Manitoba.

LONDON (ENGLAND) OFFICE; W. W. CHAPMAN, Agent, Mowbray House, Norfolk street, London, W. C., England.

JOHN WELD, MANAGER.

1. THE FARMER'S ADVOCATE is published on the first and

fifteenth of each month.

It is impartial and independent of all cliques or parties, handsomely illustrated with original engravings, and furnishes the most profitable, practical and reliable information for farmers, dairymen, gardeners, and stockmen, of any publication in Canada.

a. TERMS OF SUBSCRIPTION—\$1.00 per year in advance; \$1.50 if in arrears; sample copy free. European subscriptions, 6s. 2d., or \$1.50. New subcriptions can commence with any month. 3. ADVERTISING RATES—Single insertion, 20 cents per line, agate. Contract rates furnished on application.

agate. Contract rates turnished on application.
THE ADVOCATE is sent to subscribers until an explicit order is received for its discontinuance. All payments of arrearages must be paid as required by law.
THE LAW IS, that all subscribers to newspapers are held

responsible until all arrearages are paid and their paper ordered to be discontinued.

6. REMITTANCES should be made direct to this office, either by Money Order or Registered Letter, which will be at our risk. When made otherwise we will not be responsible.

7. THE DATE ON YOUR LABEL shows to what time your sub-

8. ANONYMOUS communications will receive no attention. 9. LETTERS intended for publication should be written on one side

of the paper only.

WE INVITE FARMERS to write us on any agricultural topic.
We are always pleased to receive practical articles. For such as we consider valuable we will pay ten cents per inch printed matter. Criticisms of Articles, Suggestions How to Improve the ADVOCATE, Descriptions of New Grains, Roots or Vegetables not generally known, Particulars of Experiments Tried, or Improved Methods of Cultivation, are each and all welcome. Contributions sent us must not be furnished other papers until after they have appeared in our columns. Rejected matter will be returned on receipt of postage.

11. ALL COMMUNICATIONS in reference to any matter connected with this paper should be addressed as below, and not to any individual connected with the paper.

Address-THE FARMER'S ADVOCATE, or

THE WILLIAM WELD COMPANY (LIMITED), LONDON, CANADA.

he made a report to the Canadian Minister of Railways and Canals on railway commissions in England and the United States, and in 1901 acted as a Special Commissioner on railway rate griev-At present he is Associate Professor of Economics, and head of the department of Economics and Social Science in the Leland Stanford (Jr.) University, California.]

# The Veterinary Status.

We must assure our friend, Dr. Allen, V.S. who writes in another column, that the "Farmer's Advocate" has no animus against the veterinary profession, but quite the reverse. We have probably said nothing as outspoken as the President of the Veterinary Association felt called upon to do at the recent annual meeting in Toronto, and it does seem to us that the time has come for a consideration of ways and means for a change in the present system of veterinary education in Canada. In this view we believe we concur with, nor is it any reflection upon, the many progressive and thoroughly informed men who adorn the profession to-day, though certainly not by reason of two-year courses and low educational standards. By various means they have risen above such contingencies. Manitoba has no veterinary college to protect, and has set its standard to guard the interests of the Province against being crowded with men not up to their standard, viz., to be the graduate of a three-year school, to pass the examination of the Veterinary Medical Association, and pay a license fee to practice. We understand the British colleges demand a matriculation equal to that required for medicine, and a four Most of the United States vetyears' course. erinary schools are now organized with threeyear courses, three additional institutions there lately having fallen in line, leaving, we understand, but a couple of schools of any importance under the ban of the American Veterinary Medical Association, which we are glad to welcome in annual convention at Ottawa, the Capital of Canada, on the first four days of next September. That the subject of veterinary standards, education and legislative status will loom large in the discussion of that important body is a foregone drainage laws are a dead letter, and a railway conclusion, and we believe, with the Canadian members of the profession who are preparing for the event, that it will have a most beneficent in-

### Railway Taxation.

The thanks of the country are due Mr. H. J. Pettypiece, M.P.P., and the Canadian Magazine, for an informing article on the above subject in the February number. The masses of the people in Canada do not realize the present condition of affairs, which is largely the result of weak legislation and prodigality in public aid to railway construction. Mr. Pettypiece first shows that there is no legitimate objection to taxing railways and that, if anything, they should bear the heavier share of the burden, compared with other But what is the fact? The Grand properties. Trunk Railway in the Province of Ontario represents a capital of over \$241,000,000, assessed at \$6,525,504, or 21 per cent. of the capital, and pays only \$134,624 taxes, Provincial and municipal, or 50 cents on every \$1,000 of capital. The farm wealth of Ontario is represented by \$1,000,-000,000 capital, assessed at \$450,000,000, or 45 per cent., and pays \$4,621,803 in taxes, or \$4.62 on every \$1,000 of capital. Therefore, \$1,000 worth of G.T.R. property is assessed at \$27.50, and pays 56 cents in taxes, while \$1,000 worth of farm property is assessed at \$450, and pays \$4.62 in taxes

It is also shown that the rate of taxation in Canada is far below what is levied in other coun-Take the G.T.R. from Chicago to l'ort-The 510 miles in the States pays annually \$200,000 taxes, or \$400 per mile, while the 628 miles in Canada pay only \$31,400, or \$50 per At the same time the rates charged for hauling Canadian products are far higher than the

rates on United States products.

The net earnings of United States railways in 1900 was \$1,180 per mile, and of Canadian roads \$1,212, so our roads are able to pay taxes.

The people of Canada have practically built the railways, through the aid given by the Dominion and Provincial Governments and the municipalities as follows:

Cash subsidies and bonuses.....\$225,000,000 Loans and subscriptions ...... 27,000,000 Land-52,000,000 acres at \$2.00 ..... 104,000,000 per acre ... 35,000,000 Lines already built ......

> \$391,000,000 Total .....

Canada has some 18,500 miles of railways. Leaving out the 1,500 miles of Government railways, the subsidies amount to nearly \$19,000 per mile, which in many cases would have built the roads. On top of these immense subsidies the railways are paid annually by the country \$1,350,000 for carrying the mails. The interest charge on subsidies, loans, etc., amounts to \$9,000,000 Why should they not pay their fair annually. share of the taxes?

On top of these immense subsidies the railways are paid annually by the country \$1,350,000 for carrying the mails. Why should they not pay their fair share of the taxes?

# WHAT SHOULD BE PAID.

The total railway wealth of Canada represents a capital of \$1,043,000,000, and pays less than \$500,000 in taxes, or less than one-half of one mill on the dollar. If the railways merely paid a fair share of taxation on the capital donated to them by the people, the revenue from that source would amount to over \$6,000,000 annu-

If the Indiana law were in force in Canada, the railways would pay in taxes at least \$7,600,-000 annually.

If the Connecticut law were placed in operation in Canada, the annual tax on the railways would be over \$10,000,000.

If the Wisconsin act were applied here, the amount would be \$2,920,000. If the railways here paid the average U. S. rate of \$255 per mile, the total would be \$4,845,-

If the G.T.R. paid the same rate in taxes in Ontario as it did last year in Michigan, \$507 per mile, the total would be \$1,345,071, instead the comparatively insignificant sum of \$134,624, which is now paid by that corporation. And, be

## sides, both passenger and freight rates are lower in Michigan than in Ontario.

OTHER DISCRIMINATIONS. But even this does not complete the list of discriminating inequalities which exist between Ontario and Michigan. In Michigan the railways are operated under the control of a State Commissioner, and have to provide suitable cattleguards at all crossings, maintain watchmen at town and village crossings, keep farm crossings in repair, construct culverts across their tracks for public and private drains, and in other ways give due consideration to the welfare of the general public. In Ontario the public welfare is the last consideration-or rather, it is not taken into consideration at all. Level and dangerous crossings are left without cattle-guards or watchmen; can, and otten does, block the drainage system of a whole township, while farmers have no rights in the matter; there are no regulations regarding speed and time of trains; cars are sometimes sup-

plied when they are needed, and sometimes they are not; and the excessive rates are a burden on many lines of business

The respective conditions which obtain in Ontario and Michigan will be found to exist generally in Canada and the United States, and the question may well be asked in respect to Canada: Does the country own the railways, or do the railways own the country?'

## The Live Stock Outlook.

That a steadily-increasing interest is being taken by Canadian farmers in the improvement of live stock is shown by the unusually large attendance at the annual meetings of the Breeders' Associations recently held, reports of which appear on other pages in this issue. Nearly all of these societies are in a flourishing condition financially, and all show a rapidly increasing number of registrations of animals in their records, with an active demand from buyers of the better class for

both the home trade and for export. The horse business is especially active, owing to the scarcity of good animals and the strong demand which is not likely to be soon supplied. Heavy draft horses are being sought after for the British market, for city work, lumber camps, and for the farms of the Northwest, which will require a very large number to supply the great number of settlers coming from Europe and the States, and all indications point to a continued keen demand and strong prices. The sale of stallions, stimulated by the known scarcity of young stock in the country, has been, and promises to be, extraordinarily active. Importations are still being made in considerable numbers, and generally of a very good class of horses. That they cannot be too good, goes without saying, and the fact that our farmers are more generally than ever becoming fair judges of horses, serves to remind importers that only really good stallions will meet with sale or patronage at paying prices. Not only are draft and work horses wanted, but the best class of animals suitable for the saddle and carriage are bringing exceptionally high prices and are scarce.

Cattle of all breeds are finding ready sale at good prices. The recent sales of pure-breds of the beef breeds show a strong demand at well sustained prices, while the dairy breeds are being sold privately at good figures, and most of the breeders have sold short, especially of females, though in both beef and dairy breeds there are many useful young bulls available at moderate prices, and these should be secured by the farmers for the improvement of their herds. Good dairy cows of all classes will be in keen demand this spring at high prices.

The steady demand throughout the past year n home and the well-custoined naving price kept; up the demand for breeding stock. In almost all the breeds there has been a good business done. The large attendance at the Swine Breeders' meeting at Toronto last month, of representatives of the various breeds, showed clearly that no one breed has anything like a monopoly of the trade, and that it is more a question of type with the farmers than of breed, the old standard breeds being improved to meet the requirements of the markets, and being yet popular with well-informed people who do their own thinking and follow no

The sheep trade, the only one of the classes of farm stock that has been suffering from slow demand for the last year or two, has a brighter outlook for the future, and will doubtless soon see better days. The sheepmen had their innings when cattle and horses were low, and their turn will come again, perhaps sooner than they think, and now is their opportunity for selection and improvement, so as to be ready for the upward turn of the tide when it comes. No class of stock is more readily improved than sheep, none more cheaply raised, and none more profitable in the course of years, considering the cost of production and keeping.

In the march of live-stock improvement on the farm, poultry should not be overlooked at this season. Generally speaking, probably no stock has been as much neglected as poultry, and yet for the labor and outlay involved none give greater returns under proper conditions. One of the first requisites in thousands of flocks is an infusion of fresh, pure blood, which can readily be obtained

they

ener-

the

ida:

eing

nt of

tend-

Asso-

r on

these

ially,

regis-

n ac-

s for

owing

ng de-

plied.

or the

, and

equire

ımber

tates,

en de-

llions,

stock

e, ex-

ill be-

erally

y can-

d the

n ever

emind

s will

prices.

d, but

saddle

prices

sale at

of the

ll sus-

being

of the

males,

ere are

derate

armers

l dairy

d this

st year

almost

ss done.

' meet-

ives of

no one

trade,

ith the

breeds

of the

nformed

llow no

asses of

low de-

righter

ss soon

innings

eir turn

y think,

on and

upward

of stock

ne more

in the

produc-

t on the

at this

o stock

and yet

re great-

e of the

infusion

obtained

the .

### The Improvement of Rural Schools in the name of "Object Lessons on Science" or "Gen-Canada.

BY JAS. W. ROBERTSON.

[Prefatory Note.-In writing these articles on the Improvement of Rural Schools in Canada, I hope to contribute some information, argument and suggestion to help on the movement. It is to be understood that I personally, as a citizen of Canada, and not officially as Commissioner of Agriculture and Dairying, am responsible for the opinions expressed in them. I propose to deal with the subject in five main divisions, viz., (1) Improvements in Organization, (2) Consolidation of Schools, (3) Courses of Study, (4) Plans Under the Macdonald School Funds, and (5) Some Ways in Which Improvements can be Continued and Extended .- J. W. R.]

### (Third article.) COURSE OF STUDY

This article will not discuss the place and share in the school course which should be accorded to instruction in religion, morality and civics, but I would not think of suggesting a programme of studies with these left out. If a particular text-book for the children may be indicated as the best, the Bible is, for those subjects, matchless in matter, beauty and strength.

Every child begins life helpless, ignorant and selfish. All experiences which help it out of that state are educational in the right direction. Only subjects, lessons and exercises which lead out the powers of body, mind and spirit towards ability, intelligence and unselfish service are worthy of a place in an educational course.

The methods of instruction should arouse the children to acquire information and power, and as these are gained, should direct them to pursue further studies in science, literature and history. The immediate aim of the course should be to increase the ability of the pupils to think, to observe, to investigate, to understand and to do, all as means towards 'he formation of good characters and right habits.

It is the duty and privilege of the teachers to guide and train the pupils to apply their new knowledge (very little, it may be, from day to day) to the doing of something which the pupils know to be useful and beautiful. The so-called practical work is what makes the other work, with books and symbols, vital to the children and so ministers to the growth of theone-and-indivisible in their bodies, minds and sririts.

All work in the course should be arranged in such a manner that the difficulties of each part of it may be presented, graduated to suit the ever-growing capacity, intelligence and strength of the learners. Thus progress would be indicated and measured, not so much by quickness of perception and a good memory for names, facts and rules as by habits of thoroughness, truthfulness, accuracy and self-reliance.

All this would not imply that the school course, or curriculum should be burdened with more studies or subjects. On the contrary, by getting rid of some of the formal informational studies from books, in so far as they have been separated from the activities and curiosities natural to children, and judiciously correlating all subjects with practical work, there would be a fair chance for ordinary children to get a really helpful education. All subjects of the school course would have a definite meaning and real value to the children, when taught and studied in constant relation to what they knew and understood to be real their doings and their surroundings I wish there were a shorter, simpler word than "environment," and then I would use it in saying that such a course of study would lead to ability in overcoming obstacles and in controlling self and environ-

# THE READJUSTMENTS.

To what essential part or parts of the present course of study should any new subjects or new methods be adjusted? The notion has been spread by the catchy sounds of "the three R's (reading, 'riting and 'rithmetic)" that these are still 'he most important parts of an elementary school course. That has done our schools and children much harm Most errors are done up in catchy or sonorous phrases.

NATURE STUDY SHOULD BE CENTRAL, WITH MANUAL TRAINING AND DOMESTIC ECONOMY ON EITHER SIDE OF IT. These provide for the "three H's in education,"-the training of the Head, the Hands and the Heart into intelligence, ability and unselfish service. These three, Nature Study, Manual Training, and Domestic Economy, are not fads in any sense. They are fundamental to the maintenance of civilization and the upward progress of the individual and the race. We are part of Nature; life itself is sustained by natural processes; therefore, a study of Nature is necessary. - We are the tool-using, weapon-using, instrument-using creatures on earth, and Manual Training makes for mental power through those agencies. We seek to make comfortable, happy homes, and science and art in Domestic Economy enlarge our ability to gain and enjoy that chief-

est earthly goal. NATURE STUDY.

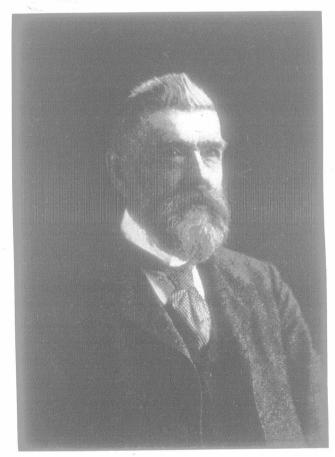
In a recent address in London, Sir George Kekewich, Secretary of the English Education Department, is reported as having said: "The study of Nature is the essence of all true education, and it is somewhat remarkable and not perhaps creditable to our common-sense that we should have failed to fully realize it until the twentieth century."

In the English schools, Nature Study goes under

eral Elementary Science." I hope, however, that it will not be mistaken, in the rural schools of Canada, for the study of elementary science as classified into text-books on Botany, Geology, Physics, Biology or Hygiene.

Nature Study is not for the purpose of acquiring Information about soils, plants, animals and inorganic things; it is rather a means of training the personal power of the pupil into a condition of symmetry and maturity, through a knowledge of and sympathy with those things acquired by doing something with them

Nature Study would not crowd out any essential branch of learning from the common schools, but, on the other hand, it would stimulate an interest in all subjects as the pupil discovered their relationships to his daily life and the world about him. The improvement in the school course is to be made not so much by a change of curriculum as by a change in the methods of treating the various subjects. For instance, let a pupil plant ten grains of wheat in a row, ten grains of Indian corn in another row, ten seeds of potatoes in another row, and ten seeds of clover in another row. Let him pull up one plant of each row every week and find out for himself, under the guidance of a competent teacher, what had happened in the meantime. Further, as far as he was able, let him make drawings of the plot of ground and of the plants, and a written statement of the progress and growth as he was able to observe it from week to week. If then his lessons in reading and in arithmetic should have a direct bearing upon this Nature Study work, would not such a course give an intelligent boy or girl a great amount of exceedingly valuable education?



MR WILLIAM LINTON. President-elect of the Dominion Shorthorn Cattle Breeders'

Instances might be multiplied, sufficient to fill the time-table for the whole of the school year. A little reflection would bring these to the mind of every teacher of experience.

Nature Study lessons should follow the seasons of the year. The out-of-doors part of them is not the least valuable. Only in advanced work do chemical or physical apparatus become necessary. A circular issued by the English Board of Education in April, 1900, has the following recommendation: "The teacher should, as occasion offers, take the children out of doors for school walks at the various seasons of the year, and give simple lessons on the spot about animals in the fields and farmyards, about plowing and sowing, about fruit trees and forest trees, about birds, insects and flowers, and other objects of interest. The lessons thus learnt out of doors can be afterwards carried forward in the school-room by reading, composition, pictures and drawing."

In a most excellent paper on "THE VALUE OF NATURE STUDY IN EDUCATION," read by James Fletcher, LL. D., before the Royal Society of Canada in May; 1901, he stated:

"Objects for study abound without stint in all places and at all seasons of the year-spring, summer, autumn or winter, it is all the same-for Nature itself is the book, and every commonest object inside the school and out is a text for a sermon-the very wood of the school-room floor, of the desks or the furniture. the chalk used on the blackboard, even the speck of dust floating in the sunbeam, the light itself; outside, the drop of rain, the flake of snow, a stick, a straw, a stone, a fallen leaf, a twig of any tree, a winter bud or a piece of bark, a bird, a beetle or a butterfly, a frog, a snake, or even a toad. Every-

thing is worthy of study from many points of view and has a multitude of mental uses and direct lessons to teach."

"The scope of Nature Study should as much as possible be confined to the simple elements of knowledge. It should not be taught to the scholar by the teacher, but studied by the teacher with the scholar, the teacher merely using his or her superior knowledge and experience in directing and encouraging the scholars to strive to learn for themselves from and of all things which come before them; in a word, to be selfdependent and not to trust too much to what they find in books written by others, but to examine and consider everything for themselves. (To be continued.)

### Our Scottish Letter.

BRITISH-CANADIAN UNITY.

Since my return from Canada on 1st Jan., I have been kept exceedingly busy, and have had little leisure to devote to correspondence. I am, however, in arrears to your readers, and send this off somewhat hurriedly, so that you may not think I have altogether forgotten you.

Canada has a great future, and the impression on my mind is that Great Britain will need to realize this more than she hitherto has done. The intense loyalty of the Canadians to the British flag is a national asset of which the most should Two reasons appear to me to demand \*closer attention to Canada on this side of the ocean. The necessity for maintaining an all-British road to the East is the first, and the necessity of maintaining an all-British source of food supply is the second. In times of peace the world jogs along all right, and everybody wants to sell to Great Britain. But in a time of war it might be the highest form of strategy to starve out the people of this tight little island. Doubtless the British navy could keep the seas clear for the transit of British food, but it might pay Britain's enemies not to send their surplus goods this way. Canada can feed Great Britain's millions for many a year to come. She should be encouraged to do so, and it will pay British statesmen to foster the Canadian sentiment of loyalty and forward this great cause in every At present you have a big handicap in the monopoly of one line to the Northwest, I heard some extraordinary stories about the charges for interior traffic on the C.P.R. If they be true, or half true, the sooner you have another transcontinental competing route the better.

The situation regarding the food supply of Great Britain is quite intelligible. The population of this country is so great that even were its agricultural possibilities developed to the fullest degree there would still be abundant room for Canadian produce. - Under no conditions could we feed our population. Consequently, the British farmer, being at the door of the best market in the world, ought always to be able to hold his own and have the best price for his produce. It is true that he cannot profess to have this at To the average mortal it is an astonishing fact that there are square miles of derelict land within thirty miles of the City of London. But this is due to a variety of causes, quite apart from the question of proximity to market. from abroad, that land would soon be under cultivation. It would be under cultivation now were the conditions of land and tithe-tenure here such as admitted of its free cultivation. Again, it must be remembered that here we have a demand for land for other than agricultural purposes. The trend of things at present creates the impression that the Highlands of Scotland are to be converted into one huge sporting run. There is no way of hindering this transformation while conditions remain as at present. But in a time of national stress and difficulty many things would be altered and the end would be a vast upheaval in the conditions upon which land is here held. If the British farmer keeps in the front so far as quality is concerned, he does not need to fear any foreign competitor. He is at the door of the market, if only his stuff be the finest. After he has done his level best there is abundant room left in this big market for Canada and Britain's other dependencies. It is right to encourage these and not the strangers to feed us, and in the development of Canada Great Britain has a splendid opportunity for keeping the world at bay and riveting her hold on the Greater Britain across the seas. This she can do by the most enduring bond of mutual economical interest. SCOTLAND YET.

A great deal is being said about the need of more help on the farm, but what about the kitchen? Has the farmer's wife anything to do? If you don't believe she has, just try to follow in her footsteps some day next summer, and report your conclusions. The fact is, there is not enough effort being made to lighten the work which becomes the duty of the ordinary house-

# STOCK.

### Canada's Beef in Great Britain.

To the Editor "Farmer's Advocate":

After seeing our beef cattle at the ranch, the wharf and the lairages, the market is the court of last resort. Smithfield is the great dead-meat market of London. To see it at its best necessitates an early morning visit, the bulk of the business being done between six and eight a.m. Canadian is neither a common nor popular name with which to brand beef in this market. Opportunity is afforded to make comparisons between British, Canadian and States carcasses, in which Canadians take third place. Hung up, it requires no trained expert to see glaring faults. The side from the Canadian bullock is thin over the loin and over the foreribs, and tapers off at the haunch or ham. The flesh of the Canadian is paler and lacks the brightness in color possessed by its rivals. This paleness is a constant feature, so I was informed by the dealers, who also state that the Canadian carcass does not cut up as well as the American. At one stall the salesmen state that occasionally they get a Canadian carcass as good as any, which goes to show that it is quite possible for the Canadian beef-grower to put just as good an article on the market as anybody else.

The editor of the Meat Trades Journal, a man thoroughly in touch with the meat markets of Great Britain, says: "London is the best market in the world for the best stuff. Housekeepers find that good beef is more economical to buy than inferior quality stuff; there is less waste!" The merits and demerits of Canadian beef came up for discussion and elicited from him the opinion that Canadian bullocks had three main faults, lack of finish, poorly bred and were too old; fortunately, all faults that the beef-grower at home can remedy. He expects beef to go higher, and drew attention to the price of rumps and loins to the trade, 7s. to 7s. 4d. per stone (8 lbs.), or 21 to 22 cents a pound wholesale. In the Smithfield market Canadian beef is hard to find; lots of American and Danish beef was to be seen, carrying the labels of the meat inspectors of those countries. Armour and Swift are the hieroglyphics stencilled on innumerable boxes, and those names speak volumes as to the trend of the beef trade. Canadian beef, being inferior, is consumed at other British markets where the highest quality meat is not called for. The Meat Trades man tells me it is impossible to make a \$1.00 out of Irish stores, and a Glasgow commission man attributes that to the prevalence of Galloway blood in those stores, which he says accounts for the slow maturing tendency and lack of quality in the Hibernian.

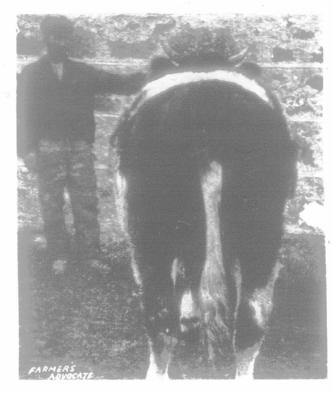
At Islington is London's big live cattle market, called the Metropolitan Cattle Market, yet one does not find the best stuff there. The north countrymen ship carcasses now, beef trains being run every night on the trunk lines, the L. & N. W., the Midland and Great Northern.

At Islington one may meet with men up in all phases of the meat trade, and in conversation with a leading commission man I got the same verdict pronounced against the Canadian bullock quoted so often as to be rapidly becoming tiresome to both reader and writer, and yet, in heart-toheart talks, only cold facts and the unvarnished truth are of any value. We have no cause in Canada to pat ourselves on the back over our beef production. The commission man just mentioned, does not consider it possible to land grassfed stuff, after the long journey by rail and boat, in anything like the finish that grain-fed stuff is, and the sooner grass-fed stuff stops coming, the better for the Canadian reputation. In order to retain what finish the grass-fed animal has, it should be tightened up with grain, before shipping. As every cattleman knows, grass is a very loosening diet; in England bullocks finishing on the grass are fed cotton cake to tighten them up and prevent them losing ground. The solely grass-fed carcass is watery, and does not weigh out with the grain-fed carcass of the same size. I am informed that taking two average sides of Canadian and States bullocks, appearing to be equal in size, the latter will outweigh the former. often two stones (16 lbs.). One reason for the butchers' preference, and the cause, the States bullock is grain finished.

Compared with the United States, our beef trade is a one-horse concern, with neither credit nor profit to producer, dealer nor consumer. A complaint made against some Canadian carcasses is the yellowness of the flesh, which may be due to the dairy ancestry of some of these cattle. This idea is borne out by the fact that such carcasses are from brindle cattle, or others bearing the hall-marking of dairy sires. The Canadian grain-fled steer, if a good one, is often prepared during June, July, August: to the States beast, the Canuck's carcass is less oily, keeps better in muggy (close, damp, hot) weather. The variety of grains fed, as compared with the corn diet of the Yaukee, may account for this A complaint so only hand is that come and heifers arrive

at the lairages in call, some calving on arrival; such means total loss of the dam and calf, because all cattle have to be slaughtered at the lairages within ten days after arrival there. If cows are far advanced in pregnancy, they are condemned, and rightly so, by the meat inspectors.

Volumes might be written on the beef trade, vet only a few important things need to be ob-



A STRONG BACK The kind the Britisher wants. Fed for Smithfield by Jno. Turner, Cairnton, England.

served to give us a large share of the Briton's cash meat bill:

1st. The use of pure-bred bulls of the beef breeds only, and those bulls to be of the early maturing, heavy fleshing sort, with short faces, prominent eyes, well-filled neck veins, plump briskets, broad chests, and a spring of forerib that makes a back of equal width all through, thickly covered, straight back and loins, square rumps, carrying the meat to the hocks.

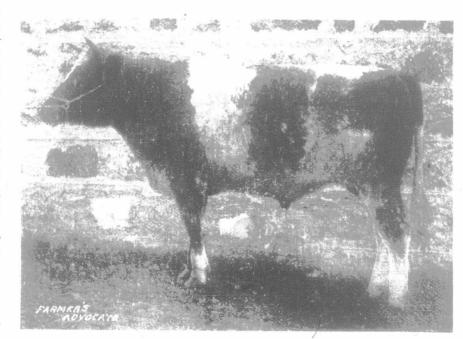
2nd. The growth of the bullock must suffer no hindrance from calfhood to maturity.

3rd. The bullock must be finished, not market-

ed half fat; "bacon hog standards do not apply to beef cattle !" 4th. The paying bullock will be the table-backed sort, well filled in the twist and breeches,

and with a thick, even covering of mellow flesh, quite half way down the ribs.

During the present coal famine, those are indeed well-off who have the satisfaction of burning fuel that was deeply-rooted on their own property not long ago, and better still will be their feeling, provided a fair supply yet remains to bud in the spring and later on have the sporting winds of summer play with the leaves while storing up additional heat-producing matter or some future cold spell.



A USEFUL TYPE. A Smithfield competitor that will dress a high percentage of valuable meat.

yet this does not apply to underfeeding, but port trade," not only is rather to feeding without waste and having the animals comfortable, to that the largest gains fill so many important positions, so surely will can be realized at a minimum of cost.

## A Veterinary Breeze.

To the Editor "Farmer's Advocate":

Sir,-On looking over old numbers of your much appreciated journal, I find in July 15th (1901) number an article entitled "Veterinary Education and Meat Inspection." Whilst I appreciate the many good qualities of the "Farmer's Advocate," I do most emphatically object to your everlasting digs at veterinarians. What have they been doing to you?

In the article referred to, you write of the great work that is being done in the United States by the Bureau of Animal Industry, especially in re meat inspection, and it is certainly a great work. You then go on and state that ' Meat inspection cannot be introduced in Canada owing to the deficient education imparted to vet-erinary students in our colleges." You further state, "Canadian graduates, in order to be allowed to practice in Manitoba or in the better States of the United States, are obliged to go to some veterinary college to receive finishing touches." In the first place, Ontario graduates are prevented from practicing in Manitoba on, I believe, the same ground that M. D. graduates are objected to. 'It is merely "home protection," in favor of their own colleges. In regard to going to the United States, I am proud to be able to inform you that many of the leading practitioners in that great country are graduates from Canadian colleges. Yes, and many of them are professors in their best schools. Still further, a large number of their meat inspectors are Canadian graduates, and especially of the O.V.C. I could mention the names of scores of them. It is also a fact that in the list of names mentioned for promotion from time to time, the Canadian graduates stand well up in the lists, and as a consequence are now receiving the highest remunerations. Even "Poor old Prof. Dick's boys" are enjoying similar success in the same work.

You object to a two years' course. So do I. You might also advocate a higher matriculation. Notwithstanding this, I maintain that for good sound, practical training, our colleges are not surpassed by any others. Why is the Ontario Veterinary College patronized by such a large number of fine young men from the United States? Young men of wealth and refinement. How many M.D.'s know anything worth mentioning about microscopical work or bacteriology? Many do not know the post of a microscope from the pil-These subjects are principally obtained by

postgraduates courses.

The general staff of the United States Meat Inspectors are not called upon to do microscopical work. Such work is performed by a separate staff of specialists.

You also give the veterinarians hard knocks in regard to the tuberculin test. Some of the remarks in editorials and communications in the 'Farmer's Advocate' do not, to say the least, show good taste. The long, wrathy communications from breeders, speak plainly and tell us that there are many pure-bred herds that are affected with tuberculosis. Breeders who have not the disease in their herds, as a general thing, do not become wrathy and foam about the test; they simply look on and smile at those who are s fortunate, and say that it is not their fight

Since writing the above I have received the last number of the "Farmer's Advocate," in which I find an editorial headed, "Raise the Veterinary

Standard." Now, whilst I am fully in accord with the greater portion of the article, I, and I am sure many veterinarians in Ontario who are striving earnestly to keep up with the times, reading the latest and best literature on veterinary science, even the "Farmer's Advocate," feel deeply the uncalled-for slurs that you fire at uspoor little Vets.-with your big pompom.

After referring to the outbreak of foot-and-mouth disease in the New England States, you go on and state, 'We see how our whole export live stock industry might be imperilled, and perhaps for years lost without an efficient veterinary staff in Canada," and further on you write, "Who will occupy the places that are soon to be filled?" Surely you will admit, on second thought, that such statements are uncalled for. Imagine, if you

It is often necessary to economize while feed- injury such statements may be the means at all in order to make the returns profitable. of working against the "live-stock excan, the vast amount of port trade," not only in England, but also in the United States. If Canada has in the past sent so many Vets. to the United States to a sufficient number of qualified men be found here

Your

15th

rinary

appre-

rmer's

o your

of the

United

espe-

inly a

that

anada

o vet-

urther

be al-

better

go to

touch-

s are

es are

n," in

going

ble to

ioners

Cana-

e pro-

er, a

Cana-

C. I

tioned

nadian

remuns'' are

do I.

lation.

ot sur-

o Vet-

num-

tates?

many

about

ny do

he pil-

ned by

Meat

copical

parate

cks in

he re-

least,

amuni-

cell us

t are

have

thing,

test;

o are fight.

ed the

which

rinary

nilst I

th the

arti-

many

io who

o keep

eading

rature

even

cate,'

led-for

us -

your

e out-h dis-

ngland state,

ole ex-

might erhaps

ut an

aff in

n you

by the

to be will

ought,

re un-

nt of means

but

in the

tes to

Will

d here

good

to meet any and all emergencies, including meat inspection. Do not class all with the lowest How would you like if I should class you with very many editors that I have met in the past? I would be very sorry to do so, as I consider that the "Farmer's Advocate" is one of the best if not the best of its kind on this continent THOS. A. ALLEN, V.S.

Brockville Co., Ont.

### Six Bushels a Day.

Stock Report, writing of a recent visit to Cana-

Prof. F. R. Marshall, in the Chicago Live

dian breeders, recites the following account of an incident related to him by Lt.-Col. McCrae, of Guelph, as occurring at a New Brunswick farmers' meeting he attended as a speaker not long ago: In New Brunswick the audiences insist on speaking of turnips by the barrel, and it was very difficult to make them believe that turnips could be grown and fed in large quantities, until, in an upper county, in the far-off spruce woods, there was a meeting convened in a settlement of Scotch emigrants, who understood and appreciated the cultivation and feeding of turnips. In a crowded hall, the speaker told a story of turnip-feeding, which he had heard from Arthur Johnston, of Greenwood, Ont. Mr. Johnston had visited Aberdeenshire, purchasing Scotch Shorthorns, and at the home of Mr. Campbell, Kinellar, he mentioned to Mr. Campbell that he thought his aged bull. Vermont, was in higher condition than they cared to see useful sires in Canada. ston said, "I think him much too fat." "Fat!" said Mr. Campbell, "Fat! he has had naething all winter, naething but a pickle oat straw, and six bushels neeps (turnips) a day." "Six bushels!" says Mr. Johnston, "Could he eat that?" "Yes," answered Mr. Campbell, "every day." Mr. Johnston took the trouble to visit the byre at feeding time, and saw Vermont get his two bushels three When this story was told to the times a day. New Brunswick audience, a man in the back part of the crowded hall called out, "I think you are wrong, there, sir." "Well," answered the speaker, "I am telling you the story as Mr. Johnston told it to me." "I worked for Mr. Campbell," told it to me." "I worked for Mr. Campbell," said the man. "Oh, did you? Did you feed the cattle?" "Yes, but I didn't give them six bushcattle?" "Yes, but I didn't give them six bushels a day." "How much did you give them?"
"Just a barrowful to two." "What were you feeding?" "The steers and heifers fattening for the London market." "How much would they weigh?" "I do not know, perhaps 1,100 or 1,200 pounds." "How old were they?" "About thirty months." thirty months." "How often did you feed a barrowful?" "Three times a day." "How much was in the barrow?" "I do not know, I think about three bushels." The audience, which had listened to the dialogue with intense interest, now saw the joke, and burst into roars of laughter, for four and a half bushels per head per day to young feeding steers was quite as much in proportion as the six bushels to the 2,500-pound bull.

# When Pigs Should be Marketed.

Generally speaking, our hogs are marketed just when the hogs are fit and the prices right. Unfortunately these two conditions do not always exist at the same time, and whether it will pay to keep the hogs for a better market, or let them go at existing prices, is often a "knotty" problem. In this connection a study of the cost of producing a pound of gain in a hog over 200 pounds, as compared with the cost of a pound in a lighter hog, will be of interest.

In Denmark extensive comparative experiments were carried on to determine this point. sults are summarized in the following table from Prof. Henry's work:

Average feed required to produce 100 lbs. gain	75-115 1bs. 437	ght of pigs in 115-155 1bs. 465	1 lots. 1 3. 155-195 1bs. 499
Average food required to pro-	4. 195–235 lbs.	5. 235–275 1bs. 624	6. 275–315 lbs. 639

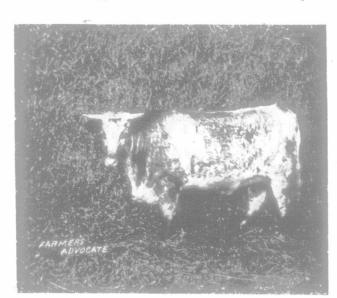
There is noticed throughout a steady increase in the food required to produce a pound of gain, with the increasing weight of the animals. conclusion we would draw is that where the feed can be fed to light hogs it will in most cases pay to sell the heavier ones as soon as they are fit. or at about 200 pounds, provided the markets did not promise an immediate substantial rise.

As land goes up in value, it is up to the farmers to make a better use of each acre than was heretofore necessary. See to it at springtime that a little better preparation is given when preparing the seed-bed.

### Substitute for Milk in Feeding Calves.

To the Editor "Farmer's Advocate"

Doubtless some of your English readers will recollect that about the year 1864 or 1865, a terrible plague, or rinderpest, broke out amongst the cattle in England, which was of such a virulent and deadly nature that treatment was quite



Shorthorn heifer as seen at Hillside Farm, property of Mr. L. Burnett, Greenbank, Ont., the home of Imp. Count Sarcasm. Bred by Mr. Duthie.

useless once a beast was attacked, the consequence being that very few cattle were left alive in the country, but in the Sister Isle (Ireland) there was fortunately no outbreak, and Irish cattle took a jump to more than double their former price.

Before this calves, especially males of common stock, were not considered valuable enough to justify the trouble of rearing them, and thousands of new-born calves were knocked on the head at hirth, but when, owing to scarcity, cattle took a rise in price, people who before destroyed their calves turned their attention to rearing them, and to discovering a substitute for milk, so that they could sell their milk and rear the calf at the same I am aware of several substances being tried, amongst them being clover hay boiled, and the liquor given to the calves. This did fairly well, but the best results were had by using cocoa. Cocoa shells were selling at the time from three to four cents per pound, and many people used it instead of tea or coffee. The treatment of cocoashells is alike, whether intended as a human beverage or calf feeding. The process is to put about a quarter of a pound of the shells into a kettle holding about two gallons of water; fill the kettle with water, bring it to a boil, then place it on the back of the stove, where it can simmer for about two hours or longer, then pour it is about the same as new milk, then add about or butter produced, but we would not expect to

of years ago, and I intend to do the same this season.

The calf I experimented with was from a good grade Shorthorn cow and a pure-bred Shorthorn bull. It was not on account of the scarcity of milk, but for the purpose of demonstrating to some of my neighbors the benefit of the cocoa. I first procured twenty pounds of shells from the T. Eaton Co., of Toronto, at three cents per pound, and put two large fistfuls into a number nine tin kettle full of water, and treated as above (I may say that I fed the calf on full milk for two weeks), I then drew off enough liquor for one meal, made it as sweet as new milk, and then added one pint of skimmed milk, and when cooled to blood heat fed it to the calf. I continued with this until she began to eat coarse feed and chew her cud, when I began to add a little well-boiled She was never troubled with linseed meal. scours, was always hearty, and was admired by all who saw her, and some people, who did not know how she was fed, thought she was let run with the cow. A neighbor bought her, and some time after, she having her first calf, he decided to go to Manitoba I offered him a good price for the heifer, but he would not sell her.

Mr. F. T. Shutt, the Chemist of the Central Experimental Farm, in his annual report for 1898, in dealing with the subject of cocoa shells, says [For the benefit of those who may not have seen the 1898 'report of Experimental Farms, I give Mr. Shutt's repore in full]:

### COMPOSITION OF COCOA SHELLS.

"This is a waste or by-product from the cocoa and chocolate factory. A sample received from Halifax, N.S., with a request for a report on its feeding value, furnished the following data:

	Per cen
Moisture	5.12
Albuminoids (flesh-formers)	
Fat	12.92
Carbohydrates, sugar, etc	45.43
Fiber	13.17
Ash or mineral matter	6.92
rtilizing constituents-	
Nitrogen	2.63
l'hosphoric acid	98
Potash	

"The analysis makes clear that it contains a high percentage of albuminoids, and is also rich in fat-two of the most important constituents of a feeding stuff, providing it is fairly digestible, a point upon which we have no information, save that cocoa butter or fat is readily assimilatedthis refuse material is a concentrated feed of high order. If ground to the condition of fine meal, I am of the opinion that its digestibility would be much increased, and that it would prove serviceable as furnishing a part of the concentrated portion of the ration. The quantity that could safely or profitably be fed per diem would have to be ascertained by actual experiment; probably about two pounds per day, with other meal, would be the limit. Again, it is not known off enough for one meal, sweeten with sugar until whether it would impart any flavor to the milk

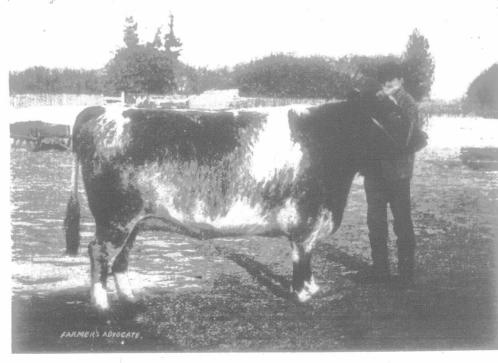
find any, if used in the amount already

" Attention is directed to the richness of this material in fertilizing constituents, more especially nitrogen and potash. These, for the most part, would be recovered in the solid and liquid excreta of the animals to which it is fed."

The above report, just quoted, will go a long way in proving my contention that a decoction of cocoa is the best substitute for milk to feed to calves. Since Mr. Shutt made the above report I had correspondence with him on this same subject, and I am certain that any one interested writing him will receive more information on the subject. I may say in conclusion, that the 20 pounds of cocoa shells sufficed

J. J. SHAIL.

It rains alike on the just and the unjust. But for this blessing we no doubt would have a very



NONPAREIL 57TH = 37124 = . Shorthorn cow, sired by Lord Stanley =17819=, junior champion, World's Fair, Chicago. BRED AND OWNED BY J. & W. RUSSELL, RICHMOND HILL, ONT. (See Gossip, page 181)

one pint of skimmed milk, or less will do if that to feed the calf until weaning time, with the addimuch is not to spare. The kettle need not be tion of five pounds linseed meal-or an outlay of emptied, indeed it is better not, but put a little eighty five cents. ing water, and let it holl and simmer as before, and by this means the calf's feed is always ready I experimented with this substance myself a couple dry spell,

### Care for the Ewes.

The ewes in the sheep flock which will be due to produce early lambs need a little extra care and feed as the lambing time approaches. If they have not been receiving roots, a moderate supply of these will help to keep up their vigor and health, while a light ration of oats and bran will provide the necessary milk supply, as well as give strength to both the ewe and her lamb. If the most of the ewe flock are not likely to lamb near the same time, it may be well to divide the flock and feed more liberally those that are more forward in pregnancy, as those due later may become over-fat if they share in the better feeding. See that all cracks or openings in the walls of the pen which let in cold drafts are closed as the lambing season approaches, and have provision for closing all outer doors at night. A supply of light, low hurdles, about six feet in length, should be provided for making pens in which to confine for a day or two the ewe and her newborn lamb or lambs, so that they may become acquainted. This may not be necessary if the lambs come strong and able to help themselves, but any that are weak or that are neglected by the dam will need some such provision, and especially in the case of twins, which are liable to get separated and one to be disowned by the mother. Confinement in such close quarters, however, should not he continued many days, for exercise is good for both the ewe and the lambs, and the former will feed more contentedly and with less danger of over-eating if faring with the other members of the flock

### The Range Steer.

To the Editor "Farmer's Advocate":

In a recent article your special correspondent in England says: "It should not be forgotten that the Canadian ranger is a grass-fed animal that he is wild, and that he has a long, rough. harrassing railway journey before reaching shipboard." Seeing I was a stockman in the Old Country before I came to Canada, I have concluded that the range animals in Canada's West are reared very similar to the cattle on the hills at home, they only being fed when severe weather or a storm makes it absolutely necessary. At all other times they find their own food, until sold in the fall at two and a half to three years old, to be finished by the grain farmer. I cannot see why Ontario feeders' cannot do the same with our Western stock

It, is, perhaps, worthy of mention in this connection, that a bullock from the old place at home. finished by a grain farmer, took the premium prize at Smithfield some twenty-five years ago. He was a Shorthorn-Galloway grade, and weighed over 3,000 pounds. MITFORD.

Cochrane, Alta.

# HORSES

# The Spring Stallion Show.

Although projected with considerable timerity, without special building accommodation, and with no precedent for guidance, the Spring Stallion Show was a most successful experiment. doubtedly it was the best exhibition of heavy draft stallions ever seen in Canada, and its success is the surest guarantee of greater achievements in the future. The show was held on the



MR, W. E. WELLINGTON, TORONTO. President Canadian Shire Horse Breeders' Association.

4th, 5th and 6th inst., in Grand's Repository, corner of Simcoe and Nelson streets, Toronto. The stables, offices and judging ring were gratuitously placed at the horsemen's service by the proprietor, Mr. Walter Harland Smith, and to Mr. Smith, more than to any other one man, belongs the credit of the success of the show. For nearly a whole week his business was suspended, and his time and every other consideration devoted to the interests of the exhibitors and spectators. by having the use of Grand's Repository could the show have been made so great a success, as no other building in Toronto was available for the

Speaking for the "Advocate," the judge in all classes, Mr. Joseph Watson, of Lincoln, Nebraska,

said: "For a combination of size and quality, I have never seen this show excelled," and this was the outstanding feature of the show. the compact, useful little horse, and the big. rangy fellow were both there, the types were not so strongly marked as at most of the recent shows, and it is evident that the exhibitors, at least, have a proper ideal in mind. In all there were about eighty entries present, the principal exhibitors being: Graham Bros., Morris & Wellington, Toronto; J. B. Hogate, Sarnia; R. Ness, Howick, Que.; Robt. Davies, Toronto; Robt. Beith, M.P., Bowmanville; O. Sorby, Guelph; and Smith & Richardson, Columbus. judging in all classes was fairly satisfactory, although in many cases the placing was not a fair

criterion of value. In the section for Clydesdale stallion foaled previous to January 1st, 1900, the entries were so numerous that two sections were made of it,

the four-year-olds competing alone, and the aged stallions making up a select company of their own. The prize money for this additional class was made up from the unused money in some of the unfilled classes. In the class for aged Clydesdale stallions, Graham Bros. won the red, with Stately City (imp.), by Prince Romeo. He is a very solid horse, with clean, strong legs and good pasterns, and was afterwards awarded sweepstakes over all the Clydes. King's Cross, imp. and shown by Smith & Richardson, sired by Sir Everard, another strong-fronted, clean-limbed horse, with good shoulders and true action, was second. The third place was given to Duke of Cornhill (imp.), sired by Duke of Rothesay, a deep, well-limbed horse, also owned by Smith & Richardson. Mr. Robt. Beith with Prince Priam (imp.), by Prince of Albion, a strong horse, with legs well placed and long pasterns, won next place. J. B. Hogate took fifth with Sir Reginald (imp.), a very active horse, and sixth place went to Laird of Craigie (imp.), a well-put-up horse, solid and not too rangy, with strong legs and good feet, the property of Smith & Richard-W.-J. Squires secured next position, with Sir Oswald, sired by Prince of Scotia.

The four-year-olds were also a large class, very uniform in size and quality. The first place went to Pioneer, by Sir Arthur, a nicely topped horse, well turned and a good mover, owned by Smith & Richardson. In the next two places Mr. Beith was the lucky man. Peveril, sired by The Prior, a good mover, with fine flinty legs, strong pasterns and good feet, was second, and Star of Roses, by King of the Roses, also a horse of great quality and nicely turned, was third. Sentinel, by Montrave Sentinel, exhibited by Graham Bros., was fourth. Coynachie, son of Blacon Macgregor, a horse with a good top, well limbed, of the right type and a good actor, took fifth place for Wm. Colquhoun, of Mitchell, and H. Boag, of Churchill, took sixth with Primrose Pride, by the great Baron's Pride, a close coupled, solid horse, combining well scale and qual-

When the three-year-olds were called, fourteen faced the judge, and made up a very good class, although some were small and others too high and narrow, evidently a miss in the effort to seure great size at one master-stroke In this class Graham Bros.' newly-imported Cairnhill, sire Ethiopia; had to go up head. He is a large, rangy black, but well coupled and nicely turned, despite his size, and considering that he just arrived from Scotland four hours before he was shown, his success was the more remarkable. His beautiful combination of size and quality are hard to heat, and he is a model of the best type of the breed he represents. Though not as rangy as Cairnhill. Cecil, by Macara, shown by Mr. Ness, has fully as much quality, and moves splendidly, and only took second place on account of his lesser size, and he is by no means small. He is certainly a horse of excellent type, and would stand well in high-class company in any country. Lavender, by Glenzier, exhibited by Smith & Richardson, a heautiful actor and nicely put up, with a fair complement of quality, took third station. Fourth place went to Craig Stamp, a sprightly acting, well-limbed horse, of the selling type, shown by Graham Bros. Sorby's Florist took fifth place, and Hugh Semple won sixth with Silver Prince.

Clydesdale stallions foaled in 1901 were a smaller class, only four coming out. The first place was taken by Royal Park (imp.), sire Montrave Mac, a rather solid horse and a good mover, with splendid feet and legs: J. B. Hogate exhibitor. The next three positions were taken by sons of Macqueen [162] (5200). Glenevis, a rangy, neat fellow, with good hone, won second for John A. Turner, of Calgary. Alexander Macqueen, J. W. Cowie's horse, had to take third place, although he had lots of bone and quality, with nice quarters and a very sweet head. Lyon Macqueen, J.

H. Millard, Altona, exhibitor, was fourth. In the class for Canadian-bred Clydesdale and Shire stallions over three years old, eight came out. J. G. Clark's Woodroffe Plowboy, a 2100pound horse, and a fair mover, went first. Lord Aberdeen, bred and exhibited by Francis Russell, Cedarville, took second. Merriment 2nd, bred by



COFONATION, IMP., [354]. Twoycat-old Shire stallion & Winner of first prize and championship, Canadian Spring Stallion Show, Toronto, 1903. IMPORTED AND EXHIBITED BY MORRIS & WELLINGTON, FONTHALL, ONT.

was ough big. not OWS, east, were ex-

Wel-Ness. lobt. , alfair paled were f it,

aged their class ne of ydeswith is a good Sir nbed was e of h & riam with next egin-

legs ardwith very went orse mith Seith rior, pasgreat order by n of well took dH.

rose

cou-

it-up

qualrteen lass high airnis a icely t he e he able. are type angy Mr. plenit of He ould

1 & up, third p, a lling orist with first Monover. xhibsons neat n A. ough

ntry.

quar-n, J. and came 2100-Lord ssell, d by

Broad, V.S., Lindsay, was fourth.

by Delly Bennett, Russelton, fifth.

Clark's Arbitrator again got sixth.

gregor.

in some other classes. Pride of Eastfield, bred

by A. W. Clemens, and exhibited by Graham

Bros., a low horse, but a good mover, with a

nicely turned body and quarters, and with good

bone, was first choice. Lord Donald, bred by

Wm. Rae, St. Paul's, Ont., has heavy quarters,

well rounded body, and considerable quality, but

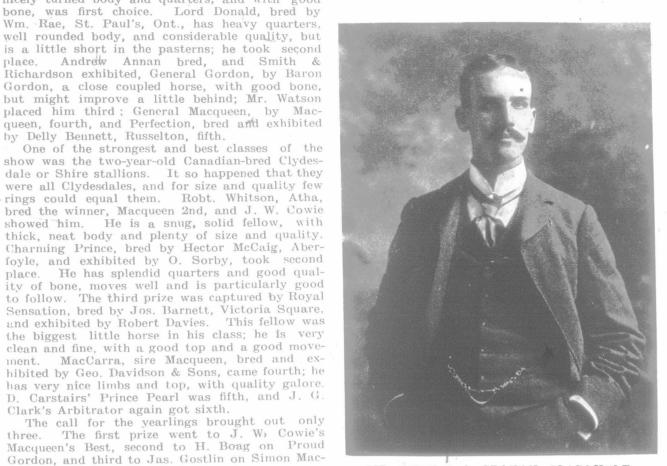
place. Andrew Annan bred, and Smith &

show was the two-year-old Canadian-bred Clydes-

thick, neat body and plenty of size and quality.

S. C. Bunker, Pickering, a nicely turned, solid criticism from a number of other eminent authorhorse, third, and Granite Lad, bred by D. Duncan, ities. An examination of the book will show that Hagerman's Corners, and exhibited by W. F. he has succeeded well in the undertaking. more technical paragraphs for professional readers are given in smaller type. The table of In the three-year-old section six competed, and the general excellence was not so pronounced as

contents and lists of illustrations are alike complete, and will be appreciated by the reader. The closing chapters on soundness and unsoundness, examination for age, dentition and shoeing, ac-



MR. THOMAS A. GRAHAM. CLAREMONT. President Canadian Hackney Horse Breeders' Association.

numerous as in the Clydesdale sections, but the quality was not lacking. In the class for stallions over three years old, Flagship (imp.), sire companied by so many clear engravings, are not Timon, won the red. He is a very gay horse the least valuable of the work; which we can cordially recommend as an addition to the libraries of our horsemen where it may not already have found a place. The price of the volume is

\$4.00, and may be ordered through this office.

Mr. A. F. Maclaren, M. P. for North Perth, Ont., comes out in favor of a barn-painting crusade, which in a few years would transform and beautify the appearance of rural Canada.

## Bone Diseases of Horses' Legs.

The bones of the limbs of horses are subject to a variety of diseases, some of which are liable to cause permanent and in some cases incurable lameness, hence must always be considered an unsoundness, while others are not so serious, seldom or never cause permanent lameness, and in many cases are not considered as constituting unsound-

While it is seldom wise for an unprofessional man to attempt treatment in a case of lameness caused by disease of bone, especially where a joint is involved, it is well that all horsemen should understand the nature of such diseases and be able to recognize them when present. In order to be able to appreciate them and understand their nature, a slight knowledge of the structure of bone and its fibrous covering is necessary.

Bone is composed of two modifications of tissue; the external portion, varying in thickness in different parts of the bone, appears hard and compact, and is called the compact tissue; internal to this is a much less dense, somewhat friable tissue, composed of plate-like structure with small spaces, called cancellated tissue. In the long bones of the limbs this tissue surrounds a space called the medullary canal, which contains the marrow. Bones that are known as flat or irregular bones do not contain a medullary canal. All bones are covered with a tough, fibrous membrane, called the periosteum. This membrane does not exist over that portion of a bone that helps to form a joint; at the same time, the surface of one bone does not come in direct contact with that of another in a healthy joint. In order to avoid the friction that this would produce, the opposing surfaces of all bones concerned in joints are clothed with a special covering, called articular cartilage. Each joint is enclosed by sac-like ligament, called the capsular ligament, the internal surface of which is supplied with cells which secrete and supply to the joint for lubrication, a fluid called synonia or joint oil. In the majority of bone diseases, especially those of the joints, inflammation is set up, by concussion or direct injury, in the cancellated tissue of the bone; this extends and involves the compact tissue and the articular cartilage, the latter is destroyed. As a result of the inflammatory process, a soft material, called an exudate, is thrown out; the articular cartilage being destroyed, the bones come in actual contact with each other, and this, with the inflammation present, causes lameness. When this cartilage is destroyed it will never be reproduced. Lameness will continue so long as this condition exists. The exudate spoken of has a tendency to become ossified (converted into bone), thus uniting all the bones involved into one. process is called anchylosis. When this process is completed inflammation ceases, hence pain is no longer present, and if the joint or part of the



STATELY CITY [1362] (10466). Clydesdale stallion. Winner of first prize and championship, Canadian Spring Stallion Show, Toronto, 1903. IMPORTED AND OWNED BY GRAHAM BROS., CLAREMONT, ONT.

that moves with the style and spirit of a Hackney;

In the Shire classes the entries were not as

he is strong and solid throughout, well muscled and nicely turned. J. J. Anderson, Dominionville, Ont., was the exhibitor. Nateby Monarch 2nd (imp.), sire Tartan 2nd, imported and exhibited by J. B. Hogate, got second money. He is a rangy black, with good limbs and shoulders, and nicely topped. Morris & Wellington won third on George Lennox, by Lennox (imp.), a low, solid horse, with clean limbs, but not of the best market type.

Two entered the ring in the three-year-old class, Bank Statesman winning first for Morris & Wellington, and Vulcan 2nd second, by the same

The honors in the two-year-old class were divided between Morris & Wellington's two newly imported colts, for which they paid the long prices General Favorite, the first in his last summer. class at the Royal and reserve for championship honors, did not appeal so forcibly to Mr. Watson, and his stable companion, Coronation, being a little thicker, was given first place. Both these colts are black with a white stripe and one white hind foot; they are a very valuable addition to the Shire studs of Canada. Coronation was afterwards awarded the sweepstakes of all the Shire classes.

# New Book for Horsemen.

Canadian horsemen will remember with pleasure a couple of instructive and entertaining articles published in the "Farmer's Advocate" from the pen of that well-known author of equine literature, Capt. M. H. Hayes, F.R.C.V.S., of England. From his publishers, Messrs. Hurst & Blackett, we have just received a copy of the sixth edition, revised, enlarged, and otherwise improved, of his standard work "Veterinary Notes for Horse Owners." In brief, it is a manual of horse medicine and surgery, written in popular language, a volume of 828 pages, with no less than 267 illus-In consequence of the excellence of the trations. paper and typography, it is by no means a cumbersome volume, and it is a fair indication of its practical and popular character, especially in the treatment of ailments, that each successive edition has had an increasing sale, the total number of copies now reaching nearly 19,000. As a horseowner, trainer, rider, traveller, military officer and veterinarian, of good general scholarship Capt. Hayes was peculiarly well qualified to write this book, which is designed to be of equal benefit to the horseman of ordinary education and to the veterinary surgeon. The work of revision has occupied three years, and in it Capt. Hayes acknowledges many valuable hints and kindly

joint affected be not one of extensive motion, occurred, rest and hot poultices or fomentations, lameness disappears, and even a stiffness is not with cooling lotions, as one composed of one cure in this way, but the process is materially, to a pint of water, will usually succeed in allayassisted by what is called counter-irritation, or ing the inflammation and effecting a cure; but if producing a superficial irritation by applying blis- the disease has reached that stage in which the ters or the hot iron (which is called the actual cautery), followed by blistering. This counterirritation increases the internal inflammation, hastens anchylosis, and, as a consequence, the subsidence of inflammation, and in the majority of cases lameness ceases. Having briefly described the anatomy of the parts and the nature of the disease, without using more technicology than necessary, we will now speak of some of the dis-

ANCHYLOSIS OF THE KNEE.—This is not of common occurrence, but occasionally met with. Inflammation is set up in some of the bones of the knee; there is, in most cases, no swelling noticed, but the horse goes lame. If severe he will stand with his knee semi-flexed, when in motion he travels quite lame and flexes the knee as little as possible, the lameness increases on exercise and is particularly severe when trotting down hill. Manipulation of the parts causes pain and forcible flexion (by flexion we mean bending so as to fetch the bone of the forearm and that of the cannon as close together as possible) causes acute pain, so much so that the animal will frequently rear off the other leg. After a time a greater or less enlargement will be noticed, at first of rather a doughy feel, but gradually becoming harder as the process of ossification advances. In the meantime anchylosis is taking place, and when these two processes are completed inflammation ceases, and he will no longer go lame, but may go more or less stiff, according to the portion of the joint that is anchylosed. In the knee there are really three articulations. The small bones of the joint consist in seven and sometimes eight, arranged in two rows. The lower end of the large bone of the forearm articulates with the upper surface of the upper row, and here is where the greatest motion exists; in the articulation between the rows of bones there is less motion and in that between the inferior surface of the lower row and the upper ends of the cannon bones still less. The bones concerned in the lower articulation may be completely anchylosed without materially interfering with action. If the middle articulation be involved, stiffness will be noticed, and if the upper articulation, there will be a stiff knee. With a healthy knee it is an easy matter to flex the limb until the heel of the foot touches the point of the elbow; where anchylosis exists this is not possible, and the closeness to this contact will depend upon which articulation is anchy-

Treatment for this trouble depends upon the progress the disease has made when treatment If before alteration of structure has commences.

Nature will, in many cases, effect a ounce each, sulphate of zinc and acetate of lead articular cartilage has become destroyed, it is not possible to effect a perfect cure, as this structure

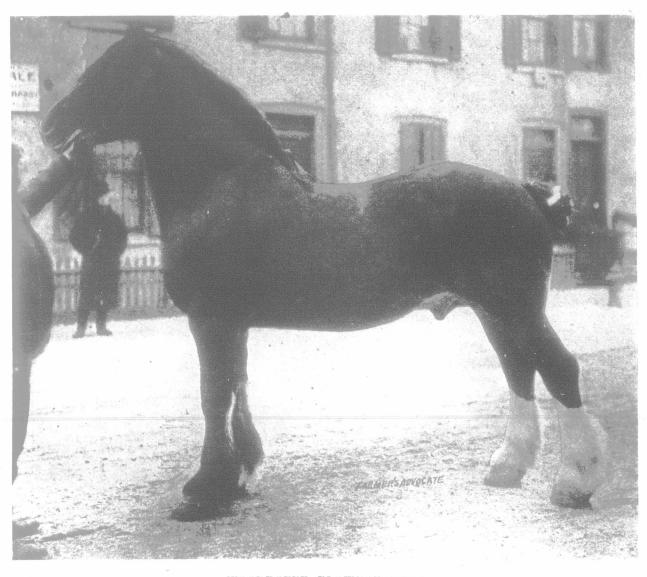


LT.-COL. D. McCRAE, GUELPH. Presid ent American Cotswold Sheep Breeders' Association.

cannot be reproduced, and treatment must be directed to hasten on the process of anchylosis. This is done by counter-irritation, either by blistering or the actual cautery followed by blister-The latter is the most satisfactory, but should be employed only by a veterinarian. In the meantime the animal must have rest, else the whole joint may become involved. It is usually necessary to give at least two months perfect rest, longer if possible.

I will speak of other bone diseases in future "WHIP." issues. 🖟

Best of all possessions is that grand quality, common sense, and those who can truthfully lay claim to the largest share are the very ones who feel that they have much to learn.



WOODROFFE PLOWBOY 122961 First-prize Canadian-bred Clydesdale stallion, Canadian Spring Stallion Show, Toronto, 1903. OWNED BY J. G. CLARK, OTTAWA.

# FARM.

### A Women's College.

To the Editor "Farmer's Advocate":

Sir,-When the idea of a Women's College at Guelph, Ont., as a department of the O. A. C. was accepted, there were several very pessimistic opinions expressed as to the degree of appreciation it would receive. It seems only fair to your paper to say that the response to the article I contributed to your Christmas number, on the "New Education for Women," has been astonishingly sympathetic. Letters have come to me, asking for further information, from the Atlantic to the Pacific. I did not dream that your paper had such a wide circulation.

One lady, a farmer's wife, writes from far away British Columbia, "that article was written for me." The writer had been concerned about the education of her daughters, and anxious that they should not be weaned away from the farm in the process of education, but that life on the farm should be made interesting. The idea of a school where agriculture was treated with the respect it deserves, together with the womanly arts pertaining thereto, was just what was wanted. letters have all been from farmers' wives and daughters, with an occasional word of encouragement from a farmer's son. The questions asked have proved conclusively that the women living on farms are eager to improve their condition, and realize that they have not had as many opportunities for an education along their special lines as has been afforded to teachers and those engaged in other occupations.

The question has been asked so often, "Why are you so interested in agriculture, and the women on the farms," that I am tempted to make a personal explanation, so that in future I may not be misunderstood. My interest is inherited from generations of agriculturists, and half my life was spent on a farm. So to any of your readers who may think that my views are simply the theoretical musings of a city woman, without any practical knowledge of farm life, I beg to say that never for a day have I lost interest in rural life, and the knowledge of city life has enabled me to make comparisons from actual experience-not always in favor of the city, either. It is quite reasonable to question the views of one who has had no practical experience, and I am glad to have this little confidence exchanged with my readers, whom I trust will receive me as a friend. The curriculum of the New Women's College to be opened at the O. A. C. next September is under consideration, and will be published shortly. It will give a general outline of the courses of study, and it is hoped that a wide demand may be made for it, as the arrangement of studies is such that every one may find something for their special need. Could you not keep a supply at your office for inquiring subscribers?

Thanking your readers for their kind letters of appreciation, which have been too numerous to answer personally, and assuring them that the information they seek will be given in the published circular, which I shall see that they receive, ADELAIDE HOODLESS.

[Editor's Note.-We presume copies of the circular referred to may be obtained from Mrs. Hoodless, Hamilton, or Dr. James Mills, O. A. C., Guelph.]

# Hulless Barley.

Referring to the enquiry in your January 15th issue, regarding the feeding value of hulless barley, I may say that we have recently completed an analysis of this grain as grown at Grand Prairie, Ducks, B.C. For the purpose of comparison, we add the average composition of ordinary 6-rowed barley, as grown in Ontario-this average being obtained from 20 samples analyzed by us in 1895:

		6-rowed
		Barley.
Moisture	9.26	11.96
Protein	8.81	-10.57
Fat	1.22	2.06
Carbohydrates	. 77.76	68.90
Fiber	1.09	4.10
Ash	1.86	2.41
	100.00	100.00
	100.00	100.00

From these results it appears that hulless barley is not so rich in protein and fat as 6-rowed barley. We may conclude, therefore, that it is inferior in feeding qualities to the latter. A point, however, in favor of hulless barley-and especially when intended for pig feeding-is that it contains less fiber than the 6-rowed barley.

FRANK T. SHUTT, Chemist. Dom. Exp. Farms.

ge at

A. C.

imistic

precia-

o your

ticle I

n the

tonish-

o me,

tlantic

paper

r away

en for

it the

t they

in the

farm

school

respect

ts per-

s and

urage-

asked

living

dition,

ny op-

special

those

hy are

women

ake a

ay not

d from

fe was

rs who

heoret-

prac-

v that

al life,

me to

not al-

quite

ho has

lad to

th my

friend.

ge to

s under

study,

made

h that

special

r office

ters of

us to

t the

e pub-

receive,

he cir-

Hood-

A. C.,

y 15th

ss bar-

npleted

Grand

f com-

f ordi-

o-this

nalyzed

wed

ley.

96

57

06

90

10

41

0.0

ss .bar-

-rowed

t is in-

point,

pecially

ontains

### Road Making.

The time does seem ripe when more brains should be put into our road-making. Eastern Ontario, by its model road-construction train, has had a great incentive and a valuable object lesson parts of Ontario, and in other Provinces as well. In addition to the splendid work which Mr. A. W. Campbell, Commissioner of Highways, is carrying on in Ontario, a good roads crusade through the medium of the Farmers' Institutes would be opportune and of inestimable value. Between now and the time when road-work can be done, we want the readers of the "Farmer's Advocate" to do some solid thinking on the subject. Many municipalities have not been thoroughly awakened.

Thorough drainage is the first essential in building a good road. It is simply impossible to have good roads without it. Grading and gravel largely go for naught when undermined or submerged by water. Get the water away and subsequent efforts will count. Even ordinary clay roads without gravel, where the traffic is not too heavy, can be kept surprisingly good, even in a wet season, when properly drained. We recall such a clay road that last summer, which was very wet in that locality, was a pleasure to travel With the sides drained, it was also well graded-the second step in the making of a highway-not too wide and with enough crown to shed the water. After every shower it was somebody's business to scrape the road with a blacksmithmade grader. The weeds and thistles were kept cut and the culverts with large cement tiles were in good condition.

Municipal councils should employ thoroughly competent men to run their grading machines, and put them at work about the last of March or the first of April, or just as soon as the roads begin to dry up. Hitch a traction engine to the grader instead of horses, and keep it going until June; put in tile drains wherever practicable, and then furnish each sideroad or concession with a cheap grader, and have someone appointed to go over the road after rains. The "finishing touch" is to put on a coat of fine gravel-not rocks and boulders, to roll around for years, ruining rigs and horses, and largely nullifying the work of the church on the Sabbath, as far as temper and language are concerned. As a "means of grace," the average Canadian clay road is a desperate failure. It is fearfully and wonderfully made, or else, like Topsy, it is not made at all—simply "growed up." Then remember this: After a road has been properly constructed it requires some intelligent supervision-it won't maintain itself properly for ever.

Take another caseone of the oldest gravel roads in the country, running from one city to another. For the most part, over a certain five miles of the roadbed was 30 or 40 feet wide, and in many places as flat as a pancake, often hollowing in the center, holding pools of water, and the tracks deep trenches of mortar. On several hills we noticed the center of the driveway actually lower than the sides, so that the water ran down in torrents, carrying back into the river the gravel which the contractor had recently been well paid for hauling out. Next year the process will be repeated. In fact, it was a clear case of go-as-you-please municipal perpetual motion, supported by the long-suffering taxpayer for the benefit of the contractor aforesaid. As we passed on, just inside the city corporation, the road reached its climax. At a half-mile of unfathomable ruts and mud, we awarded it, without chance of protest, the sweepstakes as a disgrace to any civilized country, and put up a sign at the end-"Abandon hope all ye who enter here." No alderman or city engineer had ever been seen to venture upon it. He would soon have disappeared for ever, amid the product of his own incompetence.

The work of the road reformer is not yet compicted. J. D. T.

### Mr. Dooley on Oats as a Food.

Mr. Dooley's latest is a satire on the numerous "breakfast foods" so widely advertised. Invited to breakfast with his friend Joyce, Mr. Dooley is served with something he likens to "Mush, be which might with advantage be duplicated in other hivens!" "Says Joyce, 'It's a kind iv scientific oatmeal,' says he. 'Science,' says I. 'has extracted th' meal'......Somewan discovered that



MR, R. H. HARDING, THORNDALE, President Dominion Sheep Breeders' Association.

th' more ye did to oats th' less they tasted, an' that th' less anything tastes th' betther food it is for th' race. So all over th' countrry countless machines is at wurruk removin' th' flavor fr'm oats an' thurnin' thim into breakfast food. Breakfast food is all ye see in th' cars an' th' Decatur th' other day an' they was eighty-siven kinds iv oats on th' bill of fare.....People don't have anny throuble with their digestions fr'm Tis thinkin' makes dyspepsy! worryin' about th' rint is twinty times worse f'r a man's stomach thin plum puddin'. What's worse still is worryin' about dygestion." it can so change him that to a he may appear a lovely sinner.

him as sthrong as a horse," said Mr. Hennessy "It ought to," said Mr. Dooley. "Him an" a horse have th' same food.'

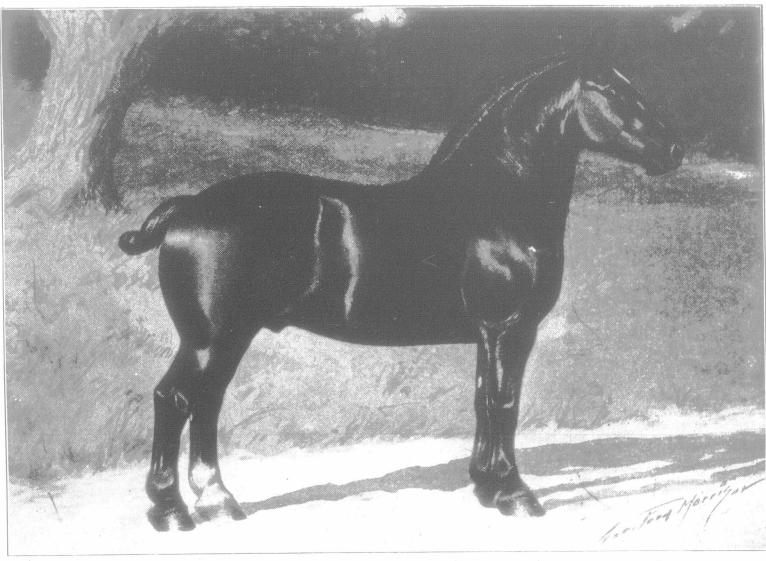
### Study the Weeds.

In the great war against weeds, it is of the utmost importance that farmers become familiar with their distinctive peculiarities as to habits of growth and the general appearance of the plants and their seed, so that they may be able to adopt suitable measures for fighting them.

Like all other plants, weeds are classified according to their length of life, as annuals, biennials and perennials. Annuals, as their name implies, exhaust themselves in a single season. They are of two classes: winter annuals and summer annuals. The first named variety spring up in the fall and live over winter, producing seed early in the summer; while the summer annuals spring up, grow and die during the same season. Biennials, although existing two years. only produce one crop of seed. During the first year they devote their energy to the production of seed-making materials, which are stored up in a fleshy taproot. The second year, the plant develops more fully, matures seed, and dies.

Perennials, like biennials, produce neither flower nor seed the first year. Unlike biennials, however, they yield repeated crops during succeeding seasons. There are two classes of this variety of weeds. One having creeping or underground stems, by which the plant spreads, and another which has an ordinary root, but does not multiply by that means. To this class belong bulbous and taproot perennials. Although a knowledge as to whether the life-history of a weed extends over one, two or more years may be of great value when methods of eradication are being considered, yet it must be remembered that annuals, for example, differ very much in the amount of labor necessary to destroy them. Each weed should be known, and, in this country where they are alarmingly on the increase, an effort should be made to encourage public school pupils to become interested in this work.

Unchangeable politeness is a grand virtue, and although it cannot transform a man into a saint it can so change him that to all whom he meets



THE PERCHERON STALLION AURORE 29884 (45733).

Prize-Winner at ...e Show of the Societe Hippique Percheronne, Mortagne, 1902. Imported by Dunham, Fletcher & Coleman, Oaklawn Farm, Wayne, Du Page County, Illinois.

## Fuel Problems.

\* The coal shortage which is being so keenly felt in every town in America has not failed to effect the farmers, although in most places sufficient wood is grown to supply fuel. Even where no direct effects are felt, the situation has been such as to set every thoughtful man pondering on the possible results of another such shortage. The possibility of it occurring again, when we are in a more helpless position, suggests to us that we should begin now to prepare for any emergency. There are three ways in which this preparation may be effected: 1. By the development of Canadian coal mining; 2, by the general adoption of electricity for fuel and light, and 3, by the planting of trees on every foot of rough land.

The first problem, being one for capitalists, does not present itself to the farmers for solution, except that it should be encouraged, but not supported, by legislative measures. Such development will, of course, benefit most those districts important to feeding the cows, is careful selection contiguous to the coal deposits, and unless the United States chooses to prohibit the exportation of coal, the greater part of our population will continue to use the American product. Unfortunately for Canada, our coal deposits are at either side of the continent, while the greater part of the population is toward the interior. It will, nevertheless, be well to be prepared for further "protective measures" on the part of our neigh-

The general adoption of electricity is also a problem for the company promoter. This means of heating is certain to be more largely introduced in the near future. It is one of the most feasible of our modern innovations. The power from our many creeks and rivers could comparatively easily be utilized for the generation of heat. In this matter people should have clear ideas, as Township and County Councils are certain to be approached by companies asking for subsidies, bonuses, exemption, protection, etc. The answer which should be given these promoters, is that the day of such bonusing is past, and people are now prepared to give value for value. auguration of electrical heating plants should be put upon a purely commercial basis, and be subject to open competition. Neither should municipalities grant exclusive rights to companies contemplating engaging in the operation of electrical systems. By such means the necessity of municipal ownership will be avoided, and at the same time there will be no oppression from monopolies.

In regard to the more general planting of trees, it is noticeable that an increasing sentiment is abroad in favor of active measures for the preservation and propagation of our forests. The most effective improvement to each farmer, however, will be gained by each planting trees upon his own land, wherever such a course is practicable. By all means the rough lands and creek banks should be set with trees, and a more general system of tree planting, on roadsides practiced. While we may never again feel as great necessity for wood as exists at present; still, we shall always need a certain amount of timber and lumber about the farm, and there is no better time than the present to begin making preparations for such emergen-

# Dr. J. Orlando Orr.

Dr. J. O. Orr has been unanimously appointed Secretary and Manager of the Toronto Industrial Exhibition, successor to Mr. H. J. Hill, whose retirement was necessitated by continued ill-health. The new manager was born in Vaughan Township, York County, in 1861, being the son of a farmer, Mr. Wm. A. Orr, still living retired in Parkdale, at the age of 84 years. Dr. Orr graduated in medicine in 1883, and has since practiced in Toronto. He entered municipal life as an alderman in 1890, being elected Chairman of the Parks and Exhibition Committee in 1891. He has been 13 years on the Fair Board, three years Chairman of the Finance Committee, and last year Chairman of the Executive Committee, as well as Vice-President of the Board. He has also been actively associated with the development of the Toronto Technical School. Among the agricultural souvenirs in Dr. Orr's possession is a silver medal which he won at a plowing match in his native township at 21 years of age. It is confidently expected that the future of the great Fair will amply justify the wisdom of his appointment for the important position which he now holds.

# Cement Tank.

Mr. Wm. Quinton, Huron Co., Ont., tells us he has had in satisfactory use during the past year a round cement tank, out of doors, filled from well by windmill, through one-inch pipe over top. Other tanks are supplied from it. It is nine feet high and twelve feet in diameter, and the walls are ten inches thick, with a bottom three or four inches thick, over stones bedded on the clay. He used five parts sand to one of Portland cement. It was plastered about one-eighth of an inch thick inside, after the wall had dried, with equal parts fine sand and cement, and there has never been any leadage. It stands above ground.

# DAIRY.

### Dairymen's Meeting at Strathroy.

On January 27th a meeting of dairymen, farmers and ladies interested in dairying and domestic science was held in Strathroy, under the auspices of the Western Dairy School. Among the speakers were Prof. C. C. James, Mr. G. C. Creelman, Mr. Duncan Anderson, Mr. Erland Lee, Mrs. Torrance, and Mr. John Brodie. Mr. Erland Lee discussed the management of the dairy herd, laying particular stress upon the importance of selecting feeds with regard to their chemical composition, in order to minimize the first cost of dairy products. A ration recommended by Mr. Lee consisted of ensilage, red or alfalfa clover, bran, oil cake and oats. By mixing these foods, a nutritive ratio of about one to six could be secured; an ideal ratio for ordinary herds. Equally and persistency in breeding to type. Choose a breed, stick to it, and by the constant use of the scales and Babcock test endeavor to select animals possessing the very best dairy characteris-

Mr. Duncan Anderson took for his subject, "Maintaining Soil Fertility," and the manner in which he impressed the fundamental principles of cultivation upon his hearers was a credit to any speaker. The importance of conserving soil moisture, of retaining fertility on the surface, of adopting a system of rotation, and of caring for manure, was most forcibly brought home to the



DR. J. ORLANDO ORR Manager and Secretary of Toronto Industrial Exhibition.

meeting. In the evening Mr. Anderson spoke on 'The Farm as an Investment," giving figures to illustrate the relative importance of agricultural products. Instances were cited to show that in farming, the exercise of more brains in conjunction with brawn is essential to success. If farmers would cease comparing their profits of a year's operations with the salaries of their brothers in town, and remember that these profits are over and above their living, which is equal to the townsman's salary there, they would be a more happy and contented class of people.

The address of Mrs. Torrance, on "Fruit in Connection with Domestic Science," demonstrated to the audience that we are not living up to our privileges in the matter of a general use of fruits as a food. The stimulating, medicinal and nutritive values of our staple fruits were explained, and the practice of "preserving" fruits rather than canning them was strongly condemned.

Another meeting with an equally talented list of speakers is promised for the end of February. Although the attendance at the Western Dairy School is hardly as large as last year, still the work of instruction is improved, and the smaller classes receive a more thorough training. Not only dairying, but its associated subjects, bacteriology, veterinary elements, poultry-raising, domestic science, etc., are taught. The equipment of the school is of a high order, all the modern machines a mong available for the use of the stu-Superintendent Arch. Smith's regime the engineent has been modernized, the attendance has increased by bounds, domestic science has been introduced, and the school has attained the signist that its usefulness warrants.

# Paying by Test.

The old question of paying for cheese factory milk by test is revived by the following letter from a Prince Edward County, Ont., subscriber. One strong point urged for the test system is that it removes the incentive to adulteration. On the points raised we also append two letters, from two careful students and practical authorities, which deserve the most careful consideration:

"A problem that bothers the patrons of our cheese factory, and one that we would feel very grateful to you if you would solve for us, is this : 'Is it the proper way to pay for the milk by Babcock test in a cheese factory where half the patrons feed their cows liberally and half feed them nothing - that is, when they can pick up enough to sustain life, and after that only straw or dried cornstalks?' Those that feed their cows contend that they feed a value into their milk which will make better butter and cheese, and by feeding the cows liberally the Babcock test is invariably lower, therefore they are giving the other patrons the benefit of their good feeding, in a better cheese. Those that do not feed, and consequently have a higher test, say 'the higher the test, the more cheese the milk will make, and, therefore, the test is correct,' ignoring entirely the fine points of the other half's contention. If all fed their cows alike the test would give satisfaction. According to Pro. Robertson's suggestion, we have been adding 2% to all the tests, but satisfaction is not reached yet. DAIRYMAN." Prince Edward Island.

I hardly think there is anything in the contention of those patrons who claim that they "feed" value into their milk, which makes better butter and cheese, when they feed their cows liberally, as compared with patrons who do not feed their cows so well. So long as the cows are in a healthy condition, and are giving normal milk, I think for buttermaking the percentage of fat will determine its value better than any other basis which we can accept. For cheesemaking, the percentage of fat, plus 2, we consider to be the fairest and most just method that can be adopted for dividing proceeds among patrons of cheese This is not exactly correct, but it is near enough for all practical purposes, and no injustice is done to patrons who have their milk tested correctly and have two added to represent the caseous or curdy matter. H. H. DEAN.

O. A. C. Dairy School. The question of "Dairyman," "Is the Babcock test the proper method of paying for milk at cheese factories, where some farmers feed well and others do not," is one that has been widely discussed, and very often with the effect of confusing farmers and causing them to lose confidence in the

test. My own opinion is that the Babcock test is undoubtedly the best system. It not only stimulates the breeding of cows giving a better quality of milk, but also encourages patrons to care for their milk (by stirring it well), and to deliver it at the factory in better condition. The fact that some farmers feed their cows liberally and others very poorly is no argument against using the test, for those who feed liberally, while no being able to increase the per cent. of fat in the milk, will very materially increase the amount of fat given by the cow, by greatly increasing the quantity of milk. Feeding cows liberally will not improve the quality of the milk for cheesemaking, but simply increase the amount of milk, although it may be argued that in districts where cows are well fed and cared for we find the finest quality of cheese, but this is owing to the fact that the production of milk is the farmer's chief source of revenue. The milk is usually better cared for, and delivered at the factory in better condition. The factories are larger and better equipped, and with better makers in charge. While the cows which are poorly fed may in some cases give richer milk than others which are well fed, we find (as the result of exhaustive experiments) that this is not always the case, and that the ability to give rich or poor milk depends more largely upon the individuality of the cow or breed of cows than on any system of feeding, but at the same time the cow must have plenty of good food and water to convert into milk, with its content of fat and other solids, which are not produced by magic.

The Babcock test is now being used extensively as the basis for paying for milk at cheese factorjes, and while it may not be an absolute measure of the cheesemaking properties of milk, it is by far the most equitable method of paying for milk, as rich milk will not only make a greater quantity of cheese, but also cheese of finer qual-

In the manufacture of butter, the food given the cows has a more pronounced effect, particularly during the winter months. As cows fed dry, hard food give milk containing a high percentage of white hard fats, which make the butter more difficult to churn and pale in color and of inferior texture, while the feeding of more succulent foods, such as grass, silage, roots, produces milk containing a higher percentage of soft fats, which

ctory

ette

iber

that

a the

from

our

very

this:

k by

f the

feed

k up

straw

their

their

giving

feed,

. the

will

oring

would

obert-

to all

onten-

'feed'

erally,

their

nilk, I

t will

basis

e per-

e the

lopted

cheese

it is

no in-

milk

resent

abcock

lk at

ly dis-

in the

k test

only

better

e fact

y and

le no

in the

unt of

g the

naking,

though

ws are

quality

at the

arce of ed for,

d, and

e cows

e richer

nd (as

this is

to give

on the

me the

ater to

at and

igic. nsively

facto-

meas-

c, it is

ng for

greater

r qual-

given

articu-

ed dry,

centage

r more

inferior

foods,

lk con-

which

AN.

give the butter a deeper color and better texture, and which are more easily separated from the milk and churned.

The system of paying for milk according to quality should be encouraged, not only because it is a fair basis and tends to improve the quality of the cheese, but will also encourage the breeding of better dairy cattle.

The system of pooling encourages farmers to breed cattle, giving large quantities of milk, regardless of quality, and that, I think, is one of the reasons why it requires so much milk per pound of cheese at the factories.

I cannot see wherein the farmer who feeds his cows poorly profits by those who feed well. The poor feeder not only loses heavily by not forcing nis cows to the limit of their capacity, but his herd will tend to deteriorate instead of improving, while the farmer who feeds liberally, not only receives the greatest possible profit from his cows, but is improving his herd from year to year, which in turn will make his business as a milkproducer and stock-raiser much more profitable.

Western Dairy School.

# Who Knows?

ARCHIBALD SMITH.

To the Editor "Farmer's Advocate":

Sir,—The Western Dairymen's Association convention at Brantford was a great success. Good attendance, good addresses, good discussion, good looking fellows. Among other things, we were all lectured well on the supreme importance of always, in the manufacture of cheese and butter. "knowing where we are at" by testing. We heard of alkaline tests, acid tests, curd tests, hot-iron tests, rennet tests, acidimeters, and all the other meters to measure the acid, to measure the temperature, to measure the moisture, etc. It is test-measure-weigh; weigh-measure-test. Never guess at it, don't depend on smell or taste, but measure, weigh and test. No doubt this is of supreme importance, but after we have tested the sell butter as it is cheese for export. milk, the cream, the curd, the starter, and weighed the milk, the curd and the salt, and sent the result to an exhibition for a prize, what occurs? After all our weighing, measuring and testing, we have a bit of cheese or butter passed under a nose, and sometimes two or three noses, and a score is chalked up, and we may be in it or out of it, just as it happens. If the final test, weight and measure/is to be a nose-why is not a nose good enough to follow all the way through? Suppose the nose gets a little out of repair, who knows the nose is out of repair? Not likely the owner of it. Or it might get "that tired feeling" before about 300 samples were passed under it in one afternoon.

Prof. Dean said that improvements must be based on "Science and truth." How about the nose? Science; truth? Eh? Science and truth are knocking Messrs. Nose & Co. out. Prof. Robertson stated that experiments made to ascertain the per cent, of moisture in butter proved that "the appearance of butter as sampled affords, generally speaking, no criterion as to its moisture content. Many of those reported as "dry," contained more than the average amount of water, while several returned as "moist" and "very moist," show, on analysis, the lowest percent-

ages.' I think that in all the improvements surelysome attention should be devoted to-improvement in judging cheese and butter, based on "science and truth." Don't you? TESTER.

# Cold Storage Rooms.

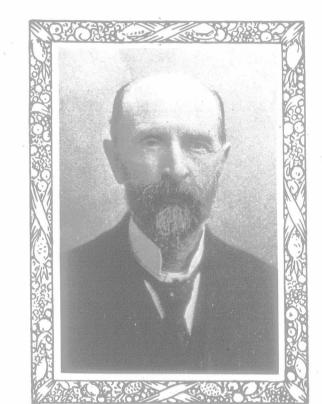
Owners of creameries not provided as yet with a cold-storage room, should avail themselves of the offer of a bonus of \$100 from the Federal Government, and build such a room in accordance with departmental plans. These plans may be obtained on application to the Commissioner of Agriculture, Ottawa. Those whose ice-houses or cold-storage rooms were found defective last season and could not be accepted by the Department. should now carry out the improvements suggested to them, whereby they will be in a position to obtain the bonus at the end of the coming season. To those who are uncertain whether they understand the plans rightly, the Department will gladly send special men who will explain things by word of mouth, and start them on the right lines. A good ice supply and cold-storage room are imperative. The cheese factory also requires them for the curing-room.

# New Brunswick Dairy School.

The accompanying engraving gives a good view of the Provincial Dairy School at Sussex, N.B., under the superintendence of Mr. Harvey Mitchell. The creamery course for the present year begins March 3rd, and the cheesemaking course extends from March 24th to April 16th.

## Hand Separators vs. Creameries.

Both have their advantages and disadvantages. It seems to me that writers do not get at the kernel of this question. Milk producers are working for profit, and any method that cuts a hole in the profit is faulty. The reason our export butter trade has not kept pace with the cheese



MR. ARTHUR JOHNSTON. President Dominion Cattle Breeders' Association.

trade is because it is not nearly so profitable to

For instance, 100 lbs. milk, 3.6% fat, will make about 4½ lbs. butter. If this sells at 20 cents per pound, and the factory takes 31 cents per pound for making, then milk is worth about 70 cents per 100 pounds. Can milk be produced profitably for that? That depends upon the cow and the method of feeding, etc. The question is not that, however, but is it the most profitable way of disposing of milk? Butter factories cannot begin to pay the price that cheese factories do, except a good value is obtained for the skim When we add to the price of the butter sold 15 to 20 cents per 100 pounds for skim milk, then we come more nearly the value of the milk for making cheese. The profit, then, in buttermaking comes through the skim milk, and the method that enables the producer of the milk to realize the most upon it is the best method. Some creameries make skim milk cheese, and the casein thus obtained has become of commercial value enough to realize 17 to 20 cents per 100 pounds for the skim milk. This means making both but-

butter goes to export price. Butter should be 30 cts. per pound now to equal the price of cheese, that is, patrons of cheese factories that draw their own milk are obtaining \$1.15 per 100 pounds of milk. Of course cheese is very high now, but butter is, as a rule, behind the price of cheese, comparative-Indirectly though, buttermaking can be a great benefit to dairymen, if they will only make the most intelligent use of the skim milk, and raise good calves that will make good cows. Twenty cents per hundred pounds can be realized this way for skim milk, directly, but Indirectly it would be hard to place its true value. If instead of cows averaging 3,000 to 4,000 pounds of milk a year, we had cows that would average 6,000 to 8,000 per year, then the patrons' net profit would be at least four times increased; that is, these cows would give fifty per cent. more milk and not cost for feed more than fifteen or twenty per cent. To get a better class of cows they have to be bred and properly raised, and nothing is of more value than good skim milk; not the miserable stuff that creameries generally return to their patrons, which is often run into a dirty, sour tank; and as creameries in winter do not generally run over two or three days a week, if calves were fed from such milk it would necescarily be from three to five days old before it reached the calf's stomach.

It has been said hand separators are bound to increase, owing to the "eloquence" of the agents, but the reason of their increase will be owing to the selfishness and negligence of the creamery operator, who looks more to his own profit than his patrons', and does not try to work for the common good and enable the patron to have his milk returned as good as possible.

Milk should be separated every other day at least in the winter to encourage dairymen to raise calves. The creamery saves the patron much labor, and should obtain a better price for the butter, but just as good or better butter can be made at the home from hand-separator cream, if the operator is skilful and clean. The separation removes many impurities, and the sooner

the milk is separated the better. Hand separators are expensive, and home buttermaking means much work, that must be attended to daily, and is not desirable unless help is plentiful and skim milk is desired for calf-rais-

It seems to me the best plan for those that desire skim milk for calf-raising, and cannot obtain it good from creameries, is to have a hand separator (not too small) and take their cream to a creamery to be churned. If a patron can't take proper care of this small quantity of cream, he is not likely to take proper care of the larger quantity of milk; and just as good butter should be made from cream separated at home as at the factory, but creameries should not take cream from patrons that have not separators and pool with cream from separators, as separators purify cream, and better butter can be made from

It may interest readers to know how we do things here at Brookbank creamery. Our separator is run six days a week; it is now of 2,000 pounds per hour capacity. As we have 500 pounds per day during the winter, we start on this and

separator cream than from any other

keep running the milk off as fast as it comes. Some patrons are told to come on certain days, at a certain time; most of the patrons come every other day, but not all the same day. We have very little waiting around in the cold. The milk it weighed in and measured with a yard measure, and skim milk is measured and sufficient deducted for the cream. The milk goes right from the separator to the patrons' cans, and as a patron said the other day, after taking a drink of the skim milk from the separator, "That milk is as sweet as when I brought it." We have now calves on skim milk, and for our own calves we



PROVINCIAL DAIRY SCHOOL AT SUSSEX, N. B.

ter and cheese, more labor, and less by-product re- have to have the milk fresh daily. Our interests average price is not high enough to ever lead us to hope to build up much of a trade. The home trade is limited, yet much better prices are to be obtained. As a rule, when the make is large then

turned to the patron, and as the total realized is are the same as our patrons', and being run on not larger if as large as if the milk were made business principles, it is needless to say there are into cheese, I cannot see that there is any ad- no hand separators near the factory; at the same vantage to anyone; I am keeping in view the time, we have churned cream for a patron seven usual export price of butter, and I must say the miles away. The cream is well taken care of, brought here every week and churned separately, and the butter is A1, and sells at top price, like GEO, RICE. that separated here.

Oxford Co., Ont.

# GARDEN AND ORCHARD.

### Plants in Cellar.

To keep plants in the cellar over winter you must keep them free from water, for water has killed more plants than all other causes combined. Especially is this true in the case of the amateur. She longs to carry her plants safely through the winter, and her solicitude leads her to water her treasures, giving a little water here and there where she thinks the soil looks dry or the plants wilted, and occasionally giving a thorough soaking to some particularly dry looking pot or tub. A few days later her anxiety carries her back into the cellar. The plants do not look well, and the watering pot is again brought into requisition. And so it goes on, and gradually her plants droop and die, and more watering does not seem to revive them. Another year she will probably declare that keeping plants in a cellar is a delusion and cannot be accomplished successfully, and she will leave many of her choice specimens in the open ground to be cut down by the frost, whereas -with little care—the cellar may be made to carry through a fine assortment of plants to contribute toward another summer's pleasure. One may often see flourishing beds of flowers in the early spring-long before it was safe to remove plants from a greenhouse-and upon inquiry almost invariably find they came from some thrifty housewife's cellar.—[Country Life in America.

### Spraying.

The fact that the many enemies of our orchards are not being completely checked or destroyed is evidence that we all have not been thoroughly spraying at proper times and in proper places. Spraying has come to be a necessity. It should now be regarded in the light of an insurance against insects and fungous diseases. It is a light outlay of money and time to carry the risk of a ruined crop. The practice is not analogous to treating cattle for lice, but is more of a preventive measure, especially where the apple scab, black-knot, rot and other diseases affect the trees and fruit. Spraying should be practiced by every person who owns a fruit tree. We do not advise every one to invest in apparatus for spraying, but some arrangement should be made whereby all fruit trees would have thorough treatment. Many good orchardists are doing this work at much expense, but are not meeting with the success they deserve, because their neighbors do not practice it and thus maintain a breeding ground for insects and diseases which infest the treated trees. The small orchardist should not excuse himself because of the smallness of his plantation, but every one should feel it his duty to assist in stamping out the orchard pests.

The time to begin this work is right now, if you have San Jose scale or oyster-shell barklouse in your orchard. The latter is practically everywhere, and the former is making rapid development where it is little dreamed of. For the treatment of fungous diseases and insects other than the scales, the time of treatment should begin just before the buds open, and continue at intervals until about the 1st of July. A spraying calendar will be published later, for guidance.

For the scales, the winter treatment with the ash is now highly recommended on ac count of its cheapness, effectiveness and ease of application. This wash consists of lime, sulphur and salt of the following proportions: pounds of stone lime are slacked in a kettle over a fire; fifteen pounds of sulphur are sifted or stirred in as the lime is slacking; these materials are boiled vigorously until the lime and sulphur are entirely dissolved; fifteen pounds of salt are then put in and all boiled for about a quarter of an hour. Enough hot water is then added to make fifty gallons. The mixture is then sprayed upon the trees while warm. During the month of March, or early April, is perhaps the best time to apply it, and the cost will be about two and a half to three cents per-tree.

In many of our spraying operations, poor results are due largely to poor materials and apparatus. It is absolutely necessary that the materials be true to their names and of the best quality. It will not do to use copperas instead of sulphate of copper. The apparatus, too, is of great importance. There is a difference between spraying and sprinkling. Too often we drench the trees until the water runs off. Good spraying consists in simply turning the spray onto every part of the tree for just an instant, under high pressure. When trees are drenched with the insecticide or fungicide the surplus water washes off the chemical, but when they are simply sprayed the chemical remains on the leaf or branch until the moisture vaporizes. The importance of high pressure in spraying is well illustrated by passing the hand through a spray under different pressures. If the spray be under fifty pounds presare the unsisture will gather in large drops and All of the hand but if under 100 pounds preswe the head will be covered with a very thin the which at one of his thus leaving the chemical I'd tributed gas; the treated surface. In buyprump for spraying, see that it will give a

# POULTRY.

# Make the Poultry Pay.

When farm help becomes scarce, and when all other branches of farming are in a prosperous condition, as at the present time, the poultry of the farm are very apt to be neglected. It is felt that there is not much in hens and that they are too small a business to engage attention, and this condition continues, until in a short time poultry-



MR. H. BOLLERT. CASSEI, ONT. President Canadian Holstein-Friesian Breeders' Association.

keeping, from sheer neglect of the many, becomes immensely profitable to the few. This condition is all very well for these few, but why should the many neglect their poultry? It is true that compared with a cow or a horse a hen is of very little value, but to have a constant supply of fresh eggs and dressed poultry is one of the things that adds very much to the comfort of farm life. Porridge, ham and eggs and toast make one of the best breakfasts that can be served, but without the eggs it lacks its best ingredient. Do not neglect the hens this spring, but make all arrangements now to lessen the work of caring for them in the busy season. Have the house cleaned up. cull the flock, renovate the nests, whitewash the house, and get the hens started to lay now, so that there will be early cockerels for the table and early pullets for next year's work. And when the hens are laying do not barter the eggs off for other kinds of food; there is nothing more wholesome or cheaper than good fresh eggs. A member

ed." But in this case the money return was not the only recompense for the expenditure, for market values of poultry and eggs do not represent their true worth when fresh upon the farm er's table. There is something in the business, "dig it out."

### Buy a Good Male.

There seems to be a great move in the poultry business, even among the farmers that have always considered a hen beneath their notice. Prices are up all round on poultry, and many farmers are beginning to open their eyes and are looking up some pure-breds. Some want eggs, some want birds. Some of these people are so far off in judgment that if asked more than fifty cents for a cockerel weighing ten pounds, they run away with the idea that the breeder is stuck either on nimself or his birds. Good birds, where they stand in the yard, are worth for meat sixty cents. Some farmers have realized eight cents per pound by shipping to leading cities, and those that go in for fattening do much better. I have known persons to go to a breeder, buy his best cockerels and to make it easy for themselves, wish to leave them for a while, say a week, a month. In one way this may seem all right to the buyer, but what about the breeder that must sell to a beginner at a small figure in order to do business at all, and keep the fowls in his flock, a hindrance to him in selling to the next customer, who must have the best in the yard or none, as the first party demands.

A careful breeder will go early, select good birds, pay for them and take them away, that there may be no danger of their being sold again, or any other mistake happening. Breeders of all kinds of stock should be paid for their painstaking and expense, and pure-bred fowls that are fit for breeders are surely worth more than market price. Let those looking for improved stock ask themselves the question how can a breeder pay from \$2 to \$15 for a stock bird and sell to others at less than prices on the market with the feathers all off? Let us all do a little to build a reputation for Canadian poultry, and the prices will soon be better for all. Do not let us be airaid of paying an extra ten cents or a dollar for a good cockerel. He is half the breeding pen.

# Poor Layers -- Incubators.

Perth Co., Ont.

I have twenty-four hens and about fifteen pullets, mostly Plymouth Rocks. They are housed in a moderately warm place; not so warm but what it freezes hard during a cold time. I give them a warm mash in the morning, composed of ground barley and bran; later, a mixture of barley and peas and oats whole, and either potato peelings or raw turnips, water slightly warmed, but I cannot get them to produce eggs. Can you

explain why they will not lay, and what I can do towards making them lay?

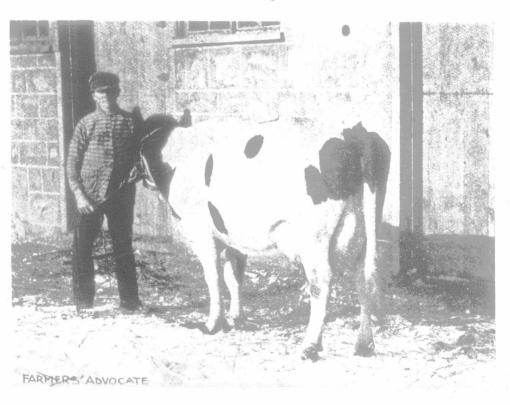
FARMER LITTLE.

tell me how to make an incubator?

R. R. W. Stanstead Co., Que. 1. Give them all the sunlight possible; the fresh air will not hurt them. Provide them with grit and dust. Put some chaff in the house for them to work in. If you have milk give them some of it. Keep the place clean of droppings and filth. Do not crowd them; hens do best in small flocks of from ten to fifteen birds. Select the eggs for hatching from the best layers, and so breed a laying strain.

2. You could not

make a satisfactory incubator as cheaply as you could buy one. The regulator feetly by a novice.



TIDY ABBEKIRK 1492 Record, 505 lbs. 15 ozs. milk, 20 lbs. 15.54 ozs. butter, in 7 days HOLSTEIN COW, BRED AND OWNED BY MR. H. BOLLERT, CASSEL, ONT.

of the Farmers' Institute staff of lecturers re- is a delicate piece of mechanism, which must be cently said: "Do not leave the small affairs of carefully adjusted, and can not be arranged perthe falm to rush into something big, but carry on the small branches, of farming just as assiduously as the larger, for in these the profits increase in greatest proportion to the work required. Last years I asked my girls to began a strict set of accounts with the heas for a whole year, and they surprises us with a balasses in favor of each law of 90 cents, after labor and feed had been credit-

The name and P. O. address on a post card will brong a sample copy of the "Farmer's Advocate," free to your friend or neighbor who would appre-cate and he helped by a really first-class agricul-

) Wile

re, for

repre-

farm

siness

ve al

Prices

ooking

some

far off

cents

a away

er on

e they

cents

pound

hat go

known

kerels,

leave

In one

, but

a be-

a hin-

er, who

as the

t good

that

of all

instak-

are fit

market

ck ask

er pay

others

feath-

uild a

prices

us be

dollar

ig pen.

en pul-

housed

m but

I give

osed of

of bar-

potato

armed,

an you

they

do to-

o make

o., Que

possi-

sh air

them.

with

in the

em to

ou have

ie place

oppings

o not

; hens

small

m ten

ls. Se-

gs for

m the

and so

laying

ıld not

factory

cheaply

ld buy

gulator

ust be

ed per-

rd will

vocate,"

appre-

agricul.

Put

them

and

TLE.

QUESTIONS AND ANSWERS

1st.—Questions asked by bona-fide subscribers to the "Farmer's Advocate" are answered in this department free.

2nd.—Our purpose is to give help in real difficulties; therefore, we reserve the right to discard enquiries not of general interest, or which appear to be asked out of mere curiosity.

3rd.—Questions should be clearly stated and plainly written, on one side of the paper only, and must be accompanied by the full name and address of the writer, as a guarantee of good faith, though the name is not necessarily for publication.

4th.—In veterinary questions, the symptoms especially must be fully and clearly stated, otherwise satisfactory replies can-

Veterinary.

[Answered by our Veterinary Editor.]

MAMMITIS.

Cow's udder swells and remains swollen for a few days, and as soon as the swelling disappears the milk will have lurros in it for two or three weeks.

York Co ant.

Ans.—Ine repeated attacks of inflammation of the udder without apparent cause indicate tubercular disease of the gland. You had better have her tested with tuberculin, and if she react destroy her, as if she has this disease the milk is not fit for food. The lumps are the result of the inflammation. Treatment consists in purging with 2 lbs. Epsom salts and 1 oz. ginger, feeding lightly, and following up with 2-dr. doses nitrate of potash three times daily. Apply hot poultices to the udder. Change three times daily, and milk each time. Also rub well with camphorated oil.

INDUCING GERTRUM IN COMS.

I have a Shorthorn bull which I have been using the last two years, and intend selling in July. My cows are all to calve before the 15th of June. I always let the calves suck all but four cows, which milk and make butter for the house. Kindly let me know through your paper how I would get all my cows with calf before the first of July, 1903? Last year some of my cows did not come in heat till two months after calving.

Output

Quebec.

Ans.—Cows that are nursing calves do not, as a rule, come in heat as soon after calving as those that are milked by hand. It is not unusual for cows suckling their calves to go two months before coming in season. The only treatment we can suggest to bring them in season earlier is liberal feeding, keeping the calves separate from the cows, allowing them to nurse only twice a day after they are a month old. Weaning the calf from the cow, and feeding it by hand, would probably hasten matters; or two calves could be nursed by one cow that is in calf. This would call for generous feeding of both cow and calves.

# VARIOUS AILMENTS.

1. I had 22 pigs, weighing about 100 pounds each, fed on turnips, mangels and sugar beets, pulped together, and peas, oats and barley chop. One morning 11 of them were restless, sometimes sitting on their haunches, moving sideways with fore legs, foaming at their mouths and grinding their teeth. They would rise, push their heads against the pen for perhaps an hour, then roll over and kick. In four days they died.

2. For lice or cattle I clipped their backs and applied crude petroleum. This killed them. Is it injurious?

it injurious?
3. Give treatment for ringworm?

4. A yearling colt has small lump on the seat of spavin. Would it be wise to blister it?

Bruce Co., Ont.

T. R.

Ans.—1. Your pigs died from cerebral apoplexy, due to too high feeding and want of exercise. Regular exercise and less chop would have prevented the trouble. Treatment consists in purging with, say, four ounces Epsom salts, light feeding, and the application of cold water or pounded ice to the head. Good practice to slit an ear to allow some blood to escape.

2. So long as the application does not injure the skin it is not injurious. Mixing with sweet oil or linseed oil lessens the irritability.

3. Soften scales with sweet oil, remove and apply tincture of jodine

apply tincture of iodine.

4. If the colt does not show lameness leave it alone, if it becomes lame get your veterinarian to treat.

# MUD WEVER.

1. Three-year-old Clyde colt has something like scratches. His legs are cracked from the heels up; he bites and irritates them.

2. How will I treat my hognen, which is infected with vermin? SUBSCRIBER. Stormont Co., Ont.

Ans.—1. Your colt has mud fever, which is really scratches extending up the limb. Heavy horses with beefy legs and coarse hair are predisposed to this trouble. Give him a purgative of nine drams aloes and two drams ginger, follow up with two ounces Fowler's solution of arsenic, night and morning, given as a drench in half pint cold water. Apply the following lotion to the limbs three times daily: Sulphate of zinc and metate of lead, of each one ounce, carbolic acid the dram, water one pint. Do not wash the legs.

2. Whitewash it, or spray with kerosene emulion, coal oil or a ten per cent, solution of carelic acid.

UNTHRIFTY MARE.

Six-year-old mare is in poor condition; hide-bound, hair dry and starey. Was fed on ear corn and timothy hay; eats very little hay, refused to eat the corn. I gave her whole oats, then boiled oats. She is driven a little occasionally, and sometimes stands two or three days. E. S.

Brant Co., Ont.

Ans.—It is probable your mare's teeth require dressing. This is often the case, even with young horses, and if so she will do no good until you have it attended to. Give her a purgative of eight drams aloes and two drams ginger, follow up with one dram each, sulphate of iron and gentian, twice daily. Feed hay of good quality and crushed oats, give a carrot or a turnip once daily, and a feed of bran twice weekly. Give regular exercise, and gradually increase the grain ration as her appetite improves, but at no time give more at a meal than she will eat heartily.

LAME HORSE.

My four-year-old horse pulled his right shoulder out of joint about three months ago. He is still lame.

SUBSCRIBER.

New Westminster, B.C.
Ans.—You are mistaken about the condition. The shoulder joint is not dislocated, if so he would not be able to move the limb at all. Dislocation of this joint is very seldom met with. He has probably sprained the muscles of the shoulder and requires a long rest and repeated blistering. Blister in the same manner as is advised for curb in this issue. If there is a veterinarian near you, you had better let him see the horse, as it is impossible for me to make a correct diagnosis from the symptoms given.

ABORTION.

One morning I noticed my heifer straining. This continued at intervals until noon the next day, when she aborted.

1. Could anything have been done to prevent the accident?

2. Would it be advisable to breed her again at once, and how would you treat to prevent a recurrence of the accident?

W. A.

Elgin Co., Ont.

Ans.—1. If she had been put in a nice box stall, removed from all excitement and given two or three ounces laudanum in half pint cold water, the dose to be repeated in three or four hours, if necessary, it is probable the accident would have been prevented.

2. It would be better to not breed her again for about three months. Some cows acquire the habit of aborting at a certain period of gestation. When your heifer reaches about the same period next gestation, keep her very quiet for a couple of weeks, feed lightly on easily-digested food and watch her closely. If any symptoms are shown give laudanum as directed.

Miscellaneous.

RESERVOIR ON BOILFR.

Is the following scheme practicable for putting water into the boiler in our dairy: By placing a reservoir on top of boiler, equally strong as boiler, connected with inch pipe with valve? By opening valve will steam displace water in reservoir, with any head of steam?

T. M.

Bruce Co., Ont.

Ans.—If reservoir be connected to boiler by one pipe only, the water in reservoir will not feed into boiler until the pressure in reservoir is as high as that in the boiler. It can be made work by connecting a pipe from the top of the reservoir to the top of the boiler: this pipe to be left open all the time. This will equalize the pressure in the reservoir and boiler: then by opening the valve in feed pipe the water will pass from reservoir to boiler. It is a very wasteful method of feeding a boiler. If the temperature in reservoir is made the same as that in boiler, the radiation of reservoir will be considerable.

BALANCING A RATION.

Will you please inform me, through your valuable paper, what would be a balanced ration for dairy cows, of cut oat straw, clover hay, oat chop, bran and mangels, and would it be improved by oil cake?

Huron Co.

Ans.—Yours is a good assortment of feeds. By feeding four pounds of bran, four pounds of oat chop, nine pounds of clover hay, eight pounds of straw and thirty pounds of mangels per day per 1,000 pounds live weight, you will have a ratio of 1 to 6.6. By adding to this one pound of oil cale, the ratio is narrowed to 1.5.9, a better ration for milch cows. We do not advise you to adhere strictly to these weights, as the individuality of the cows must be considered, some cows requiring much more food to produce a given quantity of milk than others. Simply use the balanced ration as a guide.

If you will send us on a post card the name and P. O. address of some friend or neighbor not receiving a first-class agricultural paper, and who would appreciate such, we will forward, free, a sample copy of the "Farmer's Advocate."

# NOTES AND NEWS

# Canadian Hackney Horse Association Annual Meeting.

The Canadian Hackney Horse Association met during the show week. The report of the secretarytreasurer, Mr. H. Wade, showed a good margin financially, and 20 new animals registered. Provision was made to offer a cup as a special prize at the Calgary show, and \$50 apiece was voted to the Spring Horse Show and the Toronto Industrial Exhibition. The proposal to hold a Dominion Exhibition next year was heartily endorsed. The officers elected were: T. A. Graham, Claremont, President; E. C. Attrill, Goderich, First Vice-President; E. C. H. Tisdale, Beaverton, Second Vice-President, and Henry Wade, Toronto, Secretary-Treasurer. The directors are: H. N. Crossley, Rosseau; R. Beith, M. P., Bowmanville; R. W. Davies, H. M. Robinson, Dr. Andrew Smith, R. Bond, Geo. Pepper, all of Toronto: R. Miller, Stouffville, and Dent Dalton, Delhi. The Provincial representatives are: R. Davies, of Toronto; Jas. A. Cochrane, of Hillhurst; A. M. Rawlinson, of Alberta; J. A. S. Macmillan, of Brandon, and J. R. Frink, of New Brunswick. The representatives to fairs are: Toronto-E. C. H. Tisdale and Geo. Pepper; Western Fair, London-Adam Beck., M. P. P., and E. C. Attrill; Ottawa-R. Beith, M. P.; Montreal Spring Horse Show-R. Ness, Howick; Woodbridge-John Macdonald, John Holderness and Robert Bond. Thos. Graham and H. N. Crossley were appointed delegates to the Horse Breeders' Association.

# Canadian Shire Horse Breeders' Association Annual Meeting.

On February 5th, the annual meeting of the Canadian Shire Horse Breeders' Association was held in Grand's Repository, Toronto. The President, Mr. W. E. Wellington, in his annual address, called attention to the importance of registering all eligible animals. A good year's business has been done, and the Association are in a healthy state. The question of placing import duties upon horses coming from the United States was freely discussed, and a committee was named to bring before the Canadian Horse Breeders' Association a resolution expressing the opinion of the meeting. The officers elected for 1903 are: President, Mr. W. E. Wellington; Vice-President, Mr. James M Gardhouse, Weston; Second Vice-President, Mr. William Hendrie, Jr., Hamilton; Directors-Messrs. James Henderson, John Gardhouse, H. N. Crossley, Hogate, Wilkie, Barry and Bawden; Secretary-Treasurer, F. C. Wade; Delegates: To the Industrial Exhibition, Messrs. H. N. Crossley and John Gardhouse; to Western Fair, London, Messrs. F. C. Wade and Hogate; Central Fair, Ottawa, F. C. Wade; Horse Breeders' Association, Messrs. J. M. Gardhouse and

# Clydesdale Breeders' Association Annual Meeting.

On the 3rd inst., the annual meeting of the Canadian Clydesdale Breeders' Association was held in Grand's Repository, Toronto. The report of the Secretary-Treasurer, Mr. H. Wade, showed a surplus on hand of \$1.051.10 . 694 podigrees 1902, and 278 were transferred from the Scotch Studbook to complete the pedigrees of imported animals. During the past year there has been a very marked increase in the number of imported marcs, which will do considerable toward improving the breed in this country. It was decided to abolish the method of recording Scotch ancestors in the appendix. In future, such records will be embodied in the main body of the Studbook and assigned a Canadian number. Fifty cents each will be charged for ancestors so recorded. After Considerable discussion, a resolution asking Parliament to restrict the importation of Western States ranch horses into Canada was adopted.

The officers elected for the ensuing year are: President. Wm. Smith Columbus Ont : Vice-President F. W. Hodson, Ottawa; Vice-Presidents for the Provinces: Ontario, O. Sorby, Guelph; Quebec, Robt. Ness, Howick; Manitoba, J. A. S. Macmillan, Brandon; Alta., J. A. Turner, Calgary; Assa., A. Mutch, Lumsden. Delegates to Fair Boards: Toronto Induscrial, Robt. Beith, M. P., and Wm. Smith; Ottawa Central, Peter Christie and D. McCrae: Western Fair, London, Alex. Innes and Jas. Henderson: Quebec and Sherbrooke, R. Ness and Geo, Stewart; Horse Breeders' Association, P. Christie, Wm. Smith and F. Richardson Directors-Jno Bright, Geo. Gormley, Jno. Vipond, Thos. Graham, Peter Christie, J. M. Gardhouse and Henry Boag. Mr. Wade continues as Secretary-Treasurer for another year.

# Record Year in Land Sales.

During 1902 more land was sold in this Western country than ever before. Besides the large land-dealing companies, numberless small ones and hosts of private individuals have speculated in this money-making business. The C. P. R., as usual, tops the list, having disposed of 2,420,440 acres at a total sum of \$8.140,245. Second comes Osler, Hammond & Nanton, with 1,445,698 acres, and the Canadian Northwest Land Company ranks third, with 516,000 acres for \$2.520,000.

After much discus-

sion, the majority of

those present decided

in favor of reverting

to the three-judge sys-

tem at the Toronto In-

dustrial Fair next fall.

coming year are:

President, H. Bollert,

Cassel, Ont.; 1st Vice-

President, Jas. Rettie,

Norwich, Ont.; 2nd

Vice-President, M. Rich-

ardson, Caledonia, Ont.;

3rd Vice-President. R.

A. Stevenson, Ancaster,

Ont.; 4th Vice-Presi-

dent, A. C. Hallman,

Breslau, Ont. Direct-

ors: G. A. Gilroy,

Glen Buell; Geo. Rice,

Currie's Crossing; Ed.

Adams, Toronto; B.

Secretary-Treasurer, G.

W. Clemons, St. George;

Auditors, Wm. Suhring,

Sebringville, and J. H.

Patten, Paris. Repre-

Frankfort:

Mallory,

The officers for the

### Hamilton Shorthorn Sale.

Any doubts which may have existed as to the future of the business of breeding Shorthorn cattle must have been dispelled by the pronounced success of the auction sale at Hamilton, Ontario. on January 28th. The spacious sale pavilion was packed from floor to roof by farmers and breeders from many different parts of the Dominion, with a good sprinkling from the United States, of spirited bidders and buyers. The cattle were a superior selection from a number of excellent herds, about one-half the number being imported animals of the most popular breeding and the most approved type. They were, indeed, the most uniformly excellent consignment of cattle we have seen exposed at a public sale in Canada or elsewhere, showing a wealth of flesh and quality and character that could not fail to excite the admiration of breeders and all lovers of good stock. It was an evidence, on the part of the contributors, of faith in character of the cattle they were offering and of faith in the future of the breed that they were willing to risk the offering of such valuable animals in public competition, and their confidence, as the sequel showed, was not misplaced.

A satisfactory and pleasing feature of the sale was that a large proportion of the best animals were purchased by Canadian breeders, who are determined to keep up the reputation of this country for the breeding of high-class stock. Another pleasing feature was that a lady, Mrs. Eckford, of Alberta, was among the most spirited bidders, securing several excellent animals.

The auctioneers, Messrs. Robson, Ingram and Jackson, who sold about equal numbers, each did splendid work, maintaining the interest from start to finish displaying commendable tact and judgment and demonstrating beyond a possibility of cavil that On tario has within her borders thoroughly capable livestock salesmen.

Mr. W. D. Flatt, as manager of the sale, displayed in all the arrangements his usual good judgment and generalship, and is entitled to the thanks of all lovers of Shorthorn cattle for his untiring efforts for the welfare of the breed, as he is entitled to the good wishes of all classes of the farming community for his desire to advance the improvement of live stock generally throughout the Domin-While there were ion. no sensational prices in this sale, and while the highest prices were not equal to those made at the Hamilton sale in August last year, the average was higher than on that occasion, which was about \$425, while the late sale figured out at an average of \$446 for the 54 lots disposed of

which is certainly a ery satisfactory result. The highest price of the day was Lady Gilmore: Wm Hendrie Hamilton \$1,500, for the ten-months-old bull, Diamond Prince, contributed by Mr. W. D. Flatt. He is a roan calf of excellent type, of the popular Missie family, was bred by Mr. W. S. Marr, Uppermill, Aberdeenshire, and fell to the bid of Mr. E. G. Stevenson, of Detroit, Michigan, whose farm, we understand, is near Wallaceburg, in Ontario. Mr. Cochrane's splendid three-yearold imported bull, Scottish Beau, by Silver Plate, was secured at a bargain by Messrs. J. & W. B. Watt, Salem, Ont., at \$1,200. Capt. T. .E Robson, Ilderton, Ont., drew a rich prize in the imported red yearling Broadhooks heifer, Imp. Airy Duchess 3rd. W. G. Pettit & Son, Freeman, made a good investment in the Toronto champion cow, Crimson Fuchsia 13th, and her sweet heifer calf, at \$875. S. J. Pearson & Sen, Meadowvale, Ont., who were spirited bidders throughout, secured a grand breeding cow in Imp. Closterina 6th, due to calve this month, at \$800. Non. John Dryden made a judicious selection for the Ontario Agricultural College farm in the sweet roan heifer, Dalmeny Fanny 6th, at \$725, and John Bright, Myrtle, Ont., who was a plucky bidder, got a prize in Imp. Spicy Louise at \$710, besides several real good things well worth the money.

The following is the list of sales, purchasers and

prices.	
Lovely Tulip (imp.) and c. c.; E. G. Steven son, Detroit, Mich	1,100
Gladys (imp.) and c. c.; E. G. Stevenson	915
Airy Duchess 3rd (imp.); T. E. Rohson, Ilder-	900
ton	900
Crimson Fuchsia 13th and c. c.; W. C. Pettit	
& Son, Freeman	875
Pandora (imp.) . J. G. Robbins & Sons, Horace	

	Glosterina 6th (imp.); S. J. Pearson & Son,	800
3	Meadowvale	
t	Vanora (imp.); T. E. Robson  Dalmeny Fanny 6th (imp.); John Dryden,	750
9	Brooklin, for Ont. Ag. College	725
	Spicy Louise (imp.); John Bright, Myrtle	710
		650
Š	Boyne Lady (imp.); Jas. Douglas, Calcilonia	
3	Fairy Queen (imp.); John Hill, Wellesley	650
f	British Lady and b, c.; C. Hintz & Son, Free-	
-	mont, Ohio	535
е	Lady Banff; J. H. Miller, Peru, Ind	530
t	Forest Princess (imp.); A. W. Smith, Maple	
1	Lodge	515
-	Banff's Arabella; I. M. Forbes & Son, Henry, Ill	500
t	Dalmeny Nonparell 6th (imp.); J. A. McGilli-	
d	vray, Uxbridge	500
е	Marchioness 23rd (imp.), Wm. Ormiston, Col-	
e f	umbus	450
ı Z	Sweet Alice; W. G. Pettit & Son	440
d	Bertha 3rd (imp.); D. Milne, Ethel	430
-	Beauty 15th (imp.); C. Hintz & Son	415
	Clemency 4th (imp.); John Bright	410
S	Verbena's Dandy and c. c.; C. Hintz & Son	400
-	Heather Blossom 2nd; Mrs. Eckford, High	
0 8	River, Alta.	400
g (	Hillhurst Bridesmaid 3rd; John Bright	380
S	Scottish Primrose (imp.); Graham Bros.,	000
e i-	Claremont	380
I-	Julia Lynedoch (imp.); H. Cargill & Son, Jargill	350
(-	Augusta 3rd and c. c.; W. J. Shean, Owen	330
d	Sound	325
1,	Rosemary of Hillhurst; Graham Bros	310
d	Banfi's Matchless; S. Dyment, Barrie	305
1-	Welcome Hillhurst; T. Douglas & Sons, Strath-	
e-	roy	295
	Cecilia Hillhurst; Andrew Knox, Norwood	280



CAPT. T. E. ROBSON, ILDERTON. MR. GEORGE JACKSON, PORT PERRY.



THREE LEADING LIVE-STOCK AUCTIONEERS.



MR. THOMAS INGRAM, GUELPH.

Queen's Diamond; D. C. Lowry, Niagara Falls... Rosamond; Robert Miller, Stouffville ... 260 ardson and G. A. Gilroy; to Winnipeg, Messrs. Har-Scottish Primrose 2nd (imp.); Robert Miller ... riot and Munroe; to Amherst, Messrs. Logan and Cecilia 10th; W. R. Elliot, Guelph..... Mina Rosalind; Arthur Johnston, Greenwood .... Lady Beatrice; Wm. Hendrie ..... 220 Lady Inglewood Hillhurst; John Gardhouse, Highfield ...... Rosedale; Mrs. Eckford . Strathallan Hillhurst; Wm. Hendrie.... 200 Oxmead Belle; Wm. Ormiston..... Judith Moore; Wm. Knox, Norwood ..... 190 Daisy Lee; Mrs. Eckford..... Blue Bell; W. A. Douglas, Onondaga..... Royal Bracelet 3rd; A. Duncan & Son, Carluke . Vacuna of Queenston; Mrs. Eckford..... 140 Smithfield Lass; C. Hintz & Son..... BULLS. Diamond Prince (imp.); E. G. Stevenson, Detroit ... Scottish Beau (imp.); J. &. W. Watt, Salem. .. 1,200 Springhurst; Joseph White, St. Mary's..... Perfection; F. L. Fuller, Truro, N. S..... Nonparell Officer; R. Miller .. Lord Banfi's Conqueror; C. D. Wager, Enterprise ... Topsman's Champion; John Ivey, Jarvis......

One cent invested in a post card, one moment to write on it the name and P. O. of some friend or neighbor who ought to have a really first class agricultural paper, and one moment to drop it in His Majesty's mail bag, will bring in return a free 800 sample copy of the "Farmer's Advocate."

### Holstein Breeders Meet.

The annual meeting of the Holstein Cattle Breeders' Association of Canada was held in the Palmer House, Toronto, on the 3rd inst. Nineteen hundred and two has been a growing year for the Association; the registration of animals has largely increased, 29 new members were admitted to the Association, and there is a substantial surplus in the treasury.

Prof. Dean, of Guelph, addressed the meeting, calling attention to certain weak points in connection with the seven-day tests, and recommended that they consider some method whereby thirty-day tests could be made, and, where practicable, whole-year tests. He further pointed out to the breeders that he could not guarantee to get men to do the work of testing for the same salary as they have been accustomed to pay. The meeting considered this question, and decided that each individual would have to arrange with the Professor the details of his test.

The Association voted the following amounts to the different fairs, to be awarded as special or supplementary prizes: To the Toronto Industrial, \$100.00; to Ottawa, \$100.00; to the Winter Fair, Guelph, \$100.00; to Amherst Winter Fair, \$50.00; to Brandon Fair, \$25.00; to New Westminster, \$25.00.

The fixing of the date of the next annual meeting was left with the executive to arrange to have it at the same time as the other live-stock associations meet.

A resolution endorsing the movement to hold a Dominion Exposition in 1904 was unanimously carried. The grant of \$5 to breeders towards defraying the expense of a first test will be made during 1903. The fee for the registration of animals over one year will

be the same as last year. On account of the unsatisfactory arrangement of railway rates, the Association joins in a memorial to be presented to Parliament asking for a railway commission.

sentatives: To Toronto Industrial Fair. Messrs. Ellis and Fair, Messrs. H. Bollert and 275 G. W. Clemons; to Ottawa, Messrs. J. A. Rich-

## 250 Came; to Quebec fairs, Messrs. Herrick and Sweet. Dominion Sheep Breeders' Meeting.

The annual meeting of the Dominion Sheep Breeders' Association was held in the Palmer House, Toronto, January 30th. The President, Mr. R. H. Harding, in his address, referred in hopeful terms to the outlook for the industry, and counselled the production of the best quality as the surest means of securing a market and the best prices. The Secretary-Treasurer's report, which was adopted, showed a considerable balance due the Treasurer. A motion approving of the holding of a Dominion Exhibition in Toronto this year, and of Government grants in aid of same, was unanimously carried.

The sum of \$50.00 was voted towards the wages of man in charge of stock shipments to the West. A motion, endorsing the action of the Winter Fair

Board re protests at the late show at Guelph, was

The election of officers for 1903 resulted as follows: President, R. H. Harding, Thorndale; Vice-President, J. M. Gardhouse, Weston. Representatives of breeds: Cotswolds, Col. D. McCrae, Guelph; Leicesters, A. Whitelaw, Guelph; Lincolns, J. T. Gibson, Denfield; Shropshires, D. G. Hanmer, Mt. Vernon: Ox'ords, Jas. Tolton, Walkerton; Southdowns, John Jackson, Abingdon; Hampshires and Suffolks, John Kelly, Shakespeare; Dorsets, Col. J. A. McGillivray, Uxbridge; Merinos, W. M. Smith, Scotland; Ontario Agricultural College, Prof. G. E. Day. Delegates to Fair Boards: Toronto Industrial, J. M. Gardhouse, John Jackson; Western Fair, London, A. W. Smith, A. P. Westervelt: Ottawa, F. W. Hodson,

reeders'

House.

nd two

: the

29 new

d there

g, call-

nection

at they

e could

uld not

ing for

to pay.

ed that

th the

aupple-

100.00:

Guelph,

o Bran-

meeting

e it at

ciations

hold a

carried.

ring the

3. The

ear will

ment of

l to be

commis-

discus-

ority of

decided

everting

dge sys-

onto In-

ext fall.

are: Bollert,

lst Vice-

Rettie,

ia. Ont.:

dent. R.

Ancaster.

ce-Presi-

Hallman,

Direct-

Gilroy.

eo. Rice.

ng; Ed.

ankfort;

surer, G.

.George:

Suhring,

nd J. H.

Го То-

al Fair.

ert and

. Rich-

gan and

Sweet.

ting.

p Breed-

use, To-

. R. H.

terms to

the pro-

neans of

ecretary-

d a con-

tion ap-

oition in

in aid of

ne wages

ter Fair

ph, was

follows:

resident,

breeds:

sters, A.

Denfield;

Ox!ords,

Jackson,

n Kelly,

ray, Ux-

Ontario

gates to

rdhouse,

Smith,

and

; 2nd M. Rich-

00.

ints to

# Dominion Cattle Breeders' Annual Meeting.

The annual meeting of the Dominion Cattle Breeders' Association was held in the Palmer House, Toronto, January 29th, and was largely attended by members. The address of the President, Mr. Arthur Johnston, was congratulatory on the flourishing condition of the cattle business in the Dominion. The report of the Secretary-Treasurer, Mr. A. P. Westervelt, which was adopted, showed the society in a prosperous condition and recommended renewed efforts for the extension of interprovincial trade in live stock.

A resolution to memorialize the Dominion Government to use its influence with the British Government towards securing the removal of the embargo on Canadian cattle was, after considerable discussion, withdrawn, the prevailing opinion being that no good was likely to be accomplished by its adoption.

The election of officers for 1903 resulted as follows: President, Arthur Johnston, Greenwood; Vice-President, A. W. Smith, Maple Lodge. Vice-Presidents for the Provinces: Ontario, H. Wade, Toronto; Manitoba, Hon. Thos. Greenway, Crystal City; Northwest Territories, C. W. Peterson, Regina; Quebec, H. D. Smith, Compton; Nova Scotia, E. B. Elderkin, Amherst; New Brunswick, Thos. A. Peterson; P. E. I., F. G. Bovyer, Georgetown; British Columbia, G. H. Hadwen, Duncan's; Newfoundland, Hon. Thos. C. Duder, St. Johns. Representatives of Breed Associations: Shorthorns, John Isaac and T. E. Robson; Aberdeen-Angus, Jas. Bowman and J. W. Burt: Galloways, D. McCrae and R. Shaw; Representatives of other breeds, as named by their Associations; O. A. C., Prof. G. E. Day; General Director, J. M. Gardhouse. Delegates to Fair Boards: Toronto Industrial, Col. J. A. McGillivray and A. P. Westervelt; Ottawa, F. W. Hodson and N. F. Wilson: London, R. Gibson and T. E. Robson; Ontario Winter Fair, G. W. Clemons, John Bright and J. T. Gibson; Eastern Ontario Winter Fair, the President, J. G. Clark and N. F. Wilson; Brantford, G. W. Clemons.

A resolution, approving of the holding of a Dominion Exhibition in Toronto this year and recommending Dominion and Provincial Legislative grants for this purpose, was unanimously adopted.

A motion approving and endorsing the action of the Winter Fair Board in dealing with protests at the late show at Guelph was adopted.

# Dominion Swine Breeders' Annual Meet-

The annual meeting of the Dominion Swine Breeders' Association was held at the Palmer House, Toronto, January 30th, 1903. The President, Major G. B. Hood, in his address, congratulated the members on the prosperous condition of the trade, the steadiness of the market, and the creditable class of hogs exhibited at the leading fairs, and suggested that early action be taken to prepare for an exhibit at the St. Louis Fair.

The report of the Secretary-Treasurer, Mr. A. P. Westervelt, which was adopted, showed the Association in a very prosperous condition, the financial statement showing receipts of \$6,496.87, expenditures \$4,997.84, and a balance on hand of \$1,499.03. On motion, \$75 was voted towards payment of wages of man in charge of stock shipments in Government car.

The executive was instructed to carry out the suggestions of the secretary's report re interprovincial trade. A motion favoring the holding of a Dominion Exhibition this year was carried, and in that event \$300 was voted towards prizes on condition that Toronto Exhibition increase its list by that amount. It was decided that the judges in bacon classes at the Winter Fair should be two breeders and one packer.

Following are the list of officers elected for 1903: President, Maj. G. B. Hood, Guelph; Vice-President, Thos. Teasdale, Concord. Directors representing breeds: Berkshires, Geo. Green, Fairview; Yorkshires, J. E. Brethour, Burford; Chester Whites, R. H. Harding, Thorndale; Tamworths J. C. Smith, Hintonburg; Poland-Chinas, W. M. Smith, Scotland; Duroc-Jerseys, W. N. Tape, Bentpath; Essex, Jos. Featherston, Streetsville; O. A. C., Prof. G. E. Day; General Director, Wm. Jones. Delegates to Fair Boards: Toronto Industrial, D. C. Flatt, R. P. Snell; Ottawa, J. E. Richardson, A. P. Westervelt; London, Geo. Green, D. DeCourcey; Peterboro, R. Vance, Guelph, G. B. Hood, Jas. Anderson.

# The Fruit Marks Act.

Mr. W. A. McKinnon, Chief of the Fruit Division of the Department of Agriculture, Ottawa, has returned from a ten months' trip to Great Brit-Besides endeavoring to extend the trade in all classes of fruit, he has devoted considerable attention to the conditions of shipments upon arriving in port, with a view to determine the most satisfactory shipping cases, and the proper temperatures at which to hold the goods during transit. Mr. McKinnon reports considerable improvement in the condition of the packing since the introduction of the Fruit Marks Act, although instances where fruit has been falsely packed are still encountered. In the course of a year or two, when the requirements of the act as regards the proper grading of fruit are fully understood, it is expected that nearly all such cases will disappear. Mr. Alex. McNeil. Windsor, Chief Fruit hispector, acted as Chief of the Division in Mr. McKinnon's absence.

### Recent Publications.

Dr. Rutherford, Chief Veterinary Inspector for Canada, has just issued a bulletin on the footand-mouth disease. The disease has made three appearances in Canada, the last being in 1884, when it was discovered at the quarantine station at Point Levis, but was promptly exterminated. The recent outbreak in the United States has again drawn considerable attention to the disease. The history, symptoms, treatment and preventive measures are each dealt with separately in Dr. Rutherford's publication. The symptoms are given very plainly and fully, and considerable attention is devoted to methods of stamping out the disease when it once makes its appearance. It is highly important that the symptoms should be generally known and any outbreak immediately reported, as those concealing its existence are liable to a fine of two hundred dollars.

The Seed Division of the Commissioner's Branch of the Agriculture Department has now ready for distribution a bulletin on "The Conditions of the Trade in Timothy, Alsike and Red Clover Seeds." The results of the past year's investigation are given in detail, together with miscellaneous information of use to farmers and seed dealers. The subject of pure seed has been touched upon at many of the Farmers' Institute meetings this winter, and has created considerable interest, but as thus dealt with has been merely introduced and can be much more fully and profitably studied by consulting this bulletin. Copies of either of these may be had by applying to the Department at Ottawa.



MAJOR G. B. HOOD, GUELPH.
President Dominion Swine Breeders' Association.

# Help the Township Fair.

Being apprehensive of the injury or destruction of the useful life of the Township Fair, as a result of the Circuit District Fair Plan, Mr. E. A. Garnham, ex-President of the Bayham Agricultural Society, writes us, in view of the approaching meeting in Toronto on Feb. 18th and 19th of the Association of Fairs and Exhibitions. He contends that reform is needed in the management of township fairs in order to secure the two essentials: 1st, money to pay prizes, and, 2nd, competition. Without donations he considers it about impossible to get the amount needed through membership. The plan which he recommends, and which deserves careful consideration, is that the Government grant to each township be \$200, or a sum equal to an amount (limited) granted by the council of the township in which the fair is held, to be levied on the ratable property of the township and collected with the other taxes, for this specific purpose, and every resident of the township to be entitled to a free membership of the fair. He suggests an act to relieve councils of the responsibility of making these grants without a petition or vote of the ratepayers. Having thus provided for the funds, 'competition' will readily follow, persons of limited means or large families being enabled to attend the fair at a trifling cost, where they would become acquainted with stockmen and other progressive agriculturists, and be led to exhibit themselves, and later on at the larger shows.

Have you a friend or neighbor who would be interested in a really first-class agricultural paper? Kindly forward us his name and P. O. address, and we will mail him a free sample copy of the "Farmer's Advocate."

# MARKETS.

### Toronto Markets.

Trade was fairly good at the Western Cattle Market and prices for all classes, except best export, ruled steady. The drop in best classes reported in last issue has not recovered, and the opinion grows that high prices for export cattle are doubtful. Prices on this market are above an export basis. The supplies today were 970 cattle, 670 sheep, about 500 hogs, and 14 calves.

Export Cattle.—The English market is still weak and overstocked; choice heavy, \$4.00 to \$5.00; medium, \$4.40 to \$4.80. Mr. Wm. Levack, the heaviest purchaser of fat and export cattle on the market, informed our correspondent that he could purchase any quantity of cattle in Chicago and land them in the Toronto market cheaper than he could buy them here. Mr. Thos. Piers, of the firm of commission export cattle dealers, Liverpool and Manchester, said the condition of the British market was caused by the fact that a large number of cattle raised by English farmers were selling below our export basis, resulting in the market being somewhat demoralized.

Butchers' Cattle.—Choice picked loads of butchers' cattle, suitable for local trade, equal in quality to export, average 1,075 to 1,150 lbs., are sold at \$4.40 to \$4.60; medium, \$4.60; good, \$3.85 to \$4.35; common, \$3.25 to \$3.35; rough, undersized, poor stock canners \$3.25 to \$3.75

stock canners, \$2.25 to \$2.75.

Bulls.—Choice heavy export bulls, \$4.25; light, \$3.50 to \$3.75.

Feeders.—Feeders in good request; best short-keep feeders, \$4.25 to \$4.40; medium and light, 800 to 900 lbs., \$3.00 to \$4.20.

Stockers.—Stockers, 500 to 700 lbs. each, of good quality, \$3.00 to \$3.25; mixed colors, poor quality, \$2.75 to \$3.00.

Sheep.— Market steady, \$3.50 to \$4.00 for ewes, and \$2.50 to \$3.25 for bucks.

Lambs.—Lambs sold to a good demand and prices steady at from \$4.50 to \$5.25 per cwt.

Milch Cows.—Milch cows and springers, \$30.00 to \$50.00 per head. One choice cow reached \$55.00.

Calves.—Best choice sold at from \$8.00 to \$12.00 per head, or from \$4.50 to \$6.00 per cwt. Choice veal calves are in good request always.

Hogs.—The Wm. Davies Co. are advising drovers to be particularly careful in their purchases for the next ensuing weeks, and that unless the hogs are exactly the required weights all others would be severely dealt with and culled to a lower figure. Best selected bacon hogs, \$5.90; thick fat and lights, culled, \$5.65; sows at \$4.50 to \$5.00 per cwt., and stags at \$3.00. Prospects are not very good for the next few weeks. Unless the English market takes an upward turn, \$5.75 will be the price.

PRODUCE.

Wheat.—Red and white, 70c. to 71c., middle freights; Manitoba No. 1 hard, 87c.; No. 1 northern, 85½c. In Toronto, eight hundred bushels of wheat sold as follows: White at 73c. per bushel, red at 72½c. per bushel, goose at 68½c. per bushel.

Barley.—No. 3 extra for export, 47c.; No. 3 at 42c. for export. In Toronto, barley sold at 48c. to 50c.

Oats.—New oats are quoted at 31c. for No. 2, north, and at 33c. No. 1. In Toronto, eight hundred bushels sold at 36c.

# Chicago Markets.

Chicago, Feb. 10.—Cattle—Good to prime stears, \$4.40 to \$5.60; poor to medium, \$3 to \$4.25; stockers and feeders, \$2.25 to \$4.40; cows, \$1.40 to \$3.40; heifers, \$2 to \$4.60; canners, \$1.40 to \$2.60; bulls, \$2.00 to \$4.24.

"Hogs-Mixed and butchers', \$6.60 to \$7.05; good to choice heavy, \$6.90 to  $$7.12\frac{1}{2}$ ; light, \$6.40 to \$6.65; bulk of sales, \$6.60 to \$6.85.

Sheep and Lambs—Steady to strong; good to choice wethers, \$4.50 to \$5.50; fair to choice, mixed, \$3.50 to \$4.50; native lambs, \$4.50 to \$6.50; western lambs, \$4.75 to \$5.40.

# Buffalo Markets.

East Buffalo, N. Y., Feb. 10.—Hogs—Heavy, \$7.10 to \$7.15; a few at \$7.20; mixed, \$7 to \$7.10; Yorkers and pigs, \$6.95 to \$7; roughs, \$6 to \$6.25. Sheep and lambs—Top lambs, \$6.60 to \$6.65; fancy, \$6.75; common to good, \$4.25 to \$6.50; yearlings, \$5.25 to \$5.50; ewes, \$4.50 to \$4.65; top mixed sheep, \$4.50 to \$4.75; common to good, \$2.25 to \$4.

# British Cattle Markets.

London, Feb. 9.—United States cattle, 6¼d.; sheep, 7¼d.
Liverpool, Feb. 9.—Canadian cattle, 6¼d.; trade weak.

# Montreal Markets.

Montreal, Feb. 9.—Trade was rather slow, but higher prices prevailed all round. A lot of 20 prime steers were sold at 5½c. per lb.; medium beasts, from 3½c. to 4½c., and the common stock, from 2½c. to 3½c. per lb. A lot of good-sized calves were sold at \$7 each, or a little over 5c. per lb. Good lots of fat hogs sold at from 6c. to 6½c. per lb., weighed off the cars.



There's always love that's caring.

And shielding and forbearing,

Dear woman's love to hold us close and keep our hearts

in thrall;
There's home to share together

In calm and stormy weather,

And while the hearth-flame burns it is a good world,

after all."

## Nelson and the Coxswain.

Just before the Battle of Trafalgar a mail was sent from the English fleet to England, and word was passed that it might be the last chance to write before the expected engagement. The letters had been collected from the ships, the letter-bags were on the vessel which was to take them, and she had got some distance on her way, under full sail, when Lord Nelson saw a midshipman approach and speak to Pasco, the signal officer. Then Nelson showed the side of his nature which so often won the sailors' hearts.

Pasco uttered an exclamation of disgust and stamped his foot in evident vexation. The admiral called him and asked what was the matter.

"Nothing which need trouble your lordship," was the reply.

"You are not the man to lose your temper for nothing," rejoined Nelson. "What was it?"

"Well, if you must know, my lord, I will tell you. You see that coxswain?" pointing to one of the most active of the petty officers. "We have not a better man on the Victory, and the message which put me out was this: I was told that he was so busy receiving and getting off his mail-bags that he forgot to put his own letter to his wife into one of them; and he has just discovered it in his pocket."

"Hoist a signal to bring her back!" was Nelson's instant command. "Who knows that he may not fall in action to-morrow? His letter shall go with the rest."

The despatch-vessel was brought back for that alone. Captain Mahan tells this story on the authority of the son of Lieutenant Pasco, who used to say that the sailors idolized Nelson. Evidently it was with reason.

## Wisdom of Louise - On Valentines.

There is an ugly brass knocker on the side, casing of the door of Louise's den. I hate the thing, for it grins in the most exasperating way, whether she is in or out, and I always give it a vindictive bang, as if to get even with it.

So I gave it a good hard knock, and put my hand on the door knob. There was no response, yet I knew Louise was there.

So I pushed the door open. There she stood. As a housekeeper would say, "the room was a sight to behold," and despite her former lecture on the subject, Louise was hardly "dressed up."

"Well," I said, advancing into the chaos, what is it now, Louise, a church fair or a nonsense party?"

"Neither," she replied gaily. "Valentines, my child, valentines. Have you forgotten that the good Saint's Day is not far off?"

"Well," I retorted, "what of that? Are those pictures, cardboard, sealing wax and ribbons to be converted into valentines, pray? I don't suppose these kisses are?" and I helped myself to a fat pink one, as I made room for myself on the edge of the couch. But she made a dive at me, and caught the kiss while still intact.

"That's part of this very valentine," she said, examining it on every side for possible injury. "Just you watch."

On a square of heavy white egg-shell cardboard, she was pasting another square of blue paper, the center of which she had torn out heart shape, leaving jagged edges where it was torn, and thus revealing the egg-shell surface beneath, heart shaped. Near the apex of the heart she tied two candy kisses, passing white baby ribbon directly through the cardboard, so as to hold them in place. In the lobes of the heart she printed exquisitely with ink:

"I send you this with my best wishes, Also with my sweetest kisses."

"There!" she cried, holding it up. "You needn't say that isn't original, for it is, and I'm going to send it to Aunt Mirandy Brannon."

going to send it to Aunt Mirandy Brannon."
"Mirandy Brannon," I echoed after her, "For goodness sake, Louise!"

"Oh, you needn't laugh," she said, turning to me with a bit of fire in her eyes, "but I tell you it is people like her who appreciate things of this People don't outgrow sentiment, if once it is in them, and the older they grow the less they get and the more hungry they are for it. you, Harriet, we don't half appreciate the loneliness of some lives in this respect. We are young and full of gaiety, and we think that the sweet things of life are ours by the right of youth. Somehow we forget that the heart stays young, though the body may grow old, and I can just imagine the pushed-out-of-the-way feeling one must have to see us young folks all exchanging these silly things, with never a thought of them and their craving affection.

"Take Emily, she'll have dozens of valentines, and she won't care half as much for them all combined, except, perhaps, Tom's, as Mirandy will for this bit of pasteboard sent by a foolish girl. It's the being thought of that counts. I have a whole list"—she turned the page of her note-book where I could see names written—"of people whom

I call my valentines. They are old folks, and neglected folks, and every one of them will be more pleased over the solitary valentine that I shall send them than you can possibly imagine.

"All of them old ladies? Mercy, no! I have quite as many dear old men on the list, and I send them a box of candy or a bunch of violets—yes, even the men, you scoffer, you, for I tell you"—Louise's voice grew earnest—"I tell you sentiment craves sentiment, and I've seen tears start in the eyes of more than one old man on account of my little valentine remembrance. It is even different from Christmas, for Valentine's day is distinctly sentimental, and as I said before, sentiment never grows old, or the heart too old for it.

"Try it yourself, and see."-[Harriet C. Cox.

# Something About Devonshire.

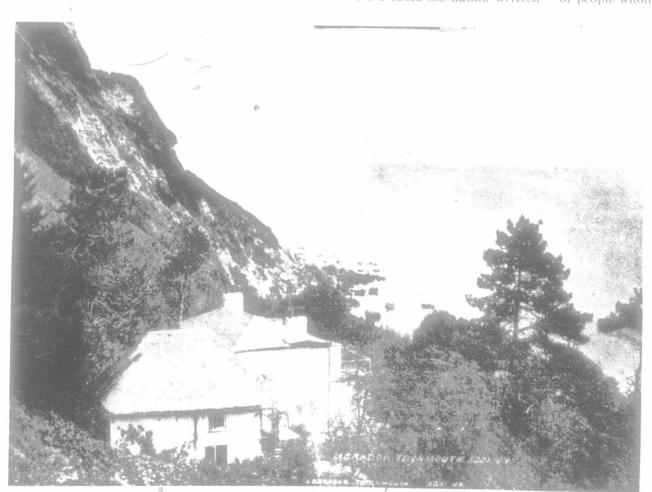
NO. I.

It has given me such sincere pleasure to receive messages from the Gloucestershire folks who, on both sides of the Atlantic, are readers of the "Farmer's Advocate," telling me that my little descriptions bring back to their minds scenes dear to them in the long ago of their childhood or youth, that I am going to see whether there may not be some others amongst the settlers of Canada's far-away, big Northwest who may, in the same way, find an interest in what I may have to tell of my pleasant stay in the county of their birth, beautiful, beautiful Devon. I have always loved Devonshire; it is associated with so many happy holiday hours of my long past girlhood The soft Devonshire accent, with its distinctive pronunciation, sounds very pleasant to my ears. I like to hear my landlady ask me if I would like another "speun" (spoon), or prophesy that tonight there will be a full "meun" (moon). I like to be told that on both sides the Teign there still survive many of the old family of "Oonion," meaning of course "Onion," and that up to some ten years ago a son, or grandson, of the "John Oonion," who used to call me "little Missey, and ferry me over from Shaldon to Teignmouth and back again, still plied the oars of one of the two or three ferry boats, all that were then needful for the few visitors stopping at the little village on the other side of the harbor. Now there is a brigade of ferry boats, and a proprietor to receive your penny when you put your foot upon. or take it off, the ticklish-looking board which is still their primitive gangway, one which, when the waves are rough, seems possessed of a buoyancy which is of itself a warning to tread warily, if you would desire to land dryshod upon the beach. On the Shaldon side there still stands out, in bold prominence, the grand old "Ness," with its rocks large and small, scattered at its base, around which the adventurous may scramble to the sand and shingle beyond, and if the tide still serves, and their spirit of enterprise remains unquenched, they can get around the next headland too, and be well rewarded for the effort. There are still some shells and stones, such as the madrepore and agate, well worthy of the search, but whether it is that years have dimmed my sight, and my poor old back has taken on a stiffness which certainly never troubled me nearly fifty years ago (not a unique experience, by any means!), some-OW cannot, find them am the more readily disposed to believe what I am assured is really the case, that there are fewer and fewer of both stones and shells than there used to be. The wash of the waves and the action of the frost upon the soft, red sandstone has, in the course of years, made some changes in the actual outline of the cliffs, but has taken nothing from their grandeur or beauty. Teignmouth and Shaldon have shared long centuries back in various vicissitudes, having twice been nearly wiped out of existence, first by the incursions of the Danes, over 900 years ago, and then later on by the French. Tradition claims that

"In memory whereof, the Ciff exceeding red Doth seem thereat again full fresh to bleed."

And truly the red of these grand old cliffs is very red indeed. There is a little battery and coast guard station by the lighthouse on the Teignmouth side, but there is no doubt that this is still a most unprotected line of coast, although the men of Devon will prove as valiant as of yore, if ever again called upon to defend it. This is what history tells us of the past:

"When Admiral Tourville was induced by James II. to bring his galleys to terrorize the English, every West Countryman who saw the unwieldy crafts afloat in Torbay imagined himself already a galley slave if something were not promptly done, and 'so,' writes Macaulay, 'the bacon on the ridge above Teignmouth was kindled. Hey-tor and Cawsand made answer, and soon all the hill-tops of the West were on fire. Messengers rode all night, and early the next morning 500 gentlemen and yeomen, armed and mounted, had assembled on the summit of Haldon hill. In twenty-four hours all Devonshire was up.' The Torbay landing being impossible was The Torbay landing being impossible, Tourville, desiring to intimidate the worthies of Devon, chose unprotected Teignmouth, sent off some of his galleys, and after shot and shell had cleared



TEIGNMOUTH VIEW, DEVONSHIRE, ENGLAND.

ill be

that I

gine. I have

and 1

olets-

l you'

timent

in the

of my

fferent

inctly

never

Cox.

to re-

who.

of the

little

s dear d or

may

Can-

in the

ve to

their

lways

many

hood nctive ears. d like

t to-I like

there

ion,"

some

John

nouth

of the

need-

e vil-

there

or to

upon,

ich is

en the

yancy

ly, if

each.

bold

rocks

round

sand

erves.

ched,

, and

still

epore

ether

d my

cer-

ago

some-

sured

fewer

o be.

frost

ourse

itline

their

aldon

vicis-

t of

anes,

s is

and

the

this

ough

vore.

s is

the

e un-

not

the

kin-

and

fire

next

and

ldon

was

evon,

e of

ared

the

sev.

the way for the landing, 1,700 of his men plundered, devastated and fired the town.

But I am not disposed to linger over what imbeen, what may be, nor over what never, I hape will be again. I want to tell something of levonshire as I find it to-day. I had so often revisited this particular corner of England in my day dreams, when oceans separated me from it, that it would not have surprised me if I had felt some disappointment in the reality, but it has not been Crossing the veldt of South Africa, long before the war, when sleep at last had made me oblivious to sights and sounds which had cruelly kept me wakeful until it was so near dawn that it was not worth while to sleep at all, a dream of the green lanes of Devon, and the beating of the waves upon its shores, would come and come again, probably because I so longed for them and had then so little hope of ever being amongst them, and later on, in Canada, when the first burst of spring would bring us its own sweet buds of promise, I have frequently dreamt of the violets and primroses in the lanes of Devonshire, and, would take the rain pattering upon my window panes for the lap, lap, lap of the tiny little breakers upon a sea-girt shore. Well, my wish has been granted, and God has been good to me, not only in giving me back as much recovered health as my years render possible, but in allowing me to retain unimpaired a keen appreciation of the beauties of this very beautiful part of my native land, and of these beauties I shall. I trust, be privileged to tell you something in the next issue of our Home Magazine. H. A. B.

### Humorous.

The little daughter of the house sat down beside the minister, and began to draw on her slate. "What are you doing?" asked the clergyman. "I am making your picture," said the child. She worked away earnestly, then stopped, compared her work with the original, and shook her head. "I don't like it much," she said. "Taint a great deal like you. I guess I'll put a tail to it, and call it a dog.'

In an Iowa court, recently, a lawyer arguing his case became very earnest. Then he paused a moment, and said: "I see Your Honor shakes your head as to that statement, but I desire to reaffirm what I have remarked." The court retorted: "I have not intimated how I shall construe your evidence or what my decision shall be. Your remarks are uncalled for." "You shook your head," was the reply. "That may be true," retorted the court. "There was a fly on my ear, and I reserve the right to remove it in any manner I see fit. Proceed with your argu-

"Excuse me, but I am in a hurry." "What do you want?" he was asked. "A job." "Do you? Well," snorted the man of business, "why are you in such a hurry?" "Got to hurry," replied the boy. "Left school yesterday to go to work, and haven't struck anything yet. I can't waste time. If you've got nothing for me to do, say so, and I'll look elsewhere. The only place I can stop long is where they pay me for it." "When can you come?" asked the surprised merchant. "Don't have to come," he told. "I'm here now, and would have been to work before this if you had said so."

"I suppose," said the physician, smiling and trying to appear witty, while feeling the pulse of a lady patient, "I suppose you consider me an old humbug?" "Why, doctor," replied the lady, "I had no idea you could ascertain a woman's thoughts by merely

If the two young people of whom "Answers" tells this story were not reconciled by their own absurdity, they at least furnished amusement for others.

feeling her pulse."

They had been engaged, but had quarreled, and were too proud to make up. Both were anxious to interests. have people believe that they had entirely forgotten

He called at her home one day to see her fatherbusiness, of course. She answered the door-bell.

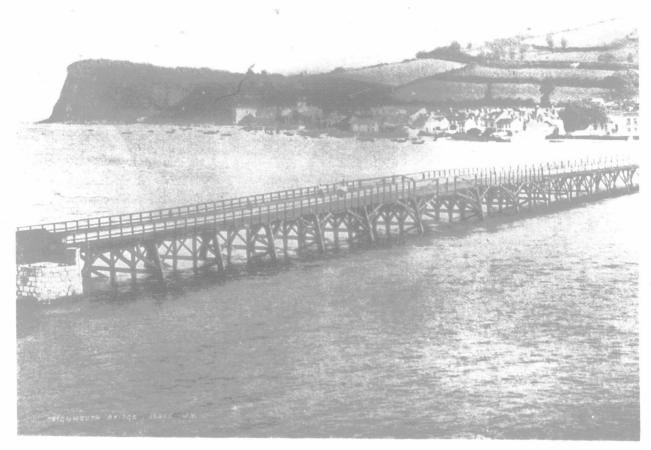
Said he: "Ah, Miss Jepkin, I believe. Is your Sather in ?" "No, sir," she replied, "father is not in at present.

Do you wish to see him personally?' "I do," he answered, feeling that she was yielding, on very particular personal business," and he turned

proudly to go away. "I beg your pardon," she cried after him, as he

reached the lowest step, "but who shall I say called?" A county curate in England who was newly married called on a great lady of the village, and, as he presented his wife, introduced her with the flippant and horribly ill-bred quotation, "'A poor thing. madam, but mine own." The lady, looking at the curate severely, replied: "Your wife ought to have is roduced you as 'A poorer thing, but mine owner."

"These aren't the kind of biscuits my mother used to make," he said. "Oh, George," she faltered. on the verge of tears. "Well, they're not," he repeated. emphatically. "They're enough sight better." And the the sun came out again.



TEIGNMOUT & BRIDGE, DEVON, ENGLAND.

# THE QUIET HOUR.

## Spiritual Insight.

I fear not Thy withdrawal; more I fear, Seeing, to know Thee not-hoodwinked with dreams Of signs and wonders-while, unnoticed, Thou Walking Thy gardens still, commun'st with men, Missed in the common-place of Miracle!"

How often might we echo Jacob's words: "Surely the Lord is in this place, and I knew it We talk of a "providential" escape, as though God only occasionally had anything to do with our affairs; even as the Syrians thought that the Lord was God of the hills but not of the valleys, and Balak imagined that if Balaam would come into "another place" God might allow him to curse Israel. When some great trouble comes we can say, "It is the Lord," and perhaps may be able to add, "let Him do what seemeth Him good." But are our eyes open to His presence every day, do we know Him under any disguise?

Sometimes men have what they call "a stroke of good luck," even as the disciples who had been fishing all night without success, and then suddenly caught 153 great fishes. On that occasion St. John had spiritual insight enough recognize Him from whom the success came, say-"It is the Lord." Last month a young engine-driver of my acquaintance broke his collarbone, and was forced to go to the hospital. day or two later the engine he was accustomed to drive was involved in a terrible collision, and if he had not been disabled he would probably have been killed. In such a case it is easy to give very hearty thanks for the slight accident which saves a man from a greater; but God does not always lift the veil at once to show us the meaning of what He sends. It is our business to trust Him, even when we do not understand, being very sure that He is planning everything for our best

Saul of Tarsus had his eyes opened to the fact that in persecuting Christians he was persecuting his lawful King and Master. If only our eves were always open to this solemn truth, how different life would be. We too often forget that our unkind thoughts and words about other people are accepted by Christ as done to Him, just as certainly as the kind acts. How sorry and ashamed we should feel if, when busily engaged in unkind conversation, we should hear His voice saying, "Why persecutest thou Me?.....I am Jesus whom thou persecutest."

Perhaps we don't really believe that this rule applies in such a small matter as ill-natured gossip-but why should it not? If Christ is willing to accept as a gift to Himself such a trifling kindness as a cup of cold water, surely He will accept the small unkindnesses too. Even little children must be treated with consideration for His sake, who has said, "Whosoever shall receive one such little child in My name, receiveth Me.'

Then there is another person who is often the target for criticism and abuse, at the hands of many members of his congregation. Let us try to remember the promise, "He that receiveth whomsoever I send receiveth Me," and also the warning, "He that despiseth you despiseth Me,

and he that despiseth Me despiseth Him that sent Me." These rules work both ways, and we have need to pray earnestly that God may open our eyes to see Him everywhere. Those who shall be condemned at the last because they have neglected to supply the wants of their needy brothers and sisters, will answer: "Lord, when saw we Thee an hungred, or athirst, or a stranger, or naked, or sick, or in prison, and did not minister unto That is just the point—they do not Thee? "see." Don't we fail to see Christ many a time when we should have seen and recognized Him?

There is a story told of a poor shoemaker called Martin, who received in a dream a promise that the Lord Jesus would visit him on the morrow. He lived in a cellar and could only see the feet of those who passed by. Three or four times during the day he saw shabby boots shuffling wearily past the window, and each time he hurried out to invite the tired wayfarers in for rest and food. All day he watched for the expected Guest, and went to bed sad and disappointed because He had not come. Then in a dream the shabby men, women and children he had cheered and helped came one by one, looked earnestly at him, and said: "Martin, dost thou not know Me." Then he understood that Christ had really visited him that day.

Let us pray for clear, spiritual vision, that we to-day and every day, that the Lord is in this place—yes, in your home and in mine and may leave all our affairs in His hands to dispose of as He sees best. Then only shall we understand the perfect peace of a heart stayed on God, a peace which nothing can shake as long as the trust remains.

"I cannot always see the plan on which He builds my life,

For oft the sound of hammers, blow on blow,

The noise of strife, Confuse me till I quite forget He knows

And oversees. And that in all details, with His good plan My life agrees.

"I cannor always know and understand The Master's rule.

I cannot always do the tasks He gives In life's hard school.

But I am learning with His help to solve

Them, one by one. And when I cannot understand, to say

'Thy will be done!'"

HOPE

# Length of Rivers.

The longest river in the world is the Missouri River to the Gulf of Mexico, 4,800 miles. The next longest river in the world is the Nile,

200 miles. The third is the Amazon, 3.750 miles.

The fourth is the Venesei, 3,400 miles.

Then comes the Mississippi, 3,200 miles

The Yang-tse-kiang, 3,320 miles. The Obi, 3,000 miles.

The St. Lawrence is 2,000 miles long.

The Yukon is 1,600 miles.

The only river of any importance in Australia is the Murray, 1,500 miles in length.

# THE CHILDREN'S

### Between Ourselves.

The "Hostess" has sent on to me a story written for our Corner by a little Manitoba girl named Jean Murray. It is the story of a child who got lost in her father's two-hundred-acre wheat field and was not found until next morning, when the searchers discovered her lying asleep not a quarter of a mile from home. Your Manitoba wheat fields must indeed be a wonderful sight, Jean, if any one can get lost in them.

Here is a letter which reached me in Novema ber, but has been crowded out until now:

West Montrose, Nov. 25, 1902.

Dear Cousin Dorothy :-

I have just finished reading "Our Corner" in the "Advocate," which reminded me that I had intended to write to you to-night.

I have just returned from a trip to Bracebridge to visit my friend, Hilda Beaumont. You will likely remember, after both of us got first prizes, you said we ought to correspond. We started writing then, and have been ever since. We became quite intimate friends without seeing each other.

Papa was going up to Sault Ste. Marie, so I went with him as far as Bracebridge and spent about a week with Hilda.

I had a lovely time with her. She is very nice, and I am sure I am thankful that you ever mentioned about our corresponding.

Muskoka is very different from Waterloo Co. Here, there is very little water, and in Muskoka there is so much. I had never seen a lake or a very large river before I went up there. The Muskoka River and lake are near Mr. Beaumont's; in fact, the river (at least part) is just in front of their house.

While up at Mr. Beaumont's I went for four steamboat rides, and down to the lake a couple of times in the rowboat. Of course, I was out in the rowboat more than twice. This was a great thing for me, having never seen a lake or large river before. Then we (Hilda and I) went to the top of a very high rock, where we could see quite a distance around. It was just a lovely scene. Of course, this scene would be much prettier in summer, when everything is fresh and

I may possibly try the competition later. I think Hilda would be able to write a very good composition on Canadian farm life. I must close. From

HILDA BOWMAN.

Hilda Bowman and Hilda Beaumont won prizes in a "Children's Corner" competition some time ago, and the similarity of name induced them to start a correspondence with each other. As you see, they have, through their connection with the "Advocate," won something worth far more than a prize—I mean a true friendship—and I heartily congratulate them both. No one knows hetter than I how a friendship begun in girlhood may grow stronger and more precious as years roll on. In my first week of life at a boardingschool in Toronto, my friendship with "Mollie" began. Her kindness to a miserable, homesick child has never been forgotten, and never will. have learned and loyal friendship, and I hope the two Hildas may be friends till death—and beyond it. course there are plenty of school-girl friendships which don't deserve to be called such. Girls are often inseparable for a few weeks, and then declare they "can't bear" each other. These quarrels are generally caused by that little member which can do such great things—the tongue.

"I told a secret! It wasn't much For a little girl to tell. And I only told it, softly and low, To my intimate schoolmate, Belle. But the silly secret grew and grew, And all around it spread, Until at last it was hard to find

The thing I had really said. And when I sat in mamma's lap With all my troubles told,

She said 'twas the 'matter great' that grew From the 'little fire' of old. So I learned a lesson well that night

Before I went to bed, And mamma gave me a rule to keep And this is what she said: 'The only way is never to say A word that can offend.

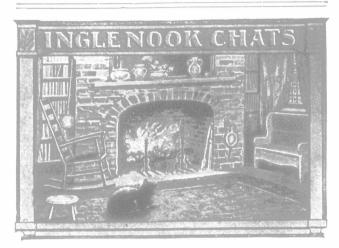
Not even close to the listening ear Of the dearest intimate friend '

Have any of you had an experience like that? If you read the third chapter of the epistle of St. James, you will find that he says the tongue is harder to tame that any wild least. He also those little seven-by-nine fenced-in gardens; plant says that it can do a great deal of mischief, although it is so small, just as a very tiny flame with a horse-hoe." Now, this is very good admay start a terrible fire. Now, if you were going vice, but it requires the co-operation of the men to tame a wild heast thoroughly, you would have of the house to carry it out successfully; they, to begin before it was full-grown; it is also much. Dear fellows, think they have already enough to

CORNER. tongue before it has grown too wilful and strong to be controlled.

- 'You have a little prisoner, He's nimble, sharp and clever; He's sure to get away from you, Unless you watch him ever.
- "And when he once gets out, he makes More trouble in an hour Than you can make in many a day, Working with all your power.
- "He sets your playmates by the ears, He says what isn't so, And uses many ugly words Not good for you to know
- "Quick, fasten tight the ivory gates, And chain him while he's young ! For this same dangerous prisoner, Is just-your little tongue."

COUSIN DOROTHY.



My dear Guests,-

"A bold yeomanry, their country's pride, When once destroyed can never be supplied,"

sang Goldsmith many years ago, and realizing the truth of his assertion, the ruling powers of our great Dominion have been, and are, exerting many efforts to assist those who have devoted themselves to the pursuit of agriculture. establishment of the Farmers' Institute should be of great benefit, but how many there are who fail to take advantage of the benefits it places within their reach. These same people are, in most cases, the ones who whine about the monotony and narrowness of farm life, when it is extremely doubtful if they subscribe for a journal devoted to their interests, or even for the local weekly.

It is a matter of regret that in many instances the meetings of the Farmers' Institute are so poorly attended. The speakers come willing and competent to address the people and to discuss with them the different problems pertaining to farming, etc. Do you not suppose it must have a very depressing effect upon them when they see that scarcely any have come to listen to them? Another trouble is that most of our farmers are ers (many of them plain farmers themselves), that they sit in silence, never voicing the question or protest that rises to their lips. Once outside of the hall, oh, that's another story. Their tongues become suddenly loosened, and it is really marvellous what knowledge they have. Why, then, in the name of all that is reasonable, do they not diffuse that knowledge where it would benefit a number, instead of pouring it into one individual's Even your very failure along certain lines may be of as much benefit to your listeners as another man's success, inasmuch as it will warn them off the rocks upon which you have foundered. This matter of friendly discussion is a vital part of the success of the Institute, and it lies with the audience, not with the speakers, to promote it. The latter are always willing to answer any questions put to them, and to ask questions pertaining to subjects of interest to himself is the best way for the farmer to derive benefit from the meeting. At one of the meetings in North Lanark, Mr. T. G. Raynor, a very pleasing speaker, touched on the subject of the home garden, tree planting, etc., mentioned the various evils that follow the too-prevalent custom of overclearing land, and strongly advocated the planting of trees about the farm buildings, not only as a wind-break, but also as a protection from disastrous electrical storms. Some varieties of trees, he said, were great conductors of electricity, and attract the current which might otherwise destroy more valuable property. speaking of the garden he said: "Do away with Now, this is very good adeasier to put out a fire before it gets very hig. do, and so they "let the women-folks mind the So you had better begin at once to tame your parties," with the result that the farm table lacks

many luxuries easily procurable. By the way, now is the time to procure catalogues from some of the leading seedsmen; take plenty of time to make your selection, and then order early; when you want to start early seedlings you will have no troublesome delay.

A funny subject for the Ingle Nook, is it? But this is a farmer's ingle, therefore it is quite appropriate.

Ada M.-There are no restriction as to who may join our circle. The fact of taking sufficient interest in the Nook to write to us or take part in any of the competitions announced constitutes membership, so you may consider yourself as duly initiated and thoroughly welcome. So you like pictures. Have you ever seen the "Perry Pictures," copies of all the most famous paintings? They may be procured at the low rate of one cent each, and are very beautiful. They have large sizes at five cents each.

Sadie R.-You have misunderstood rules for this contest-The quotations must be from the works of Canadian authors.

Olive Kidd, in a very kind letter, acknowledges receipt of prize for Memory Gems, and in conclusion says: "My father considers the "Advocate" very essential to successful farming "-an opinion shared by most of the representative men of that calling.

THE HOSTESS.

Ingle Nook Chats, Pakenham, Ont.

(The contributions of A. L. McDiarmid (Class 1.) and Mary Ker (Class II.) to the last "Memory Gem" contest should have appeared in this issue, but lack of space prevented.)

### The Three Little Chairs.

They sat alone by the bright wood fire, The grey-haired dame and the aged sire, Dreaming of days gone by; The tear-drops fell on each aged cheek; They both had thoughts that they could not speak, As each heart uttered a sigh.

For their sad and tearful eyes descried Three little chairs placed side by side, Against the sitting-room wall; Old-fashioned enough as there they stood, Their seats of flag and their frames of wood, With their backs so straight and tall.

Then the sire shook his silvery head, And with trembling voice he gently said-" Mother, those empty chairs ! They bring such sad, sad thoughts to-night, We'll put them forever out of sight In the small dark room up stairs."

But she answered, "Father, no, not yet; For I look at them and I forget That the children went away The boys come back, and our Mary, too, With her apron on of checkered blue, And sit here every day.

- "Johnny still whittles a ship's tall masts, And Willie his leaden bullets casts, While Mary her patchwork sews At evening time three childish prayers Go up to God from those little chairs, So softly that no one knows.
- "Johnny comes back from the billowy deep, Willie wakes from his battle-field sleep To say a good-night to me; Mary's wife and mother no more But a tired child whose play-time is o'er And comes to rest on my knee.
- "So, let them stand there, though empty now, And every time when alone we bow At the Father's throne to pray, We'll ask to meet the children above In our Saviour's home of rest and love, Where no child goeth away."

-Mrs. H. T. Perry.

# Grandma's Silver Hair.

She wears no royal robes of silken splendor. No coronet above her brow so fair, But fitting crown for face so sweet and tender, The shining radiance of her silver hair.

She wields no sceptre, save of love and duty-Our household saint before whose shrine we kneel-But at her touch earth's common things gain beauty, And on her head God sets his shining seal.

Around each silver thread is twined a blessing; Each tiny wrinkle cradles love's embrace; Time's restless hand has traced, with soft caressing Life's holy record on the well-loved face.

O diadem of priceless worth and splendor, Pure emblem of a noble life well spent, With thoughts of thee, in retrospection tender, Our dearest hopes and memories are blent. -Ida Goldsmith Morris.

way,

some

ne to when

have

? But

quite

may

any of

ership,

d and

Have

all the

red at

utiful.

r this

rks of

clusion

very

ced by

ISS.

(Class

'Mem-

n this

speak,

If You Want Choice Re-cleaned

CLOVER AND TIMOTHY SEED

WRITE FOR SAMPLES TO

George Keith, Seed Merchant,

Established 1866.

TORONTO.

Catalogue of Garden, Field and Flower Seeds sent on application.

For Sale: Thoroughbred Jersey heifers and heifer calves, 1 fine yearling Jersey bull and bull calves. One 3-year-old Holstein bull at a bargain.

MCCUAIG & ROBERTSON, Vankleek Hill, Ont.

6, 8, 9 and 12 feet widths. A long way ahead of all other rollers. Do you care to know why Bissell's are Best?



T. E. BISSELL, ELORA, ONT. DEPT. W.



# CAN BE CURED.

Consumption uninterrupted means speedy and certain death. generous offer that is being made by Dr. Slocum, the great lung specialist. Sunshine and hope for stricken families.

Confident of the value of his dis-coveries, he will send free four sample bottles upon application, to any person suffering from throat, chest, lung and pulmonary affections.

To enable despairing sufferers everywhere to obtain speedy help before too late, Dr. Slocum offers

FULL FREE TREATMENT CONSISTING OF FOUR LARGE SAMPLES

to every reader of this paper.
You are invited to test what this system will do for you, if you are sick, by writing for a

FREE TRIAL TREATMENT and the Four Free Preparations will be forwarded you at once, with complete directions for use.

The Slocum System is a positive cure for Consumption, that most insidious disease, and for all Lung Troubles and Disorders, complicated by Loss of Flesh, Coughs, Catarrh, Asthma, Bronchitis and Heart Troubles.

Heart Troubles, Simply write to the T. A. Slocum Chemical Company, Limited, 179 King Street West, Toronto, giving post office and express address, and the free medicine (the Slocum Cure) will be promptly sent.

Persons in Canada seeing Slocum's free offer in American papers will please send for samples to Toronto. Mention this paper.

Mammoth Bronze Turkeys, S. G. Dorkings, Barred Rocks. Best lot of birds we have ever offered.

ALFRED E SHORE, White Oak, Ont.

Settlers' Low Rates West.

Via Chicago and North-Western Ry., every day from Feb. 15th to April 30th. Colonist one-way second-class tickets at extremely low rates from stations in Outario and Quebec to points in Colorado, litah, Montana, Nevada, Idaho, Oregon, Washington and California, also to Victoria, Vancouver, New Westminster, Nelson, Rossland, etc., etc. Full partiowars, rates and folders can be obtainer from B. H. Bennett, General Agent, 2 East King street, Toronto, Ont.

GOSSIP.

Note the advertisement of an extensive unreserved auction sale of 300 head of registered Shropshire sheep, to be held in the City of Brantford, Ont., on Feb. 26th, as announced by the well-known breeders and prizewinning exhibitors, Messrs. D. G. & J. G. Hanmer, whose intention is to hold annual auction sales at the same place. . The present offering includes 100 young breeding ewes in lamb to a Royal winning imported ram, 150 ewe lambs, and 50 ram lambs. This is a rare opportunity to secure superior stock at your own price and on easy terms.

THE ROCKWOOD SHORTHORN SALE. Attention is again called to the advertisement of the dispersion sale, by auction, of Shorthorn cattle and Cotswold sheep belonging to Mrs. Thos. Waters, with a selection of Shorthorns from the herd of Mr. John Sockett, to take place near Rockwood station, G. T. R., and six miles from Guelph, on February 26th. The catalogue includes the pedigrees of 26 head of well-bred registered cattle-cows, heifers and young bulls. The sires appearing in the pedigrees are richly-bred and were well up to a high standard in individual excellence, and have left a good impress on the herds. The females of breeding age have calves at foot or have been bred to the fine imported bull, Merry Hampton, by Lord Hampton, a richly-bred Missie bull.

HARTMAN'S SHORTHORN SALE. On February 24th, as advertised in these columns, the entire herd of richly-bred Shorthorns belonging to Messrs. J. W. Hartman & Sons, Elmhedge, Ont., near Meaford, G. T. R., will be dispersed by auction, owing to a change of business. For many years, Mr. Hartman, Sr., has maintained a strong herd of choice and select Scotch families, on which high-class bulls of the best breeding have been used. The herd comprises representatives of such favorite families as Minas, Mysies, Nonpareils, Miss Ramsdens, Isabellas, Matchlesses, and other useful sorts, including a capital lot of young cows and reifers in calf or with calves at foot, and some of the cows nursing calves again in calf to the grand old champion bull, Abbotsford, now at the head of the herd, of the choice Cruickshank Village family, sire of a long list of first-prize winners at leading shows. Most of the young things are sired by the late stock bull, May Duke, a son of the Cruickshank Clipper bull, Clipper King, bred by Hon. John Dryden, and of the Watt-bred cow, Mildred 4th by Imp. Hospodar. There are three young bulls, 13 months old, by this sire, good enough for herd-There are also a lot of r tered Berkshire sows to be sold, and they are sure to be good one's, as Messrs: Hartman have been breeding from the best herds in Canada. This is certainly one of the best opportunities offered in many years for securing cattle of choice breeding and character. All interested should send for catalogue and attend the sale.

UNRESERVED AUCTION SALE of registered

### SHROPSHIRE SHEEP

It is our intention to hold Public Auction Sales annually on the Agricultural Park, in the City of Brantford.

The undersigned will sell by Public Auction on THURSDAY, FEB. 26th, 1903, At one o'clock,

300 REGISTERED SHROPSHIRES Of the best breeding quality, as follows: 100 breeding ewes, one and two years old, in lamb to Royal winning imported sire and choice Canadian-bred sire; 150 choice ewe lambs and 50 ram lambs (flock headers); one imported ram, weighing 300 lbs., two years old, and two shearling rams. The above is the largest sale of Shropshires ever offered in Canada, and those establishing flocks should not miss this opportunity of securing the very best obtainable.

POSITIVELY NO RESERVE BIDDING. TERMS OF SALE-Eight months' credit on approved joint notes.

on approved joint notes.

W. ALMAS, D. G. & J. G. HANMER,
Auctioneer. o Proprietors.

EGGS FOR HATCHING—White Wyandotte,
dan and Pekin duck, \$1.25 per setting.
C. W. BEAVEN, Pinegrove,
Description



# For FARM HOUSES and FARM IMPLEMENTS

The Best Paints are made by

# The CANADA PAINT COMPANY,

Ask the local dealer for Shade Cards.

CENTRAL ONTARIO

### PURE-BRED STOCK ASSOCIATION

Second Annual Sale, to be held at Webber's Hotel,

CAMPBELLCROFT. Garden Hill Station, Midland Division, G. T. R., on

WEDNESDAY, MARCH 18TH. 1903. At 1.30 p. m. sharp.

W. B. CAMPBELL,

CAMPBELLCROFT.



DRESSED

GIRLS, would you like to have this beautiful dressed doll? If so, send us your name and address on a post card and we will send you one doz. large, beautifully colored packages of Sweet Pea Seeds postpaid. Sell them at 10c. each, return us \$1.20 and we will

immediately send you the most beautiful Doll you have ever **SCCN.** Dolly is fully and fashionably dressed, including a stylish hat, underwear trimmed with lace, stockings and cute little slippers ornamented with silver buckles. She has lovely golden curly hair, pearly teeth, beautiful eyes and jointed body.

Eva Gilley, New Westminster, B.C., said: "I received your pretty Doll and am very much pleased with it. It is a perfect beauty and far exceeded my expectations."

expectations."
Lizzle Sproute, Newdule, Man., said: "I received the Doll and think it is a fine Premium. It is the loveliest Doll I have ever had."
Gertle McDonald, Bonavista Bay, Newfoundland, said: "Thanks very much for my beautiful Doll. I am more than pleased with it."

GIRLS, just stop and think what a truly wonderful bargain we are offering you. You can get this lovely big Doll completely dressed for selling only ONE DOZEN packages of Sweet Pea Seeds. Each package is beautifully decorated in 12 colors and contains 42 of the rarest, prettiest and most fragrant varieties in every imaginable color. They are wonderful sellers. Everybody buys.

Maggie-Sinciair, Sheiburne, Ont. "said: "I soid all the seeds in a few minutes. It is a pleasure to sell them."

Mary Speeles. Mono Mills, Ont., said: "I no sooner opened my parcel than I had all the seed soid. They went like wildfre."

A 50c. certificate free with each package. Girls, write us at once and this beautiful Dolly will be your very own in a short time.

Prize Seed Co., Dept. 567 Toronto

GOSSIP.

also bull calves and heifers in calf, are bred stock to be held on March 18th, offered by Mr. W. W. Ballantyne, Strat- at Campbellcroft, Garden Hill Station, ford, Ont., who has a first-class herd of G. T. R., under the auspices of the up-to-date Ayrshires, bred on producing Central Ontario Pure-bred Stock Associalines, imported and bred from imported tion, of which the secretary is Mr. W. B. stock, and he offers them at "live-and- Campbell, of Campbellcroft, Ont., who let-live " prices.

Attention of stock breeders and farm-Choice Ayrshire bulls fit for service, auction sale of various classes of purewill furnish further information.

neel—

erry.

eauty, ssing

orris.

# Holsteins and Holstein Grades

D. TILLSON ESTATE, LTD., PROPRIETORS OF ANNAY. DALL STOCK FARM, have instructed the undersigned to sell by public auction at ILLSONBURG, on THURSDAY, MARCH 57H. beginning at 11 a m., the following list of pedigre, d and grade animals:

### THOROUGHBRED BULLS.

- Grneral McDonald. No. 1910, Vol. 5.—Sire Colanthus Abbekerk 2nd, No. 1110, Vol. 3; dam Mountain Duchess, No. 738, Vol. 5. Age, 2½ years.
   Iosco's Dr Kol., No. 2216, Vol. 6.—Sire Netherland De Kol Pietertje, No. 23725, Vol. 5; dam Woodland Iosco, No. 39699, Vol. 5. Age 2½ years.
   Colanthus Abbrkkrk 4th, No. 2385, Vol. 6.—Sire Colanthus Abbekerk 2nd; dam Sjut Siepkje Qu. en. Age, 8 months.
   Annandale Colanthus 2vd, No. 2411, Vol. 6.—Sire C lanthus Abbekerk 2nd; dam Mountain Duchess 2nd. Age, 7 mos.
   Dure of Portland, No. 2244, Vol. 5—Sire Count Mink Mercedes; dam Mondamin's Daisy Barrington. Age, 1 year 5 months.
- months months.

  6. Annandale Duke 2vd, No. 2584, Vol. 6—Sire Colanthus Abbekerk 2nd; dam The Annandale Mercedes Queen. Age, 3 months.

  7. Annandale Colanthus 2nd, No. 2585, Vol. 6.—Sire Colanthus Abbekerk 2nd; dam Clarabell Mercedes Queen. Age,
- 2 months.

In addition to the Thoroughbred stock, the following list of exceptionally choice GRADE HOLSTEINS will be offered:

50 COW, 25 of them fresh and balance due to calve dur'ng March, April, May and June, in calf by pedigreed sires. 5 heifers, due to calve in April. 17 yearling heifers. 13 heifers, 3 to 7 months All from Thoroughbred sires

1 Holstein Grade bull, coming 2 years. 1 Holstein Grade bull yearling. 1 Holstein Grade bull. 7 months. 12 steers, coming 2 years. 2 farrow cows.

Any enquiries concerning the above stock will be promptly answered and catalogues

In addition to the Thoroughbred stock, the following list of exceptionally choice GRADE

E. D. TILLSON

# ESTATE,

# Low Rates to California.

Via Chicago, Milwaukee & St. Paul and Union Pacific line. Feb. 15 to April 30, 1903.

Only \$33 Chicago to San Francisco, Los Angeles and many other California points. One-way, second-class, colonist tickets.

Will be glad to send you additional information.

A. J. TAYLOR, Gan. Freight and Pass'r Agt., 8 King Street East, Toronto, Ont.



Invest in a bank that never fails—education. Attend our school if you can, but if you cannot, then take our "Mail Course" in Penmanship, Book keeping, Shorthand, etc. Circulars free. W. J. ELLIOTT, Principal.

~~~~~~~~~

FOR SALE: mos., the other 15 mos. old. D. G. GANTON, ELMVALE, ONT.



# The Canadian Airmotor

will earn more for you in one year than any

other implement.

A Terror to Grind, Cut Straw, Pulp, and Pump Water.

Agents from the Atlantic to the Pacific

ONT. WIND ENGINE & PUMP CO. TORONTO, ONT.

PLEASE MENTION FARMER'S ADVOCATE. twenty miles from Foronto.

### GOSSIP.

When in the vicinity of Markham, Ont., recently, an "Advocate" representative made a call on Mr. Ed. Robinson, importer and breeder of choice Shorthorn cattle, and found his magnificent herd of 50 head in prime condition. Thirty-five head of this lot are imported, and the herd represents such noted Scotch families as Broadhooks, Jilts, Undines, Isabellas, Marr Roan Ladys, Campbell Marys, Orange Blossoms, Kilblean Beautys, Reid's Marys, Marchionesses, Gwynnes and Lovelys, at the head of which is the rare good bull, Imp. Rustic Chief, bred by Alex. Watson, Auchronie, sired by the Queen's Guard. He is a roan, very even, thick, smooth, and with abundance of quality. Among the females are eight imported two-year-old heifers, as follows: Roan Rose by Abbotsford 2nd, Myra 2nd by Lord Harold, Annie by Lovat's Chief, Daisy by Jubilee Star, Dorothy Princess by Proud Star, Jilt 21st by Scottish Prince, Rothnick Rose 4th by Scottish Prince, Betsy by Lovat's Chief. All of these are either in calf or have calves at foot, by such notables as the Marr Missie bull, Conqueror's Crown, and King Victor. Besides these, there are twelve yearling heifers, all imported, as follows: Lettuce by Knight of Strathbogie; Prisca and Pappea, by same sire; Apple Pie, Sally and Sweet Briar, by Ivanhoe; Cherry 2nd and Tulip, by Orton; Beauty 32nd, by Count St. Clair; Primrose 2nd, by Hogarth; and Millstream, by Sweet William. In three-year-olds, imported, there is Love Bird, by Scotland's l'ame. She has a nine-months-old bull calf, by Knight of Strathbogie-an extra nice, thick youngster; Duchess Gwynne 6th. by Baron Lee, has a red yearling heifer by Scottish Prince, and one at foot by King Victor. There is ten-months-old red bull, imported in dam, by Golden Fame, dam Dorothy Princess by Proud Star-an extra good one; also, one white yearling bull, by Imp. Baronet, dam August Lassie 2nd by Indian Sailor. He is also a very good, even type of animal. On the day of our visit, there arrived from quarantine the beautiful model show cow, Mary 15th (imp.), 8 years old, in calf to Nonpareil Duke. Lately, Mr. Robinson has sold two imported cows to Dixon Bros., Luana, Iowa; two imported beifers and one bull to Goodfellow Bros. Macville; one bull, imported in dam, to T. Mercer, Markdale one bull, imported to It. McLennan, Holm field, Man. . one cow and yearling heifer to Walter, James, Rosser, Man.; two cows to E. R. Su'livan, Iowa: and five head to R. Miller, Stouffville, Anything in the herd is for sale. Mr. Robinson's farm lies within the corporate limits of Markhara village, and is only

### THOROUGHBRED COWS.

NAME. NO. VOL. NO. NAMF. 1. Mary Ann 2. Clarabell Mercedes 688 1 7. The Annandale Mercedes Queen 836 2 8. The Annandale Tri-1448 3 2509 1

> HEIFERS. NO. VOL. NO. NAME.

NAME. 12. Princess Dixin De Annandale Beauty 3132 6 2nd 3732 6 3732 6 3779 6

With the exception of some of the older cows, the sire of the above heifers and cows was Colanthus Abbekerk 2nd, No. 1110, Vol. 3, a magnificent bull and splendid stock getter, s anding at the head of the Annaudale herd of the late E D Tilson for several years. The extended pedigree of this bull shows the Annandale herd descended from ancestors well developed along the lines of milk and butter.

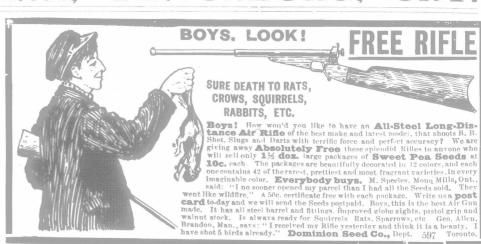
furnished on application. T Isonburg is easy of access, being on the Wabash, Grand Trunk, Michigan Central, and T. L. E. & P. Railways. The Annandale Farm is situated in the corporation, a few minutes' walk from the stations of roads mentioned.

TEMBS.—Eight months' credit will be given on approved joint notes, without interest, 6 per cent. per annum discount allowed for cash. No animal to be removed until settled for. Animals bought and not settled for will be re-sold, the loss (if any) to be paid by the defaulter. Decision of the auctioneer to be final in all cases of dispute.

nimals bought and not settled for will be re-sold, the local section of the auctioneer to be final in all cases of dispute.

L. V. GARNER, Auctioneer.

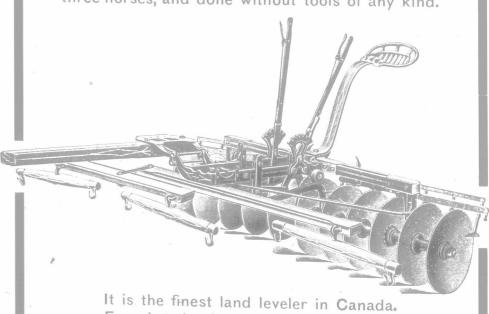
### Ltd., TILSONBURG,



When Spring Opens, You Will Need a

FROST & WOOD

This illustration shows the Windsor arranged for three horses, and done without tools of any kind.



Examine the Agent's sample and

LEAVE YOUR ORDER NOW.



Toronto, Ont. London, Ont.

Head Office and

Smith's Falls, Ont.

BRANCH OFFICES:

Montreal, Que. Quebec, Que. Winnipeg, Man.

St. John, N. B. Truro, N. S.

D 1866

NO. VO1

 $\begin{array}{ccc} 2231 & 4 \\ 2232 & 4 \\ 2507 & 4 \end{array}$ 

25(9)

NO. VOI

e of the No. 1110, Iding at Ison for Dws the Id along

l in the

nterest. tled for. faulter.

neer.

T.

and

Ont.

# Seeds

THAT SUCCEED

THE SEED HOUSE of J. A. SIMMERS has had nearly fifty years' experience with seeds, and the results of this are placed at the service of farmers, gardeners or amateurs in a finely-illustrated catalogue issued FREE. No user of seeds, professional or amateur, can afford to be without the valuable information contained in this catalogue, SEND FOR IT.

# J. A. SIMMERS.

Seeds, Bulbs, Plants,

TORONTO, ONT.

# Desirable Farm FOR SALE:

In Elgin County, Ontario (extreme south of Canada), parts of Lots 23 and 24, 12th Con., Tp. of Aldsborough, near West Lorne Station, M. C. R. (main line between Buffalo and Detroit); also on L. E. & D. R. R.

# 170 ACRES

in good state of cultivation, well fenced, partly tile dramed, good buildings, water before cattle in stables; geared windmill for grinding pumping, etc.; some woods, balance mostly seeded down to grass; grows any kind of grain or fruit grown in Canada; abundance of pure water; church and school convenient; mail twice a day; no ditch tax; outlet on farm for draining. For further particulars address of ALEX. LOVE, Eagle P. O., Ont.

## UNRESERVED AUCTION SALE OF 57 COTSWOLD SHEEP 57

1 shearling ram, 6 ram lambs, 31 breeding ewes—all young, 19 ewe lambs. All registered. At my farm, Lot 1, Con. 1, Burford Tp., half nile west of Faikland, half way between Paris and Princepon Carp. and Princeton, G.T.R., on Governor's Road, on

Wednesday, March 11th, 1903. Sheep sale at 1 p.m. Lunch at noon.

TERMS.—All sums of \$10 and under each: over that amount, 7 months credit on approved security. A discount of 3 per cent. off for cash on all sums entitled to credit.

Persons giving notice to proprietor by mail of intention to attend, will be met at Paris station at 11 o'clock, conveyed to sale and returned in evening. JOSHUA PELIUN, Prop., SCOTT DAVIDSUN, Canning P. O., Auctioneer. Ont.

# THIRD ANNUAL Provincial Auction Sale of Pure-bred Cattle

will be conducted under the auspices of the

Dominion Cattle, Sheep & Swine Breeders' Associations

. AT Guelph, Ont., February 25th, 1903.

SELECTED STOCK—nothing but good representatives of each breed will be allowed to enter and be put up for sale. Orders to buy may be placed with the Secretary, and will be honorably discharged.

REDUCED PASSENGER RATES. SPECIAL RATES TO BUYERS.

For copy of rules, catalogue and full particu-

lars, apply to

A. W. SMITH, Pres., Maple Lodge, Ont.

A. P. WESTERVELT, Secretary, Parliament Buildings, Toronto.

NOTICES.

CORRECT SPRAYING .- The development of the Hardie spray pump business in Canada has necessitated the erection of a factory in Windsor, Ont., where this simple and efficient apparatus for the use of the orchardist will be turned out rapidly and up-to-date. Without a proper spray pump thorough spraying is impossible. The salient features of this pump are referred to in the advertisement of this company, which appears etsewhere in this issue, and in which they offer to send free their book on spray-

THE MILNER PETROLEA WAGON CO, whose advertisement appears in this issue, while not very long established, have already attained prominence on the market, owing to the high-grade wagons they are turning out. Their factory, erected at Petrolea, Ont., in 1902, is certainly one of the most complete of its kind in Canada. Mr. Milner, long and favorably known in connection with the manufacture of wagons, is superintendent. Dealers and agents throughout the Provinces and Territories are handling these wagons, and they are found to be giving excellent satisfaction.

GOSSIP.

GREAT SALE OF DAIRY CATTLE IN SIGHT.

The announcement, in our advertising columns, of the dispersal sale, by auction, on March 5th, of the great Annandale herd of registered Holsteins and Holstein grades, over 100 head all told, belonging to the estate of the late Mr. E. D. Tillson, Tilsonburg, Ont., is one of great interest to farmers, dairymen and breeders throughout the Dominion. Thoughtful readers of the "Farmer's Advocate" will have noted the splendid milk record of the Annandale herd published in these columns from time to time. Under the careful and intelligent supervision of the late Mr. Tillson, who was eminently practical in all his work and planned to make his farm and his cattle pay good dividends, remarkable results were attained in the line of improving, by breeding, selection and feeding, the productive capacity of his cows, until, in the last three years, this large herd of milking cows, numbering over sixty, and including heifers, made the following phe-

nominal record of milk production: 1900-54 cows averaged... 10,933 lbs. 1900—5 best cows aver... 16,852 lbs ... 14,133 "

One of the cows in this herd, a grade Holstein, bred on the farm, produced in 12 months and 15 days 20,132 lbs. milk and 822 lbs. of butter in the year ending April 20th, 1899, and in eight years has produced 101,000 lbs. of milk.

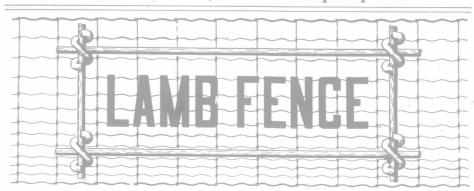
To appreciate the character of this cows, it is only necessary reflect that the average milk production of Canadian dairy cows is less than 4,000 lbs., and that a cow that yields 6,000 lbs. is considered an extra good

There are in the herd, to be sold, 22 head of pure-bred registerd Holsteins, 15 of which are cows and heifers and 7 young bulls, from 3 months to 2½ years

With the exception of some of the older cows, the sire of these, also of the grade cows and heifers, was Colanthus Abbekirk 2nd, No. 1110, Vol. 3, a magnificent bull and splendid stock-getter, whose extended pedigree shows the Annandale herd descended from ancestors uncommonly developed along the lines of milk and butter production. Pedigreed Holstein sires have been used in the herd for over twelve years, and there are in the sale 50 grade Holstein cows. 25 of which are fresh and the balance due to calve in the next three months, besides a grand lot of heifers of various ages. The terms of the sale are easy, the place easy of access, and the occasion is one that should attract dairymen from many districts. Ordinary cows are worth good money now, and it will be economy to buy first-class producers and sell off those that are doing little more than paying their board. One good cow is worth three ordinary ones, and will cost much less to keep. See the advertisement of this sale, and send for catalogue and fuller information.

TO THEOSE with a taste for Japans

CEYLON GREEN tea is delicious. Then it is without paint or adulteration in any form, and of double strength. Sold in the same form as the celebrated "SALADA" blacks, in lead packets only. 25c., 30c., 40c., 50c., and 60c. per pound.



CHEAPEST BECAUSE IT'S BEST.

The H. R. LAMB FENCE CO., Ltd., LONDON, ONT.

# UNRESERVED DISPERSION SALE

I will sell by public auction, at my farm, 5 miles east of Erin, C. P. R., and 6 miles west of Georgetown, G. T. R., on

WEDNESDAY, MARCH 11th, 1903,

18 HEAD OF REGISTERED

consisting of 11 females and 7 bulls, of the very choicest breeding. Foundation of herd got by the great imported bull, Baron Camperdown, followed by Duke of Waterloo, War Eagle, Royal Hero, and the present stock bull, Mysie's Sailor, all of them winners or the get and produce of winners.

W. HULL, Auctioneer, Erin. IRA B. VANNATIER, Ballinafad P. O., Ont. Conveyances will meet forenoon trains at Erin, C. P. R., and Georgetown, G. T. R., and return after sale.

Shorthorn Cattle.

J. W. HARTMAN & SONS, ELMHEDGE, ONT., having rented their farm, will sell by auction, at their farm, 8 miles from Meaford (G. T. R., Collingwood Division), north of Toronto, on FEBRUARY 24th, 1903, their entire herd of registered Scotch and Scotch-topped Shorthorn cattle, headed by the Scottish-bred bull, Abbotsford =19446=, proven to be one of the best stock bulls in Canada, both in the show-ring and fat-stock shows. Females of the Minas, Mysics, Urys, Nonpareuls, Isabellas, Miss Ramsdens, Matchlesses, Strawberrys, and other favorite families. Three bulls, 13 months old, got by May Duke =21048=, good enough to head any herd. Also a lot of registered Berkshire sows.

SALE TO COMMENCE AT 10 O'CLOCK.

Catalogue will be mailed on application.

Lunch provided.

W. J. SHEPHERDSON, . HARTMAN & SONS, Walter's Falls, Auctioneer. Elmhedge.

### LAVAL GUARANTEED CAPACITIES. "HUMMING-BIRD" 250 lbs. whole milk per hour, \$ 65 "DAISY" - - - 350 " 85 "BABY" No. 1, - 450 " 100 "BABY" " 2, -600 " 6.6 125 "BABY" " 3, - 1000 " 44 44 44 46 200 "DAIRY" TURBINE, 1000 " 6.6 There is a big difference between the advertised and actual capacity of the miscellaneous lot of separators sold to-day; but please remember that De Laval capacities are Guaranteed and are enough greater than competing machines to more than offset the apparent difference in first cost. THE DE LAVAL SEPARATOR CO., 77 York St., Toronto. CREAM SEPARATORS





# EWING'S Selected Farm and Garden BBD

are thoroughly reliable and better cannot be found. We mail free our Illustrated Seed Catalogue for 1903 to all sending us their addresses. Our assortment is complete, and includes full lines of Plants, Flowering Bulbs, Shrubs, Tools, etc., besides all varieties of seeds for farm or garden, and Seed Grain.

# WILLIAM EWING &

SEED MERCHANTS,

142 McGILL ST.

MONTREAL.

# Catalogue Printing Our Specialty.

Many of the best Catalogues in Canada are produced by us. Latest type faces, designs, ornaments, and modern machinery.— Best in America. Up-to-date covers designed by special artists without extra charge.

London Printing & Litho. Company, Ltd., LONDON, ONTARIO.

# This Will Interest Many.

F. W. Parkhurst, the Boston publisher, says that it any one afflicted with rleumatism in any form, or neuralgia, will send their address to him at 804-57 Winthrop Blyg, Boston, Mass., he will direct them to a parfect care. The has nothing to sell of the original you how he was cured after your of seath for relief. Hundreds have tested it with success. - Advt.

Prize List Spring Stallion Show.

Class I., section 1.1 -Clydesdale stallions foaled previous to Jan. 1, 1899-1 Graham Bros.' (Claremont) Stately City; 2 Smith & Richardson's (Columbus) King's Cross; 3 Smith & Richardson's Duke of Cornhill; 4 Robert Beith's (Bowmanville) Prince Priam; 5 J. B. Hogate's (Sarnia) Sir Reginald; 6 Smith & Richardson's Laird of Craigie; 7 W. J. Squire's (Mitchell) Sir Oswald; 8 O. Sorby's (Guelph) Pride of Morning; 9 Wm. Colquhoun's (Mitchell) Climax.

Class I., section 1B.-Clydesdale stallions foaled in 1899-1 Smith & Richardson's Pioneer; 2 R. Beith's Peveril; 3 R. Beith's Star of Roses'; 4 Graham Bros.' Border Sentinel; 5 Wm. Colquhoun's Coynachie; 6 H. G. Boag's (Churchill) Primrose Pride; 7 Graham Bros.' Gallant Lorne; 8 J. B. Hogate's Carron Jamie.

Three-year-olds $_4-1$  Graham Bros. (Cairnhill, imp.); 2 Robert Ness (Cecil, imp.); 3 Smith & Richardson (Lavender, imp.); 4 Graham Bros. (Craig Stamp, imp.); 5 O. Sorby (Florist, imp.); 6 Hugh Semple, Harewood, (Silver Prince); 7 T. Swan Smith, Montreal, (Kitchener,

imp.). Two-year-olds.-1 J. B. Hogate (Royal Park, imp.); 2 J. A. Tainer, Calgary, (Glenevis); 3 J. W. Cowie, Markham, (Alexander Macqueen); 4 J. H. Millard, Altona, (Lyon Macqueen).

Canadian-bred Clydesdale and Shire stallions, four years old and over .-1 J. G. Clark, Ottawa, (Wood-roffe Plowboy); 2 Francis Russell, Cedarville, (Lord Aberdeen); 3 Graham Bros. (Merriment 2nd); 4 W. F. Broad, V. S., Lindsay, (Granite Lad); 5 Geo. Isaac, Markham, (Prince Royal); 6 Ed. Hoy, Orchard, (Gordon Anderson); 7 W. J. Wells, Temperanceville (Laird Macqueen). Three-year-old class. - 1 Graham Bros. (Pride of Eastfield); 2 Eaid & Everett, Simcoe, (Lord Donaid); 3 Smith & Richardson (General Gordon); 4 Smith & Richardsan (General Macqueen); 5 Delly Bennett, Russelton, (Perfection); 6 Jas. Gostlin, Lindsay, (Union Boy). Two-year-olds-1 J. W. Cowie (Macqueen 2nd); 2 O. Sorby (Charming Prince); 3 Robt. Davies (Royal Sensation); 4 Geo. Davidson & Sons, Cherrywood, (MacCarra); 5 D. Carstairs, Bomanton, (Prince Pearl); 6 J. G. Clark (Arbitrator Again); 7 W. R. Stewart, Toronto, Lieutenant Junior). Yearlings-1 J. W. Cowie (Macqueen's Best); 2 H. G. Boag, Churchill, (Proud Gordon); 3 Jas. Gostlin, (Simon Macgregor).

Shires, four years old and over.-1 J. J. Anderson, Dominionville, (Flagship); 2 J. B. Hogate (Nateby Monarch 2nd); 3 Morris & Wellington (Geo. Lennox). Three-year-olds-1 Morris & Wellington Statesman); 2 Morris & Wellington (Vulcan 2nd). Two-year-olds-1 and 2 Morris & Wellington (Coronation and General Favorite).

Sweepstakes Clydesdale, Graham Bros. (Stately City); Sweepstakes Shire, Morris & Wellington (Coronation).

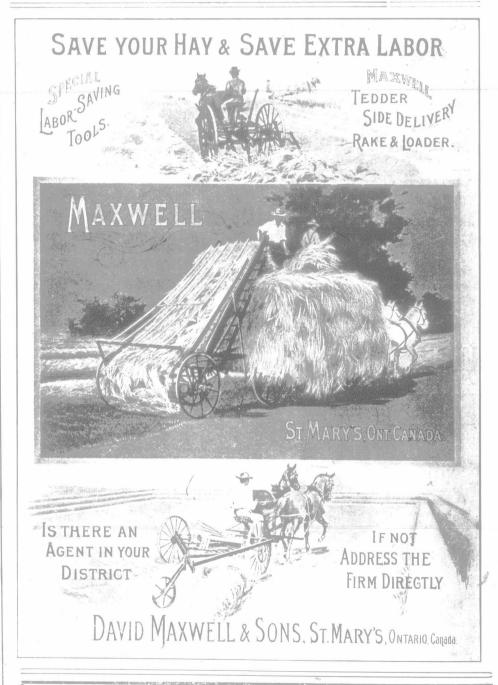
# GOSSIP.

Five young Shorthorn bulls and some females are advertised for sale by J. R. McCallum & Son, Iona Station, Ont., sired by a son of imported Royal Sailor. These should be worth looking after.

Attention is directed to the advertised auction sale of 57 head of registered Cotswold sheep, property of Mr. Joshua Pelton, Canning, Ont., near Paris, G. T. R., to take place on March 11th.

Mr. John B. Pettit, Fruitland, Ont., breeder of high-class pure-bred poultry, writes that in his efforts to build up heavy-laying strains of the breeds he handles, he is meeting with success, and finds that careful breeding with that aim in view brings satisfactory results, and he can furnish birds and eggs from birds that are the result of years of careful mating and breeding, and have won many prizes at the largest poultry exhibitions in America. At present he has a few splendid cockerels in S. C. B. Legherns, S. C. B. Minoccas, Barred and White Plymouth Rocks and White Wyandottes to dispose of, and his endeavor is to deal honestly and give his patrons satisfaction and good value. His motto is "Quality before Quantity." -





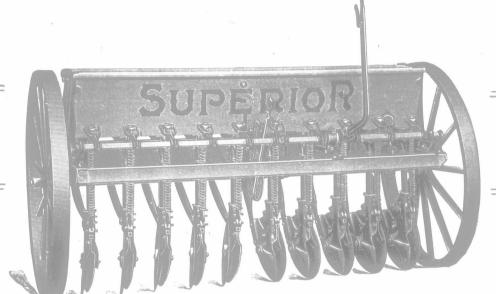
YOU FEED 4 COWS OF ENSILAGE at same 3 on other cost as 3 Rations. 25 to 40 per cent. saved feeding good sweet ensilage. We furnish you STAVES, one piece, 25 to 40 per cent, saved feeding good sweet ensilage. We furnish you STAVES, one piece, full depth of Silo. Our FREE book, "Silos and Silage," has full details, and much of interest to your purse. WILLIAMS MFG. CO., Kalamazoo, Mich.

bas

other ions.
piece,
l much

Mich.

# SUPERIOR DISC DRILLS



SUPERIOR

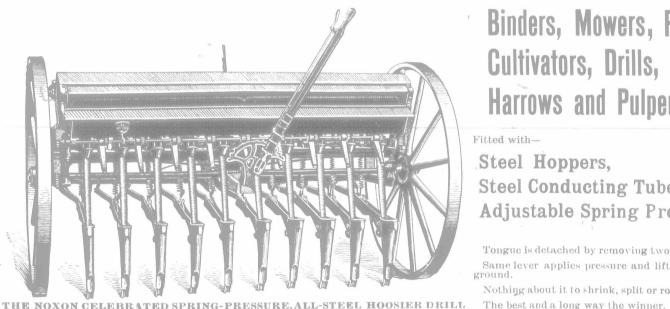
SALE

THE above illustration shows the SUPERIOR SINGLE DISC DRILL. It is an interchangeable Drill. It can be supplied with Double Discs or Shoes, as purchaser may desire. To change from one style to another it is only necessary to remove draw-bars and discs. The bars bolt to fromt of frame. SUPERIOR DRILLS are made of the best material. They are strong and durable. They save seed, time, worry and repair bills. They do more work with less labor to both man and team than any other drill. SUPERIOR DRILLS successfully sow all kindsof grain, under any condition of seeding, in every section of the grain-growing world.

WRITE FOR FREE CATALOGUE AND INFORMATION TO

SUPERIOR DRILL CO., MCKINNON BLDG., TORONTO.

# The NOXON CO., Ltd., INGERSOLL, CANADA



Binders, Mowers, Rakes, Cultivators, Drills, Harrows and Pulpers.

Fitted with-

Steel Hoppers. Steel Conducting Tubes. Adjustable Spring Pressure.

Tongue is detached by removing two bo Same lever applies pressure and lifts hoes from

Nothing about it to shrink, split or rot.

The NOXON CO., Limited, INGERSOLL, CANADA.

"The Pioneer Seed House of Canada." ESTABLISHED 1850.

Our beautifully-illustrated, up-to-date catalogue of "Everything valuable in Vegetable, Flower and Farm Seeds" is now ready, and will be mailed free to all applicants. SEND FOR IT.

In QUALITY our stocks are "Second to None," and PHICES will compare favorably with those of any other reliable house in America.

Special offer: "Bruce's Empire Asters."

1 pkt. each, separate, of 6 of the best varieties, all colors. Retail value, 60c.; postpaid for 25c.

NHOL A. BRUCE & CO., HAMILTON, CAN.

UNRESERVED AUCTION SALE

Having sold my farm, I will sell by auction at my farm, two miles west of Rockwood (G. T. R.) Station and six miles from Guelph, on February 26th, 1903, my entire herd of

24 Head of Registered Scotch-topped Shorthorn Cattle, and flock of 18 Registered Cotswold Sheep, together with a selection of Shorthorns from the herd of Mr. John Sockett. Catalogues on application to

THOS. INGRAM, Auctioneer, MRS. THOS. WATERS, or JOHN SOCKETT, Guelph. Rockwood, Out.

H-T-T. Published monthly, 52 pages. Tells all about Hunting, Trapping and Raw Furs Sample copy, 10c. Hunter-Trader-Trapper, Box G. Gallipolis Ohio.

WANTED: Man to work on farm near St. Cathariner. Young married man preferred. Apply to G. B. McCALL. Guelph.

Our Priced CATALOGUE

is our agent for Reliable nursers stock, in verity. Direct deal will give you satisfaction. We can plusse out mers at all times.

A. G. HULL & SON,
St. CATHARINES, - ONTARIO.

FOR SALE: Pure - bred Rough - coated Collies, from prizewinning stock; dark and light colors; male and female. J. D. RODDICK, Cobourg, Ont.

NEW OATS TARTAR KING 1901, 8 lbs. sown broadcast yielded 20 bus, 8 lbs. 1902, 7 pecks sown per acre gave average per acre of 75 bushels. A strong-strawed, yellow oat, with all-rund close-clustered head of fine, plump grain. So far it has proved a very satisfactory new variety. Prices: per bus., 75°, or lot of 5 bus. or more, 60c. per bus. Good cotton bags, 20°, ODHN CAMPBELL, Fairview Farm, Woodville, Ont.

JOHN CAMPBELL, Fairview Farm, Woodville, Ont.

BOYS. 1.950 Founta'n Pens given away to help FRFE! us introduce BLUINE, the best laundry blue made. Only one day's time required. Write quick. O. COBER, Hespeler, Olt.

# PICTURES ON CREDIT





A DOCTOR IN YOUR HOME



is yours, \$2.85 is a special price for a short time. Write at once. Terry Watch Co., Dept. 551 Toronto.

# MAGIC STEREOSCOPE FREE



BOYS and GIRLS!
Here is something new.
Nothing less than a Magic
Laniera that works without
alight, A I you have to do
to see the views is to look
through the lens, when a
beautiful seeme will spread
out before you, revealing all
the de leate effects of color
foundin real it. Ing seenery.
With each Stereoscope we
send an assortment of view.

you and your friends endless amusement. We give this splendld Stereoscope free for selling only 6 large packages of Sweet Pe v Seeds, at 10c, each. The packages are beautifully decorated in 12 colors, and each one contains 42 of the rarest, prettiest and most fragant varieties, in every imaginable color. Everybody buys. A 50c, certillents free with each package M, So eles, Mono Mills, Ont., said: "I no soomer opened my pracel than I had all the Seeds sold. They went like wildfree." Write us a Post Card tooks and us will sould be Sooks nostnut. THE PRIZE



forward immediately ho'h the Lautern and Engine. THE PEN CO., Dept 582 TOROXTO, Ont.

### "RAPID-EASY" GRINDERS



DIFFERENT SIZES, adapted to all styles of POWER and to EVERY PURPOSE, CUSTOMERS say they do MURE WORK with SAME POWER than any other Grinder, and plates last longest, therefore CHEAPEST.

'I sold the Grinder to three brothers. It is working well and they are HIGHLY PLEASED with it."

A. J. BRADLEY, Belwood, Ont.

"Please and us by exercess 2 sets 12-inch plates for No. 3 'Rapid-Easy' Grinder. Customer is MORE THAN PLEASED with the Grinder." T.J. TRAPP & CO., Ltd., New Westminster, B.C.

"The No. 2 'Rapid-Easy' Grinder which I purchased from your agent, A. Gillham, has given me entire satisfaction. It runs very easy. I can grind fast and do good work'in all kinds of grain. It is no trouble to grind hard barley and make a splentid job job of it. I have ground oats at the rate of one bushel per minute, running with a horse-power and 2 span of horses. I do better work with my Grinder than others in this locality do with stones. I would recommend the 'Rapid-Easy' to any intending purchaser. I may add that the plates that you supply are very good indeed. I have not used up the first set yet, and I have done a lot of work." NOAH HOILES, Maple, Ont.

SOLD IN ALL PROVINCES.

Lithograph hanger and information on application to: The Fairchild Co., Winnipeg, Man.; The T. J. Trapp Co., New Westminster, B. C.; W. R. Megaw, Vernon, B. C.; A. A. Johnston, 212 St. Paul St., Montreal, Que.; P. T. Legare, Quebec, Que.; J. Clark & Son, Fredericton, N.B.; The Lounsbury Co., Newcastle, N. B.; W. F. Dibblee & Son, Woodstock, N. B.; Bligh & Prince, Truro, N. S.; Illsley & Harvey, Pt. Williams, N. S.; A. Horne & Co., Charlottetown, P. E. I.; J. M. Clark, Summerside, P. E. I., or

J. FLEURY'S SONS, Aurora, Ont., Can. Write to-day. Medals-World's Fairs, Chicago and Paris, Write to-day.

# HERSEE & BICKELL Reliable See

Are popular everywhere. They have made friends far and near. Every farmer, gardener and florist wants the best seeds that grow. Last year we were busy night and day filling the vast number of orders entrusted to us, and at this early date this season we are again busy filling orders and receiving large numbers of inquiries for our Seeds. Every reader of the "Advocate" gets Free Sample of Seeds and our Reliable Seed Annual for asking. Send

# NEW SCOTCH WHITE OATS. Bush., \$1; 5 bush., \$4,50.

This new oat has made many friends the past two years, making the grower money. This we are glad to know, yielding 65 to 100 bushels per acre. Grain beautiful in color, thin hull, kernel long and plump, straw fine and not coarse, no sign of rust, and stands up well. We have had already many inquiries and orders for these oats, and we trust every farmer will sow an acre or two to see just what they will do.

Grass Peas (re-cleaned), bush., \$1. Wild Goose Wheat (re-cleaned), bush., \$1 20.

Speltz. 50 lbs., \$1.25. Low prices in quantity.

We also give 40 pkts. of seeds for \$1, or 20 pkts. for 59c.—your selection from our Seed Annual, which is Free. Address:

# Seed Merchants Woodstock, Uni. HERSEE & BICKELL, Seed Merchants and Growers,

"I would not turn my hand to choose between the five leading American Incubators. They are all hot-air machines, identical in construction. There is nothing new in Incubators."—THE VIEWS OF AN EXPERT POULTRYMAN.

# Chatham Incubator

Its makers, THE M. CAMPBELL FANNING MILL CO. OF CHATHAM, LIMITED, believe that a high-grade Canadian Incuba or is in urgent demand. We believe that Incubators are beyond the experimental stage, and their construction an exact science

We have, therefore, Adopted the best material.

Employed the best workmanship.

Added the best finish.

Equipped with the best instruments.

We make three sizes - all hot-air machines, viz.:

Size A-5-dozen egg capacity. Size B-10-dozen-egg capacity. Size C-20-dozen-egg capacity.

All are of similar construction and equipment; built of bone-dry maple and basswood; insulated with mineral wool; regulator and heater guaranteed. We build the

### Chatham Fanning Famous Mill

and have a reputation at stake. Our guarantee is simple, sure, absolute.
Our prices are right. We pay the freight. We save you the 25 duty. Write for catalogues, prices and order blanks. Agents wanted.

# The M. CAMPBELL FANNING MILL CO. OF CHATHAM, Ltd.

DETROIT, MICH.

CHATHAM, ONT.



Mention Farmer's Advocate,

end today for valuable book, "Hints on Shearing." It is tree and will save you more CH:CAGO FLEXIBLE SHAFT CO., 209 Outario St., CHICAGO

### GOSSIP.

W. C. Shearer, Bright, Ont., orders a change in his advertisement offering a number of Barred Plymouth Rock cockerels, that, he says, for good breeding and individual excellence cannot be surpassed This is an excellent opportunity for farmers' sons and daughters to secure the nucleus of a very popular and profitable breed of poultry. Give the boys and girls something of their own, it will cultivate in them a larger liking for the farm.

Messrs. D. Milne & Son, Ethel, Ont., write: "Our Shorthorns are doing well. Our sales for the last month have been: one bull to Gavin Kirkwood, Chesley, Ont.; one cow to Joseph Engler, Henfryn, Ont.; one bull to Thomas Stevenson, Ethel, Out.; one bull to Thomas Dickson, Atwood, Ont.; and one bull to A. W. R. Burdon, Middlemiss, Ont.; and we have added to our herd the grand young imported cow, Bertha 5th, bred by J. & A. Milne, Cairn Hill, Scotland. She is due to calve March 22nd, to Sir James (82334), who was got by the Miss Ramsden bull, Lord Lyndoch (74900), bred by Jas. Durno, the breeder of the \$10,000 bull, Choice Goods, and out of Lady Douglas, by Lord Douglas

FREE ADVICE TO STOCKMEN.

An Eminent Veterinarian Offers His Services Free of All Charge During February to Readers of this Pap'r.

NY reader of this paper may now have-free-consulta tion, advice and prescription for any animal from the caninent veterinary surgeon, Dr. Hess He is a graduate

of famous American medical and veterinary colleges, and these institutions of learning and the profession generally recognize his written works as authoritative and his preparations for cattle, horses, sheep and hogs as standard remedies.

No matter how much money you may be willing to pay a veterinary, you could not get better service than Dr. Hess will give absolutely free during February. But this offer is good only for this month.

If you have an animal that is ailing from disease or injury, write at once. The only conditions are that you send a two-cent stamp for reply, and state what stock you own, what stock food you have fed, and mention this paper. Addirace Dr. Hove & Claub

Ohio, U. S. A. This offer is intended to cover specific cases-to demonstrate Dr. Hess' ability. It is not an offer of general advice on the training and care of stock.

While you are waiting Dr. Hess' reply it would be well to get a package of Dr. Hess' Stock Food (100 lbs., \$5.00; smaller packages a little higher proportionately) and begin conditioning all your stock. It is a scientific preparation that nourishes the vital organs of an animal, and gives to all foods the elements of strength and vitality they may lack-producing perfect condition, vigorous health greater weight A wonderful tonic, a marvellous invigorant a positive weight producer.

The use of this wonderful tonic and remedy is so simple that anyone may employ it without further direction than is shown on the wrapper. But if any study of the diseases of stock and poultry, he can get a copy of the comprehensive Dr. Hess' Stock Book free of all cost by mentioning this paper, stating what stock he has, what stock food he has fed, and addressing by liess & Clark, Ashland, Ohio, U. S. A. This is

With the aid of the Dr. Mess Stock Book

GIRLS I we trust you. We don't want one cent of your money. We want to make you a present of this big, beautifully dressed pretty Sleeping Doll. Dollie has long golden curls, moving bisque head, arms and legs and lovel blue eyes that shut and open, go to sleep and wake up, like a



real live baby. Her hat is trimmed in the latest style and her dress is made of the richest material, cut in the latest fashion and elegantly trimmed with lace and velvet. She has shoes, stockings and lace-trimmed underswear, and can be dressed and undressed as often as you like. Gir's, this doll is a charming beauty and prettier than you can possibly imacine. Lizzie Spreat New ale, Man., said: "Irreceived the Doll today. It is the prettiest Doll I have ever seen." Remember, you can get her free. All we ask of you is to sell only 15 of our large beautifully colored packages of Sweet Pea Seeds at 10c. each. A 50c. Certificate free with each package. Gertrude Reid, Seaforth, Out, savs: "I received my box at 3 o clock and at half-past all the packages were sold. They went very fast." Write a **Post Card** to-day and we will send the Seeds-postpail. **Prize Seed Co.**, Dept. 526 Toronto



14K. GOLD FREE What is the use of spending \$25.00 or \$50.00 for a Watch when you can get one for nothing that looks like a Solid Gold Watch and keeps

Solid Gold Watch and keeps time equal to any \$50.00 Watch, Here is your chance, We will give this handsome reliable Watch to any person who will sell for us only 16 Tanndian Home Cook Books at 15c. each. These Books are nicely printed, leantfully bound and each contains 739 choice recipes. Every Lady each contains 739 choice recipes. Every Lady buys one. A 50c. certificate free with each Book, This is not a cheap pocket clock, but a handsome Watch, finished beautiful a contained and the contained on the con

Post Card to day and we will Home Specialty Co., Dept. 521 Toronto. Ont.



, Ont., says: "My watch is worth ten times what it der to-day. **Johnston & Co.**, Dept 552 Toronto.



GIRLS! TAKE ME I AM FREE





ION SEED CO., DEPT. 588 TORONTO

EE

eds post promto.

6 large packa; es ceds to h. When d we will net part id Gold dee large show all rainbow, agly handst be told en by an a **post** we will postpaid, crie, N.S., the seeds



These books are nicely printed, reaching are hearth con ain; 739 choice recipes, They are he sellers. Every lady buys one. Forence Ascellers. SPECIALTY CO., DEPT. 556 Toronto.



# BEAVER CLOTH CAPE FREE



# FRUIT FREE





with one leading. DEATH TO CATS, Rats, Crows and Squirr. is. Boys, Boys, Boys, a Magazi. a Rifle ee, the best make, the late t model, the st. ongest, straightest heoting Air Rifle made to-ay. It has globe sights, steel barrel an tungs, pistol grip and sprendid walnut stock. All parts inte hangeable. Magazine haids you Shats. We have placed a large good. THE DOMINION SEED CO., Toronto, Ontario.

# A beautiful Gold-finished Watch, handsomely engraved (Ladies' or Gentlemen's size), will be

given to everyone who correctly answers the following puzzle: R - A

have only a limited number of these valuable Watches on hand. Address—THE ENTERPRISE CO., DEPT. 533 TORONTO, ONTARIO.









instructor and 16 selections, given for selling at 15c. each only 10 Cana-dian Home Cook Books. These Books were never before sold for less than 25c. They are nicely printed, beautifully bound and each contains 739 choice recipe. Every wo-man burs one. With each book we give a 50c certificate tree, H. Fitch, Niagara Falls South, Out., says: "The

Write us to-day. Home Specialty Co. Dept. 580 Toronto

FREE LANTERN AND with brass boiler and steam chest, steel piston rod and fly wheel, and Russian iron burner compartment, given for selling only 1 doz. large packages of Sweet Pea Seeds at 10c. each. The packages are beautifully decorated in 12 colors, and each one contains 42 of the rarest, pretriest and most fragrant varieties, of every imaginable co or You can sell 3 and 4 packages in every house. A 50c, certificate free with each package

in every house. A 50c certificate free with each package.
Write us a post card to day and we will forward immediately both the Lantern and Farture. The DOMINION SEED CO., DEPT. 582 TORONTO, ONT.



We give this beautiful Pearl-Handled, Four-Bladed Knife of best quality highly tempered steel, burni hed bolsters and brass lining, for selling only 6 packages of Sweet Peas Seeds at 10c. each. The packages are beautifully decorated in 12 colors and each one contains 22 of the rarest, prettiest and most fragrant varieties in every imaginable color. Everybody buys. Roy Lupply, Roseword, Man., said: "I sold the S-eds in a ew minutes. They went like wild re." A 50c. Certificate free with each Package. Write us a Post Gard to-day and we will send you the Seeds postpaid. Raymond Pelly, Hol and, Man., says: "My Kni e is just beautiful, and is a mest excellent Premium for the little work I did." The Dominion Seed Go., Dept. 595 Toronto.



with each package. the famous Columbi ris. With it we ser accking Bird." Imitations of Robins, Tree Touds, Turkeys, Dickens, Ostriches, etc., and Cornet Solo, "Dixle Land" Vrite us a post exreft to-day and we willisend the Seeds post-ald. M. Payne, Brimston's Corners, Ont., says: "I think my traphophone is a splendid premium for se little world." Dominion Secd Co., Dept. 598 Toronto, Ont





FREE ENAMELLED

A fole. Certificate free with each package. While as a Gardt shay and we will mail the Peckages postbaid, delay. Wm, Frankoski, Shoal Lake, Min. says: "I red the Watch and am more than delighted with it. It is a spitch with a sharp sh

s most wonderful invention free to you. Aston bar, ain. A senuine Grapho hone made by the ded Columbia Graphophone Co., of New York an habig est firm of this kind in the world; also have has Animal In ations

Gracie Brown, Ch. verie. N.S., said: "I sold all the Seeds in a few minutes." THE DOMINION SEED CO., DEPT. 592 TORONTO, ONTARIO.

FIRE OPAL FREE

This handsome ring, beautifully fluished in 14k gold, set with a magnificent rire Opal Solitaire, which shimmers with all the varied and delicate cole so of the rainbow, always ahowing a flaming flery red spot glowing in its centre; whence the name-fire Opal. We give this splendid Ring absolutely free for selling 4 of our 25c, Cook Books at 15c, cach. They are splendid sellers. Every lady buys one. Laura Barry, Blackville, N.B., said: "Your Cook Books went like hot cakes. Everyone was pleased with them." Write us a said: "Your Cook Books went like hot cakes. Everyone was pleased with them." Write us and this beautiful Fire Opal Ring will be yours in a short time, Lydia Smith, Neeum Teuch, N.S., says: "I am delichted with my Ring. It is an excellent Premium and looks fully worth

ng. It is an excellent Premium and looks fully worth
The Home Specialty Co., Dept. 558 Toronto

3.69 cash, but as the season is advancing and we have only a limited number left, we have decided to present one to every lady who will vell for us only 16 25c. Cook Books at 15c. cach. Every House keeper buys one. A 50c. certificate free with each book. Mrs. Canning Montague, U.S., said: "I had great success selling your could not huy this Cape in any store for less than 55.00 cash. Do not delay if you wish to the sed-aurage of this grand chance. The HOME SPECIALTY CO., DEPT. 5 7 TORON'10.



One large Fruit Bowl and 12 dainty Fruit Dishes, all hand decorated with beautiful sprays of Violets, Lities of the Valley and deli ate leaves, in lovely natural colors. Each dish

in pink and gold, very rich. This handsome set could not be borght in any store for less than \$2.50. It has that ringing tone found only in the best of china. It will set off your table better than anything you have ever owned, and will not cost you one cent. Simply send us your name and address on a Post card and we will mail you I doz. 25c. Cook Books to sell for us at 15c. each. When sold return \$1:80 and we will mail you I doz. 28c. took Books to sell for us at 15c. each. When sold return \$1:80 and we will immediately forward this cleant Set. Laura Barry, Rackville, N.E., said: "Your Cook Books went like hot cakes. Everyone was pleased with them." A 50c. certificate free with each Book. Wile us today You will never get another chance like this. The Home Specialty Co., Dept. 522 Toronto.

ENAMELLED LADY'S WATCH FREE
for selling at 10c. each only 2
doz. Lemon, Vanilla and Almond Von-a'coholic Flavoring and is or better. Used by the leading materiary hotels, and restaurants.



Some watchmakers harp on Railroad Watches. More than twenty

# Elgin Watches

have been sold for every mile of railway trackage in the world. Sold by every jeweler in the land; guaranteed by the world's greatest watch works.

> ELGIN NATIONAL WATCH CO. ELGIN, ILLIMOIS.

### GOSSIP.

A very desirable farm is offered for sale in the advertisement of Mr. Alex. Love, Eagle P. O., Elgin Co., Southern Ontario. Owing to the death of his wife. Mr. Love has disposed of his herd of Shorthorn cattle, and purposes retiring from farming. The location is an ideal one, where corn and fruit of all kinds grow to perfection, as well as all farm crops. The land, as a result of feeding cattle on the farm for many years, is in good heart, and the buildings are good and convenient.

Three and a half miles from Perth station, on the C. P. R., is the farm of Mr. R. E. White, preeder of Shorthorn cattle. The stock bull is Waterloo Lad 31071, bred by J. M. Gardhouse, sired by Imp. Prime Minister, dam Waterloo Daisy 28273 by Imp. Guardsman. He is a dark red, three years old, a very even, straight-lined bull, thick, and a good handler, and is leaving his stock right. Duchess of Lanark is a big, fine cow, four years old, also bred by Gardhouse, sired by Imp. Scottish Pride, dam Gipsy Maid 23604 by Earl of Aberdeen 3rd, grandam Roan Duchess 48th by Imp. Ingram's Chief. Lily Gordon 31090 is an extra nice red cow, sired by Sir James 21328, dam Lily of Balsam 2nd by Imp. Julius Cæsar. She was bred by Arthur Johnston, and is now suckling an extra good three-months-old roan heifer calf by Strathmore 26997, by the great bull, Abbotsford; dam White Rose of Strathallan 2nd by Imp. Vice Consul. Mr. White is offering any or all of these animals for sale. They are built right and are bred right, and are guaranteed breeders, and will be sold well worth the money. White, to Perth P. O., Ont.

Thornhill Stock Farm lies one and a half miles from Millbrook station, G. T. R., and is the property of Messrs. Redmond Bros., the well-known breeders of thick-fleshed, high-class Shorthorns. Their herd at present numbers 24 head, nearly all of them belonging to the grand old thick, evenly-fleshed Marigold family, with the blood of Challenge and Barmpton Hero strongly infused, and, practically all of them sired by Imp. Prime Minister, Imp. Royal Member and Sailor Champion, a rare good son of Imp. Royal Sailor. Sailor Champion is the sire of that model young bull, Lord Chesterfield, that won first as a yearling and junior sweepstakes at Toronto last fall, and this is the berd that produced him, and be it known that Lord Chesterfield is a representative of the kind of animals bred by Redmond Bros. At present, there is a five-months-old red bull calf, sired by Imp. Royal Member, and out of one of the choice cows, that is the making of a cracker. There are also an exceptionally thick, even pair of yearling roan heifers, and a few younger heifers, any of which are for sale. During the last year, this firm's sales have been both extensive and satisfactory. animals going as far as Texas and to different parts of Canada. Lately, they sold to Mr. Geo Gies of Grand Valley. the noted old stock-gover. Imp. Royal Member, who did grand service for Messrs. Redmond Bros. The bulk of their cowe are now in calf to him.

7 HOLSTEIN BULLS FOR SALE.

Five yearling bulls, sired by a grantson of De Kol 2nd; 1 bull, rising 2 years old, and 1 aged bull, Korndyke Queen De Kol's Butter Boy, of Korndyke and De Kol breeding. JAS. A. CASKEY, Madoc, Ont.

# Valuable Residential Farm Property

FOR SALE.

186 acres on bay shore adjoining Owen Sound. 186 acres on bay shore adjoining Owen Sound. The buildings, ornamental grounds, 150 acres of the land, 30 acres of hardwood, 5 acres of mixed fruit, water supply, fencing, underdraining and location on deep-water front cannot be excelled in Ontario. As Owen Sound is making rapid strides towards a city, this property is rapidly enhancing in value. It will be sold this spring. Terms.—One-half cash; balance to suit purchaser. For further particulars apply to W.M. MURRISON, Royston Park, Owen Sound, Ont.

### GOSSIP.

Two miles from Lyn station and four miles from Brockville, on the main line of the G. T. R., lies the farm of Brown Bros., the well-known breeders of Holstein cattle, whose herd at the present time numbers about 38 head, including such notable cows as Jessie Veeman, whose butter record is 26 lbs. 4 ozs. in 7 days; Lorena Diamond Netherland, butter record 17 lbs. in 7 days, Tidy Abbekirk De Kol, 13 lbs. 12 ozs. in 7 days, as a three-year-old, after milking four months; Lady Waldorf De Kol, milk record 12,000 lbs. in nine months. Lady Aakron's Pietertje Josephine also gave 12,000 lbs. in nine months, and is now giving 60 lbs. a day; Pietertje Wietske, 2,000 lbs. in 30 days; Mondamin Daisy's Pearl, 1,903 lbs. in 30 days; and many others equally as good. A number of the younger females of the herd were sired by Lady Waldorf's De Kol, whose dam's butter record is 20 lbs. 2 ozs. in 7 days. The present stock bull is Emperor Joseph by Colanthus Abbekirk's Sir Oliver, dam Empress Josephine of Brookside, whose milk record is 14,700 lbs. in ten months. He is a massive, typically-formed animal, and a prizewinner many times over. His lieutenant in service is the richly-bred youngster, Sir Ybma De Kol Hengerveld by De Kol's Butter Boy 3rd, dam. Ybma 3rd's Pledge, whose two-year-old butter record is 15 lbs. in 7 days. Brown Bros. are now offering for sale seven young bulls, out of the above cows, and sired by the stock bull; about 14 one, two and three year old heifers, and several heifer calves-an exceptionally choice lot. Write Brown Bros., to Lyn P. O., Ont.



Supplies for the Factory or Farm Dairy.

Illustrated circulars and catalogues FREE for the asking.



Whey Pump.

# Send for Illustrated Price List.

HEADLIGHT LANCE-TOOTH CROSSCUT SAW is four gauges thinner in the front than the back; is one of the fastest crosscut saws made. Every saw fully guaranteed. Only 50c. per foot.

COMBINATION COBBLER'S, TINSMITH'S and harnesswaker's outfit should be in the possession of everyone, Will save its cost over and over again. Only \$1.85 each.





HOLLOW GROUND RAZOR, fully guaranteed. The best in the market. Only \$1.00, postpaid. FOUR-PRONG MA-

50.511 Aut -

NURE FORK, the best. Usually sold for 65c. Our price, only 40c. each, while they last. FARM BELLS, S1.75,

\$2.25, \$3.00 and \$4.00 each. CHURCH BELLS from \$12.00 to \$60.00 each

層 om?

WILKINS & CO. 166-168 KING ST., E., TORONTO, ONT.

SLIDING —ADJUSTABLE (Patented Can. & U.S., The only nest in the World which positively prevents hens from eating their eggs. Simple—Effective—Durable No springs — Eggs
cannot break. The inclined nest gathers them
safely in lower section. Prevents fleas, or parasites, etc. Everlasting, never failing, comfort-Thousands now in use, for it or write to L. P. MORIN & SON, Mfrs.,
K. Antoine St., St. Hyacinthe, Que.
Price 45c. each. Shipped only in crates of 5.

"VIGILANT" NEST

# SHOEMAKER'S

C. C. SHOEMAKER, Box 608 Freeport, III., U. S. A.

# **Doultry Paper Free** Your name and address on a postal card mailed to Reliable Poultry Journal, Box V, Quincy, Illinois, will bring you a free sample copy of the biggest and best Poultry Journal published. Over one hundred pages. \$500 CASH PRIZES—Everybody gets paid—Write for full particulars. A Big Thing For Subscription Agents.



# Don't Pay Double. We'll sell you a better hatcher

SURE HATCH INCUBATOR CO., Clay Center, Neb. or Columbus, Ohio.

Incubators Daniels



Are the latest and most modern invention for artificial hatching of turkeys, hatching of turkeys, chickens and ducks. Do not forget, we guarantee the Dan-iels incubators to be satisfactory to the purchaser. Our brooders are per-fect; at least our customers say so.

o customers say so. We carry a full line of poultry supplies. Our new catalogue is out, and is free for the asking. G. J. DANIELS, 196 to 200 TORONTO.

CHICKENS DUCKS TURKEYS GEESE

Empty crates forwarded on application.

Highest market prices paid. Correspondence solicited. o

Toronto Poultry and Produce Co. OFFICE: 740 YONGE ST., TORONTO.

EGGS FOR HATCHING Barred Rocks (exclusively). From two pens headed by two imported cockerels bred from a \$75 trio of A. C. Hawkin's Royal Blue strain; \$1.00 per setting of 13. A. E. SHERRINGTON,
0 Box 100. Walkerton.

Barred Rocks and Pekin Ducks. We offer special bargains in young stock, from our hoice strains, for 30 days. Send for FREE ILLUS-

# TRATED CIRCULAR. H. GEE & SONS, FISHERVILLE, ONT.

THE

### SAFETY are the most perfect hatchers on the market Fully guaranteed. Built to last a lifetime. Write for circular to om

J. E. Meyer. - Gourock, STAR GUELPH. (Instead of Kessuth.)

Sale: 100 Mammoth Bronze Turkeys sired by 43-lb, imported tom. Also a choice lot of White Wyandottes and Black Minorcas. R. G. ROSE, Glanworth, Ont.

COCKERELS S. C. B. Leghorns, S. and R. C. B. Minorcas, B. and W. Plymouth Rocks and W. Wyandottes, Choicest "utility" and "fancy" strains. Write for circular. Eggs in season, JOHN B. PETTIT. Fruitland, Ont.

# Plymouth Rock COCKERELS.

A selected number of very choice cocketels of the National strain, bred from a pen of Rock hens noted for their large size, perfect color, and persistent laying of good large essential W. C. SHEARER, Bright, Out.

D 1866

BOOK

908. Over paper, with e. Tells how

I., U. S. A.

ree

stalcard

nal, Box a free Poultry

ed pages.

**\gents.** 

ouble.

ATOR CO. umbus, Ohio

ors

latest and

ern inven artificial of turkeys,

and ducks

orget, we the Danators to be ry to the ser. Our are perleast our

s say so. lies. Our he asking.

RONTO.

warded on

ices paid. licited. o

uce Co.

HING

two pens d from a \$75 a; \$1.00 per SINGTON,

Ducks.

ck, from our EE ILLUS-

LE, ONT.

RONTO.

THE MOST NUTRITIOUS.

An admirable food, with all its natural qualities intact, fitted to build up and maintain robust health, and to resist winter's extreme cold. Sold in 1 lb. tins, labelled JAMES EPPS & Co., Ld., Homœopathic Chemists, London, England.



D. Hill, Evergreen Dundee, III.

"Sure-Go" Hamefastener A 20th Century Idea. No Buckle.
Outlasts Harness. Simple; quick;
works like a charm; can work it
with mittens on. 100,000 pre-engaged. Introduced through
Mail Orders awhile @ 50 cents a pair, prepaid.
Order today. Send only current funds. Address, JOHN HAUSAM, 175 B RACINE, WISCONSIN, U. S. A.

Largest Importers and Breeders of

Shire Horses



in the Dominion, including first-prize winner at Royal Agricultural Show in England, and winning more prizes at Industrial and other large shows than all others combined.

Stallions and mares all ages, home-bred and mported, always for sale. Over 50 to choose

MORRIS & WELLINGTON, Fonthill P. O., Welland County, Ont.

ENGLISH SHIRE STALLIONS



RIGHT OUT FROM ENGLAND, FOR SALE

are sired by the leading sires of England, such as Prince Herald and others: ages from 2 to years. They

H. CEORCE & SONS, Putnam Station C. P. R. Cramp Crampton

GEO. STEWART, Howick, Quebec,



Clydesdale Horses

IMPORTER OF

has now on hand for sale 3 two-year-olds and 1 year-ling stallion, carrying the blood of Hiawatha, Darnley, Lord Erskine, Prince of Wales and Time o' Day, combining size, style, quality and action. Also I five-year-old mare, with filly foal. The best lot I ever imported. Write quick.

GEO. STEWART, Howick, Quebec.

For Sale: Young Erskine, foaled October, 1993; dark brown, with stripe in face; strong, clean limbs; silky hair; strong-muscled, good action. Sire Joe Anderson, by Cairnbrogie Stamp, by Boydston Boy; dam Nell, by Erskine (ump.). For particulars and price, address: of F. J. SHORT, Moorefield P. O. and Sta., Ont.

SALE: An Imported Hackney Stallion existered in England and Canada. He is solid a k; weighs 1,370 lbs.; stands 16 hands high; the 6 feet 61 inches. Sound, and a sure foal-er. He has high action, and he never was in the show-ring, either as a Hackney a Carriage stallion. The reason for sell-water going West. For price and particwillply to G. A. RYAN, Riceville, Ont. om

GOSSIP.

VANNATTER'S SHORTHORN SALE. Attention is again drawn to Mr. Ira B. Vanualler's sale of Shorthorns, on March 11th, as advertised in this issue. Mr. Vannatter is a comparatively young breeder, but is moving along right lines, as a look through the present herd and at their pedigrees will show. Eight years ago Mr. Vannatter started with a purchase from the noted Green Grove herd, of Mr. Fletcher, Binkham, Ont., of the prizewinning show cow, Pearlette Butterfly by Baron Camperdown =1218= (47385) (imp.), dam Lady Butterfly by Lord Cecil, grandam Pearlette Butterfly 3rd by Breadalbane (imp.), imported by H. Thompson, of St. Mary's, and sold by him for \$1,100.00. She was a rich roan, very thick-fleshed, with handling qualities seldom equalled, and which she has certainly transmitted to her offspring, and is prominent in the herd to-day. The stock are not fat, but all in good healthy condition — the young heifers and bulls just right. The cows have not been kept for show, but for breeding purposes, at which they all are doing well. Butterfly Bell by Duke of Waterloo =20616=, dam Pearlette Butterfly by Baron Camperdown =1218= (imp.), is rising eight years, and carrying her seventh calf. She is a big cow of good quality, and a splendid milker. One of her heifers, Eunice by Royal Exchange =22679=, is a thick-fleshed cow, of splendid type, and an excellent handle. She is rising five, and will drop her third calf in May. Another, Butterfly Star by Royal Hero =24609=, is rising three years, and has a splendid heifer calf at foot by Mysie Sailor =35626=, and will be safe in calf again by time of sale. Eagle Girl by War Eagle =13015= (a Toronto silver medal bull), and out of Pearlette Butterfly by Baron Camperdown (imp.), is of the low-down, thickfleshed type, and a heavy milker, more milk than her calf will take at four months, old. She is rising seven, and carrying her sixth calf, four of them heifers. Her first calf, Beulah by Royal Hero =24609=, is rising five, and has a lovely heifer eighteen months old at time of sale, and a bull eight months (both fit to go into any herd), and is due to calve in June. Her second was three last November, has a bull calf eleven months old, and is due to calve again in March. Rhena by Royal Hero =24609=, and out of Pearlette Butterfly, was three years last September. She has a calf one year old at time of sale, which will take the eye of the best judges, and is due to calve again in March. We cannot speak of each of the young things separately. In one stable are five young heifers, got by Mysie Sailor, and not a common one among the lot. In a box-stall are three dark roan bull calves under eight months, also by Mysie Sailor. In another stall stands one seventeen-months bull by Mysie Sailor and one 21-months by Speedside Lad-both good ones. The present stock bull, Mysie Sailor =35626=, will also be sold. He is just past three years old, is a rich dark roan, close to ground in both brisket and flank, very straight in the lines, and a splendid handler, carrying a heavy coat of the best of hair. He is a very heavy bull, yet as straight on his feet and legs as a calf, is perfectly quiet and sure. He was bred by Mr. Geo. D. Fletcher, Binkham, Ont. His sire, Spicy Robin, was winner of second prize at Toronto and London in 1902, and a getter of winners at Toronto in both 1901 and 1902, and sire of many high-priced animals, among them one of his heifers, which sold by auction in Chicago for \$740.00; another yearling was the highest-priced female at the Provincial sale, Guelph, 1901. He was by Red Robin =24808=, out of Roan Lady by Barmpton Hero =324=. Mysic Sailor's dam, Mysie 46th =34106=, produced Miss Mysie, who sold for \$1,075 in Iowa, 1900. The farm is five miles east of Erin, C. P. R., and six miles west of Georgetown, G. T. R. Conveyances will meet forenoon trains at both these stations, and return after the sale, thus saving visitors any inconvenience and making it convenient for them to arrive at the farm before noon, and return nome same evening if they wish. In case of torm; sale

will be conducted under over.

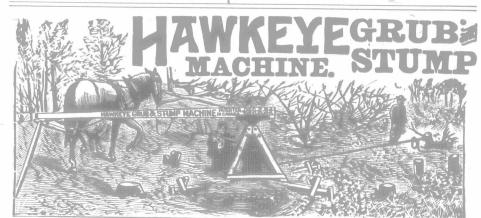


and it pays to have a fence that is accident proof. The No. 7 Top Wire in **Page Fences** is break-proof at 3000 pounds' strain—common wire same size at 1700 pounds.

Page Fence Wire is tempered to stand that strain. Its coil takes up summer slack and gives spring for winter tension, and acts as a cushion to meet accidental strains.

"Page Fences wear best"

PAGE WIRE FENCE CO., Limited Walkerville, Ont. Montreal, P.Q. St. John, N.B.



Works on either standing timber or stumps. Will pull an ordinary Grub in 1½ minutes. Makes a clean sweep of **Tw's Acres at a Sitting**. A man, a boy and a horse can operate it. No heavy chains or rods to handle. The crop on a few acres the first year will pay for the Machine. Send postal card for Illust'd Catalogue, giving price, terms and testimonials. WILLE CA. as 21h 22 Manageth. Ill Catalogue, giving price, terms and testimonials. MILNE MFG. GO., 886 8th St., Monmouth, III.



Seeds, at 10c, each. The packages of Sweet Pea Seeds, at 10c, each. The packages are beautifully departed in 12 colors, and each one contains 42 of the rarest, prettiest and most fragrant varieties in every imaginate color. Everybody buys, Roy Lupply, Rosewood, Man., said: "The Seeds went like wildfire." A 50c, certificate free with each package. This splendid Rifle is 25 inches long, has bright nickel barrel, tunproved lock and hamnier and highly pelished wood stock, carefully sighted and tested. It explodes caps and shots shot, slugs or darts with terrific fore: Write us a Post (arel 1 oday and we will send the Seeds postnaid. We formerly gave this Gon for selling \$1.50 worth; but as we have only a few bit, we have put the price down to \$1.00, in order to clear them out. Write at once if you want one. Prize Seed Co., Dept. 524 Toronto, Onto

10 CLYDESDALE STALLIONS

FOR SALE:

OF ALL AGES, IMPORTED AND HOME-BRED.

Sired by such noted sires as Baron's Pride, Mains of Airies, Sir Christopher, Prince Thomas, and others. Among them is Prince Fragrant, the first-prize three-year-old at Toronto Industrial, 1992. Stables half mile Parties desiring to purchase, please from town. write or call upon

R. R. Station: Mitchell, G. T. R. Wm. Colquhoun, Mitchell, Ont.





Glydesdales and

FOR SALE: Seven choice young stallions, and several young mares and fillies. Five young bulls and bull calves, and thirty-five excellent young cows and heifers. Mostly registered in the American Herdbook.

JOHN BRIGHT, MYRTLE, ONTARIO.

Hodgkinson & Tisdale

BEAVERTON, ONT.,

Breeders of

CLYDESDALE AND HACKNEY HORSES AND SHORTHORN CATTLE.

are now offering a number of choice mares and fillies, and a few young stallions, winners at Toronto; also a few nice harness horses
Shorthorns of both sexes for sale.





choice lot of rth, Ont.

Minorcas, B. ottes. Choicite for circuttit, and, Ont.

Rock S.

ce cockerels pen of Rock erfect color.

# **Blood**



has a rough coat and a tight hide, anyone knows that his blood is out of order. To keep an animal economically he must be in good health.

# DICK'S **BLOOD PURIFIER**

is a necessity where the best results from feeding would be obtained. It tones up the system, rids the stomach of bots, worms and other parasites that suck the life blood

Nothing like Dick's powder for a run down horse. 50 cents a package.

Leeming, Miles & Co., Agents, MONTREAL.

# Used and endorsed by Adams Express Co.

# contracted cord.thrush.grease heel and all forms of lameness yield readily to

Tuttle's Elixir.

Reading Trotting Park, Mass., Aug. 31, 1899.

Dr. S. A. Tuttle, V. S.

Deur Sir:—I want to add my testimonial to your list recommending Tuttle's Elixir for curbs, broken tendons, thrush, and nails in the feet. I have used it on all of these cases many times, and never falled to make a cure.

J. H. NAY.

never failed to make a cure.

Given internally it is sure cure for Colle, Distemper, Founder, Pineumonia, etc.

TUTTLE'S FAMILY ELIXIR cures rheumatism, sprains, bruises, etc. Kilis pain instantly. Our 100-page book, "Veterinary Experience," FREE.

Dr. S. A. TUTTLE, 66 Beverly St., Boston, Mass.

Beware of so-called Elixirs—none genuine but Tuttle's.

Avoid all blusters; they offer only temporary relief if any.

LYMAN, KNOX & SON, Agents,

Montreal and Toronto, Canada.

# FOR SALE:

Also two aged Clydesdale stallions. Also one very fine young Hackney stallion, winner of first and sweepstakes prizes. At very low prices. Write for particulars and prices to

### ROBERT DAVIES, TODMORDEN, ONTARIO,

OR CITY ADDRESS,

34 Toronto Street, Toronto, Ontario.

SUFFOLK PUNCH and HACKNEY

Dr. J. Watson, Howick, Que., is now offering for sale 2 imported Suffolk Punch stallions, winners in England crackers—and one grand Hackney two-year-old stallion, also a first-prize winner; and one Clydesdale stallion.

Dr. J. Watson, - Howick, Que.

# **CLYDESDALES**



POULTRY. R. Ness & Sons, Howick, Que.

AYRSHIRES and

importers of Clyde, Percheron and Hackney stallions, Ayrshire cattle, and poultry, have for sale 5 Clyde stallions, sired by Baron's Pride, Sir Everitt, and Royal Carrick, I Percheron, and I Hackney, winners. Ayrshires of both sexes and

# Registered Clydesdale Fillies

FOR SALE. The well reatched fillies, Mand Lawrence 3531, by Inc. Lawrence Again. 3 years old, dam Hattie McIncis, and Lady McIncis, by Imp. McIncis, dam Imp. Mdad of Bardraing. She is 2 years old. They are one of the best pairs in children. R. D. DUNDAS. om Fraserville Station. SPRINGVILLE P.O.

### GOSSIP.

The three-year-old Shorthorn bull, World's Fair King =28431=, is advertised for sale in this issue, by E. C. Attrill, of Goderich, Ont. He is a red 2,020-pound son of the prize bull, Beau Ideal, by Imp. Sittyton Stamp, out of Imp. Bessie Lass, and his dam is the heavy-milking cow, World's Fair Maid, which made such a splendid record in the dairy test at Chicago in 1893. Several of the bull calves offered by Mr. Attrill are sired by Diamond Jubilee, and are all red, with little white, and about a year old.

Mr. Alex. Burns, Rockwood, Ont., places an advertisement in our columns of his herd of Shorthorns, and writes: 'I have been in the Shorthorn business for thirty years, and have always found the best cattle to be the most profitable. I have on hand some freshly-imported ones, which will greatly improve the herd, as they are from some of the best breeders in Scotland and are high-class animals. Anyone interested would do well to look up my ad., and also come and see the animals, as there are some thirty head to choose from."

Messrs. F. Martindale & Son, York, Ont., write: "Our herd of Shorthorns, now numbering about forty-five head, are wintering well. The calves that are now coming are grand ones, which show the right type, and prove the value of Bandoleer =40106= as a sire. We also have eight grand beifer calves, from eight to lifteen months old, that are well worthy of mention. A few of them are by our former stock bull, Mariner =36064= (imp.). The following are some recent sales: To Geo. Hopper, Springvale, one bull 12 months old; to John Crawford, Rosseau, bull calf seven months old; to John A. Freeman, Hannon, bull eight months old; to Geo. Hutchinson, Cheltenham, bull 12 months old, bull eight months old; to A. A. McKillop, Wallacetown, a very choice one by Mariner (imp.); also one bull eight months old to Ira Minor, Lowbanks. This bull was out of Eugenie =40367=, and sired by Mariner =36064= (imp.). He is a rich roan, and was specially mentioned in our report in 'Gossip,' of the Nov. 15th issue. He has developed to an extra fine bull, straight, good back, evenfleshed, well-sprung and deep-ribbed, and of the best quality. We sold Mr. Minor a bull, three years ago, of the famous Nonpareil family, and were pleased to see him back again. We still have some very good young bulls for sale and would be pleased to correspond with any person desiring to purchase stock of this lescription. Our advertisement will be found in another column.

# NOTICES.

"THE LITTLE ORGANIST OF ST. JEROME" begins and gives is title to a collection of short stories by Mrs. Annie L. Jack, of Chateauguay Basin, P. Q., well known as a contributor to the magazines. Published by Wm. Briggs. Toronto. Price, 60c., postpaid.

A GOOD GRAIN DRILL is a necessity on every farm, and as the time is drawing near when seeding will be the order of the day, it will be the part of wisdom to look up the best. The Superior Disk Drill, which can be supplied with disks or shoes, and is easily changed from one to the other, is advertised elsewhere in this paper by the superior Drill Co., Mc-Kinnon Building, Toronto. Look up the ad., and send for their catalogue and

THE PAMPHLET, "STASSFIRT INDUSTRY," just published, contains an interesting description of the famous dush mines in Germany, from which potase imported into America and as d for manufug is derived. The ents  $\boldsymbol{\omega}$  , an entertain (williser adds to the nents at Souther. particular of the Copies of the party let con be bud free, by writing to the container Unit Works. 93 Nassau St. New York N. Y.

# Stallions

DALGETY BROS.. LONDON, ONT.,

Largest Importers of Horses in Canada.

FIFTH CONSIGNMENT this season will arrive at Toronto first week in March, and will include some extra good horses.

Our motto: Small profits and quick returns.

DALGETY BROS., LÓNDON, ONT.

# 100 PERCHERON, SHIRE AND HACKNEY STALLIONS AND MARES

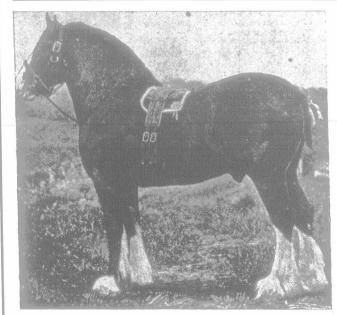


All good ages, good colors, with lots of size, quality and action, at prices below competition, on easy terms. Every stallion sold on a gilt-edge and re-ponsible guarantee. At the Indiana, Ohio, New York State Fairs, and International at Chicago. International at Chicago, on eighteen head won 178 first orgineen nead won 178 first prizes, grand sweepstakes and gold medals in the last three years, SPECIAL INDUCE-MENTS TO CANADIAN BUYERS.



LEW. W. COCHRAN.

607 WEST MAIN ST., CRAWFORDSVILLE, IND., U.S.A. -0



# ROBERT BEITH, BOWMANVILLE, ONT.

IMPORTER AND BREEDER OF

# Clydesdale Hackney

choicely-bred Clydesdale of choicely-bred clydesdales and Hackney stallions; also a number of Hackney mares. The Clydesdales are sired by the noted horses, Prince of Albion, King of the Roses, Lord Stewart and The Prior.

# CAIRNBROGIE'S

GREAT STUD.

Bros., Claremont, Graham

BREEDERS AND IMPORTERS OF



# Clydesdale and Hackney Horses

HANDLING only the best of their representive breeds. We have now on hand more good young stallions and mares than ever before - home-bred and imported - of choicest breeding and ample size, combined with the very best quality and action. Prices in keeping with the quality of our offerings. New importations just arrived.

Claremont is 25 miles east of Toronto, on the P. P. R. Farm one mile from station. Correspondence and an examination of our stock

Please Mention the Farmer's Advocate.

mares. ired by ince of Roses,

Prior.

nt.,

1 d

es

repre-

n 'hand

es than

ed - of

mbined

Prices

on the

Correr stock

om

ings.

# Truman's Pioneer Stud Farm

BUSHNELL, ILL.,

Has for 24 YEARS been headquarters for the CHOICEST

# PERCHERON, SUFFOLK AND STALLIONS

Sixth importation for this season received November 10th.

# 20 to 30 Good Practical Salesmen Wanted

Best lot of draft stallions in the United States or Canada. Notwithstanding the superior quality of our horses, it is a fact that our prices are lower than can be obtained elsewhere in America. If there is no first-class stallion in your neighborhood please write us. For our 24th annual catalogue, etc., address

J. G. TRUMAN, MANAGER, BUSHNELL, ILL.

# Imp. Clydesdales and Shorthorns



Messrs. Smith & Richardson, COLUMBUS, ONT.,

Importers and breeders of Clydesdale horses and Shorthorn cattle, are now offering 14 stallions, 9 of them imported, including brothers of the world-re-nowned Baron's Pride, Hiawatha, and Royal Cairn-ton; also 13 mares bred from imported stock. Short-horns, imported and home-bred, all ages. Stations:

Oshawa & Brooklin, G.T.R., Myrtle, C.P.R. Long-distance Telephone, Columbus.



# **IMPORTATION**

Arrived January 21st, 1903.

Thirty-five first-class Stallions just added to our stock gives buyers an unequalled selection.

# Clydesdales Suffolks Percherons Shires Hackneys



Call early and be convinced of the superior quality of our horses and our very reasonable prices.

OVER TWENTY YEARS AT THE FRONT.

# ALEX. GALBRAITH & SON,

JANESVILLE, WIS., AND BRANDON, MAN.

# International Importing Barn, Sarnia, Ontario.



Clydesdale and Shire Stallions, and Spanish Jacks.

My third importation within the last fourteen months arrived Sept. 4th.



I select every one myself, and it is conceded bein in Europe and America that I do get the best ones that cross the Atlantic to America. My stallions are sired by the leading sires of Scotland; ages from two to four years. The Jacks are direct from Spain, and registered, two to four years old, 11½ to 15½ hands high. I pay cash for my stock. I buy where I can get the best. Write for particulars. Will save year money.

Mention this paper when you write.

H. H. CALISTER, Manager and Salesman.

### GOSSIP.

A two-year-old Canadian-bred Clydesdale stallion is advertised for sale by F. J. Short, Moorefield, Ont., which, from his description and breeding, should be worth looking after. See the ad.

The Shorthorn heifer, Victoria, portrayed on another page, the property of Mr. Leonard Burnett, Hillside Farm, Greenbank, Ont., was sired by Epsom Prince =25708=, by Velvet Prince, by Imp. Sussex; grandam by Imp. Vensgarth; bred by Mr. Cruickshank. The dam of Epsom Prince was by Baron Aberdeen 2nd, and her dam by Imp. Royal Barmpton, the sire of Barmpton Hero, and her grandam the sweepstakes bull, The Doctor (imp.). The stock bull in the Hillside herd at present is Imp, Count Sarcasm, bred by Mr. Wm. Duthie, Collynie, Scotland.

The twenty-eighth annual meeting of the American Berkshire Association was held in the office of the Association, Springfield, Ill., January 28th, 1903. The auditor's and Treasurer's reports showed that the receipts for the year were \$6,996.80, and the disbursements \$6,650.88. As there was a balance on hand at the beginning of the year of \$1,399.45, the balance in the treasury is \$1,745.37.

The stock of the Association that has been held in blocks by individuals was purchased by the Association, and a resolution was adopted hereafter restricting the holding of more than one share of stock at \$100.00 or four shares at \$25.00 by any one individual or firm. A committee was appointed to make the necessary arrangements to reduce the shares of stock to \$25.00.

The following officers were elected: President, Geo. S. Prine, Oskaloosa, Iowa; Vice-President. Goe. F. Weston, Biltmore, N. C.; Secretary, Frank S. Springer, Springfield, Ill.: Treasurer, D. W. Smith, Springfield, Ill.

The magnificent Shorthorn cow, Nonpareil 57th, whose picture appears elsewhere in this issue, was bred and is owned by Messrs. J. & W. Russell, Richmond Hill, Ont. She is of the noted Nonpareil tribe, so successfully bred at Sittyton and Kinellar in Aberdeenshire, and was sired by Lord Stanley =17849=, the junior champion bull at the World's Fair at Chicago, and who headed the young herd that won the grand sweepstakes herd prize of \$600 over all beef breeds for the Messrs. Russell at that show, and which were all bred by themselves. Her dam, Nonpareil 44th, was by Prince Royal =2288=, by Imp. British Statesman and of the Kinel Queen family. Her grandam was by Imp. High Sheriff =131=. With such breeding and ancestry at her back, and the liberal supplies of turnips which the cattle on Springbrook farm receive, it is not surprising that Nonpareil 57th has developed into one of the grandest if not, indeed, the best cow in the Dominion, combining, as she does, in the highest degree the cardinal virtues of constitution, symmetry, quality and leauty. She is from the same dam as Nonpareil 52nd, winner in 1900 of the gold medal and championship for Messrs. Russell at the Toronto Exhibition. This last named cow is still in splendid shape, having bred two calves since winning that trophy, and is forward in calf again. The whole herd is in fine condition, and comprises a grand lot of young things of the best type and quality. The imported bull, Fitz-Stephen Forester =36030=, now at the head of the herd, a roan son of the Deane Willis bred Stephen Fitzlavender, of the Cruickshank Lancaster tribe, sired by Bapton Javelin, out of Golden Geraldine by Coun't Lavender, is doing sterling service as a breeder, as the strong backs and long, level quarters of his progeny amply attests, and as one would expect from him, considering the clear-cut character of his forbears, both on the side of his sire and of his dam, who is a scion of the famous Warlaby Flower family. The yearling and two-year-old heifers and bulls, by Golden Measure and British Hope, are splendid specimens, built on the blocky type, full of substance and quality, and fit to show in any company in any country.

Horse Owners Should Use GOMBAULT'S

The Great French Veterinary Remedy.



SUPERSEDES ALL CAUTERY OR FIRING Impossible to produce any scar or blemish. The safest best Blister ever used. Takes the place of all liniments for mild or severe action. Removes all Bunches or Blemishes from Horses or Cattle. As a HUMAN REMEDY for Rheumatism, Sprains, Sore Throat, Etc., it is invaluable. WE GUARANTEE that one tablespoonful of produce more actual results than a whole bottle any liniment or spavin cure mixture ever made. ny iniment or spavin cure mixture ever made.

Every bottle of Caustic Balsam sold is Warraned to give satisfaction. Price \$1.50 per bottle, Sold
by druggists, or sent by express, charges paid, with full
lirections for its use. Send for descriptive circulars,
estimonials, etc. Address THE LAWRENCE-WILLIAMS CO., Toronto, Can.

J. M. GARDHOUSE, WESTON P. O., ONT. SHIRE AND CLYDE HORSES, SPORT-HORN CATTLE, LEICESTER SHEEP.

One imp. 4-year-old Clyde stallion, half-brother to the obampion Hiawatha, for sale. Also Clyde and Shire stud cotts. Newnham's Duke, the gold and silver medal Shire stallion, in service. Chief Ruler, bred by W. S. Marr, Uppermill, heads the herd. Imported and home-bred cattle for sale. cm Farm, 15 miles from Toronto. Weston station, G. T. R. and C. P. R., telephone and telegraph offices.

USY REEDERS **ELIEVING** LOOD USINESS

UYING

**ELGIANS** 

BARON DE CHAMPLOUIS

Proprietor.

Importer.

DANVILLE, QUE

Establishment in the World. Famous Prize-Winning Stud of



500 HEAD. Four Large Importations in 1902.

forming, with our home-breds. The Choicest Collection Ever Assembled. including Four of the Six First-Prize winners at the great annual French Show of the Societe Hippique Percheronne in 1902. At the recent

INTERNATIONAL LIVE-STOCK EXPOSITION at Chicago, the Oaklawn Percherons achieved distinguished honors. The Champion Stallion and every First-Prize winner (except one) in the regular stallion classes were imported by Dunham, Fletcher & Coleman.

Notwithstanding the superior quality of our horses our prices are lower than can be obtained elsewhere in America. Catalogue sent on application.

DUNHAM, FLETCHER & COLEMAN, WAYNE, DU PAGE CO., ILLINOIS.

SALE: 6 CLYDESDALE STALLIONS from 1 to 8 years old, good individuals, of most fashionable breeding and good breeders, and a few young mares. Come and see them and their produce. Also 2 young Shorthorn bulls. I. DEVITT & SON. Burlington Junction Sta. on

G. T.G. 1 mile from farm.

One in ported colt, rising 3 years old, large size and good quality, and one aged horse (imported), sound and all right in every way. For terms and particulars apply to JAMES PATON. o Swinton Park, Ont

# GOSSIP.

Mr. John Isaac, Markham, advertises for sale 27 head of imported Scotch-bred Shorthorns and one Clydesdale stallion, recently landed from quarantine.

Members of the American Chester White Record Association held the annual meeting at Columbus, Ohio, and elected the following officers: President, F. P. Hardin, Lima, Ohio; Vice-r'resident, W. H. Pool, Delaware, Ohio; Secretary and Treasurer, Carl Freigau, Dayton, Ohio. Send pedigrees of Chester White swine, no matter in which state they are improved, to Carl Freigau, Dayton, Ohio,

Isaleigh Grange Farm lies about 21 miles from Danville station, in the Province of Quebec, and about 112 miles east of Montreal. For a number of years this well-equipped farm has been noted for superior herds of imp. Ayrshire and Guernsey cattle, and a flock of imp. Shropshire sheep. At the present time, there are 185 head of Ayrshires and 35 head of Guernseys in the commodious stables, either directly imported or bred from imported stock, the whole of the milkers ranging from six to ten thousand pounds of milk each during the milking season of the year. The cows are an exceptionally big, well-balanced lct, showing an extra large development of udder and teats. Among them are a large number of prizewinners at all the leading shows of Canada. We were particularly impressed with the royal appearance of the cow, Imp. Lady Bute, winner of first and swcepstakes in the aged class at Ottawa last fall, also the same honors at Sherbrooke and St. Johns. In fact, this cow has never taken second place. Imp. Fairy Queen of Barcheskie won first at O'tawa in the dry cow class last fall. Mary Ann 9th (imp.) is another that has won her spurs in very strong company, winning last fall, first at Ottawa, Sherbrooke and St. Johns in the three-year-old class. Among the two-year-olds, Isaleigh Norina by Matchless, out of Imp Nora of Fairfield Mains, is one that is very hard to duplicate. She won first at Ottawa and St. Johns last fall, And thus we might go on to great length, but space will not permit. The chief stock bull is Isaleigh Grange Wee Earl (imp.), a grand type of Ayrshire perfection and winner of prizes galore. Second in service is Jancy's Matchiess by Matchless, a son of the great Imp. Glencairn 3rd, dam Imp. Nancy. He is an exceptionally well-turned bull, and his ring record is one series of unbroken success, never having been beaten in his yearling form. Another bull used considerably in the herd is Isaleigh Prince by Imp. Glencoe. Last fall, in his two-Sherbrooke and St. Johns, having to show in the two-year-old class. The Guernseys, as before intimated, number 35 head, eight of the cows being imported, the balance bred from them. Last year, they won practically everything in sight at Ottawa, Sherbrooke and St. Johns. Of both breeds, there are for sale a large number of females of various ages, bred in the purple, and, individually, all that could be desired. Also, a few young bulls of both breeds. The Shropshires are all imported and bred from imported stock. None but the choicest imported rains are used.

THE PIONEER STID STALLIONS. Attention is directed to the advertise-

covered Shropshire. For sale, there are



Powerful, Sweet-toned Violin, full size Collar Buttons Write us a post card Gem Novelty Co., Dept. 586 Toronto. 1

FREE ENAMELLED

WATCH for men Handson

nly 1; doz. Glass with one dip of ink.
They sell easily
everywhere. M.
E. Bush, Rose Island

Post Card THEPPEN CO., DEPT. 585 TORONTO

Genuine Precious Stones, Pearls, Turquo se and Garnets, set in a beautifully engraved real solid Gold Ring, given for selling at 15c, each only 7 canadia newer beautifully FREE SOLID GOLD RING keeper buysone

HOME SPECIALTY CO., Dept. 58 | Toronto.

FUR SCARF FREE

housekeener post card Standard F'avoring



post card a 15c Walking

Walking Builtor your trained. A 50 certificate is a factor in. Maxwell Co., Dept 593 Toront

FREE HORSELESS CARRIAGE 6 Glass They sell easily everywher Post Card today and we. The Pen Co., Dept.

# AYRSHIRES and YORKSHIRES

Young bulls fit for service and young calves of either sex, all from heavy-milking dams and imported sires. Fows safe in pig, and early January pigs, either sex, of the right type and breeding. Write us for anything you may need in either breeds, and you will find our prices very reasonable.

ALEX. HUME & CO., Menie P. O.

High Park Stock Farm Galloway Cattle. A few choice young heifers and bulls for sale. Inspection invited. SHAW & MARSTON (Late A.M. & R. Shaw), P. O. Box 294, BRANTFORD, ONT.

J. Richards, Bideford, P. E. Island, Importer and breeder of Aberdeen-Angus Cattle, Clydesdale Horses, Shropshire Sheep, and Shetland Ponies. Stock always for sale, om



ABERDEEN - ANGUS. For Sale: Laird of Tweed-hill 29486. A prizewinner, 4 years old; 1-year-old bull and two bull calves, sired by him and out of winners. W. HALL, Washington P. O.

THE SUNNY SIDE HEREFORDS.



We offer for sale our great show and breeding bull, Imp. sunny slope Tom 1st No. 1170 C. H. R., No. 86085 A. H. Records, sire Wild Tom. Also 3 bulls from 18 to 36 months; 2 bulls over 1 year old; 6 bull calves from 8 to 10 months, choice ones: 3 cows from 4 to Visitors welcome. O'NEIL BROS. Southgate, Ont. Ilderton station, L., H. & B.; Lucan station, G.T.R.

SALE! INGLESIDE HEREFORDS.



Young bulls, cows and heifers of most up-to-date type and breeding. If you want good Herefords at good-value prices, send for illustrated catalogue, and state requiren ents Also 7 and 7 bred Hereford cows and heifers. cm H. D. SMITH, Compton, Que.

# HEREFORDS, HEREFORDS

Am offering for sale Herefords of up-to-date breeding, either sex, and all ages; also a good 24-months-old bull; grand stock-getter. Write or

WALTER BENNETT, CHATHAM, - - - ONTARIO.

CHOICE HEREFORDS A. S. HUNTER, DURHAM, ONT., has for sale the following high-bred Herefords:

25 Young Registered Bulls. 30 Young Registered Heifers. 10 Young Registered Cows.

The above stock are in good condition, and are pred from imported and American bred sires. Ranchers will do well to inspect this offering. om

SALE: 27 Kead of Imported

just landed from quaranting. Also one Clydesdale stallion. JOHN ISAAC, om Markham Ont.

World's Fair King =38431=, 3 yrs. Also several bull calves and females F. C. ATTRILL, Ridgewood Park, Goderich. Ont.

SHORTHORNS, COTSWOLDS, Berkshires and Barred Rock Eggs.



Six bull calves for sale, from 2 weeks to 8 mos, old. A few young cows in 'calf Choice ewe lambs. Barred Rock eggs, from Hawkin's Royal B ue strain, at 75c, for 13, \$2 for 50, \$3 50 a hundred.

GRONNYCASTLE & SON.

Campbellford P. O., Ont

SCOTCH SHORTHORNS FOR SALE. imported bulls; 2 from imp sire and dam; 2 ne bred. Females of all ages, imp. and home d.

ALEX. BURNS,

Rockwood P. O. and Sta. G. T. R.

I ERD is now headed by Aberdeen Hero 28850 (imp.). Am effering a few choice bulle, in the from 10 to 20 wos, old Am getting a number of the ice Abbotsford heiters, and have some cows yet to 584 Toronto. | calve, in calf to Abbotsford.o J. K. HUX, Rodney, Ont.



This illustration was made from the photograph of a field of Timothy. The portion on the left was not, that on the right was, fertilized with

# Nitrate of Soda

400 pounds to the acre. Every farmer is interested in getting the heaviest possible yield of grass.

The latest edition of our Bulletin, "Food for Plants," contains an excellent article on "Grass Growing for Profit," with proof that the yield of barn-cured hay may be increased 1000 pounds per acre for each 100 free to all interested. Send name on Post Card.

WILLIAM S. MYERS, Director, 12 John Street,

## AT HOME Do you want to know

more about your business or profession? Do you wish to write on the Civil Service or the Junior or

Senior Matriculation examinations? Would you like to be a better housekeeper, farmer, mining prospector, or mechanic? Write for FREE booklet-The Canadian Correspondence

College, Limited Canada Life Building, TORONTO, ONT.





is drawn to this little article, Combined Truck and Bag Holder

BECAUSE:

It will pay for it-Saves your bags Does away with one man.

You will find it the HANDLE T ARTICLE around the FARM,

We make

Price, \$3.00.

WINDMILLS, PUMPS, GRINDERS, FANNING MILLS, ETC.

ONT. WIND ENGINE & PUMP CO. LIMITED TORONTO, ONT.

FRUIT. ORNAMENTAL.

NA NUBSERY CO., WINONA, ONT.

you all about

Our money winning books,

written by men who know, tell

Potash

They are needed by every man

who owns a field and a plow, and

who desires to get the most out

They are free. Send postal card.

GERMAN KALI WORKS 98 Nassau Street, New York

Best Feed Grinder Money Can
Buy for Operation with Gasoline
or Steam Engine, Tread Power,
Power Wind Mill, etc.

WHY?
Because it
grinds rapidly
making splendid feed, table meal or graham flour,
has ample capacity for
4 or 5 horse power, and
an automatic feed legulator, which prevents its
choking down the lightest
power, is built throughout of iron and steel and will
last a life time. Thousands in use for 10 and 'by ears
still as good as new. We make '86 sizes and etyles of
Feed Grinders, Including the only really successful
Corn and Cob, and Corn, Cob and Shuck Feed
Grinders. Also a full time of Ensilage and Fodder
Cutters, Huskers, Shellers, Wood Saws, Sweep Horse
Powers, Tread Horse Powers, Wind Mills etc.

Write to-day for free calatogue.

Write to-day for free catalogue.

APPLETON MFG. CO., 53 Fargo St . Batavia fil.

MANITOULIN SHORTHORNS

Edwin Beck, Gore Bay, Manitoulin Island,

HORN CATTLE. A few choice animals.

Breeder of SCOTCH and SCOTCH-TOPPED SHORT-

SCOTCH-BRED SHORTHORNS.

Combining size and quality, at "let-live" prices.
Bulls from 6 to 15 months old, reds and roans,
including the Sultana imported bull, = Goldfinder=, now at the head of herd; also several
young cows and heifers.

L. E. WEBER,
Co. Waterloo.

Hawkesville P. O., Ont.

Shorthorns, Clydesdales and Leicesters

FOR SALE: Young animals of both sexes

always on hand for sale; bred in the purple, and

as good as the best. 20 Leicesters, both sexes, all

WM. McINTOSH, Burgoyne P (). Port Elgin Sta.

JOHN DRYDEN & SON,

BROOKLIN, ONTARIO,

ORUICKSHANK SHORTHORNS AND OHOICE SHROPSHIRE SHEEP.

Five choice young CRUICKSHANK bulls. Straight, smooth, low-down and of show-yard type.

For Sale: One Shorthorn Bull Calf

Twelve months old, roan, of the well-known Wimple family. He is a good one. Also some females of the Crimson Flower, Golden Drop and Cruickshank Lovely strains.

HUGH THOMSON,

SHORTHORNS in LEIGESTERS

HERD ESTABLISHED 1855.

A number of young bulls and females for sale. Also maked bull, imp. Christopher = 28859 = . A satisfactory reason for offering him. Also Lei ester sheep of both sexes.

JAMES DOUGLAS, CALEDONIA, ONT.

Shorthorns, Leicesters and Berkshires

FOR SALK: 4 bulls, from 10 to 18 mos. old; 5 heifers, from 10 to 20 m/s. old—rare good ones and winners.

all ages, not akin. E. JEFFS & SON

Bond Head P. O, Bradferd S a

Lord Wilmot (32863) the splendid Shorthard Farm Herd, is for sale. See Farmer's Advocate, May 15, 1902.
P. O. Box 114.

O N Dundee, Ont.

SHORTHORNS

ewe and 2 ram lambs. Barkshires, both sexes, ages, not akin. E. JEFPS & SON

ST. MARY'S, ONT

BREEDERS OF

Visitors welcome.

BOX 556.

No. 3 "Prize"

POTASH

IRES g calves ams and d early
pe and
ou may
ind our

1866

P. O. ttle. A Shaw).

NT. sland. us Cat-≽heep, sale, om

NGUS. Tweed-winner, 4 land two and out

on P. O. Station.

DRDS. our great bull, Imp. t No. 1170 35 A. H. om. Also 6 months; dd; 6 bull 0 months, from 4 to ; 2 heifers fer calves.

ate,Ont. G.T.R. o ORDS. ulls, cows
rs of most
e type and
If you
od Herecood-value
e nd for
tted catand state
ents Also
red Herews and

SMITH, n. Que ORDS

up-to-date a good 24-Write or NTARIO. RDS

ONT., ers. n, and are ires. Ran-

Clydesdale m Ont.

rted

131 = , 3 yrs.

rich. Ont. OLDS. Eggs.

sale, from 2 A few young ewe lambs. m Hawkin's 75c, for 13, dred. SON. P. O., Ont

NS FOR and dam;

and home

een Hero choice bulle, a number of cows yet to Rodney, Ont,

PLEASE MENTION FARMER'S ADVOCATE J

Now offering 5 bulls, from 4 to 17 mos cld, sixed by Royal Duke, he by Royal Sailor (imp.). Also females, all ages, some in calf. Prices mederate o J. R. McC \LLUM & SON, Iona Sta. & P.O., On'.

Dr. John Spencer, V. S., formerly of the "l'armer's Advocate" staff, now Assistant Veterinarian at the Virginia Experiment Station, recently issued a couple of useful bulletins for the benefit

GOSSIP.

Five miles from Coaticooke station, in the Province of Quebec, and 124 miles east of Montreal, lies Homecroft Dairy Stock Farm, the property of Messrs. J. F. Parsons & Sons, breeders of Ayrshire cattle, Chester White hogs and Blue Barred Plymouth, Rock Houltry. At the head of the choice herd of Ayrshires is the grand, prizewinning bull, King of Norton Mills 8854, bred by R. Robertson, of Nappan, N. S.; sired by the noted bull, Matchless 7560, a son of the great bull, Imp. Glencairn 3rd; dam Emergency of Burnside, by Golden Guinea. As a two-year-old, he won first at Sherbrooke, and at the local shows was never beaten. Second in service is Master Clarence of Burnside, sired by Mr. R. Ness' great bull, Imp. Duke of Clarence of Barcheskie. He is a typical young bull, and will certainly make a winner. Among the many good cows is Belle of Brome 7888, milk record 50 lbs. a day. She is the dam of an exceptionally good one-year-old bull, by the stock bull. Her milk also tests 4.50 per cent. of butter-fat. Jean of Homecroft milk record 45 lbs. a day. Princess of Homecroft, also milking 45 lbs. a day. Countess of Homecroft, now milking 30 lbs. a day, dropped her first calf in December. A great many of the young things in the herd are sired by the stock bull, but several are sired by Fighting Mac 13678. At present, there are for sale five young bulls, from three to twelve months old, and a few heifers.

The Chester Whites are of the improved bacon type. The stock boar is King George's Boy 2313 by Imp. Darby; dam Bell White by Eureka 2nd. He is a very lengthy, smooth boar, and his stock are coming right. Among the brood sows is one extra good one, George's Hanna 2314 by Imp. Crown King, dam Chester Queen by Lord Nelson. For sale, there are young ones of both sexes and all ages.

The Blue B: Rocks are of Hawkin's strain, and there are a number of very choice cockerels for sale. Write Mr. Parsons, to Barnston P. O., Que.

GALBRAITH'S LATEST.

Mr. Alex. Galbraith, Janesville, Wis. writes: "We are sending to our Manitoba branch at Brandon, by express, tomorrow, another carload, containing five Clydesdale stallions, four Percheron llions, three Suffolk stallions-twelve head in all. These horses are all three and four years old, and, individually, one of the choicest shipments we have yet made to the Northwest. Included in this lot is the very handsome threeyear-old Clydesdale stallion, Gay Knight, that was so much admired at the International Show, and was pronounced by one of America's greatest artists to be the handsomest horse in action he ever saw. He was a prizewinner before importation, and his fashionable breeding is in keeping with his great individuality. We know of only one more valuable draft stallion in America today than Gay Knight, and that is the champion Prince William, still at the head of our stud. Other Clydesdales in this shipment are: Golden Rod, by Black Rod, a Baron's Pride horse, and a most promising son of the well-known Lord Lynedoch

The Suffolks include Bentley Victor and Bentley Lord, both prominent prizewinners at the Royal and other important shows in England.

The Percherons are an exceedingly choice lot, with beautiful quality and perfect conformation, and dvery animal is not only sound, but is ingroughly guaranteed in every respect. Buyers ought surely to appreciate the value of a guarantee that is a gornine protection as distinguished from one that is not.

critical than Americans, and we also be-lieve that there is nothing too good for Manitoba and the Northwest.

SHORTHORNS SALE 10 choice Shorthorn heifers and 10 young bulls, of choicest quality and breeding, at easonable prices. G. A. BRODIE, Stouffville Sta. 0 Bethesda, Ont

SHORTHORNS FOR SALE Five young bulls of choicest breeding and quality; also forty cows and heifers, a very choice lot. Herd headed by Bandoleer = 40106=. F. MARTINDALE & SON.

Caledonia Station York, Ont.

SHORTHORNS. Dark red bull calf, Blue Ribbon 2nd, 13 months old, sired by Blüe-Ribbon (imp.) 17095 (63703), dam by Royal George (imp.) (64728). Bull calf, 7 months old, dark red; also yearling and two-year-old heifers. om JOHN McFARLANC, - DUTTON, ONT.

W. G. PETTIT & SONS

FREEMAN, ONT., CAN, Importers and breeders of

and SHROPSHIRE SHEEP, make special offering for January and February

2 imported bulls coming 2 years old. 4 bull calves, from 8 to 12 months old, from imported sire and dam. 6 bulls, 10 mos. to 2 yrs., by Imp. sire. Imp. and home bred cows and heifers of

Mercer's Scotch Shorthorns

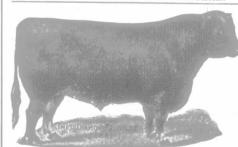
I am now offering four nice red bulls, from 13 to 10 months old; a number of young cows and heifers, in calf and calves at foot. For breeding, refer to Christmas number. Prices right. Visitors met on shortest notice. Deep a card or wire before coning. Farm one and a half miles from C. P. R. station, Markdale, Ont. cm. THOS MERCER, Proprietor.

Choice Shorthorns and Shropshire Sheep.



I am now offering bulls from 8 to 16 months old. Heifers of all ages, some in calf. Present stock bull, Roan McKay a = 37867 =

CHAS. CALDER. Brooklin.



T. DOUGLAS & SONS, STRATHROY, ONT.,

BREEDERS OF Shorthorns Clydesdales 100 SHORTHORNS TO SELECT FROM. Herd bulls (imp.) Diamond Jubilee = 28861 = and Double Gold = 37852 =. We offer for sale a choice lot of young bulls, cows and heifers of all ages. Also one 3-year-old stallion, and one 4-year-old brood mare. Farm one mile north of town.

S. DYMENT BARRIE, ONT.

Breeder of Scotch Shorthorns

Imported Morning Star at head of herd

Shorthorns and Shropshires. Stotchand Scotch topped families of the Shorthorns. Young Tulls and heifers for sale, Shropshires, bred direct from imported stock: Mansell and Cooper strains. Stouffvile Station, G. T. R. o Gormley, Ont.

HIGH-CLASS SHORTHORNS.

Heifers and bulls of various ages. Price MAC CAMPBELL, Northwood, Ont.

Maple Grange Shorthorns

CLARETS, LAVINIAS AND MEAUTYS, Sired by such Scotch bulls as Commodore 31025, Scottish Bard, Imp. Baron's Heir. 18 heife.s, 12 bulls, a number of cows (heavy milkers), to be sold well worth the money.

R. J. DOYLE,

Owen Sound P. O. and Station and Port.

R. & S. NICHOLSON Sylvan P. O. Parkhill Station, Ont. Importers and breeders of

SHORTHORNS

Have for sale : 13 IMPOTED HEIFFRS. 2 IMPORTED BULLS, 7 YEARLING BULLS, 20 HEIFERS (choice).

Home-bred herd composed of Nontarells, Minas Clementinas, Cruickshank Lovelys, Shethin Rose marys, A. M. Gordon's Estelles, Miss Symes, etc. \_ om

# ARTHUR JOHNSTON.

GREENWOOD, ONTARIO, CANADA,

Offers at private sale young

# SHORTHORN BULLS AND HEIFERS

of the choicest Scotch breeding. Quality unsurpassed. om

J. & W. B. WATT REEDERS AND IMPOLTERS OF

Shorthorns, Clydesdales and Berkshires

We breed our show cattle and show our breeding The imported bulls, Viceroy and Scottish Peer,

head the herd.

Imported and home-bred cows and heifers for sale. A few choice young bulls on hand.
Our herd at Toronto won three firsts, a second and third out of five herd classes.

om

Salem P. O. and Telegaph Office Elora Sta., C P.R., G T R. Our entire flock of Shropshire sheep, 75 tead.

SHORTHORNS, Lady Fannysand Beautys for sale 5 bulls, from 6 to 14 months old; 7 heifers, from 1 to 3 years old, some of them in ealf to Prince Eclipse 33049.

James Caskey, Tiverton P.O., Kincardine Sta.

IMPORTED and CANADIAN-BRED

ORDERS TAKEN FOR BULLS AND HEIFERS, COTSWOLD AND LEICESTER SHEEP, YORKSHIRE AND BERKSHIRE PIGS, AND DE-LIVERED TO ANY PART OF MAN-ITOBA OR THE NORTHWEST.

Write for prices. Satisfaction guaranteed.

Goodfellow Bros., Macville, Ont.

**Spring Grove Stock Farm** Shorthorn Cattle and Lincoln Sheep.



HERD prize and sweep-HERD prize and sweep-stake at Toronto Industrial Exhibition, 1897 and 1898. Herd headed by the Marr Missie bull, Imp. Wan-derer's Last, last of the get of the great sire, Wanderer, of the Cruickshank Brawith Bud tribe. High-class Short-horns of all ages for sale. colns. Apply ning Lin

T. E. ROBSON, ILDERTON, ONT.

SHORTHORNS. A numt er of choice young bulls, heifers and cows, for sale. A. M. Shaver, HAMILTON Sta.

SCOTCH SHORTHORNS AND SHROPSHIRES. Present offering: Five yourg bul's and 4 year-ling heifers, and a few cows. Shropshires of both sexes and all ages. BELL BROS., Bradford P.O. and Station.

CHARLES RANKIN, WYEBRIDGE, ONT. Importer and breeder of Shorthorns, Oxford Downs and Berkshire Pigs

Young stock always on hand. STOCK BULL

FOR SALE. Have decided to offer for sale my noted stock bull, Spicy Robin = 28259 =, winner of second prize at Torento and London exhibitions, 1902. Also a number of cows and heifers for sale.

GEO. D. FLETCHER, Binkham P. O. Erin shipping station, C. P. R. Or BELLEVUE SHORTHORNS. Both sexes. Imported and hone-bred. All ages. Prizewinners at home and abroad.

EDWIN BATTYE, Gore Bay P. O and Port. MANITOULIN ISLAND. CHOICE SHORTHORNS.



We are now offering 12 heifers from 6 months to 2 years of age, and 7 bulls from 6 to 10 months old, some of them extra choice and prizewinners—a low down, thick lot Also, Yorkshires.

WM McDERMOTT, Living Springs P. O., Fergus Station. WHAT THE

It will increase the yield of butter about 1 lb. per week, and about 30 to 60 lbs. per year, and will pay 8% on its cost price annually with one cow, and pay for itself in one year with 12 to

cow, and pay for itself in one year with 12 to 15 cows.

It will be placed on trial beside any other Cream Separator and prove to be superior in construction for convenience, easy operating, cleaning, close skimming, quality of cream and butter, style, fine finish and lasting service.

The only Cream Separator having its bowl and all parts made and finished in one shop in Canada under the supervision of the best Cream Separator experts obtainable.

The bowl is not filled with innumerable complicated parts to adjust and wash every time it is used. It has no stable-tainted, enamelled casing into which the milk and cream is discharged, that requires hot water at the barn to wash it every time it is used.

The National is designed for convenience and to overcome every objectionable feature found in other Cream Separators. A sample machine sent for a free trial to prove all that is claimed for the National.

NATIONAL No. 1A.

NATIONAL No. 1A. Capacity, 450 to 500 lbs, per hour. NATIONAL No. 1. Capacity, 330 to 350 lbs. per hour. NATIONAL B. Capacity, 250 lbs. per hour.

Give the National a trial. Send for particulars to any of the following general agencies:

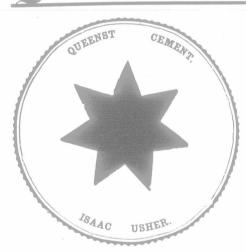
The CREAMERY SUPPLY CO., Guelph, for South-western Ontario. The T. C. ROGERS CO., Guelph, for Ontario North and East. JOS. A. MERRICK, Winnipeg, Man., for Manitoba and N.-W. T. JOHN A. ROBERTSON, 108 Union Avenue, Montreal, Ouebec.

# The Raymond Mfg. Co. of Guel GUELPH, ONT.

### Going Build? to

A new house, barn, silo, concrete floor, or any other such work? If so, use

# Queenston Cement



THE old brand made by a new process. No better cement made. All who contemplate using cement should first inspect the different structures built of the different kinds of cement, and then they would know which is best and cheapest. We especially request those interested to ask our many patrons about the new-process Queenston Cement used during the latter part of last season. Do not be misled by statements from those who sell the goods most profitable to themselves. Write for prices,

estimates and full particulars. We can save money for you when building.

USHDR. ONTARIO.

QUEENSTON,



### GOSSIP.

Mr. James Douglas, Caledonia, Ont. writes: "I am sending you a change of advertisement for next issue, from which your readers will please notice that I am offering my herd bull, Imp. Christopher =28859=, for sale, as I had to make a change on account of his calves coming of breeding age, and have bought another and will not need the two. He is a good bull and a good breeder, all right in every way-sure, quiet, and a capital worker. He is a thick, fleshy bull, with a fine coat of mossy hair, and he is recorded in the A. H. B. I also am offering some very fine young bulls by him, and some females that I am breeding to the bull I bought to follow him, Imp. Rosicrucian of Dalmeny (82117).

Dalgety Bros. have sold to M. C. E. Bebee, of Owen Sound, one of their newly-imported stallions, Sir Martin (10649). This young horse is one of the best kind, and will make a very heavy one, with the best kind of feet and legs, with the feather in the right place. This horse was only shown once. at Barr Head open show, where he won first prize in a large competition. He was sired by the noted sire, Lord Stewart (10084), grandsire Castlereagh (18342). His dam is the noted mare, Lady Die by Golden Avon, second dam The Dowager by Darnley (222), third dam by Walter Scott. If this horse proves as good a stock producer as his sire is, he will be a great boon to the people that use him. His sire's service fee was fifty dollars (\$50.00). Sir Martin was bred by the Most Honorable Marquis of Londonderry, K. G., Seaham Hall, Seaham Harbor.

Being in Ottawa, recently, an "Advocate" representative boarded a street car and was soon landed at Hintonburg, opposite the splendid dairy farm of Messrs. R. Reid & Co., breeders of typical Ayrshire cattle, Clydesdale horses, Berkshire and Tamworth hogs. In the long rows of well-arranged stalls were to be seen 60 head of big, wellformed, heavy-milking Ayrshires, a number of which are imported. At the head of the herd is the grand stock bull, Imp. Duke of York, a bull of great length, substance and quality. Among the many cows are a number showing a butter-fat test of four per cent. and with milk records of from 55 to 50 lbs. a day. In younger animals, are a number of two-year-old heifers that are extra nice, showing an evenness and trueness type that makes winners breakers. There are also about seven one-year-olds that have only to be seen to be appreciated, and a few heifer calves In young bulls, there are three yearlings and eight calves, all sited by the stock bull, and a rare good lot they are. Any of the young animals and a few of the older ones are for sale.

The Tamworths are certainly a superior lot. The main stock boar is Imp. Whittaker Bruce, winner of a host of prizes at the leading shows. Next in service is a son of his, Maple Uli'i Bruce. a young boar that for type, quality, perfect form and finish has very few equals. In females there are several brood sows, among them being Imp. Knowliflower. They are ideal animals and winners all through. In younger ones, there are several very choice young sows for sale. The Berkshires are of the improved type. The stock boar is King Highelere 2nd, a very long, even, smooth hog. In this breed there are also several young sows for sale. Messrs. Reid & Co. - report sales as exceptionally brisk, being considerably taxed to keep pace with their orders.

In Clydesdales they are offering for sale the grand yearling stallion, winner of first place at Ottawa last fall, sired by The Chief, dam Erskine Libby (imp.). a mare that weighs 1,995 lbs. This is a very big, thick, brown colt, with grand, flat, flinty bone, very even in his and can go some, too. He will make a 2,200 pound horse. Note Messis Reid & Co s ad and write them to Hinton

## SHORTHORNS and CLYDESDALES.

We have for sale five bull calves, from 8 to 24 months, from imp. sire and dams; also six extra good stallions, from two to six years old.

JOHN MILLER & SONS, BROUGHAM, ONT. CLAREMONT STATION, C. P. R.

# SHORTHORNS (IMP.)



Cows and heifers, imp. and home-bred. Bulls, imp. and home-bred—all ages. Representing the fash i onable blood of Scotland.

EDWARD ROBINSON, MARKHAM P. O. & STN.

RIVER FARM SHORTHORNS I am now offering 6 choice young bulls, from 8 to 16 months old, sired by Lord Lavender 26855. They are rare good ones. Price right. H. PARKER. DURHAM P. O. and STATION.

SHORTHORNS. Imported and Canadian-bred. I have for sale eight young bulls from 8 to 12 months old; also a few choice heifers, all got by Captain Mayfly (Imp.), first-prize aged bull at Toronto and London in 1902. JAS, A. CRERAR, Shakespeare. Ont. om

SHORTHORN BULLS FOR SALE: A choice lot of Shorthorn bulls from 10 to 16 months old, sired by Imp. British Statesman (63729) = 20833 =; and cows of the Mara family. They must be sold at once. Prices away down to suit They must be sold at once. Prices away down to suit customers. FITZGERALD BROS., on Elm vale Station, G.T.R Mount St. Louis P.O.

# QUEENSTON HEIGHTS SHORTHORNS SCOTCH AND SCOTCH TOPPED

In service: Derby (imp.) =32057=; Lord Montalis, by Collynie Archer (imp.) =28860=. Some choice heifers and young cows with calf at foot or in calf to

imported bull at moderate prices. HUDSON USHER.

QUEENSTON, ONT. om FARM 3 MILES NORTH NIAGARA FALLS

SALE FOR

6 SHORTHORN BULLS. 14 months old; also heifers and cows. Would sell a carload. Imp. Prince William at head of herd. om Jas. Gibb. Brooksdale, Ont.

# SHORTHORNS

Bull, 2 years old. Cows and heifers in calf. Also bull and heifer calves, some sired by imported bull. English Berkshire and Improved Chester White swine, 6 weeks to 1 months old, both breeds, in pairs not akin. Also seed oats, speltz and seed potatoes. Prices reasonable. TILMAN E, BOWMAM, Berlin, Ont.

SHORTHORNS. 

# RARE YOUNG BULLS

of serviceable age for sale; also females of all ages. Roans and reds. Prices right. -o E.&C. Parkinson, Thornbury P. O.& Stn., G.T.R.

Imp. Shorthorns and Lincolns

A, D. MOGUGAN, RODNEY, ONT., P. O. AND STA.,

Imported Aberdeen Hero at the head of the herd, which is composed of the best Scotch families. Ten grand shearling and two-year old ewes for sale, in lamb to a Royal winner. Also ewe lambs from imported Düdding ewes at reasonable prices.

## R. MITCHELL & SONS. NELSON P. O., ONT.

Scotch Shorthorns. The Marr Princess Royal bull, Imp. Greengill Victor, heads herd. We have for sale 4 imported bulls, 12 imported heifers, and a large number of home-bred bulls, cows and heifers belonging to the most popular Aberdeenshire families. Burlington Jct. Station and Tele. Office.

# IGH-GLASS SHOR

Now offering 12 bulls, reds and roans, from 6 to 24 months old—the thick, fleshy kind—and a few heifers. Also Clydesdale horses.

JAS, McARTHUR, - Goble's, Ontario.

SHORTHORNS: JILTS and MARAS: 6 heifers from 1 to 3 years old; 5 with calves at foot and in calf again to Imp. British Statesman. Also two young bulls (roan). LOUIS ELLARD, Loretta P.O., Beeton Sta.

CEDARDALE SHORTHORNS. FOR SALE -3 bulls from 1 to 2 years old, two of them of Lord Gloster 26995 and Flora dams, the other by Cedarville Chief 26838, Beauty dam; a big, Dr. T. S. Sproule, Markdale, Ont., P.O. and Sta.

LES.

NS.

[P.)

np. and p. and present-clood of

om

BON,

STN.

RNS

om 8 to

ATION.

an-bred.

ng bulls heifers, ze aged

t. om

hoice lot from 10 atesman

family.

is P.O.

TS

PED

R,

ALLS

E

Would

head of le, Ont.

NS

alf. Also rted bull. er White , in pairs potatoes.

Ont.

TO.

4 years.

P. O.

les of

LLS

n.,G.T.R.

colns

om

PURE, FRAGRANT, CLEANSING. ALBERT TOILET SOAP CO., MFRS.



E. W. GILLETT COMPANY Toronto, Ont.

SHORTHORNS: We are offering 3 extra choice yearling bulls, all from imported sires, straight Cruickshank, with Lavendar and Miss Ramsden dams. THOS. ALLIN & BROS., Oshawa, Ont.

Shorthorns, Berkshires and Leicesters. FOR SALE: Choice two-year-old heifers, well gone in calf; also yearling heifers, bull calves. Boars and sows fit for breeding, and young pigs. ISRAEL GROFF, ALMA, ONTARIO.

HAWTHORN HERD of deep-milking Shorthorns for sale. Six young bulls of first-class quality and breeding and from Al dairy cows. WM. GRAINGER & SON, Om.

Lakeview Shorthorns. Herd represented by such noted families as Stamfords, Minas, Marr Floras, Crimson Flowers, Village Girls, Bucan Lasses, and Lavinias. Stock of both sexes and all ages for sale. James Bowes, Strathnairn P.O., Meaford Sta.

GREEN GROVE SHORTHORNS : I am now offering a few heifers, Clarets, Floras, and one Missie; also a choice year-old bull, by Aberdeen of Markham. W. G. MILSON, GORING P.O. and MARKDALE STATION.

# Shorthorn Cattle, Lincoln Sheep

Imp. Prime Minister at head of herd. Imp. Clippers, Miss Ramsdens, and other Scotch families. Lincolns won more than half the money and first for flock at the Pan-American. can; International, Chicago, 1901 and 1902.

J. T. GIBSON, om DENFIELD, ONT.

SCOTCH COWS and HEIFERS

of good quality, in calf to one of the great Scotch sires of the period, and a few young bulls, for sale at prices you can stand. Shropshire rams and ewes of greatest individual merit and breeding, for sale as usual. Ask for catalogue. Representative in America of Alfred Mansell & Co., College Hill, Shrewsbury, Eng., om

ROBERT MILLER, - STOUFFVILLE, ONT.

GOSSIP.

A few years ago Mr. Robt. McBrien, of Chatsworth, purchased a pair of good, pure-bred Ciydesdale mares, for which he paid a long price, and at which his neighbors stood aghast. Since then Mr. McBrien has sold three colts, the offspring of this team, for \$1,600, and still has a very valuable colt on hand. Mr. McBrien has recently purchased another 1,950-pound mare from Mr. A. Crow, of Annan. The first-class stock has proven a good investment for this man, and will do the same for others.

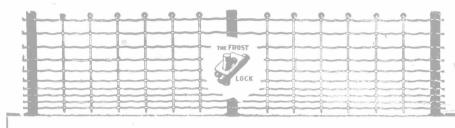
Stockholders of the Ohio Poland-China Record Company held the annual meeting at Dayton, Ohio, January 28th. The advisability of consolidating the different Poland-China Records was considered, and many were in favor of such. A committee was appointed to confer with similar committees that may be appointed by other record companies. Officers elected were: President, L. N. Bonham; Vice-President, L. C. Nixon; Treasurer, J. H. Lackey; Secretary, Carl Freigau, Dayton, Ohio. Executive Committee, J. M. Klever, J. H. Lackey, A. M. Brown, Carl Freigau, Dayton, Ohio.

IMPORTANT PURCHASE OF SHORT-HORNS.

Messrs. A. & G. Mutch, near Regina, N.-W. T., having determined to found a herd of Shorthorns, recently visited " Maple Shade," the home of Hon. John Dryden, at Brooklin, Ont., where they found a large number of choice heifers of extra quality, from which four were selected, representing as many different families-two roans and two reds, the latter being sired by the imported bull, Collynie Archer, and the former by Prince Gloster, the present stock bulls at Maple Shade, both superior animals of the choicest breeding, and prepotent sires, as evidenced by the younger animals of the herd. Collynie Archer was bred by Mr. Duthie, of Scotland, and selected for use on Mr. Dryden's herd His pedigree is exactly the same as that of the great show bull, Marengo, the winner of the championship in Great Britain for three successive years. Collynie Archer has made a splendid record at Maple Shade. Ten of his heifers, all under two years and of Scotch breeding, made an average of \$710 each in June last at auction in Chicago. Prince Gloster, the younger bull, seems likely to prove equally good as a breeder. One of his heifers of last year's crop, and the first that has been shown, easily took first place in a large class at the Whitby Model Fair last fall.

One of the heifers purchased belongs to Mr. Cruickshank's favorite Lavender family, tracing through bulls used by Mr. Dryden to imported Lavender Pride by Cumberland, acknowledged by all to be one of the greatest sires of the Sittyton herd. He was the sire of the greatest Shorthorn bull of recent years, Scottish Archer. Another heifer belongs to the Cruickshank Brawith Bud family, the pedigree showing eight cows of Mr. Cruickshank's own breeding. Both these heifers are exceptionally thick and lowset, with splendid coats of hair. Another one is of Mr. Cruickshank's Venus or Easthorpe family, and is a beautiful red, on short legs, and a typical Shorthorn. The fourth is of great size for her age, and in every way desisable. She belongs to the Lady Eden tribe, the oldest of all the families in Mr. Dryden's herd. Her dam, at six years, was sold at Chicago for \$530, and her own sister for \$440. The individuals of this family are uniformly good, and this heifer is one of the best. We congratulate Mr. Mutch on his excellent commencement. He has, no doubt, secured animals of great individual merit and of the choicest breeding to be found anywhere.

These heifers are to be bred to Mr. Dryden's prize Cruickshank bull, Clipper Hero, and mext year Mr Mutch will add a first-class young bull for his use in the future We shall watch the result with great interest. It is not often young breeders start with such choice pedigrees and animals which show it by their appearance, and we feel sure that the whole country will sain by the PLEASE MENTION FARMER'S ADVOCATE. further development of this herd



The Frost 10 Wire and 6 Stay Fence

is the strongest and heaviest wire fence made—good openings for good agents; write us at once for terms. Ask for catalog.

WELLAND, ONT. THE FROST WIRE FENCE CO., . WINNIPEG, MAN.

9 Straight Scotch Shorthorn Bulls from 9 to 18 months Herd-headers at common prices. Also females of all ages.

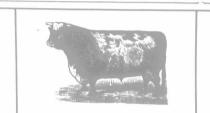
Station, Telegraph and Telephone office adjoin the farm. D. Milne & Son, Ethel, Ont.

GEO. ISAAC, BOMANTON, ONT.

IMPORTAR AND BREEDER OF

Scotch Shorthorn Cattle Have imported, this year, 68 head of Shorthorns—6 bulls and 62 females. Twenty-seven head left quarantine 11th Sept., 1902. Intending purchasers should see this stock or correspond.

BOMANTON P. O., COBOURG STATION, G. T. R.



An excellent lot of young bulls of the Cruickshank Village Blossom, Lovely and Mysie families; also Marr Missies and Kinellar Clarets. A few choice young females for sale as well.

SMITH, Exeter, Ont. Farm adjoins Exeter Station, on the G. T. R., 30 miles north of London.

# Shorthorns

BREEDING FEMALES ALL IMPORTED.

Imp. Golden Drop Victor our present stock bull. Eleven young bulls and some young cows for sale at reasonable prices.

H. CARGILL & SON,

Cargill Station, G. T. R. CATALOGUE FREE. OM

Cargill, Ontario.

H. J. Davis, Woodstock, Ont. 40 HEAD IMPORTED and CANADIAN-BRED SHORTHORNS.

22 head just home from quarantine, including a choice lot of heifers and young bulls of the best breeding. Herd headed by the Willis Cruickshank-bred bull, Bapton Chancellor (imp.), and the Lovat bull, Viceroy. Woodstock: Main line G. T. R. and C. P. R.

# MAPLE LODGE STOCK FARM.

ESTABLISHED 1854. SHORTHORNS.-First-prize milking strains, best Scotch breeding. Young bulls and heifers for sale. LEICESTERS.—A grand lot of ewes, bred to our imported rams, and a few choice rams now for sale.

A. W. SMITH, Ailsa Craig Station, G. T. R, 31 miles. om MAPLE LODGE P. O., ONT

# PINE GROVE SHORTHORNS AND SHROPSHIRES.

Our herd comprises over 150 females, including our last importation of 30 head, all of the most esteemed strains. Of Shropshires, we offer a few choice rams, also high-class ewes bred to first-class rams. Address

W. C. EDWARDS & CO.,

Rockland,

Ontario.

VALLEY HOME STOCK FARM SCOTCH SHORTHORNS Choice young bulls and heifers for sale from imported and home-bred cows. BERKSHIRE SWINE. home-bred cows. Also some young Berkshires. C. P. R. Station and Telegraph Office.



Enormous Range Power Objects miles away brought to view with astonishing clearness. Fitter with Achromatic lenses of Highest Quality and finest finish, (Best Parisina Make), smooth working focusing bar, telescope action, fine morocoo covered body with satinfined morocoo carrying case and leather strap. Every part made of best material, finished and fitted with scientifie exactness. Secondary with the secondary of the satinfined part made of best material, finished and fitted with scientifie exactness. Secondary with the secondary of the satinfined part made of part made of best materials with secondary to the secondary of the s

quality for less than \$5.00. Don't delay, Order to-day. JOHNSTON & CO., BOX 550 TORONTO.

A., the herd, lies. Ten or sale, in from im-INS,

ess Royal ill Victor, d bulls, 12 home-bred the most Office.

, from kind orses.

Ontarlo. S S to 3 years in to Imp. (roan). ton Sta. DRNS.

dams, the

and Sta.

TROUT CREEK HERD OF



Spicy Marquis (imp.), bred by W. S. Marr, first at London, 1901, first and champion at Toronto, 1902, at head of herd, assisted by Baron Beaufort, bred by Lord Lovat, of his famous Broadhooks family. This is the highest-priced Scotch Shorthorn bull imported to Canada. This herd in 1901 was awarded ten championship prizes out of a possible fourteen. They were exhibited at Toronto, Ont.; Pan-American, Buffalo; New York State Fair, Syracuse, and Illinois State Fair, Springfold, and resided for the state Fair Springfold and resided for the state Fair Springfold. Illinois State Fair, Springfield, and gained first prize at each place. They were only exhibited at Toronto in 1902, and were awarded first prize, also championship for senior bull and female. Seventeen of the awards given to Shorthorns at the great International at Chicago, 1901, were on cattle formerly owned at Trout Creek Stock Farm. Three of the leading show bulls in United States circuit for 1902 were imported by me, including the senior champion. And the senior champion female at the Chicago International Exposition, as well as about 15 other prizewinners at that show, also supplied by us.

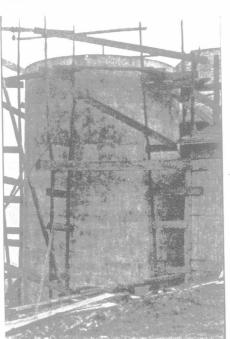
We keep a choice lot of both imported and Canadian-bred cattle. Personal inspection invited. Parties desiring to see the herd will be met on arrival of trains, if notice is given. Visitors always welcome. Address,

JAS SMITH,

Manager, MILLGROVE, ONT. 378 Hess St. S, HAMILTON, ONT.

# Splendid Round Cement Silo

BUILT BY OUR MR. FRED MISENER FOR WILLIAM McGHEE, OF BEACHVILLE, ONT., WITH



SIZE OF SILO:

Walls, 16 inches at bottom, 9 inches at top; 30 feet high; 16 feet in diameter.

COST AS FOLLOWS:

Thorold Cement, 75 barrels at \$1.15 ..... Gravel, 56 yards at 10c.... 1 ()() Stone, 10 yards at 10e ..... 7 men, 7 days at \$1.25.... perintending, 7 days at \$2.00 ..... 14 ()() Rent of moulds
Plastering, 2 man i days... 7 (10) 7 50 Plastering, Liman Tabays \$188 60

Estate John Gaille, Manufacturers of "Thorold" Gement THOROLD, ONT.

### GOSSIP.

O'Neil Bros., Southgate, Ont., write: "We have decided to offer for sale our great stock bull, Sunny Slope Tom 1st 1170 and 86085, bred by C. S. Cross, of Emporia, Kansas, U. S. A. He was sired by Wild Tom, he by Beau Real, he by anxiety 4th, by Anxiety. As a calf, Sunny Slope Tom won first in class and third sweepstakes Hereford bull of any age. He is a sure stock-getter, and his get have been successful in the show-ring whenever shown. The other bulls we are offering are plainer and are within the reach in range of value of the farmer and ranchman. The females are a very choice lot, and will be appreciated by prospective customers on examination. We have had a very successful season so far, having disposed of 15 bulls and 20 females of all ages since fall. We desire to express our appreciation of the "Advocate."

### TREDINNOCK AYRSHIRES.

Quebec is the home of the Ayrshire In this Province are a number of herds of continental fame for superior excellence, and none more so than the Tredinnock herd, the property of Mr. Robt. Reford, of Montreal. The farm lies close to the station at Ste. Anne de Bellevue, on the main line of the G. T. R., 20 miles west of Montreal. Connection is also made at Ste. Anne with the C. P. R. This model farm is under the management of Mr. James Boden, who was born and reared in Avrshire, and, consequently, from childhood has has been associated with this favorite dairy breed of cattle, and, naving a natural innate love for his native cattle, has thoroughly mastered their peculiarities, and as a judge of what constitutes typical dairy form in this breed, has few equals and no superiors. The herd is made up of 70 head, all either imported direct by Mr. Boden or bred from imported stock, and it is a sight worth going miles to see-the long rows of beautiful, deep-bodied, sleek animals, with their large even udders, with the breeding of each animal placed under glass over their heads, and the floors kept scrupulously clean. The stock bulls are: Lord Dudley of Drumsuie (imp.), by Brownchief of Drumsuie. Lord Dudley is a massive, typically-formed bull, weighing 2,000 lbs., and winner of first and sweepstakes at Toronto and Ottawa in 1901. Last fall, owing to his getting a little sour on strangers, he was not shown. The other stock bull is that grand old noted sire, Glencairn 3rd (imp.), a bull second to nothing ever imported as a sire of winners. In and September calves, all by Lord Dudley, and out of such grand cows as Betsy 1st of Fairfield Mains (imp.), winner of first at Buffalo in milk test and second at Toronto (last fall; Bluebell of Hillhouse (imp.), a Scottish champion milk record 60 lbs. a day; Jessie of Ste. Annes by Imp. Glencairn 3rd, whose test shows a percentage of 5% butter-fat, Molina of Ste. Annes by Imp. Glencairn 3rd, winner of second at Foronto, '02; Kirsty Wallace of Auchenbrain (imp.). milk record 66 lbs. a day, testing 4.0 per cent., and winner of second place in the milk test at Buffalo; Lady Grace of Ste. Annes by Glencairn 3rd, winner of first at Toronto, '02, in the threeyear-old class, with a butter-fat test of 3.30 per cent.; Polly of Mechlin (imp.), with a test of 4.30 per ent.; Stately 1st of Balmangan (imp.); Lily 1st of Barcheskie 'cimp.), winner of 17 first prizes in Scotland. Indeed, the whole herd shows an equally high test of butter-fat and milk records. At present, there are for sale eight yearling heifers, out of imported cows and sired by imported bulls, as choice a lot as the breed produces, and eight heifer calves, besides a number of older ones. In fact, there are very few animals in this herd reserved, so that if it is a show animal, a producer, or a combination of both that is them Write Mr. James Boden for prices, etc., to Ste. Anne de Bellevue

One imported and one Canadian-bred bull. A few cows and heifers.

THOS. RUSSELL. EXETER ONT. Orchard Hill Shorthorns. I am now offering 13 heifers from six months to two years, 4 bulls from 10 to 13 months old, and 7 very heavy milking cows. Here is a rare chance to get stocked with pure-bred cattle at reasonable terms. A. Johnston, Vandelear P. O., Markdale Sta.

# SHORTHORNS.

THORNHILL HERD. ESTABLISHED 27 YEARS.

Imp. Royal Member and Sailor Champion now at nead of herd, which are all bred on straight Scotch lines, and are of the up-to-date kind. Present offering: some choice young bulls.

REDMOND BROS.. Millbrook Sta. and P O. BONNIE 40 rods north of Stouffville station,

offers Scotch Shorthorns; choice BURN Shropshires and Berkshires from imported and Canadian bred sows. STOCK All at farmers' prices. Inspection FARM. invited. D. H. RUSNELL, STOUFFVILLE, ONT.

SCOTCH SHORTHORNS. Urys, Stamfords and Matchlesses. Young, vigorous females, all ages, for sale. Shropshire sheep and Yorkshire pigs. ROBT. BATTY. -om Glenbournie Farm. Meaford P. O. & Sta. Yorkshire pigs. Ro Glenbournie Farm.

FOR Sale Some choice young YORKSHIRES (H-lywell strain) of both sexes and different ages; also young Shorthorn bulls, sired by British Hope (30946). Price moderate. Write: C. & J. CARRUTHERS, om Cobourg Station and P. O. Ont.

I GUARANTEE A \$5.00 PACKAGE OF BARREN KOW CURE postpaid, to make any cow under 10 years old breed, or refund money. Notrouble, no risk. Given in feed L. F Selleck Druggist. Morrisburg Ont.

SUNNYLEA FARM. For sale: Jerseys—6 yearling bulls; females sows, different ages. Shropshire sheep—rams and ewes of good breeding. Prices reasonable. H. E. WILLIAMS. Knowlton. PO.

# ERSEY

The richly-bred two-year-old Jersey bull, "Pride of Norval," solid color, black points, torgue and switch, quiet and well broken to tread-power, and sure stock-getter. Dam tested 17 lbs. 5 ozs. butter in 7 days. For prices write. 7 days. For prices write

W. C. SHEARER, BRIGHT, ONT.

# ERSEYS:

Present offering: Two bulls, 8 months old; solid color; choice animals; sired by Nero of Glen Rouge, and out of deep-milking daws. E. B. HINMAN & SONS, GRAFTON, ONT.

Best Jersey Bulls

# AT LOWEST PRICES.

Owing to the large sale of registered Jersey cows, all in milk (18 head), that I have just made, I offer several bull calves, of unsurpassed breeding and from tested dams, at prices that will surprise purchasers. This, because the sale of so many cows in profit leaves me short of milk for the present. Also some choice beifers in calf

Mrs E. M. Jones, Brockville, Ont.

DO YOU WANT A SNAP? Jersey cows and heiters, also two young bulls, at low prices, from prizewinning stock. Write for W. W. EVERITT, Dun-edin Park Farm, CHATHAM, ONT.

# Jersey Bull

Out of tested show cows and sired by Bran pten's Monarch (imp.). As we have the largest herd of pure-bred Jerseys in Canada, we are able to offer great choice. Come and see or write for what you want.

B. H. BULL & SON,

C.P.R. and G.T.R. stations.

Brampton, Ont.

4 HOLSTEIN BULLS 4 FOR SALE: From 4 to 7 months old, having sires in their pedigrees from such strains as Inka, Netherland, Royal Aaggie, and Tritonia Prince, and out of imported females that have proven their worth at the pail. THOS. B. CARLAW & SON, om

JERSEYS, COTSWOLDS, YORKSHIRFS.

Registered Jersey cattle, Cotswold sheep and Yorkshire pigs for sale. A few nice heifere, 6 most to 2 years, and 1 yearling bull, by Count of Pine Ridge, grandson of Adelaide of St. Lambert, record 84 lbs. milk daily, om WM WILLIS, NRWMARKET, ONT.

Vaple Park Farm Holsteins. Netherland De Kol (Imp.), stock bull. Stock of all ages for sale from the great De Kol Pietertje Clothilde and Barrington strains. Home of the great cows, Edgeley Mol, milk record 104 lbs in 24 hours; Emery Beauty, the great public test winner, and many others with heavy records. SIDNEY MACKLIN, on Streetsville P. O. and station C. P. R. Streetsville P. O. and station, C. P. R.

Ridgedale Farm Holstein-Friesians for Sale. 2 yearling bulls; also bull and heifer calves; all of choice breeding. Prices always reasonable. Write, or come and see them., R. W. WALKER, Utica P. O. Shipping stations: Port Perry, G. T. R.; Myrtle, C.P.R. om

ed

DNT.

ring 13 months ld, and

ance to

ale Sta.

now at Scotch resent

P 0.

station, ; choice es from ed sows.

spection

ONT.

NS.

vigorous eep and

& Sta.

HIRES

exes and northorn noderate.

), Ont.

E OF

JRE

ld breed, en in feed

eg. Ont.

females

oars and

n. P O.

l, "Pride rgue and ower, and butter in

r, ONT.

**S**:

ro of Glen

N. ONT.

ulls

ed Jersey have just surpassed rices that cause the me short he choice

e, Ont.

NAP?

g bulls, at Write for

HAM. ONT.

Bran ptcn's est herd cf he to offer r what you

oton, Ont.

LB 4

ring sires in ka, Netherand out of ir worth at SON,

KSHIRFS.

sheep and ifers, 6 mos, unt of Pine, hert, record MARKET. ONT.

Netherland Hamming ages for sale de and Bar-ws, Edgeley

urs; Emery , and many MACKLIN, on, C. P. R.

s for Sale.

calves; all of able. Write, **KER**, **Utica** 

ry, G. T. R.;

-om

om

R.B.

all.

Few People Know How Useful it is in Preserving Health and Beauty.

Nearly everybody knows that charcoal is the safest and most efficient disinfectant and purifier in nature, but few realize its value when taken into the human system for the same cleansing

fectant and purifier in nature, but few realize its value when taken into the human system for the same cleansing purpose.

Charcoal is a remedy that the more you take of it the better; it is not a drug at all, but simply absorbs the gases and impurities always present in the stomach and intestines, and carries them out of the system.

Charcoal sweetens the breath after amoking, drinking, or after eating onions and other odorous vegetables.

Charcoal effectually clears and improves the complexion, it whitens the teeth, and further acts as a natural and eminently safe cathartic.

It absorbs the injurious gases which collect in the stomach and bowels; it disinfects the mouth and throat from the poison of catarrh.

All druggists sell charcoal in one form or another, but probably the best charcoal, and the most for the money, is in Stuart's Absorbent Lozenges. They are composed of the finest powdered willow charcoal and other harmless antiseptics in tablet form, or rather in the form of large, pleasant tasting lozenges, the charcoal being mixed with honey.

The daily use of these lozenges will soon tell in a much improved condition of the general health, better complexion, sweeter breath, and purer blood; and the beauty of it is, that no possible harm can result from their continued use, but, on the contrary, great benefit.

A Buffalo physician, in speaking of the benefits of charcoal, says: "I advise Stuart's Absorbent Lozenges to all patients suffering from gas in stomach and bowels, and to clear the complexion and purify the breath, mouth and throat. I also believe the liver is greatly benefited by the daily use of them. They cost but twenty-five cents a box at drug stores, and although in some sense a patent preparation, yet I believe I get, more and better charcoal in Stuart's Absorbent Lozenges than in any of the ordinary charcoal tablets."—Adv.

We are offering for sale: 2 three-year-olds, 4 two-year-olds and several younger heiters. Also a few young bulls, out of record cows and by our grand stock bull; in fact, we will sell anything in the herd.

BROWN BROS., Lyn P. O. and Station.

# **Brookbank Holsteins**

16 to 25 lbs. of butter in 7 days' official test are the records of this herd of Holstein cows. Heifers of equivalent records. Bulls for sale whose sires and dams are in the Advanced Registry, with large official butter records.

GEO. RICE, Currie's Crossing, Ontario. OXFORD COUNTY.

HOLSTEINS, TAMWORTHS, GOTSWOLDS. Present offering: Young boars and sows fit to breed, and younger ones. Choice animals. Ram and ewe lambs and two 2-shear rams. Perfect covering. o B. O. Morrow, Hilton Ont., Brighton Stn.

# SPRING BROOK STOCK FARM



Am offering a 12-months, richly-bred DeKol bull; 2 heifers (9 months), and 3 cows. Also a choice lot of Tamworths of dif-ferent ages. Write at once for prices.

A. C. HALLMAN, BRESLAU, ONT. Waterloo Co.

# liverside Holsteins

8-BULLS FOR SALE-8 from 3 to 10 months old, sired by Victor DeKol Pietertje and Johanna Rue 4th Lad. These young bulls are from Advanced Record of Merit stock. MATT. RICHARDSON & SON, Haldimand Co. o Caledonia, Ont.

Menie Stock Farm Choice young AYRSHIRE bulls and heifer calves, from 2 to 9 months old. Also cows and heifers all ages. Write WM. STEWART & SON, Menie, Ont.

FOR SALE

High-class IMPORTED AND AYRSHIRES,

including cows, heifers and young bulls out of our prize and sweepstakes cows. Foundation selected with due regard to quality and pro-ductiveness. Come or write.

WM. WYLIE, - HOWICK, QUEBEC.

High-Class Ayrshire Cattle

FOR SALE: Both sexes; bulls and heifer calves from 2 to 9 months old; cows and heifers all ages. Famous prizwinners bred from this herd, including Tom Brown and White Floss, sweepstakes prizewinners at Chicago. DAVID BENNING & SON, "Glenhurst." Williamstown, Ont.

GOSSIP.

From the corner of Notre beine and McGill streets, in the city of Montreal. per street car, a thirty-minute ride lands the visitor within one mile of the beautiful and modernly equipped farm of Mr. W. Watson Ogilvie, opposite Lachine Rapids, where, under the skillful management of Mr. Robert Hunter, are to be seen what is perhaps the choicest lot of imported Ayrshire cattle on the continent. All told, there are seventyfour head in the barns at the present time, representing the aged and young herd winners at Toronto, Ottawa and London in 1900, and the Pan-American in 1901, while in 1902 they won all the herd prizes, medals, sweepstakes and diplomas, with one exception, at Toronto, Ottawa and London. This noted herd was established in 1898 by the importation of 25 head, selected with great care by Mr. Hunter, from the leading herds of Scotland. Again, in 1900, a second importation, of 20 head, was made, and this coming summer it is the intention, all being well, to make another :mportation. As milk producers, the whole herd, including heifers, average 50 lbs. a day each, the majority of them having records of 60 lbs. a day; while Mayflower 2nd of Drumside has a milk record of 75 lbs. a day, testing 4 per cent. of butter-fat. Minnie of Lessnessock, sweepstakes female at Toronto, 1902, has a milk record of 72 lbs. a day, testing 3.90 per cent. Tempest of Knockdown has a milk record of 40 lbs. a day, but her test is 6 per cent. Marjory of Gateside gives 50 ibs. of milk a day, which tests 5 per cent. The main stock bull is Imp. Douglasdale, champion at Buffalo, Toronto, London and Ottawa. His lieutenant in service is Imp. Black Prince, winner of 3rd at Toronto and Ottawa, and second at London last fall. The four heifers that won first prize last fall, the get of one bull, were sired by Comrade of Garlaff (imp.). For sale, there are a few young bulls and females of all ages.

One mile from Danville station, in the Province of Quebec, lies Netherlea Dairy Stock Farm, the property of sir T. D. McCallum, breeder of high-class Ayrshire cattle, Shropshire sheep, Yorkshire hogs, and collie dogs. The Ayrshires number 45 head of hig. wellformed, heavy-milking animals, the whole herd of working cows ranging from 40 to 60 lbs. of milk a day, at the head of which is that wonderfully successful sire, Imp. Napoleon of Auchenbrain, whose dam has a milk record of 72 lbs. a day The bulk of the herd is the get of those well-known bulls, Matchless, & son of Imp. Glencairn 3rd and Nellie Osborne, and Imp. Baron Renfrew. This herd was founded 25 years ago, and has always been kept up to the standard. At present, a number of them are out of imported dams, and, as a herd, their tests average the grand showing of 4.90 per cent. of butter-fat. Among the younger bulls we were shown was (ne yearling that captured the red ticket at all the local shows, and a rare good youngster he is. All told, there are for sale three young bulls, fit for service, and a number of jemales of various ages. The Shropshires are all imported, being a smooth, even ice, with the best of covering. Last year's lambs are all sired by an imported ram. They show the true characteristics of the modern Shropshire, covered from the ground up. There are, for sale a few of

The Yorkshires all belong to the O. L. foundation, and the Berkshires to Snell foundation. They are representative of the two breeds, and for sale here are a number of both breeds, both sexes, all ages. The main breeding bitch of the collies is Perfection Queen, by that great dog, Perfection, that sold for 105 guineas. There is a five-months-old bitch out of her, by Imp Rosenath, the sweetest type of coffie the writer ever saw. At present, the young stock of collies is all sold.

both sexes.

# **AYRSHIRES**

WATSON OGILVIE. PROPRIETOR.



Ogilvie's Ayrshires won the herd and young herd prizes at Toronto, London and Ottawa in 1900; also at the Pan-American, in 1901, and in 1902 they won all the herd prizes and medals, sweepstakes and diplomas, with one exception. The cows are all imported, and were carefully selected for strength and constitution, style, size of teats, and milk (quantity and quality). The herd is headed by Douglasdale (imp.), champion at the Pan-American and at Ottawa, Toronto and London, in 1902, ably assisted by Plack Prince (imp.), Stack imported and home-bred for sale at all times. Black Prince (imp.). Stock, imported and home-bred, for sale at all times.

# ROBERT HUNTER, Manager.

Near Montreal. One mile from electric cars. Lachine Rapids, P. Q.

### GUERNSEYS A YRSHIRES AND

of all ages for sale. Superior breeding, deep milking strain. A few very choice heifers, 1 year and under, from imported and home-bred dams. Prices reasonable.

ISALEIGH GRANGE FARM, DANVILLE, QUEBEC.

Homecroft Stock and Dairy. Ayrshires, Chester Whites, B. P. Rocks, Write us for best young bull in Canada. Some A I bull calves; also some beauties for young sows. See that you look up our chickens J. F. PARSONS & SONS, BARNSTON, QUE.

Springhill Farm Ayrshires.

FOR SALE One bull 16 months old, three bulls 7 months old, all from imported sire and deep-milking dams. Females, all ages.

Robt. Hunter & Sons, Maxville, Ont. DAVID A. McFARLANE, KELSO, P. Q. Breeder of high-class

AYRSHIRES. Young stock for sale from imported and home-bred foundation. Prices reasonable.

Springburn Ayrshires. We are making a special offering of five bulls, from 9 to 12 mos. old, bred by Lord Minto 10133, and out of producing dams. A grand, typical lot Write quick, as we are selling cheap.

H. J. WHITTAKER & SONS, North Williamsburg P. O.

# Maple Cliff Dairy and Stock Farm

BREEDERS OF

AYRSHIRE CATTLE, BERKSHIRE and TAMWORTH PIGS,

Cattle of both sexes in single or carload lots. Pigs both sexes, pairs not akin.
Farm adjoins Central R. REID & CO.,
Experimental Farm. o Hintonburg, Ont.

# AYRSHIRE CATTLE

SHROPSHIRE SHEEP, B. P. ROCK FOWL and 20 YOUNG LARGE ENGLISH BERKSHIRES FOR SALE. J. YUILL & SONS, om Carleton Place. Ont.

# CHOICE AYRSHIRES

A first-class light-colored, Aug., 1901, bull. Two April, 1902. bull calves.
One 4th prize winner at Toronto, 1902, light colored.
Others spotted, dark red and white.

Two Aug., 1902, bull calves. All from imported stock Write us before buying. ALEX. HUME & CO., Menie P. O., Ont.

# HIGH-CLASS AYRSHIRES

At "Live and Let Live" Prices. Two bulls fit for service; one February and three March, 1902, bulls, and a number of young bull calves; also heifers bred lately, and younger.

W. W. BALLANTYNE, Stratford, Ont. Neidpath Farm-adjoins city, main line G. T. R.

CHOICE AYRSHIRES. Present offering: 4 bulls, from 1 to 2 years old, by choice sires, and out of producing dams, and A individuals.

N. DYMENT, Clappison P. O., Dundas Sta-

NETHERLEA AYRSHIRES Present offering: 3 bulls fit for service, prize-winners; also a few young females, sired by Napoleon of Auchenbrain (imp.), whose dam's record was 72 lbs. a day, and all of them out of record cows. T. D. McCALLUM, om Danville P. O. and Station, Quebec.

# Tredinnock Ayrshires. Imported bulls at head of herd: Glencairn 3rd,

Napoleon of Auchenbrain, and Lord Dudley. Forty imported females, selected from leading Scotch herds, and their produce from above-named bulls herds, and their produce from above-named build Size combined with quality and style, well-formed udders, good-sized teats, and capacity for large milh production. Bull calves for sale; also a few young cows and heifers. For prices and particulars address

JAMES BODEN, Mgr.,

St. Anne de Bellevue,
Farm close to St. Anne Station, Quebec.
G.T.R. & C.P.R., 20 miles west of Montreal, om

SUNNYSIDE AYRSHIRES. Our present offering is 10 heifers, from 10 mos. to 2 years of age; 1 bull, 6 mos. old, and 8 young cows—a rare good, straight-lined lot, and will be sold right. o J.W. LOGAN, Allan's Corners P.O., Howick Sta., Que.

STOCKWOOD AYRSHIRES. Our herd now numbers 40 head of all ages, with milk records from 40 lbs. a day up. Stock of both sexes for sale Bulls a specialty.

WATT BROS., Allan's Corners P. O. St. Louis Sta., near Howick, Que.

IF YOU WANT A HOLSTEIN BULL, bred from producers, and that is again capable of siring producers, at a living price, write

H. BOLLERT Cassel, Ont

AYRSHIRES AND YORKSHIRES. My Ayrshires are all bred from imported stock; Yorkshires from Mr. D. C. Flatt's imported stock. Choice young animals for sale.

James McCormick, Sr., Rockton, Ontario.

W. F. STEPHEN, Trout River, Que., breeder choice bull calves for sale at reasonable prices; sired by Klondike of St. Annes 8897, and from deep milkers with good udder and teats. Carr's Crossing, 1 mile, G. T. R.; Huntingdon, 5 miles, S. L. & A. R. o

EUROPEAN ADVERTISEMENTS.

# English Shorthorns.

Booth and Bates Shorthorns, topped with Cruick-chank bulls. Young cows, bulls and heifers always on hand for sale. Eligible for the American herd-book. Royal and Highland prizewinners included for the last two yourselast year and this, WM. BELL, for the last two years. Close on \$400 won in primes

Ratcheugh Farm, Alnwick, Northumberland, Eng.

# W. W. CHAPMAN,

Secretary of the National Sheep Breeders' Association,

Secretary of the Kent or Romney Marsh Sheep Breeders' Association,

and late Secretary of the Southdown Sheep Society.

Pedigree Live Stock Agent, Exporter and Shipper. All kinds of registered stock personally selected and exported on commission; quotations given, and all enquiries answered.

Address: FITZALAN HOUSE, ARUNDEL ST., STRAND, LONDON W. W.

Cables-Sheepcote. London.

FAMOUS ALL OVER THE WORLD ALFRED MANSELL & CO.,

CIVE STOOK AGENTS AND EXPORTERS, SHREWSBURY. BRITISH STOCK selected and shipped to all parts

of the world. Write for prices to ALFRED MAN-SELL & CO., Shrewsbury, England, or to our Ameri-can representative, Robert Miller, Stouffville, Ont.,

### Robert W. Hobbs, Kelmscott, Lechlade, England.

One of the largest flocks in Oxford Down Flockbook. Numerous prizes obtained for ram lambs at principal shows. Rams and ewes always on sale.

JOHN BRYAN & SON, Southleigh, Witney, Oxon. — One of the oldest registered flocks of pure-bred Oxford Downs. Annual sale of rams. Oxford ram fair. Rams and ewes for sale at home. Inspection invited.

One of the oldest and best of the English breeds for quality with size, hardiness, and milking properties. Suitable for all climates.

Annual Sales: February and October

JOHN RISDON, SECRETARY,

Wiveliscombe, Somerset, England.

### KNOWS NO DISTINCTION

Rich and Poor Alike Suffer from Catarrh in this Climate.

All observant physicians have noticed the enormous increase in catarrhal diseases in recent years, and the most liberal and enlightened have cheerfully given their approval to the new internal remedy, Stuart's Catarrh Tablets, as the most successful and by far the safest remedy for catarrh yet produced.

One well-known catarrh specialist, as soon as he had made a thorough test of this preparation, discarded inhalers, washes and sprays, and now depends entirely upon Stuart's Catarrh Tablets in treating catarrh, whether in the head,

throat or stomach.

Dr. Risdell says: "In patients who had lost the sense of smell entirely, and even where the hearing has begun to be affected from catarrh, I have had fine results after only a few weeks' use of Stuart's Catarrh Tablets. I can only exlain their action on the theory that the cleansing and antiseptic properties of the tablets destroy the catarrhal germs wherever found, because I have found the tablets equally valuable in catarrh of the throat and stomach as in nasal catarrh."

Dr. Estabrook says, "Stuart's Catarrh Tablets are especially useful in nasal catarrh and catarrh of the throat, clearing the membranes of mucus and speedily overcoming the hawking, coughing and expectorating."

Any sufferer from catarrh will find Stuart's Catarrh Tablets will give immediate relief, and being in tablet form and pleasant to the taste, are convenient and always ready for use, as they can be carried in the pocket and used at any time, as they contain no poisonous drugs, but only the cleansing, antiseptic properties of Eucalyptus bark, Bloodroot and Hydrastin.

All druggists sell the tablets at fifty cents for complete treatment.



PREPARED FROM AROMATIC HERBS

No duty-purely Canadian. Increases the production of milk, flesh and eggs. As an aromatic for horses, it is perfection.

Sample 3-lb. package, 30 cents. 50 lbs., \$3.00; 100 lbs., \$5.00.

Ask your dealer, or write

The Day's Stock Food Co., Toronto, Can.

# Family Knitter



Cheapest, Simplest, Best. Price \$8.00.

Att Write for circular. Tha

**Dundas Knitting Machine Company**, om DUNDAS, ONTARIO.

# GARGET,

Lump Jaw, Big Knee, in fact, any inflamed, & caked or soft bunch. also strained joints, cured with



Relieves Rheumatism and Gout in Mankind. \$2.00 per bottle delivered, or at regular dealers. 25 cents for sample bottle. Pamphlets free.

W. F. YOUNG, P.D. F., Springfield, Mass. LYMAN, SONS & CO., Montreal, Agents for Canada.



PLEASE MENTION FARMER'S ADVOCATE.

### GOSSIP.

Frank Rockefeller, of Belvidere, Kanhas presented the Kansas State Agricultural College with the best Hereford bull calf he could select from his herd. The calf is sired by Columbus 17th, the second-prize bull at the late International Exposition. This is another instance of the philanthropic attitude of the American farmers toward their agricultural colleges.

Mr. A. B. Armstrong, breeder of Yorkshire pigs, White Wyandotte fowls and collie dogs, has changed his address from Codrington to Warkworth, Ont., and in ordering a change of advertisement, he writes: "I have disposed of all of my fowls except White Wyandottes, which variety, after testing them all, I have found par excellence the farmer's fowl, filling the requirements of the farmer, the fancier, the broiler raiser, and the egg buyer rather better than any of the other varieties. We have a nice flock of pure, stay-white birds, and will keep them exclusively. Our pen is headed by an imported cock of No. 1 quality, and he has proven to be a very strong breeder. We are booking orders for eggs for hatching for spring trade. We expect some very fine collie pups in the near future, and are getting many enquiries for same. Yorkskires continue to receive our careful attention, and judging from the letters from our customers we are giving universal satis-

Ingleside Herefords is a name well known among lovers of the white-faced beefers all over America. Fourteen years ago Mr. H. D. Smith, the present owner, established what has since been known as the Ingleside herd on his farm at Compton, Quebec, and from their superior excellence individually and wonderful success in the show-ring have become noted, and are universally recognized as the banner herd of Canada. Ingleside farm lies about 21 miles from Compton station, and 114 miles east of Montreal. This splendid farm, which comprises 950 acres of rich, arable land, is, no doubt, the best equipped stock farm in Canada. The stables are commodious, the plan perfect for feeding and cleaning, a complete waterworks system permeates all the buildings, the windows are large and plenty of them, the ventilation adopted is the most modern, the whole of the buildings are lighted by electricity generated from the powerhouse on the farm, which also supplies the power for all the farm work, such as grinding and cutting feed, sawing wood, pulping roots, threshing, etc. The herd at present numbers 160 head, and represents the get of such noted bulls as Ancient Briton, Anxiety, Anxiety 3rd and 4th, Bourton, Bradwardine, Cassio, Corrector, Hartington, Kodac of Rockland, Launcelot, Lord Wilton, Rupert, Silurian, Sir Horace, The Grove 3rd, Fushingham, Viscount Wilton and Mark Hanna. A great many of the females in he herd are imported, and about every two years, in order to infuse new blood in the herd and, where possible, improve the standard and quality, fresh importations are made. The present main stock bull is the massive, 2,300-pound, prizewinning bull, Prince Ingleside 2nd, a son of the great bull, Sir Horace. Second in service is Bourton Ingleside, a vearling, sired by Mark Hanna, a son of Lureka; dam Lady Bountiful, by the great bull, Bourton, the sire of Ancient Briton, the sweepstakes winner at Chicago in 1893. For sale there are four young bulls, sired by Mark Hanna, and three of them out of imported dams. There are also the bulk of them sired by Mark Hanna, among which we noticed Downtown, Ingleside 3rd, a half-sister to the sweepstake winner last fall; a two-year-old and a yearling, daughters of Sylvan 7th of Ingleside, by Mark Hanna. This pair have few equals, being wonderfully perfect in their form. For the last seven years this herd has won the lion's share, and a big share, too, of all the prizes at the leading shows in Canada They Mr Fred Norton, and what he does not Low about fitting up a Hereford to show at its best is bardly worth know-

# HERD OF— Large English Yorkshires.

HEADQUARTERS FOR THE IDEAL BACON HOG.

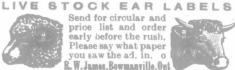


Our winnings at the large shows, for 1901, are as follows: At Toronto every possible first prize and Our winnings at the large shows, for 1901, are as follows: At Toronto every possible first prize and five seconds, two silver medals, and first for pen of pure-bred bacon hogs, also sweepstakes on bacon hogs over all breeds; at London every possible first but two; while at the Pan-American, where our herd was divided, half going to Toronto, we won six out of ten possible firsts, also sweepstakes on boar any age. At the Pan-American (Buffalo), Toronto and London there were thirty-six first premiums and medals given: all the medals and every first prize but six won by the Summer Hill Yorkshires. When in need of the best write D. C. FLATT & SON, MILLGROVE, ONT. om Telephone: Millgrove, Ont.

# HILLCREST HERD OF My brood sows are imported or show animals, and the sires are big, long fellows of the bacon type. For sale: An excellent lot of young pigs, and a few

young sows recently bred. Can supply pairs not akin. Enquiries promptly answered. Vine station. G.T.R.—near Barrie. Jno. Lahmer, Vine, Ont.

and we will show you how to make \$3 aday furnish the work and teach you free; you work in here you live. Send us your address and we will ssiness fully; remember we guarantee a clear pro-ery day's work, absolutely says. IMPERIAL SILVERWARE CO., Box 508, WINDSOR, ONT.



PENNABANK STOCK FARM. Twenty-five ram lambs; a few ewe lambs and shear-lings with Imp. Williams or Knox-bred sires; 1 good two-shear ram. Four fine young Shorthorn bulls. Hugh Pugh, Whitevale, Ont.

Dorsets & Chesters Young stock in Dorset Sheep and Chester White Hogs of good quality for sale, reasonable. R. H. HARDING, THORNDALE, ONT.

" MAPLEVIEW FARM."

FOR SALE, AT MAPLE AVENUE STOCK FARM, CHOICE Lincoln Sheep
Bred from best
English stock.

Shorthorn Cattle
Bred from Scotch bulls
of fashionable families.

CAN SUPPLY EITHER IN CARLOAD LOTS. Write us before buying elsewhere. Address: F. H. NEIL, Proprietor, LUCAN, ONT. Box 35. Telegraph and Railway Station. -om

### FAIRFIELD LINCOLNS Imported ewes and lambs. Can supply

show flocks. J. H. PATRICK, ILDERTON, ONT., CAN

PRIZEWINNING COTSWOLDS.

BROOKS & LANGMAID, COURTICE, ONT.

# American Leicester Breeders ASSOCIATION.

A. W. Smith, Pres., Maple Lodge, Ont.

Pedigrees now being received for Vol. 4. For information, blanks, etc., address

A. J. TEMPLE, SEC., CAMERON, ILL. U. S. A.

W. S. CARPENTER, "MODEL FARM," SIMCOE, ONT. Importer and breeder of Shropshire sheep. My flock was represented at Toronto, and won first on shearling ram, first and second on aged ewes, and second on the pen. First time exhibiting. If in need of a first-class yearling ram, imported or homebred, write! Your wants can be supplied, and at prices consistent with quality. Have a choice lot to choose from, and can guarantee satisfaction. Come and see them, or a card will bring them.

Station One-half Mile from Farm, Wabash and G. T. R.

SHROPSHIRES FOR SALE. — Shearling rams, ram lambs, ewe. lambs, also, shearling and older ewes, about 50 head all told. All registered or eligible. Low-set, well covered, in fine condition and form. Sires from Campbell and Dryden flocks.

MALCOLM MCDOUGALL, Tiverton, Ont.

SHROPSHIRES

One well-covered yearling ram, with good bone, from imported Mansell ram, and four home-bred ram lambs. Write for prices o ROWAT BROS.. HILLSDALE, ONT. This season I am offering for sale

SHROPSHIRE lambs of both sexes. Also shearling ewes and 2 shearling rams. Prices right and quality guaranteed. o GEO. HINDMARSH, Allsa Craig, Ont.

Send us your address LINDEN OXFORDS at Toronto, 1902, won 1st open pen; 1st and 2nd Canadian pen; 1st and 2nd aged, yearling and ram lambs; 1st, 2nd and 3rd yearling ewes and ewe 1 mbs. All these ewes retained in flock and the best rams.

B. J. HINE, Dutton, Ont.

Oxford Down Sheep at a bargain. Having decided to give up farming in the spring, I will sell for the next 30 days, at reduced prices, 4 imported ewes and 1 imp. ram; also ram and ewe lambs, and a few ewes from 1 to 6 years old. old. -o SMITH EVANS, Gourock, Ont.

40 Superior Oxford Ewes for Sale: From one to three years. Bred to "Bryan 125" and "Hampton Hero," both imported. One hundred strong and hearty ram and ewe lambs. Prices reasonable. Also, Shorthorn bull calf and two heifer calves. Good animals.

Guelph—G. T. R. "Farnham Farm," o Arkell P.O., Ont.

Newcastle Herd of Tamworth Swine Have for a number of years taken a share of the best prizes offered at Toronto Exhibition, but this year has excelled all past records, having taken the sweep-stakes for the best herd; also both silver medals for stakes for the best herd; also both silver medals for best Tamworth boar and best Tamworth sow, besides many other prizes in the various classes. Our present offerings are: Several young sows, bred and just ready to breed; also a lot of beautiful young pigs of both sexes, 2 to 4 months old, all descendants of our sweepstakes stock. Pairs supplied not akin. Also sow 15 months old, in pig. Enquiries premptly answered.

COLWILL BROS., NEWCASTLE, ONT.



all the leading fairs. ELGIN F. PARK, om Box 21, Burgessville, Ontario, Canada.

IMP. COTSWOLD SHEEP

Five rams (year-olds), both sires and dams imp.; 10 ewes (year-olds), sire imp. Also this year's lambs, both sexes; Yorkshire and Tamworth hogs.

BROOKS & LANGMAID, COURTICE.

PINE GROVE FARM HERD of LARGE ENGLISH YORKSHIRES.

The oldest-established registered herd in America. We have 12 imported boars and sows and 20 home-bred animals breeding, and have a limited number of young boars and sows for sale, suitable for this fall's breeding. Satisfaction guaranteed in all mail orders.

Joseph Featherston & Son, Streetsville Station, C.P.B., and P.O. and Telegraph.
Glarkson Station, G.T.B.

# R. BOWMAN MT. FOREST, ONT.,

is offering Yorkshire sows, in farrow, at \$15 to \$20 sired by 2nd-prize boar at Toronto. Suffolk Down sired by 2nd-prize boar at Toronto. Suffolk Down rams and ewes, bred close to imported stock, at \$10 to \$15 Two Polled Angus bulls at \$75.

GLENBURN YORKSHIRES won Gold Medal at averages 100, headed by the choice boars, Oak Lodge Prior and Pine Grove Squire. Twenty brood sows, six-months sows, due to farrow March and April; 40 sows and boars, four weeks to three months old; DAVID BARR, Jr

Sows safe in pig, boars fit for service, sows ready to breed, boars and sows 2 and 4 months old. Satisfaction guaranteed in orders received by mail. JAS. A. RUSSELL, Precious Corners. Ont.

# YORKSHIRES and W. WYANDOTTES

We can supply customers with choice York-shires of all ages. We breed White Wyandottes exclusively, and are offering eggs for hatching. Also choice collie pups. A.B. ARMSTRONG, (Formerly Codrington.) b Warkworth, Ont

ED 1866

bacon hoge r herd was

ny age. At lis given: all of the best grove, Ont.

nimals, and bacon type. and a few y pairs not ine station,

line, Ont.

RDS d 2nd Cana-ram lambs;

ams. o

laving de-farming in at reduced ; also ram to 6 years ock. Ont.

r Sale:

n 125" and e hundred Prices rea-

two heifer

rm,"

Swine

of the best this year

the sweep-medals for ow, besides

ur present

ng pigs of ants of our akin. Also

premptly

E, ONT.

d Cheste our herd

O., Ont.

HERD IRES.

herd in oars and ling, and and sows g. Satis-

son. Telegraph.

AN

15 to \$20 o'k Down ck, at \$10

Medal at 02. Herd 0ak Lodge 0od sows, nd April; nths old;

R. Jr.

es

s ready to Satisfac-

s. Ont.

OTTES

th, Ont

WILLOW LODGE BERKSHIRES

Herd headed by Long-fellow 10th of H. F., as-sisted by the noted prize-winner, Highelere Grown 3rd. Sows, the best money will buy, and are winners. Young stock of both sexes and all ages for

Chester White Hogs & Shropshire Sheep Shropshire sheep and Chester White swine. Write for prices. Mammoth Bronze turkey eggs for sale in sason. Wm. E. Wright, Glanworth P.O., Ont.

"SUNNYSIDE STOCK FARM."

sale, not akin. W. WILSON, SNELGROVE, ONT.

FOR SALE:

Best type and quality. Young stock constantly on hand. Prices right, R. HONEY, om

And, Prices right.

R. HONEY, om Brickley P. O., Instead of Warkworth.

YOKShires—For one month only I will nearly 100 pounds for \$9 each (registered), and Ontario express paid, WM. TEASDALE, om Thornhill Sta., and electric cars. Dollar P. O.

YORKSHIPES—FOR COASTANT OF STREET OF STREE

YORKSHIRES FOR SALE. Boars fit for service, sows in farrow and ready to breed, and young stock on hand. Prices reasonable. WM. HOWE, BRUCE CO.

ed Dalmeny Long Sam, for sale. Also young pigs, H. J. DAVIS.

Yorkshires and Holsteins Large English Yorkshires Langelier's Yorkshires

I am expecting, by the first steamer next spring, a few choice sows with litters. Will book orders now for young stick, 8 to 10 weeks old, to be delivered at beginning of May. This is a rare chance to buy imported stock at reasonable prices. Write me now, and ask also for the finest poultry circular published GUS. LANGELIER, Quebec City.

SPRUCE GRAVE HERD OF YORKSHIRES stock on hand. Prices reasonable.

NM. HOWE,

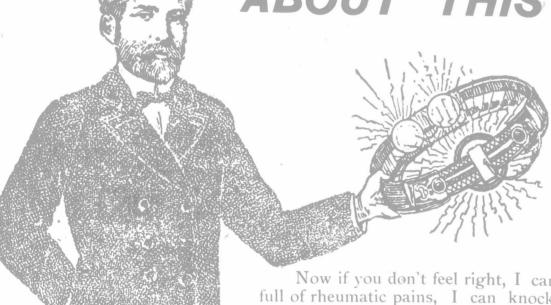
NORTH BRUCE.ONT.

Box 518

WOODSTOCK. ONT.

A number of choice young boars fit for service, sired by Summer Hill Member. Also pairs 10 weeks old, not akin. Prices right. Also young sows in pig. om FRED. C. SMITH, New Hamburg, Ont.

# I WANT TO TALK TO YOU ABOUT THIS BELT.



I want to talk to men who have pains and aches, who feel run down physically, who realize that the old "fire" and energy which were so evident in youth are absent now; men who can't stand the amount of exertion they could years ago. I want you—if that means you-to see what I have done for others who were just as badly off. That's my introduction. If a friend in whom you had confidence presented some one to you and said: "Jack; here's Brown; he has made good with me and I trust him," wouldn't you trust him, too?

Now if you don't feel right, I can cure you with my Electric Belt. If you are full of rheumatic pains, I can knock them out. I can pour oil into your joints and limber them up. I have often said that pain and electricity can't live in the same house, and I prove it every day.

Read what JAME3 CHAPMAN, 1205 Seymore St., Vancouver, B.C., writes to me:—I am stronger now than I ever was, and I have gone up in weight from 150 to 195 pounds. My health is something wonderful. I can truthfully say that I am a new man. I don't think I shall ever be tired of telling everybody what the Belt has done for me. (I might say your health re-

If it were not for the prejudice, due to the great number of fakes in the land, I would not be able to handle the business that would come to me. The "Free

Belt " fraud and the "Free Drug" scheme, which are not free at all, or the "Just as Good" Belt offered for a dollar or two, which gives no current at all, have made everyone sceptical, but I know that I have a good thing, and I'll hammer away until you know it.

One thing every man ought to know is this: Your body is a machine. It is run by the steam in your blood and nerves. When you begin to break down in any way you are out of steam. That's just what I want to give

MR: GEO. S. BROOKS. Shanty Bay, Ont., wore one of my Belts. and he says:—Your Belt is all that you claim it to be. I can recommend it to any one who is suffering from rheumatism. It has cured me of indigestion, also my kidneys, as I used to suffer a good deal from kidney trouble, and I do not feel it at all now.

I have a cure in every town. Tell me where you live and I will give you the name of a man I've cured.

Tell me your trouble, and I will tell you honestly whether I can cure you or not. If I can't cure you, I don't want your money. I have been in this business 22 years, and am the biggest man in it to-day by long odds, and I am growing yet, because I give every man all he pays for.

Now, wouldn't you rather wear my life-giving appliance while you sleep every night, and feel its glowing warmth pouring into you, and feel yourself taking on a new lease of life with each application, than to clog your intestines up with a lot of nauseous drugs? Surely! Try me.

I can show you thousands of just such letters as Philip Rodmore. 205 Pictoria avenue, Ot:awa, Ont. Read what he thinks of my Belt:—I am sixtyof age, and I think your Belt is an age renewer when worn according to directions.

I don't ask any one to buy my Belt on speculation. I don't ask you to take any chances of a failure. I take all the chances of curing you. If you are suffering from Rheumatism, Lame Back, Lumbago, Sciatica. Varicocele, Nervous Debility, Constipation, Lost Energy, resulting from exposure and excesses in young and middle-aged men, write to me. Offer me reasonable security and I will make a Man of you, and you can

# PAY WHEN CURED.

**READ WITH CARE** 

Every patient wearing Dr. McLaughlin's Electric Belt receives free, until cured. the advice of a physician who understands his case. Agents or drug stores are not allowed to sell these goods.



FREE BOOK—If you cannot call, write for my beautiful illustrated book, giving you cuts of my Belts and prices. This little book is of great value to any one; it contains a lot of useful information to men who are not what they should be; tells how strength is lost and won. I send this book closely sealed free to anyone. I have a book for women as well as men.

DR. M. S., McLAUGHLIN, 130 Yonge St., TORONTO, ONT.

OFFICE HOURS 9 A.M. TO 8.30 P.M.

THE NAME OF SENDER DOES NOT COUNT ON LISTS OF NEW SUBSCRIBERS.

EXACT SIZE OF KNIFE.

JOSEPH RODGERS & SONS



# AN A 1 FARMER'S KNIFE

Finest Steel Blades. Strong and Durable. Beautiful Nickel Handle.

Manufactured by Joseph Rodgers SHEFFIELD, ENGLAND.

# CANNOT BE DUPLICATED.

Every Farmer and Farmer's Son Should Have One of These Knives,

START OUT FOR THE NAMES TO-DAY.

# HOW TO SECURE IT.

SEND

New Subscribers New Subscribers

TO THE

FARMER'S ADVOCATE

And we will send you the knife, postpaid.

ER'S ADVOCATE" AT \$1 A YEAR.

OFFER, FOR OBTAINING NEW SUBSCRIBERS TO THE "FARM-

"CANADA'S IDEAL" Admitted by judges, breeders and artists to be the most magnificent engraving of high-class modern Shorthorns ever issued in any country. 24 x 36 inches. Twelve animals.

"CANADA'S PRIDE" Nine celebrated draft horses,

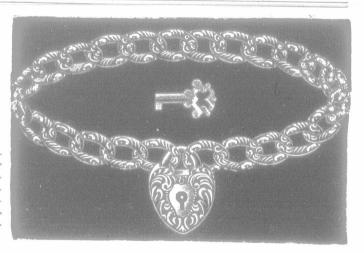
Your choice of any two of these for 1 new subscriber, or all

"CANADA'S GLORY" Eleven celebrated light horses. "CANADA'S COLUMBIAN VICTORS"

Thirteen celebrated Ayrshire cattle.

Handsome **Curb-link** Bracelet: Silver Fillea

For 2 new subscribers. Sterling silver for 3 new subscribers. For each additional new sub-scriber, two Storling Silver Friendship Hearts.



Containing the Old and New Testaments, according to the authorized version, together with new and revised helps to Bible study—a new Concordance and an Indexed Bible Atlas, with SIXTEEN FULL-PAGE ILLUSTRATIONS, PRINTED IN GOLD AND COLOR.

HOW TO OBTAIN IT Would retail at from \$3 to \$4. We will send (carefully packed, post prepaid) this Bible to anyone sending us the names of THREE NEW SUB-SCRIBERS to the FARMER'S ADVOCATE at \$1.00 each.

Our Self-Binder HANDY, DURABLE and ATTRACTIVE. Made to contain the 24 issues of the year. We will forward this Binder, postpaid, to anyone sending us the names of TWO NEW SURSCRIBERS and \$2,00.

EGIN TO CANVASS

FOR NEW SUBSCRIBERS. The balt new of 1902 will be sent FREE, including Christop, mamber, to fall who now

Subscription Price, \$1.00 per Annum. AT ONCE



Is a means of great entertainment and instruction in the home and out of doors. To meet the wishes of many subscribers, we have arranged with a first-class firm for a supply of those instruments; which we now offer: '

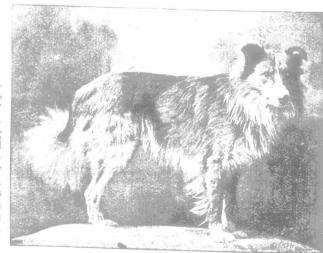
Tripod Microscope, with strong magnifying lens, useful for examining weed and other seeds, insects and other small objects, for obtaining one (1) new subscriber to the FARMER'S

HOW TO GET A

# FIRST-CLASS

# Twelve New Subscribers.

TO ANY SUBSCRIB-ER sending us the names of 12 NEW yearly paid-up Subscribers we offer a young COLLIE, six weeks old or over, eligible for registration, and bred by Mr. R. McEwen, Byron, Ont., whose stock has been so successful in the leading shows in Canada and the United States.



Write for a sample comp of the Farmer's Advocate, and begin to work for these premiums. Cash must accompany new names.



LTD., LONDON

# ARM BOOKS

The farmer's home without an Agricultural Library is lacking in one of the chief aids to pleasure and success. We have gone over the available first-class works on agricultural subjects, and have selected the best. See below for prices and how to obtain,

# SOIL AND CROP.

THE FERTILITY OF THE LAND .- Roberts. 372 pages. \$1.25. A BOOK ON SILAGE. - Woll. 185 pages. \$1.00. SOILING, ENSILAGE, AND BARN CONSTRUCTION. - F. S. Peer. 247 pages. \$1.00. SOILING CROPS AND THE SILO. -Shaw. 366 pages. \$1.50.

### LIVE STOCK.

VETERINARY ELEMENTS.—A. G. Hopkins, B. Agr., D. V. M. \$1.50. A practical book for stockmen and agricultural students. THE STUDY OF BREEDS (CATTLE, SHEEP, AND SWINE) .- Prof. Shaw. 400 pages; 60 engravings. \$1.50. HORSE BREEDING.—Sanders. 422 pages. \$1.50. LIGHT HORSES-BREEDS AND MANAGEMENT. 226 pages. \$1.00. HEAVY HORSES-BREEDS AND MANAGEMENT. 219 pages. \$1.00. Vinton CATTLE-BREEDS AND MANAGEMENT, 270 pages. \$1.00. Series. SHEEP-BREEDS AND MANAGEMENT. 232 pages. \$1.00. ANIMAL BREEDING.—Shaw. 406 pages. \$1.50. THE DOMESTIC SHEEP .- Stewart. 371 pages. \$1.75. THE SHEEP.-Rushworth. 496 pages. \$1.50. PIGS-BREEDS AND MANAGEMENT.-Sanders Spencer. 175 pages, \$1.00.

### GENERAL AGRICULTURE.

AGRICULTURE. -C. C. James. 200 pages. 30 cents. FIRST PRINCIPLES OF AGRICULTURE. - Voorhees. 207 pages. \$1.00. AGRICULTURE.—Storer. 1,875 pages, in three volumes. \$6.00. CHEMISTRY OF THE FARM. - Warington. 183 pages. \$1.00. FARMYARD MANURE. - Aikman. 65 pages. 50 cents. IRRIGATION FOR THE FARM GARDEN AND ORCHARD.—Henry Stewart. \$1.00. SUCCESSFUL FARMING .- Rennie. 300 pages. \$1.50, postpaid.

### DAIRYING.

AMERICAN DAIRYING.-H. B. Gurler. 252 pages. \$1.00. THE BOOK OF THE DAIRY .- Fleischmann. 330 pages. \$2.75. MILK AND ITS PRODUCTS .- Wing. 230 pages. \$1.00. TESTING MILK AND ITS PRODUCTS .- Farrington & Woll. 255 pages. \$1.00. DAIRYING FOR PROFIT.-Mrs. E. M. Jones. 50 cents.

# POULTRY.

FARM POULTRY.-Watson. 341 pages. \$1.25. ARTIFICIAL INCUBATING AND BROODING,-Cypher. 146 pages. 50 cents. PRACTICAL POULTRY-KEEPER.-Wright. \$2.00. AMERICAN STANDARD OF PERFECTION.-Pierce. 278 pages. \$1.00.

# APIARY.

THE HONEYBEE.—Langstroth. 521 pages. \$1.50.

nt and

out of

many

with a ose in-

strong

nining

lother

ne (1)

MER'S

FEEDS AND FEEDING .- Henry. 600 pages. \$2.00.

# FRUIT, FLOWERS, AND VEGETABLES.

VEGETABLE GARDENING.—Green. 224 pages. \$1.25. FLOWERS AND HOW TO GROW THEM. - Rexford. 175 pages. 50 cents. THE PRINCIPLES OF FRUIT-GROWING.—Bailey. 514 pages. \$1.25 BUSH FRUITS.-Card. 537 pages. \$1.50. HORTICULTURIST'S RULE BOOK - Railey SPRAYING OF PLANTS. -Lodeman. 399 pages. \$1.00. THE NURSERY BOOK.—Bailey. 365 pages; 152 illustrations. \$1.00. AMATEUR FRUIT-GROWING.—Samuel B. Green. 5x7 inches; 134 pages, with numerous fly-leaves for notes; bound in cloth, and illustrated. 50 cents.

# PLANT AND ANIMAL LIFE.

THE STORY OF THE PLANTS. - Grant Allen, 213 pages. 40 cents. THE STUDY OF ANIMAL LIFE. - J. A. Thomson. 375 pages. \$1.75. INSECTS INJURIOUS TO FRUITS.—Saunders. 436 pages. \$2.00.

**MISCELLANEOUS.** THE HOME PHYSICIAN AND CYCLOPEDIA OF MEDICINE.—By seven eminent physicians, aided by specialists. 1,300 pages; illustrated. Cloth, \$4.75; leather, \$5.75. LANDSCAPE GARDENING.-S. T. Maynard. 338 pages. \$1.50. BIRDS THAT HUNT AND ARE HUNTED .- Neltje Blanchan. 360 pages. \$2.25.

# HOW TO OBTAIN THESE BOOKS:

We will furnish present subscribers any of the above books for cash or as premiums for obtaining new yearly subscribers to the FARMER'S ADVC-CATE at \$1.00 each, according to the following scale:

We can furnish any of the above books at the regular retail price, which is given opposite the title of the book. By a careful study of the above list, any farmer can choose a select list of books suited to his needs, and for a small outlay in cash, or effort in obtaining new subscribers for the Advo-CATE, secure the nucleus of a useful library.

Cash to accompany names in every case. Subscriptions credited a year in advance from date received.

The WILLIAM WELD CO., Ltd., London, Ontario.

# WANT A GOOD WAT

E have succeeded in procuring from one of the most reliable jewelers in Canada a complete list of Gents' and Ladies' Watches of sufficient variety to suit every one, and have no hesitation in recommending them. mending them to our readers as premiums worthy of an effort to These are not by any means trashy goods, but first-class in every particular, and we assure you that you will be pleased with whatever of the above premiums you may obtain. Let us hear from you at an early date with a good list of new subscribers accompanied by the cash,

### and take your choice. Gents' Watches. Ladies' Watches. New Sub-No. 1. Yankee Nickel Watch..... No. 15. Gun Metal Swiss Chate-laine.... No. 2. Trump Nickel Watch..... No. 16. Sterling Silver Swiss Chate-No. 17. Nickel American O. F., large No. 3. Trump Gun Metal Watch ..... No. 4. No. 14 Silver Watch ..... No. 18. Gun Metal American O. F., large size..... No. 5. 7 Jeweled Gent's Elgin in 3 10 No. 19. Nickel, small size..... 7 Jeweled Gent's Elgin in Gun Metal Case..... 11 No. 20. Gun Metal, small size..... 10 7. 7 Jeweled Gent's Elgin in Sterling Silver Case.... 14 No. 21. Sterling Silver, small size... 10 7 Jeweled Gent's Elgin in 20-year Filled Case...... 18 No. 22. 7 Jeweled Elgin in 20-year Filled Hunting Case .... 20 No. 9. 7 Jeweled Gent's Elgin in 25-year Filled Case....... 21 No. 33. 7 Jeweled Elgin in 25-year Filled Hunting Case .... 22 No. 24, 15 Jeweled Elgin in 20-year Filled Hunting Case .... 23 No. 10. 15 Jeweled Gent's Elgin in 3 oz. Nickel Case...... 15 No. 11. 15 Jeweled Gent's Elgin in Gun Metal Case...... 15 No. 25. 15 Jeweled Elgin in 25-year Filled Hunting Case .... 25 No 12, 15 Jeweled Gent's Elgin in Sterling Silver Case.... 18 No. 13. 15 Jeweled Gent's Elgin in 20-year Filled Case...... 21 No. 14. 15 Jeweled Gent's Elgin in 25-year Filled Case...... 25

# Description of Watches.

The accompanying cuts fairly well represent all the Ladies' and Gents' Watches, and a description of each as numbered is as

No. 1. American Nickel Key-wind Boy's Watch that is absolutely guaranteed to keep good time and give satisfaction.

No. 2. Gent's Nickel American O. F. Watch; stem wind, and push-in stem and turn to set hands. This is a very strong,

No. 3. Same as No. 2, excepting that it has Gun Metal case instead of Nickel case.

No. 4. Is a smaller-sized Gent's Watch, has sterling silver case, O.F. Screw Back and Bezel; stem wind, and push-in stem and turn to set hands. This is the lowest-priced and most reliable Boy's or small Gent's Silver Watch that is on the market.

No. 5. Is fitted with 7-Jeweled Nickel, first-quality Elgin movement. The case is a 3-oz. O. F. Nickel case; stem wind and set; screw back

No. 6. Same movement in Gun Metal or Black

No. 7. Same movement with Sterling Silver O. F. screw back and bezel case.

Gold Filled O. F. screw back and bezel case. No. 9. Same movement in 25-year guaranteed

Gold Filled O. F. screw back and bezel case. Nos. 10, 11, 12, 13 and 14 are fitted in the same style of cases as Nos. 5, 6, 7, 8 and 9; the difference is in the movement, and the movement is

15-Jeweled Nickel, first-quality Elgin movement. No. 15. Is a small-sized Swiss O. F. Gun Metal

Chatelaine Watch. No. 16. Is the same, only with Sterling Silver case, which can be had nicely engraved.

Nos. 17 and 18 are a good-quality

American Watch, O. F. stem wind, and

push-in stem and turn to set hands. These are a little larger than the usual Ladies' Watches, and are smaller than the usual Boys' Watches, though can be used for either Boys, Girls or Young Ladies.

Nos. 19, 20 and 21 are small sized; in fact, are the exact size of cut. These are American Watches, O. F. stem wind, and push-in stem and turn to set hands, and are first-class timekeepers. Will give perfect satisfaction.

If a nice leather wrist case is desired with these watches, send two extra subscribers.

Nos. 22, 23, 24 and 25 are similar to the accompanying cut. These are regular Ladies' Hunting Watches. Nos. 22 and 24 are fitted in 20-year guaranteed Gold Filled cases, nicely ornamented, or to be had in

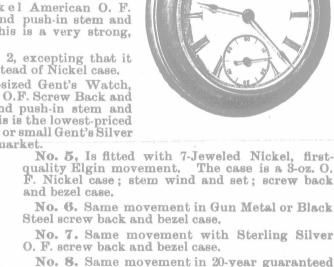
The

plain or plain engine turned, and the same applies to Nos. 23 and 25, excepting that they are fitted in 25-year guaranteed Gold Filled cases, and 14k Gold Filled; 22 and 23 are fitted with 7-Jeweled Nickel, first-quality Elgin movements. Nos. 24 and 25 are fitted with 15 Jeweled Nickel, first-quality Elgin movements. with 15-Jeweled Nickel, first-quality Elgin movements.

When making your choice of Watch as premium, be sure to mention its number as given in premium list, also whether Lady's or Gent's.

WM. WELD CO., Ltd., London, Ontario.

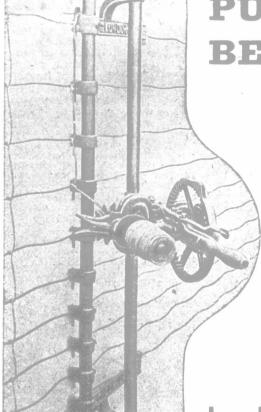








# PUTTING CART HORSE. BEFORE

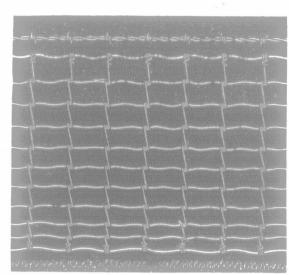


fence after it is woven is like "Putting the cart before the horse. The best fences are stretched first, each strand separately, and woven after. They fit the ground like a glove and have no slack strands — every wire does its duty.

Our modern London

Our modern London FENCE MACHINE in the hands of the average farmer will complete 40 to 60 rods per day easily. Anyone can operate it.

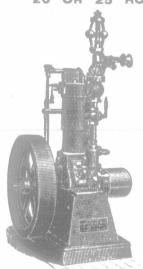
It's as simple as "running a wheelbarrow." Ask your hardware dealer for them and for London Coiled Spring Wire, or write us for



London Fence Machine Go., Ltd. Works at London, Can. Cleveland, Ohio.

# McLachlan Gasoline

18 MOUNTED IN 5, 10, 15, 20 OR 25 HORSE POWER.



WRITE

201 Queen St. E., TORONTO,

prices. om

# McMillan Fur & Wool Co WRITE FOR CIRCULARS

# GREAT CROPS OF

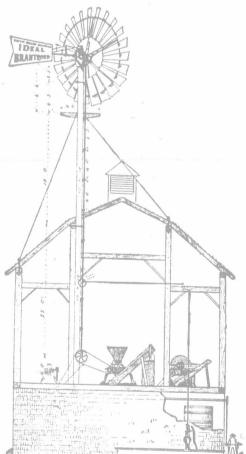
AND HOW TO GROW THEM

The best book on strawberry-growing ever written. It tells how to grow the biggest crops of big berries ever produced. The book is a treatise on Plant Physiology, and explains how to make plants bear Big Berries and Lots of Them. The only thoroughbred scientifically-grown Strawberry Plants to be had for spring planting. One of them is worth a dozen common scrub plants. They grow BIG RED BERRIES. The book is sent free to all readers of the "Farmer's Advocate." Send your address to R. M. KELLOGGE, om Three Rivers, Mich

# BRANTFORD

# Galvanized Steel Windmills

PUMPING OR POWER.



Grain Grinders, Wood Pumps, Iron Pumps, Tanks, Water Boxes, Beekeepers' Supplies, Etc., Etc.

WRITE IF INTERESTED.

# Shapley & Muir Co., Limited BRANTFORD, ONT.

SHEFFIELD, ENGLAND.

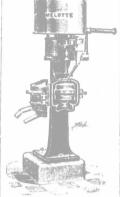
blade.

Please see that this EXACT MARK is on each GRANTED 1682 JAMES HUTTON & CO., MONTREAL, SOLE AGENTS 

Advertise in the Farmer's

# CREAM SEPARATORS





Separator fitted with a brake and beautifully enamelled bowl casing.

The Lightest Running and most durable Separator yet produced.

SENT ON TRIAL. Agents wanted where we are not already represented. Write for catalogue,

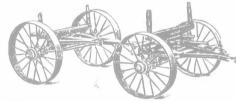
R. A. LISTER & C., LIMITED. 579 St, Paul Street, Montreal.



FOR WAGONS

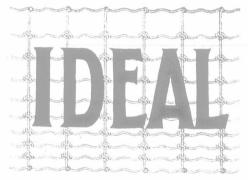
Made to fit any axle, of any desired height or width of tire. Are stronger, lighter and cheaper than wooden wheels. Just the thing for the farm. Our

QUEEN CITY HANDY WAGON



With metal wheels, is low and convenient for farm and general work. Made by skilled workmen, and of the best material. Guaranteed to carry four to five thousand pounds. Write for catalogue with full description of both Wheels and Wagons.

Dominion Wrought Iron Wheel Co., LTD., 9 AND 11 BROCK AVE., TORONTO, ONT.



Heavy uprights and bars of No. 9 hard spring wire, united by a perfect galvanized lock, make the IDKAL FENCE

# Strong, Serviceable,

Contraction and expansion amply provided or. Write to-day for catalogue.

THE

WINDSOR,

ONT.

Malkerville Wagon Quimited WALKERVILLÉ, ONT.

WRITE FOR CATALOGS.